

Betreft : Zettingsprognose (s2) voor nieuwbouw  
The View fase II aan de Hillelaan,  
Rijnhaven Zuidzijde  
te  
ROTTERDAM

Opdrachtgever : The View of Rotterdam BV  
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Behandeld door : ing. [REDACTED]

Kenmerk : R1603796-17 Revisie 5

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## 1. INLEIDING

In opdracht van The View of Rotterdam B.V. is door Mos Grondmechanica B.V. een adviesrapport opgesteld voor de nieuwbouw van The View II aan de Hillelaan, Rijnhaven Zuidzijde te Rotterdam.

Dit rapport bevat de zettingsprognose voor de  $s_2$  samendrukking van de beneden het paalpuntniveau aanwezige samendrukbare lagen, de formatie van Waalre. In revisie nummer 4 zijn de nieuwe belastingen verwerkt en zijn de berekeningen uitgevoerd met de in overleg met Arcadis overeengekomen grondparameters.

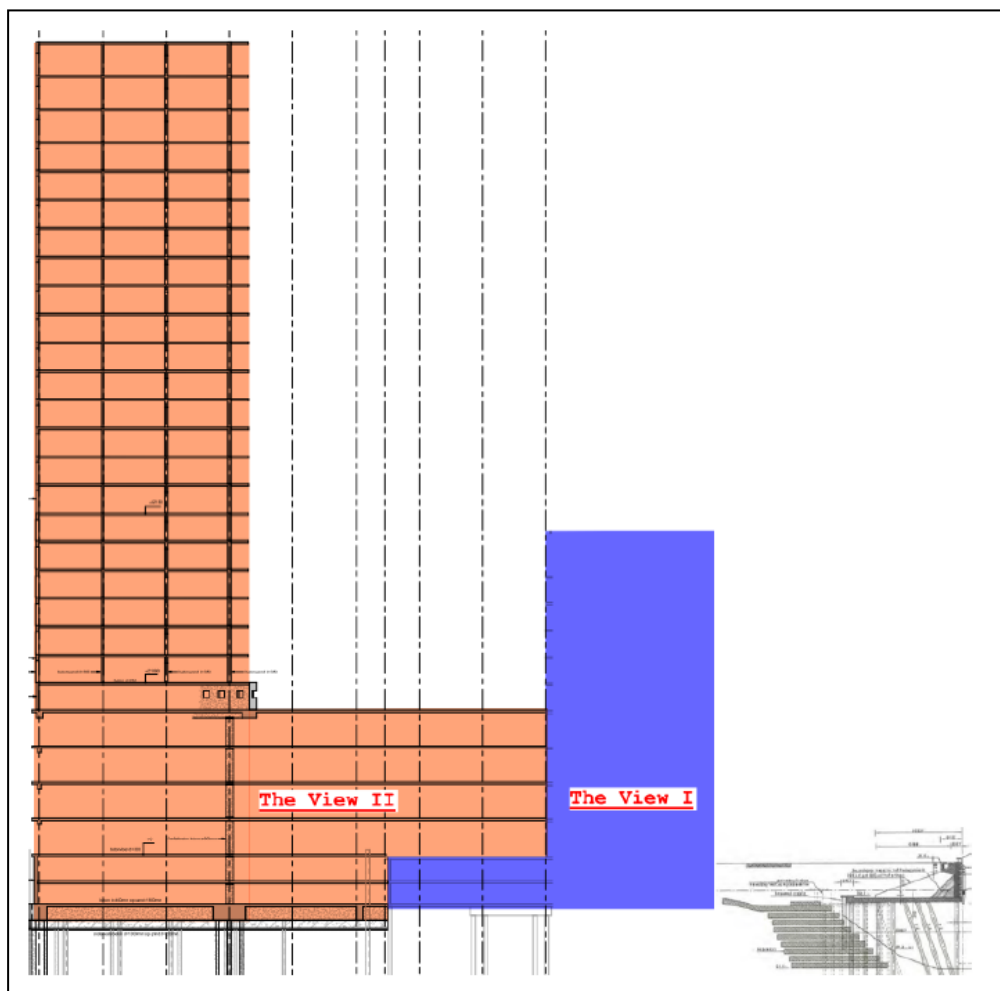
In deze revisie, nummer 5, zijn tekstuele aanpassingen doorgevoerd naar aanleiding van opmerkingen c.q. vragen van Arcadis.

De zettingsanalyse van de paalfundering is uitgevoerd met DSettlement.

Voor een overzicht van de voor dit project uitgebrachte rapporten wordt verwezen naar de documentenlijst in bijlage A.

Dit rapport betreft het zettingsgedrag van de hoogbouw en laagbouw van The View II ten opzichte van de zettingsprognose van The View I.

Als constructeur zijn Bouwadviesbureau Van Der Ven BV (The View I) en Arcadis (The View II) betrokken bij dit project.

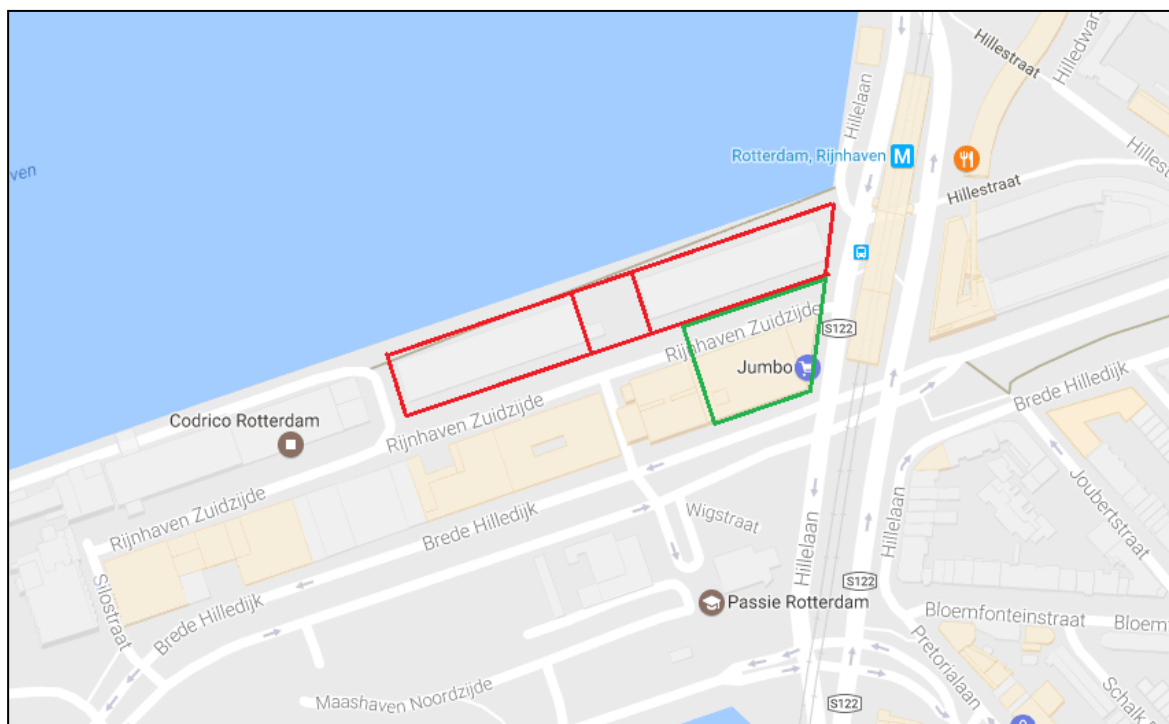


Figuur 1-1: Impressie project (bron: Arcadis)

## 2. PROJECTINFORMATIE

Het project betreft de realisatie van The View I en The View II aan de Hillelaan, Rijnhaven Zuidzijde en Brede Hilledijk te Rotterdam.

In figuur 2-1 zijn de contouren van The View I aangeduid met de rode kleur. De linker rechthoek van het met rood aangeduide gebied betreft de indicatieve locatie van het "West gebouw". De rechter rechthoek, met punt, betreft de indicatie locatie van het "Oost gebouw". De contouren van The View II zijn aangeduid middels de groene kleur.



Figuur 2-1: Locatie The View I en II

### The View I

Het bouwplan van The View I voorziet in de realisatie van twee wandgebouwen Oost en West. Onder de twee gebouwen die in elkaars verlengde liggen is één grote parkeerkelder gerealiseerd bestaande uit 2 bouwlagen (onderkant keldervloer op NAP -2,79 m). De parkeergarage is in het verleden (een aantal jaren geleden) gerealiseerd.

Een zettingsanalyse van The View I valt buiten de scope van dit rapport. De ontwerpgegevens van View I worden waar nodig meegenomen voor het ontwerp van View II, aangezien deze invloed hebben.

### The View II

In de eerste helft van 2019 is de gehele bouwcontour van met name de hoogbouw aangepast. De woontoren wordt meer naar de Brede Hilledijk gepositioneerd en krijgt een andere vorm.

Onder de woontoren wordt een parkeergarage gerealiseerd bestaande uit 2 bouwlagen. De parkeergarage zal aansluiten op de al bestaande parkeergarage van The View I.

Voor deze versie van de analyse van de zettingen van The View II zijn de volgende relevante gegevens aangeleverd:

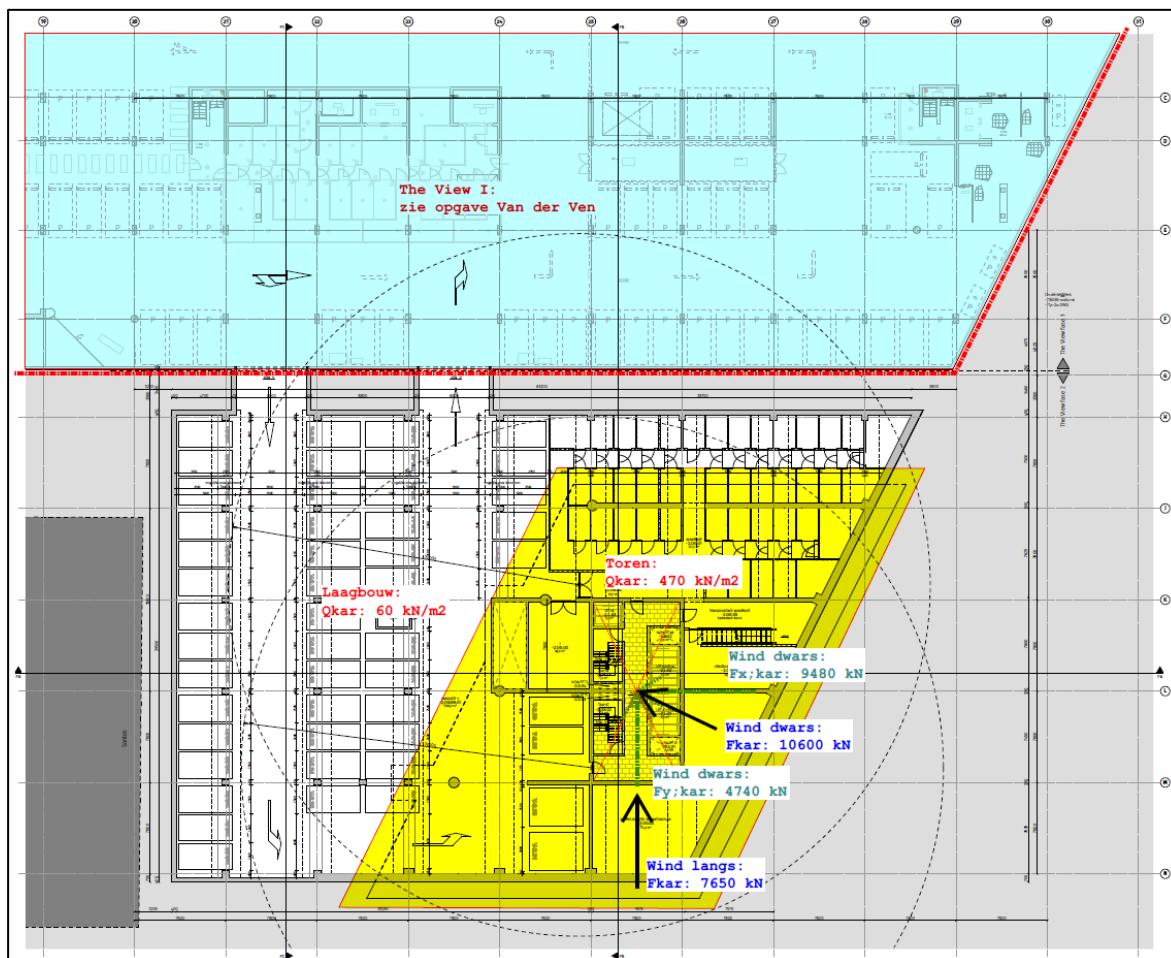
- Arcadis memo "Belastingen The View I en II voor zettingsberekeningen" d.d. 6 januari 2020 met referentie D10003929:8.
- Arcadis tekening VII-ARC-VII-00-DR-SE-DO-2000 "The view of Rotterdam fase II, VII Plattegrond begane grondvloer" versie 2, d.d. 31 oktober 2019.
- Arcadis tekening VII-ARC-VII-B1-DR-SE-DO-1920 "The view of Rotterdam fase II, VII All Zones, Plattegrond kelder -1" versie 2 d.d. 31 oktober 2019.
- Arcadis tekening VII-ARC-VII-B2-DR-SE-DO-1910 "The view of Rotterdam fase II, VII All Zones, Plattegrond kelder -2" versie 2 d.d. 31 oktober 2019".
- Arcadis tekening VII-ARC-VII-ZZ-DR-SE-DO-1050 "The view of Rotterdam fase II, VII All Zones, Stramien" zonder datum.
- Arcadis tekening VII-ARC-VII-ZZ-DR-SE-DO-3001 "The view of Rotterdam fase II, VII All Zones, Doorsnede tussen as 24-25 en Principe kolom as K-20", versie 2 d.d. 31 oktober 2019.

Uit deze documenten en aanvullende informatie van de constructeur zijn de volgende relevante projectgegevens afgeleid voor de kelder van The View II:

- Op de locatie is de bestaande bebouwing reeds gesloopt en is het terrein grotendeels tot circa NAP +2,5 m wederom aangevuld.
- Voor de nieuwbouw geldt:
  - PEIL: NAP +3,9 m;
  - bovenkant vloer -2: PEIL -6,105 = NAP -2,205 m;
  - dikte vloer laagbouw: 0,4 m, onderkant vloer op circa NAP -2,6 m;
  - bovenzijde OWB vloer: NAP -3,405 m;
  - onderzijde OWB vloer en grindlaag: NAP -4,005 m;
  - onderkant poer (hoogbouw): PEIL -7,905 = NAP -4,0 m;
  - onderzijde OWB vloer en grindlaag: NAP -4,60 m;
  - Globale afmetingen bouwput: ca. 69 m bij 47,5 m.
- De kelder van The View II zal worden aangesloten op de kelder van The View I. In The View I is de kelder binnen damwanden aangelegd, de damwanden zijn voor het overgrote deel weer getrokken. In The View II zal de kelder eveneens binnen damwanden worden aangelegd.
- Het damwandadvies wordt uitgewerkt voor een gestempelde damwand. De damwand wordt tevens gestempeld door een OWB-vloer waaronder wordt bemalen. De OWB vloer dient primair als steun voor de damwanden.
- Het maaiveldniveau wordt, buiten de contouren van de bouwkuip, niet significant gewijzigd.
- In dit rapport wordt vooralsnog uitgegaan van een fundering van de hoogbouw op de pleistocene zandlaag tot circa NAP -30,0 m met paalpuntniveaus van NAP -24,0 m conform R1603796-16 Rev. 3, d.d. 14 oktober 2019.

- Het oppervlak van de funderingsplaat ter plaatse van de hoogbouw is vergroot tot  $1240 \text{ m}^2$ .

Vanuit de constructeur zijn de belastingen opgegeven. Voor de hoogbouw is een momentane belasting opgegeven van  $470 \text{ kN/m}^2$  en voor de laagbouw een belasting van  $60 \text{ kN/m}^2$ . Dit zijn de belastingen die voortkomen uit de bebouwing en die na aftrek van de opwaartse grondwaterdruk gelden.



Figuur 2-2: Momentane belasting toren en laagbouw The View II

De fundering is op basis van bovenstaande projectgegevens ingedeeld in geotechnische categorie 3.

### 3. GEOTECHNISCHE GEGEVENS

#### 3.1 In het verleden uitgevoerd grondonderzoek

In het verleden (1970) is door Mos Grondmechanica grondonderzoek uitgevoerd ter plaatse van de bestaande Jumbo onder opdrachtnummers 701057 (sonderingen 1 en 2) en 71470 (sonderingen 3 tot en met 7). Het grondonderzoek is uitgevoerd op 17 oktober 1970 en 3 maart 1971. Het grondonderzoek is uitgevoerd op de locatie van de Jumbo-supermarkt aan de Hillelaan. Onder het laatst vermelde opdrachtnummer is tevens een funderingsadvies opgesteld voor het betreffende object.

Voor de omschrijving en de resultaten van het uitgevoerde grondonderzoek wordt verwezen naar Mos Grondmechanica rapport 701037, d.d. 29 oktober 1970 en rapport 71470, d.d. 13 mei 1971.

De diepte van deze sonderingen is niet toereikend om de hier beoogde paalfundering mee uit te rekenen, deze sonderingen worden dus niet verder gebruikt.

#### 3.2 Uitgevoerd grondonderzoek The View I

Op 10 tot en met 12 maart 2008, 5 december 2008 en 7 en 8 april 2009 zijn door Geomet de sonderingen met nummers 1 tot en met 26, 28, 29, 36 en 38 uitgevoerd. Sondering 38 is uitgevoerd tot een diepte van maaiveld -54,8 m (NAP -51,5 m), de overige sonderingen zijn uitgevoerd tot een diepte van maaiveld -32,6 m à maaiveld -35,9 m (maximaal NAP -32,7 m).

Op 29 maart 2011 zijn door Geomet de sonderingen met nummers 27 en 101 tot en met 109 uitgevoerd. De sonderingen zijn uitgevoerd tot een diepte van maaiveld -34,9 m à maaiveld -38,3 m (maximaal NAP -34,5 m).

Naast de conusweerstand ( $q_c$ ) is bij 17 sonderingen de plaatselijke wrijving ( $f_s$ ) gemeten en derhalve het berekende wrijvingsgetal ( $R_f$ ) gepresenteerd. Bij de overige sonderingen is ook de plaatselijke wrijving gemeten maar niet gepresenteerd. Bij het aanleveren van de digitale bestanden van de sonderingen (.GEF) is van alle sonderingen de gemeten plaatselijke wrijving aangeleverd. Uit de plaatselijke wrijving en de conusweerstand is het wrijvingsgetal ( $R_f$ ) berekend. Dit getal geeft nader inzicht in de aanwezige grondsoorten.

In de directe nabijheid van sondering 15 is de geotechnische boring B01 uitgevoerd tot een diepte van maaiveld -23 m. De boring is als verbuisde pulsborings uitgevoerd. Op verschillende diepten zijn in totaal 14 ongeroerde monsters gestoken. Op de projectlocatie zijn tevens twee handboringen met de nummers HB01 (nabij sondering 05) en HB02 (nabij sondering 23) uitgevoerd tot een diepte van maaiveld -3,0 m.

De sondeer- en boorlocaties zijn door Geomet in het terrein uitgezet en gewaterpast ten opzichte van NAP. De locaties zijn niet ingemeten ten opzichte van RD (RijksDriehoek) stelsel. De locaties van de sonderingen zijn echter wel verwerkt in een ABT rapport en op diverse funderingstekeningen.

Voor de resultaten van de waterpassing en een situatietekening met de ligging van de onderzoekslocaties wordt verwezen het ABT rapport met werkcode/werknummer 09736G, datum 30 maart 2011.

Mos Grondmechanica staat niet in voor de juistheid en volledigheid van gegevens van derden.

### 3.3 Uitgevoerd grondonderzoek

Op 24 november 2017 is door Mos Grondmechanica aan de westzijde van Santos grondonderzoek uitgevoerd. Het grondonderzoek is uitgevoerd om met name inzicht te krijgen in de opbouw van de diepere lagen.

Op 24 november 2017 zijn de sonderingen met nummers 10 tot en met 12 uitgevoerd. Sondering 10 is uitgevoerd tot een diepte van circa maaiveld - 57 m. Sondering 11 is uitgevoerd tot een diepte van maaiveld - 31,5 m.

Sondering 13 was gedurende de uitvoering niet bereikbaar i.v.m. geparkeerde voertuigen. Sondering 12 en 12A zijn vanwege obstructie in de ondergrond op maaiveld -1,50 en maaiveld - 2,91 m niet op diepte uitgevoerd.

Naast de conusweerstand ( $q_c$ ) is de plaatselijke wrijving ( $f_s$ ) gemeten en derhalve het berekende wrijvingsgetal ( $R_f$ ) gepresenteerd. Voor de omschrijving en de resultaten van het uitgevoerde grondonderzoek wordt verwezen naar Mos Grondmechanica rapport R1603796-10, d.d. 20 januari 2018.

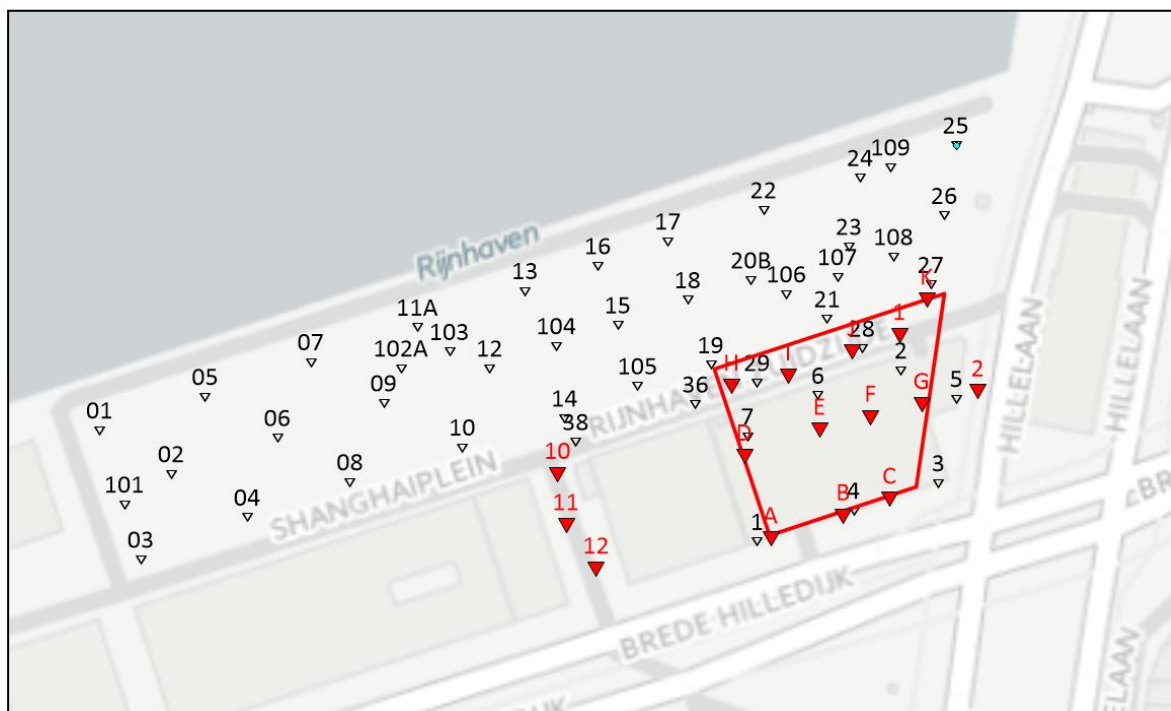
In de nacht van 10 op 11 september 2018 zijn de sonderingen met nummers 1 en 2 uitgevoerd tot een diepte van maaiveld - 67 m.

Naast de conusweerstand ( $q_c$ ) is de plaatselijke wrijving ( $f_s$ ) gemeten en derhalve het berekende wrijvingsgetal ( $R_f$ ) gepresenteerd. Voor de omschrijving en de resultaten van het uitgevoerde grondonderzoek wordt verwezen naar Mos Grondmechanica rapport R1603796-15, d.d. 17 september 2018.

In februari en mei 2019 zijn de sonderingen met letters A tot en met K uitgevoerd. De sonderingen zijn uitgevoerd tot NAP - 84 m waarbij de diepte tot ruim onder de beoogde paalpunt is verkend. Voor de omschrijving en de resultaten van het uitgevoerde grondonderzoek van de sonderingen met de letters A tot en met K wordt verwezen naar Mos Grondmechanica rapport R1603796-21, d.d. 29 mei 2019.

### 3.4 Overzicht sondeerlocaties

Op basis van de verschillende tekeningen van de uitgevoerde sonderingen, is een overzichtstekening gemaakt van de sondeerlocaties. Deze is opgenomen in figuur 3-1. Rood omlijnd is de globale bouwkuip voor The View II.



Figuur 3-1: Beschikbare sonderingen

### 3.5 Uitgevoerde boring

Ter plaatse van sondering F is tevens een boring, met ongeroerd monsternamen, uitgevoerd. De boring is gepresenteerd in rapport R1603796-22 d.d. 25 september 2019. De samendrukkingsproeven die zijn uitgevoerd op de ongeroerde monsters alsmede de boorstaat van de boring zijn gepresenteerd in bijlage B en C.

### 3.6 Geotechnisch profiel

De maaiveldhoogte ter plaatse van de sondeerlocaties varieert van NAP +4,86 m tot NAP +0,74 m.

Aan de hand van het uitgevoerde grondonderzoek is het volgende geotechnische profiel opgesteld:

- Vanaf maaiveld tot NAP  $\pm 0,0$  m à NAP -1,0 m is matig fijn, zwak siltig zand, lokaal puinhoudend, aangetroffen waarin conusweerstand ( $q_c$ ) zijn gemeten van 2 MPa tot 10 MPa.

Natuurlijke grondopbouw:

- Vanaf NAP  $\pm 0,0$  m à NAP -1,0 m tot NAP -16,5 m à NAP -18,0 m is matig slappe tot slappe, zwak tot matig siltige klei, met bovenin humeuze bijmenging aangetroffen. Lokaal is wadzand (afwisseling van dunne klei- en zandlagen) aangetroffen. In het pakket zijn conusweerstand gemeten van 0,2 MPa tot 1 MPa in het cohesieve en 1 MPa tot 6 MPa in het niet cohesieve materiaal.

Grondopbouw langs de kadeconstructie:

- Vanaf NAP  $\pm 0,0$  m à NAP -1,0 m tot NAP -7,2 m à NAP -11,0 m is los tot matig gepakt zand aanwezig waarin conusweerstand zijn gemeten van 2 MPa tot 10 MPa.

Vervolg:

- Vanaf NAP -16,5 m à NAP -18,0 m tot NAP -27,5 m à NAP -31,0 m is een draagkrachtig (pleistoceen) zandpakket aangetroffen waarin conusweerstand zijn gemeten van 4 MPa tot 30 MPa en hoger. Terugvallen in de conusweerstand tot 1,5 MPa à 2 MPa worden veroorzaakt door klei en of silthoudend of los gepakt zand.
- Vanaf NAP -27,5 m à NAP -31,0 m tot aan de maximaal verkende diepte van NAP -84 m is de gecombineerde formatie van Peize en de formatie van Waalre aangetroffen, hierna benoemd als de formatie van Waalre. Deze overgeconsolideerde formaties bestaan hoofdzakelijk uit fijn zand en klei en bevatten soms, zoals op deze locatie, ook veenlagen. In dit pakket zijn conusweerstand gemeten van 2 MPa tot 4 MPa in de klei, 4 MPa tot 9 MPa in het veen en 10 MPa tot 20 MPa en hoger in het zand.

### 3.7 Grondwaterstanden en stijghoogten

#### Geomet

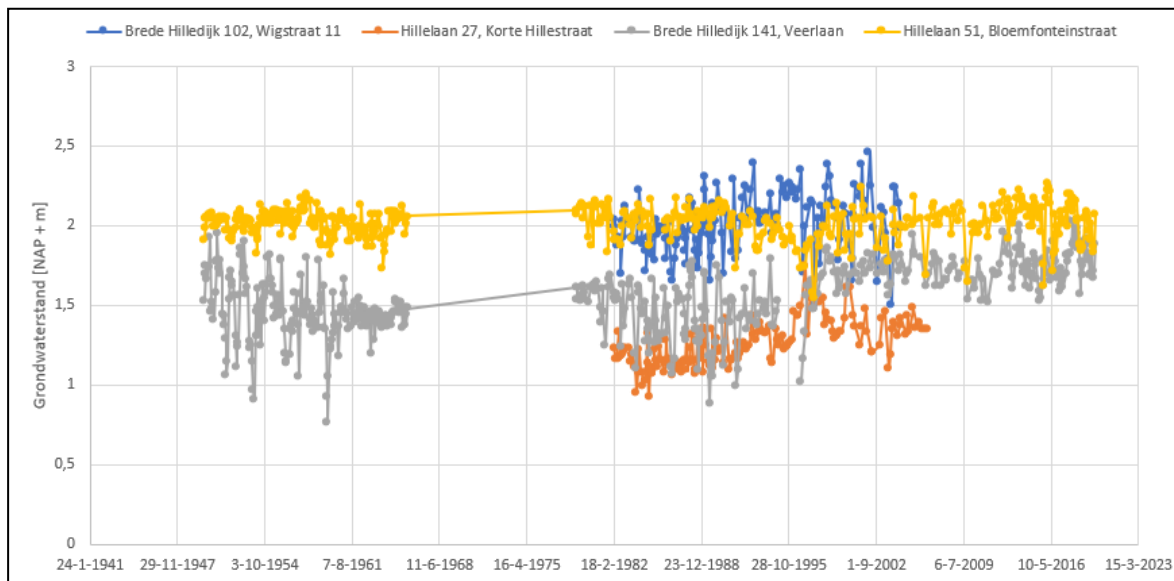
De freatische grondwaterstand is tijdens de uitvoering (10 tot 12 maart 2008) van het grondonderzoek in de boorgaten (HB01, HB02 en B01) aangetroffen op NAP +0,32 m à NAP +0,41 m. Hierbij wordt opgemerkt dat deze gemeten grondwaterstand slechts een momentopname tijdens boren is.

In peilbuis PB02, die geplaatst is in de natuurlijke grondopbouw, was een Diver geplaatst die van 16 december 2008 tot en met 26 februari 2009 continu de grondwaterstand heeft geregistreerd (filter tussen NAP +0,43 en NAP +1,43 m). In deze periode fluctueerde de grondwaterstand tussen NAP +1,92 m en NAP +2,36 m.

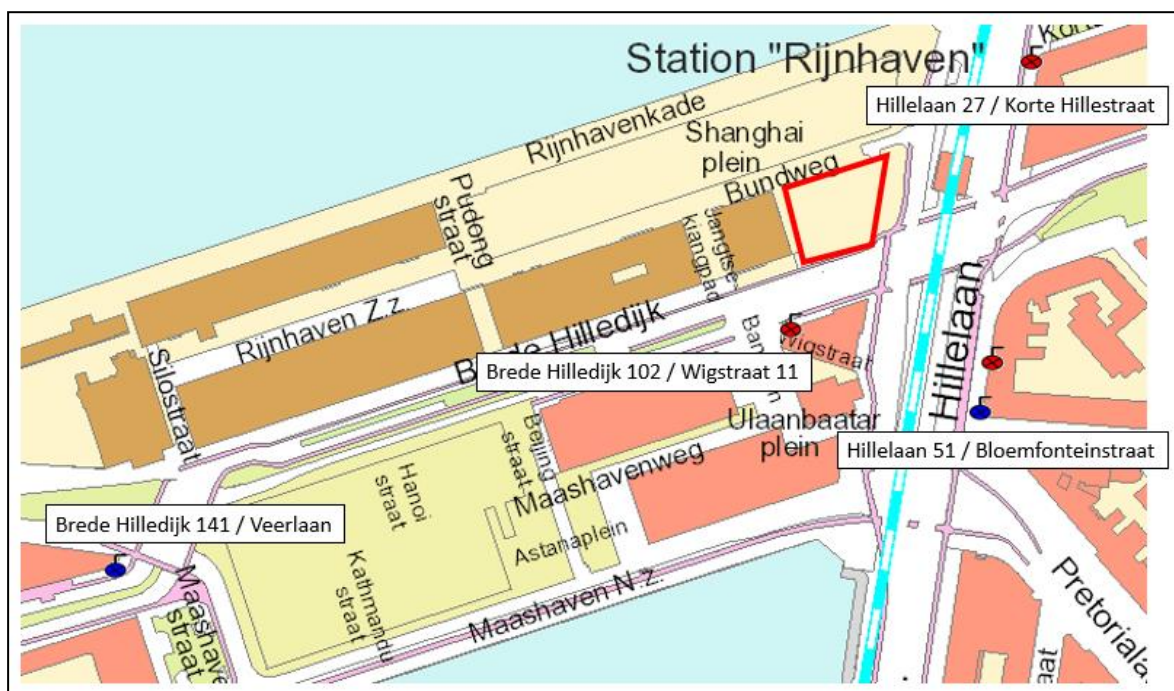
In de periode van 16 december 2008 (voor de metingen van de waterstand in de haven vanaf 10 januari 2009) tot en met 26 februari 2009 zijn zowel de waterstanden in de haven als de stijghoogte in het diepe zandpakket (MDF03, filter tussen NAP -17,32 m en NAP -18,32 m) continu geregistreerd met behulp van divers. De waterstand in de Rijnhaven fluctueerde in deze periode tussen NAP -1,20 m en NAP +2,0 m. Het verschil in waterstand ten gevolge van het getij bedraagt circa 1,5 m. De stijghoogte in het diepe zandpakket fluctueerde in deze periode tussen NAP -1,05 m en NAP +0,00 m. Het verschil ten gevolge van getij bedraagt circa 0,5 m. De stijghoogte in het diepe zandpakket reageert op de waterstand in de Rijnhaven, zij het dat een vertragend en dempend effect optreedt. Dit komt door de aanwezigheid van waterremmende cohesieve lagen tussen de havenbodem en het eerste zandpakket en door de doorlaatfactor van het watervoerende pakket zelf.

#### Gemeente Rotterdam

Op het online datapanel van de Gemeente Rotterdam is een viertal peilbuizen aangetroffen in de directe nabijheid van de projectlocatie. In de peilbuizen is gedurende lange periode (langer dan 25 jaar) herhaaldelijk de freatische grondwaterstand gemeten. De locatie van de peilbuizen betreffen Brede Hilledijk 102 - Wigstraat 11 (130564-3), Hillelaan 24 - Korte Hillestraat (130565-7), Brede Hilledijk 141 - Veerlaan (130564-2) en Hillelaan 51 - Bloemfonteinstraat (130654-4). De resultaten van de metingen zijn weergegeven in figuur 3-2, een locatieoverzicht is opgenomen in figuur 3-3.



Figuur 3-2: Gemeten freatisch grondwater in de directe nabijheid van de projectlocatie



Figuur 3-3: Locaties peilbuizen

Opgemerkt wordt dat de stijghoogte mede afhankelijk is van de waterstand in de Rijnhaven. Deze waterstand kan duidelijk hoger worden dan NAP +2,0 m (maximaal gemeten waterstand door Geomet in januari en februari 2009). Bij waterstanden hoger dan NAP +2,0 m kunnen ook stijghoogten hoger dan NAP +0,0 m optreden.

In de zettingsberekeningen is uitgegaan van een gemiddelde grondwaterstand van NAP +1,5 m.

## 4. OVERZICHT ZETTING

### 4.1 Algemeen

De zettingen van palen op paalkopniveau zijn opgebouwd uit de elastische verkorting van de palen, de zakking van de paalpunt als gevolg van de belasting op de paal en de samendrukking van de grondlagen onder het paalpuntniveau. Er geldt:

$$S_{rep} = S_{1;rep} + S_{2;rep}$$

waarin:  $S_{1;rep}$  = de zakking van de paalkop van een alleenstaande paal;

$S_{2;rep}$  = de zakking door samendrukking van de beneden  $4D$  onder het paalpuntniveau aanwezige samendrukbare lagen in geval van een groep palen met h.o.h. afstanden kleiner dan  $10 \times D_{punt}$ .

$$S_{1;rep} = S_{punt;rep} + S_{el;rep}$$

waarin:  $S_{punt;rep}$  = zakking van de paalpunt als gevolg van de belasting op de paal;

$S_{el;rep}$  = zakking door elastische verkorting van de paal.

### 4.2 Paalkopzakkingen ( $s_1$ )

In de bruikbaarheidsgrenstoestand bedragen de paalkopzakkingen  $s_{1;rep}$  ca. 15 mm zoals aangegeven in het funderingsadvies met kenmerk R1603796-16, Rev. 4. Afhankelijk van de opbouw van de ondergrond en de gekozen paal-afmetingen bedragen de maximale zettingsverschillen, uitgaande van praktisch gelijke paalbelastingen, ca. 10 mm.

De werkelijk optredende zettingen en zettingsverschillen zijn onder meer afhankelijk van de beschouwde locatie, de toegepaste paalafmetingen en de werkelijk optredende paalbelastingen.

### 4.3 Zetting diepere grondlagen ( $s_2$ )

Voor de hoogbouw dient, met name daar waar dichte paalgroepen met hoge belastingen worden toegepast, rekening worden gehouden met additionele zettingen  $s_{2;rep}$  en zettingsverschillen in verband met de samendrukking van de diepere aanwezige grondlagen. Deze zetting uit de diepere samendrukbare lagen  $s_{2;rep}$  treedt in de loop van de tijd op.

De constructeur heeft een opgave verstrekt van de belastingen voor de hoogbouw, de belastingen betreffen momentane belastingen. Deze zijn met name van belang omdat de zetting uit de diepe lagen een tijdsafhankelijk proces is en dus gerekend dient te worden met de belastingen zoals deze "permanent" aanwezig zijn.

De opgegeven belastingen zijn inclusief de opwaartse waterdruk onder de parkeergarage. De zettingsberekeningen (ter bepaling van  $s_{2;rep}$ ) zijn uitgevoerd met het programma DSettlement, versie 19.1. Als berekeningsmethode is methode NEN-Koppejan, met natural strain aangehouden waarbij rekening wordt gehouden met consolidatie en seculaire effecten, ook wordt rekening gehouden met belasting-spreiding in de ondergrond.

De verstrekte belastingopgave is opgegeven als de momentane belasting voor de toren en de laagbouw. Deze belasting is vervolgens gedeeld over de betreffende bebouwde oppervlakten. In de zettingsberekeningen zijn blokbelastingen gemodelleerd waarbij circa 1/3 van de belasting wordt afgedragen op het niveau van de schacht en 2/3 ter plaatse van de paalpunt. Het paalpuntniveau wat gebruikt is om de  $s_2$  zettingen te bepalen is aangehouden op NAP -24,0 m. Het bijbehorende aangrijpniveau voor de schachtwrijving is aangehouden op NAP -21,6 m.

Voor de schematisering van de ondergrond, onder de paalpunten, zijn de sonderingen A tot en met K gebruikt. Omdat de diepe grondlagen nu goed verkend zijn, is de zettingsprognose met een iets andere grondopbouw onder de 2<sup>e</sup> fase van de The View I bouwkuip beschouwd en meegenomen in deze prognose. Met name ter plaatse van de oostzijde resulteert dit in een iets ander zettingsverloop dan eerder in rapport R1603796-01 weergegeven. De diepe sonderingen zijn uitgevoerd tot ca. NAP -84,0 m tot in de formatie van Waalre.

Aan de hand van het recent uitgevoerde laboratoriumonderzoek en tabel 2.b van NEN 9997-1:2017 zijn de grondeigenschappen van iedere laag bepaald. Het uitgevoerde grond- en laboratoriumonderzoek is leidend voor de schematisering en de grondparameters. Het geschematiseerde, ten opzichte van eerdere berekeningen aangepaste grondprofiel met de bijbehorende grondparameters is vermeld in tabel 4-1.

*Tabel 4-1: Geschematiseerd grondprofiel inclusief verloop voor zettingsberekening  $s_2$  op basis van samendrukkingsproeven*

| Laag<br>[nr.] | o.k. Laag<br>[NAP + m] | Grondsoort<br>[-]           | $\gamma / \gamma_{\text{sat}}$<br>[kN/m <sup>3</sup> ] | $C_p$<br>[-] | $C'_p$<br>[-] | $C_s$<br>[-] | $C'_s$<br>[-] | (C/C')    | $c_v$<br>[m <sup>2</sup> /s] |
|---------------|------------------------|-----------------------------|--------------------------------------------------------|--------------|---------------|--------------|---------------|-----------|------------------------------|
| 0             | +3,24                  | ( $\approx$ maaiveldniveau) |                                                        |              |               |              |               |           |                              |
| 1             | +1,2                   | Klei, toplaag               | 14/ 14                                                 | -            | -             | -            | -             | -         | -                            |
| 2             | -4,0                   | Klei, zwak humeus           | 15/ 15                                                 | -            | -             | -            | -             | -         | -                            |
| 3             | -16,6                  | Klei, sterk zandig          | 18/ 18                                                 | -            | -             | -            | -             | -         | -                            |
| 4             | -29,0/ -29,4           | Zand, vast                  | 19/ 21                                                 | 3000         | 1000          | $\infty$     | $\infty$      | 3000/1000 | gedraineerd                  |
| 5             | -33,4/ -34,3           | Klei                        | 19,5/ 19,5                                             | 78,5         | 18,3          | 1080         | 387           | 61/ 15    | $5 \times 10^{-8}$           |
| 6             | -35,3/ -35,0           | Zand, zw. siltig            | 19/ 20                                                 | 1800         | 600           | $\infty$     | $\infty$      | 1800/600  | gedraineerd                  |
| 7             | -44,0/ -44,2           | Klei                        | 21/ 21                                                 | 104          | 23,4          | 1270         | 600           | 78/20     | $5 \times 10^{-8}$           |
| 8             | -48,4/ -49,0           | Zand, zw. Siltig            | 19/ 20                                                 | 1800         | 600           | $\infty$     | $\infty$      | 1800/600  | gedraineerd                  |
| 9             | -52,3/ -52,3           | Klei                        | 19/ 19                                                 | 60           | 17            | 920          | 310           | 48/14     | $5 \times 10^{-8}$           |
| 10            | -54,2/ -54,2           | Zand, zw. Siltig            | 19/ 21                                                 | 1800         | 600           | $\infty$     | $\infty$      | 1800/600  | gedraineerd                  |
| 11            | -56,0/ -56,0           | Klei                        | 19/ 19                                                 | 60           | 17            | 920          | 310           | 48/14     | $5 \times 10^{-8}$           |
| 12            | -67,0/ 67,5            | Zand, zw. Siltig            | 19/ 21                                                 | 1800         | 600           | $\infty$     | $\infty$      | 1800/600  | gedraineerd                  |

De niet ingevulde cellen zijn niet relevant omdat de hier beschouwde zetting ( $s_2$ ) voortkomt uit de lagen onder de beoogde paalpuntniveaus.

Hierin is:

|                                |                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------|
| $\gamma/\gamma_{\text{sat}}$ : | Volumiek gewicht van de veldvochtige grond / volumiek gewicht van de verzadigde grond; |
| $C_p/C_p'$ :                   | Primaire samendrukkingscoëfficiënt onder / boven de grensspanning;                     |
| $C_s/C_s'$ :                   | Secundaire samendrukkingscoëfficiënt onder / boven de grensspanning;                   |
| $C/C'$ :                       | Samendrukkingscoëfficiënt onder / boven de grensspanning;                              |
| $c_v$ :                        | Consolidatiecoëfficiënt.                                                               |

De in tabel 4-1 genoemde samendrukkingsparameters zijn afkomstig uit het laboratoriumonderzoek, zie bijlage C. In de berekeningen is voor de samendrukbare lagen in de formatie van Waalre (Kedichem) een OCR van 2,0 gehanteerd, vergelijkbaar met recente hoogbouw projecten in Rotterdam-Zuid (De Rotterdam).

In bijlage B is de definitieve boorstaat gepresenteerd. In deze definitieve boorstaat is de laboratoriumclassificatie van de ongeroerde monsters verwerkt en zijn tevens de resultaten van de sonderingen betrokken. Er is een verschil tussen de laboratoriumclassificatie en de veldclassificatie van de boring. Hierbij prevaleert de laboratoriumclassificatie. Uit de laboratoriumclassificatie blijkt dat de bussen waarin veen zou moeten zitten (volgens de veldclassificatie), geen veen bevatten. Ons inziens kan de laag rond NAP - 41 m geen veen zijn, hetgeen wordt ondersteund door de sonderingen.

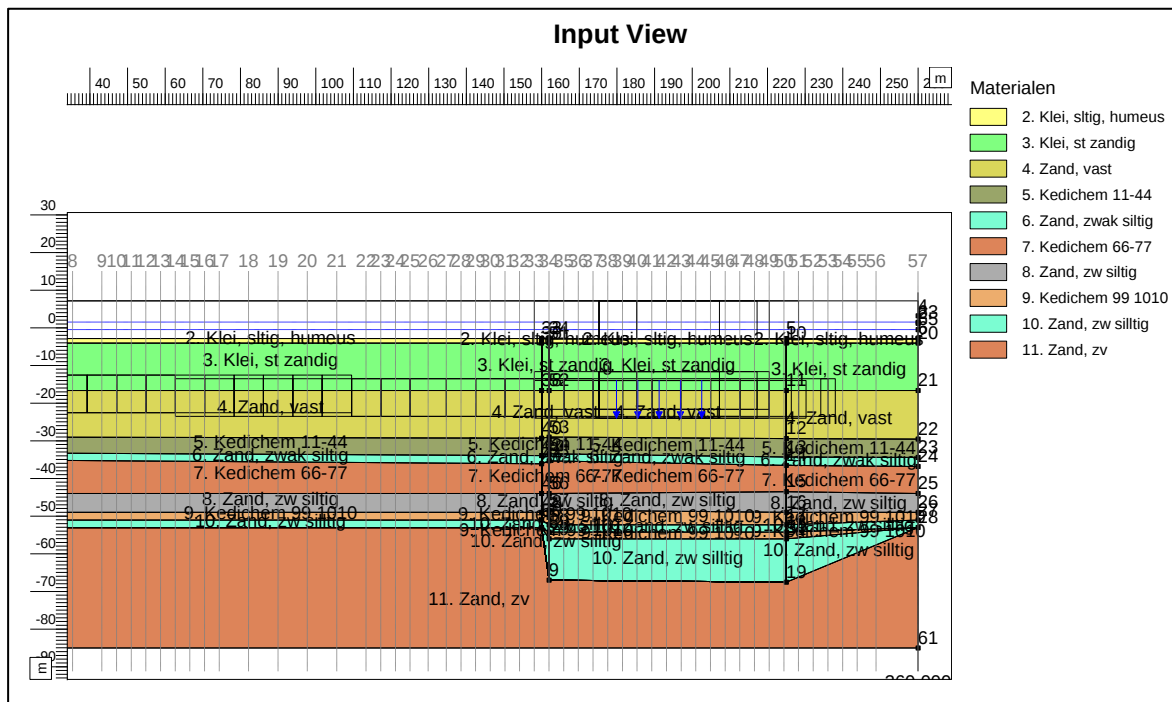
Rond NAP - 38 m wordt wel een veenlaag aangetroffen in de monsterbus, dit komt ook overeen met de sonderingen. Echter gezien de vastheid van deze veenlaag lijkt dit meer op bruinkool dan op daadwerkelijk veen en zijn de parameters afkomstig uit de samendrukkingsproef ons inziens ook niet representatief voor deze laag. Deze veenlaag (of eigenlijk bruinkool) is, analoog aan eerdere bij ons bekende hoogbouwprojecten, niet afzonderlijk meegenomen daar deze laag qua stijfheid vergelijkbaar is met de aanwezige kleilagen.

De freatische grondwaterstand is aangehouden op NAP +1,5 m. De stijghoogte in de Pleistocene zandpakket en diepere lagen is aangehouden op NAP -0,50 m. Aangenomen is dat het verschil in stijghoogte in de basisveenlaag wordt overbrugd.

In de zettingsberekeningen is ook rekening gehouden met ontspanning op putbodemp (onderzijde vloer parkeergarage) in verband met het ontgraven van grond. Deze ontspanning is in de berekeningen verdisconteerd door de het gewicht van de te ontgraven grond, groot 62 kN/m<sup>2</sup>, in mindering te brengen.

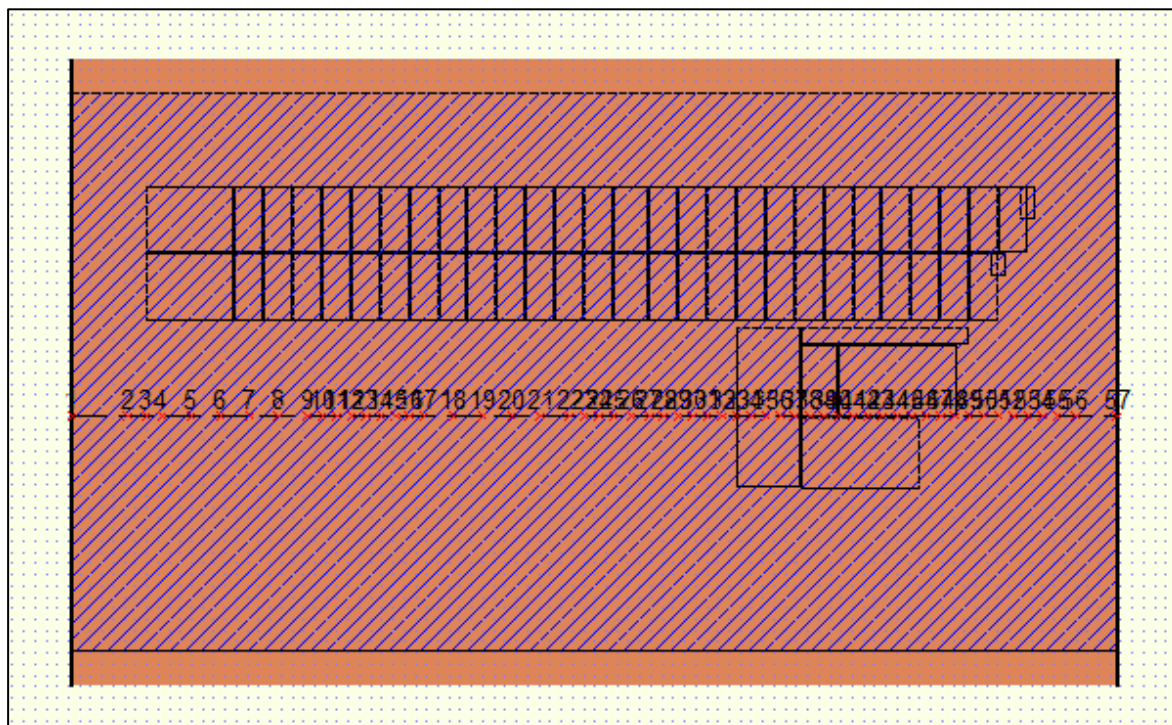
Voor de ingevoerde belastingen is per stramien een beschouwing gemaakt. De opgegeven belastingen per stramien zijn gegeven in tekeningen en zijn verwerkt tot belasting op genoemde niveaus. De uitwerking van deze gegevens is weergegeven in bijlage D.

In figuur 4-1 is de gehanteerde geometrie weergegeven.



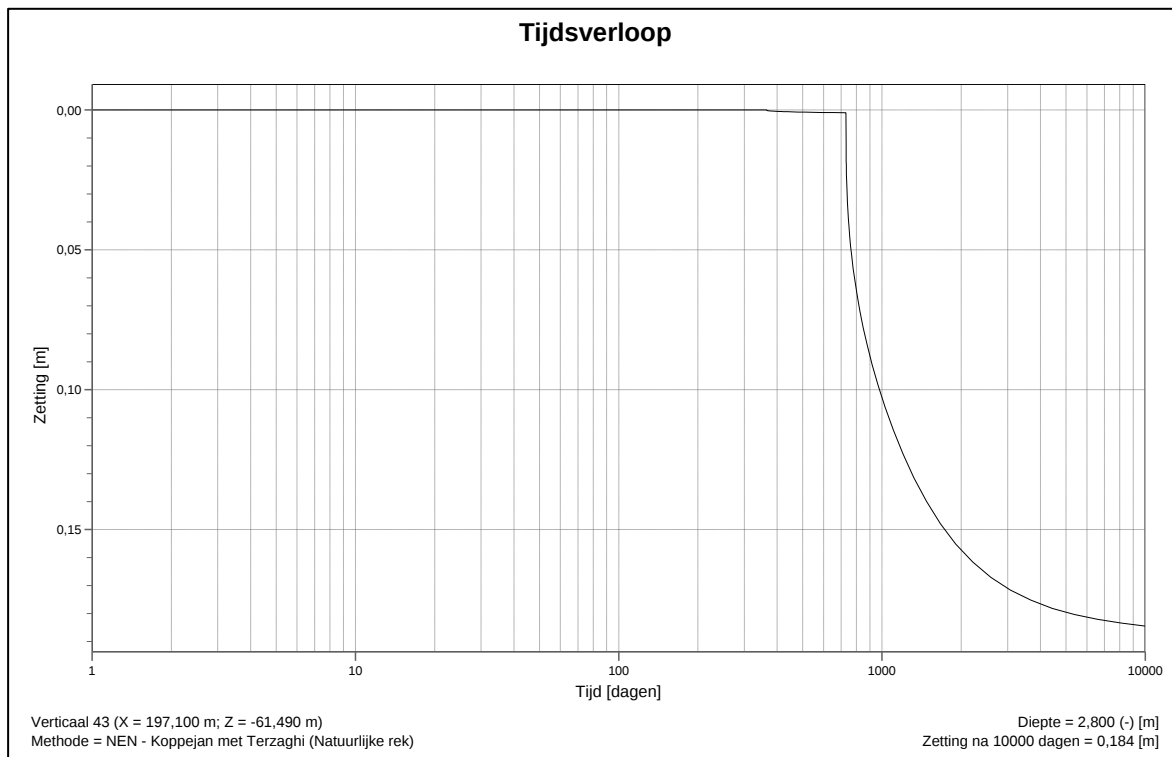
Figuur 4-1: Gehanteerde geometrie

De zettingen ( $s_{2,rep}$ ) zijn berekend voor een variërend raster van verticalen. Ter plaatse van alle assen is een rekenverticaal gepositioneerd alsmede ter plaatse van blokbelastingen respectievelijk bouwdelen waarbij een groot verschil in belasting aanwezig is, zie figuur 4-2. Dit zodat het verloop van zettingen nauwkeuriger kan worden beoordeeld.

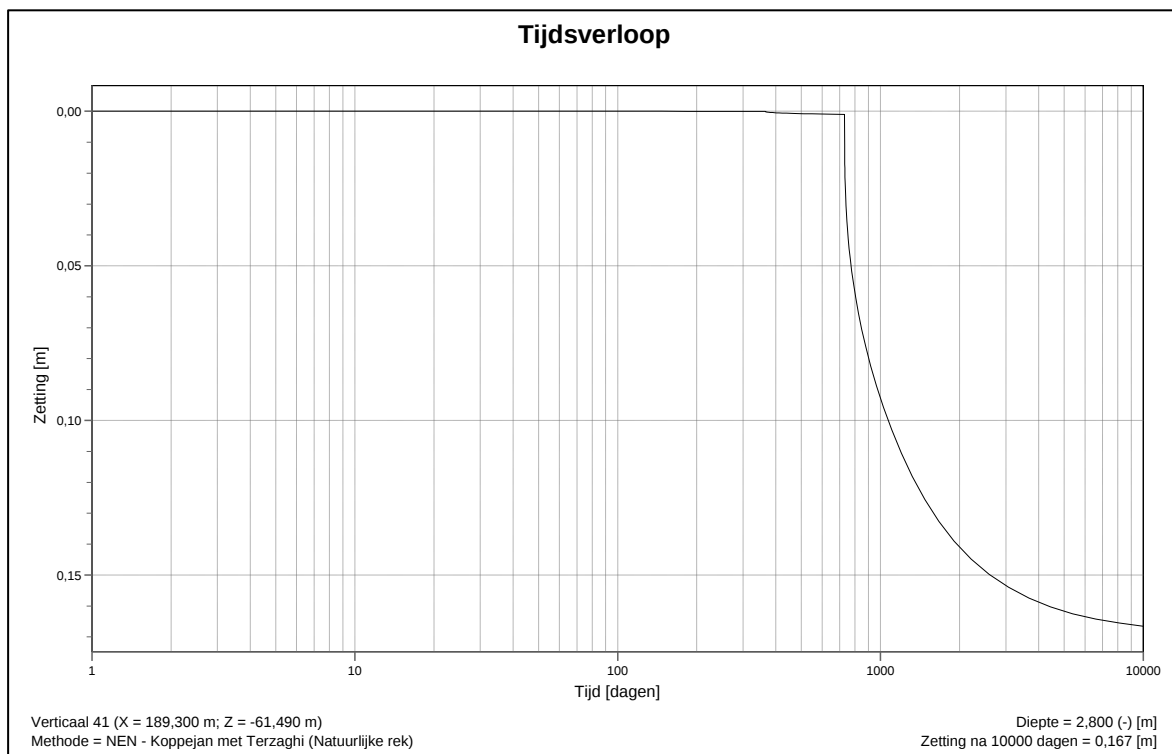


Figuur 4-2: Bloklasten en assen

In de figuren 4-3 en 4-4 is het tijdzettingsverloop in het midden van de hoogbouw en langs de rand van de hoogbouw gepresenteerd.



*Figuur 4-3: Tijd-zettingsgedrag midden hoogbouw o.b.v. parameters uit SD proeven en OCR = 2,0*



*Figuur 4-4: Tijd-zettingsgedrag rand hoogbouw op basis van parameters uit SD proeven en OCR = 2,0*

Op basis van de berekende waarden voor de zakking  $s_{2,rep}$  is een contourenplot gemaakt (interpolatie via de methode Kriging). In bijlage E is deze contourplot voor de  $s_{2,rep}$  aanwezig voor bouwdeel The View I en The View II. In bijlage F zijn numerieke waarden weergegeven van de zettingen langs de getekende sneden. In bijlage G is een relevante uitdraai van de DSettlement berekening gepresenteerd.

Op basis van de berekende zettingen zal uiteindelijk de rand van de hoogbouw circa 130 mm à 165 mm en het midden circa 185 mm zakken.

#### 4.4 Conclusie

Uit de uitgevoerde berekeningen volgt een maximale zetting ter plaatse van de hoogbouw van View II van ca. 185 mm. Het overgrote deel van de zettingen (ca. 90 %) wordt berekend in de periode 5 jaar na realisatie van de hoogbouw. Een jaar na realisatie van de hoogbouw wordt ca. 60 % van de eindzetting berekend.

Uit de berekeningen blijkt tevens dat ter plaatse van View I rekening gehouden dient te worden met een zetting van maximaal ca. 65 mm. Ter plaatse van het gebouw Santos wordt een zetting berekend van ca. 10 mm verlopend naar nihil op ca. 15 m afstand.

#### 4.5 Aanbevelingen

De zettingen en de zettingsverschillen dienen door de constructeur te worden getoetst. Hierbij dienen zowel de nieuw te bouwen constructies als de omgeving te worden beschouwd.

De zettingsverschillen moeten door de nieuw te bouwen constructies kunnen worden opgenomen. De constructie moet zodanig worden gewapend dat de zettingsverschillen in de uiterste grenstoestand kunnen worden opgenomen op alle niveaus in het bouwwerk. Daarnaast moet aan vlakheidseisen worden voldaan. Door het toevoegen van wapening kan extra sterkte worden toegevoegd, door het verdikken van de constructie kan extra sterkte en stijfheid worden toegevoegd en daarmee de zettingsverschillen in de constructie worden verkleind; dit zorgt echter ook weer voor een verzwaring en additionele zakking zodat een herbeschouwing van de zettingen nodig is.

De totaalzetting oftewel de uniforme zetting kan gevolgen hebben voor de toegankelijkheid van het gebouw.

Naast het effect op de constructie zelf moet het effect van de zettingscontouren in de omgeving worden beschouwd. Hiervoor moet de toelaatbaarheid van rotaties van belendingen door de constructeur worden bepaald. Voor een uitgebreide toetsing kunnen wij meer input voor zakking op bepaalde niveaus (bijvoorbeeld de paalpuntniveaus van belendingen) aanleveren.

Mogelijk zijn nog additionele aspecten van toepassing bij het ontwerp van de hoogbouw.

Opgesteld door:

ing. [redacted]

Rotterdam, 2 maart 2020

Mos Grondmechanica B.V.

Contr. : [redacted]

# Bijlage A

## Documentenlijst

In onderstaande documentenlijst staan de meest recente versies van de uitgebrachte rapporten vermeld.

| Rapportnr.         | Datum             | Omschrijving                                                                                                                                                                                                                                      |
|--------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R1603796-01        | 2 juni 2017       | Dit rapport bevat voor The View I een prognose van de zettingen $s_2$ door samendrukking van de beneden het paalpuntniveau aanwezige samendrukbare lagen. Deze prognose is gebaseerd op de resultaten van door derden uitgevoerd grondonderzoek   |
| R1603796-02, rev.2 | 28 februari 2020  | Dit rapport bevat voor The View II een bemalingsadvies voor de aanleg van de kelder voor The View II                                                                                                                                              |
| R1603796-10        | 20 december 2017  | Dit rapport bevat voor The View het veldwerkverslag van sonderingen die gemaakt zijn aan de Westzijde van Santos                                                                                                                                  |
| R1603796-14, rev.3 | 21 februari 2020  | Dit rapport bevat een damwandadvies voor The View II, hierin is tevens een omgevingsbeschouwing opgenomen                                                                                                                                         |
| R1603796-15        | 17 september 2018 | Dit rapport bevat voor The View II een tweetal diepe sonderingen ten behoeve van de verkenning van het samendrukbare pakket onder de pleistocene zandlaag                                                                                         |
| R1603796-16, rev.4 | 21 februari 2020  | Dit rapport bevat voor The View II het funderingsadvies. De berekeningen zijn uitgevoerd conform NEN 9997-1:2017                                                                                                                                  |
| R1603796-21        | 29 mei 2019       | Dit rapport bevat het veldwerkverslag van de diep uitgevoerde sonderingen (A t/m K) ten behoeve van de nieuwbouw The View II na de sloop van de bestaande bebouwing                                                                               |
| R1603796-17, rev.5 | 2 maart 2020      | Dit rapport bevat de zettingsprognose voor $s_2$ de samendrukking van de beneden het paalpuntniveau aanwezige samendrukbare lagen, de formatie van Waalre. Hierin zijn de resultaten van de samendrukkingsproeven verwerkt                        |
| R1603796-18, rev.2 | 2 maart 2020      | Dit rapport bevat de trillingsprognose voor het aanbrengen van de vibropalen en de damwanden.                                                                                                                                                     |
| R1603796-23        | 26 november 2019  | Dit rapport bevat de resultaten van de zettingsprognose voor $s_2$ de samendrukking van de beneden het paalpuntniveau aanwezige samendrukbare lagen, de formatie van Waalre. De zettingsanalyse van de paalfundering is uitgevoerd met Plaxis 3D. |

# Bijlage B

## Uitgevoerde boring t.p.v. sondering F

Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

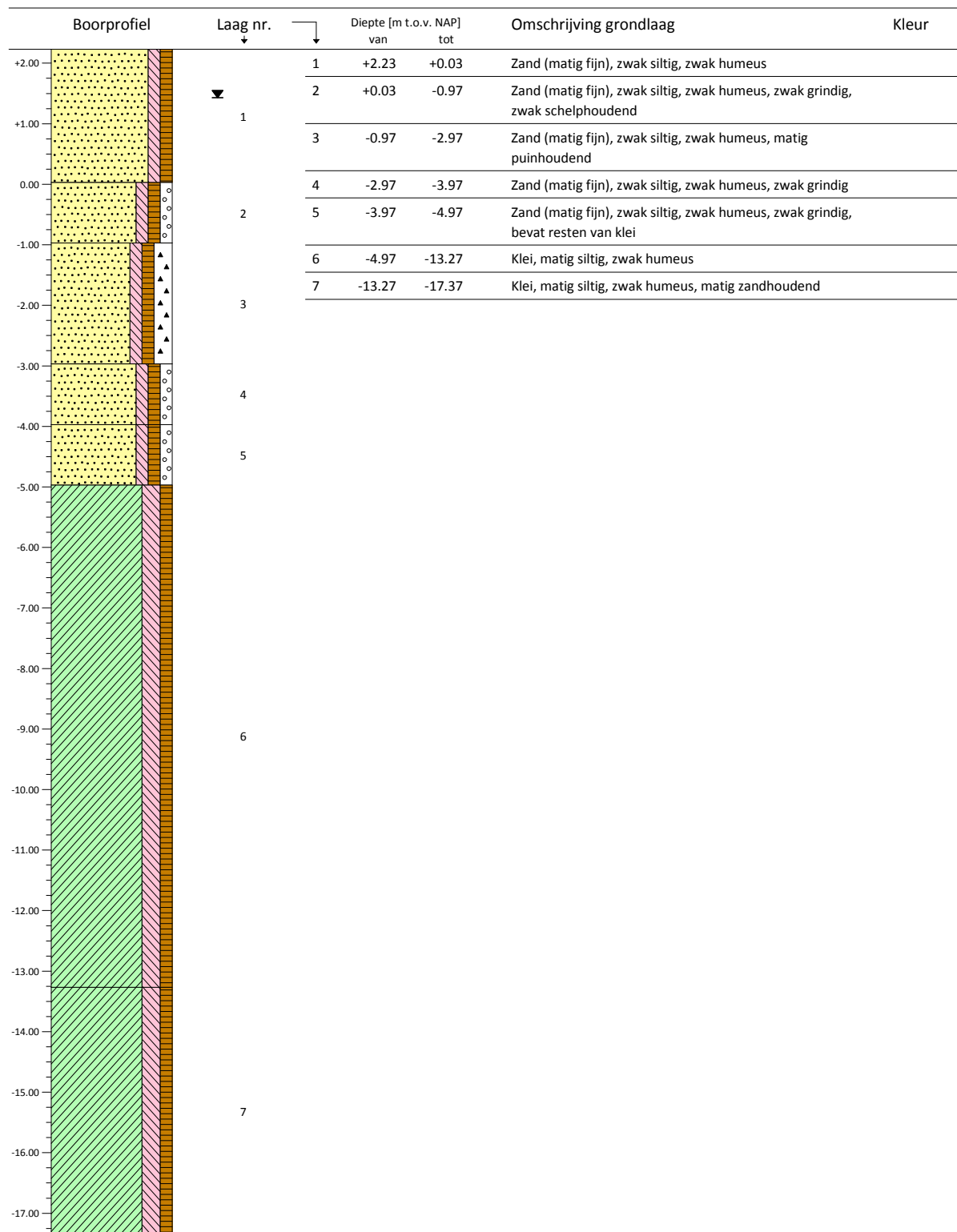
# BOORBESCHRIJVING

Identificatie

NEN5104

## BORING : F

Datum : 10-09-2019 X : 93662.020 Boormethode : Puls/Ack  
GWS : NAP +1.43 m Y : 435322.950 Boormeester :   
Maaiveld : NAP +2.23 m Beschrijver :   
Opmerking : Definitieve boorstaat.



**BORING : F - vervolg -**

Datum : 10-09-2019 X : 93662.020 Boormethode : Puls/Ack  
GWS : NAP +1.43 m Y : 435322.950 Boormeester :   
Maaiveld : NAP +2.23 m Beschrijver :   
Opmerking : Definitieve boorstaat.

| Boorprofiel | Laag nr. |    | Diepte [m t.o.v. NAP]<br>van tot | Omschrijving grondlaag                                                                              | Kleur |  |
|-------------|----------|----|----------------------------------|-----------------------------------------------------------------------------------------------------|-------|--|
|             | 8        | 8  | -17.37 -20.37                    | Zand (zeer fijn), zwak siltig, zwak humeus                                                          |       |  |
|             |          | 9  | -20.37 -23.17                    | Zand (zeer fijn), zwak siltig, zwak humeus, zwak grindig                                            |       |  |
|             |          | 10 | -23.17 -24.17                    | Zand (zeer fijn), zwak siltig, zwak humeus, sterk grindig                                           |       |  |
|             |          | 11 | -24.17 -25.77                    | Zand (matig fijn), zwak siltig, zwak humeus, sterk grindig, zwak houthoudend                        |       |  |
|             |          | 12 | -25.77 -26.52                    | Zand (matig fijn), zwak siltig, zwak humeus, matig grindig                                          |       |  |
|             | 9        | 13 | -26.52 -27.52                    | Zand (matig fijn), zwak siltig, zwak humeus, zwak grindig, bevat resten van klei, zwak steenhoudend |       |  |
|             |          | 14 | -27.52 -29.27                    | Zand (matig fijn), zwak siltig, zwak humeus, bevat resten van klei                                  |       |  |
|             |          | 15 | -29.27 -29.97                    | Klei                                                                                                |       |  |
|             |          | 16 | -29.97 -30.25                    | Klei, matig siltig                                                                                  | grijs |  |
|             |          | 17 | -30.25 -30.97                    | Klei                                                                                                |       |  |
|             | 10       | 18 | -30.97 -31.14                    | Klei, matig siltig                                                                                  | grijs |  |
|             |          | 19 | -31.14 -31.17                    | Zand (uiterst fijn), zwak siltig                                                                    | grijs |  |
|             |          | 20 | -31.17 -31.32                    | Klei, matig siltig                                                                                  | grijs |  |
|             | 11       | 21 | -31.32 -31.97                    | Klei                                                                                                |       |  |
|             |          | 22 | -31.97 -32.37                    | Klei, matig siltig, bevat sporen van zand                                                           | grijs |  |
|             |          | 23 | -32.37 -32.97                    | Klei                                                                                                |       |  |
|             | 12       | 24 | -32.97 -33.37                    | Klei, matig siltig, bevat sporen van zand                                                           | grijs |  |
|             |          | 25 | -33.37 -34.27                    | Klei                                                                                                |       |  |
|             | 13       | 26 | -34.27 -36.67                    | Zand (matig fijn), zwak siltig, matig humeus, bevat resten van klei, zwak steenhoudend              |       |  |
|             |          | 27 | -36.67 -37.97                    | Klei                                                                                                |       |  |
|             | 14       | 28 | -37.97 -38.22                    | Veen, mineraalarm                                                                                   | bruin |  |
|             |          | 29 | -38.22 -38.47                    | Klei                                                                                                |       |  |
|             | 15       | 16 |                                  |                                                                                                     |       |  |
|             |          | 17 |                                  |                                                                                                     |       |  |
|             |          | 18 |                                  |                                                                                                     |       |  |
|             |          | 19 |                                  |                                                                                                     |       |  |
|             |          | 20 |                                  |                                                                                                     |       |  |
|             |          | 21 |                                  |                                                                                                     |       |  |
|             |          | 22 |                                  |                                                                                                     |       |  |
| 23          |          |    |                                  |                                                                                                     |       |  |
| 24          |          |    |                                  |                                                                                                     |       |  |
| 25          |          |    |                                  |                                                                                                     |       |  |
| 26          |          |    |                                  |                                                                                                     |       |  |
|             |          |    |                                  |                                                                                                     |       |  |
|             |          |    |                                  |                                                                                                     |       |  |
|             |          |    |                                  |                                                                                                     |       |  |
| 27          |          |    |                                  |                                                                                                     |       |  |
|             |          |    |                                  |                                                                                                     |       |  |
| 28          |          |    |                                  |                                                                                                     |       |  |
|             |          |    |                                  |                                                                                                     |       |  |

Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

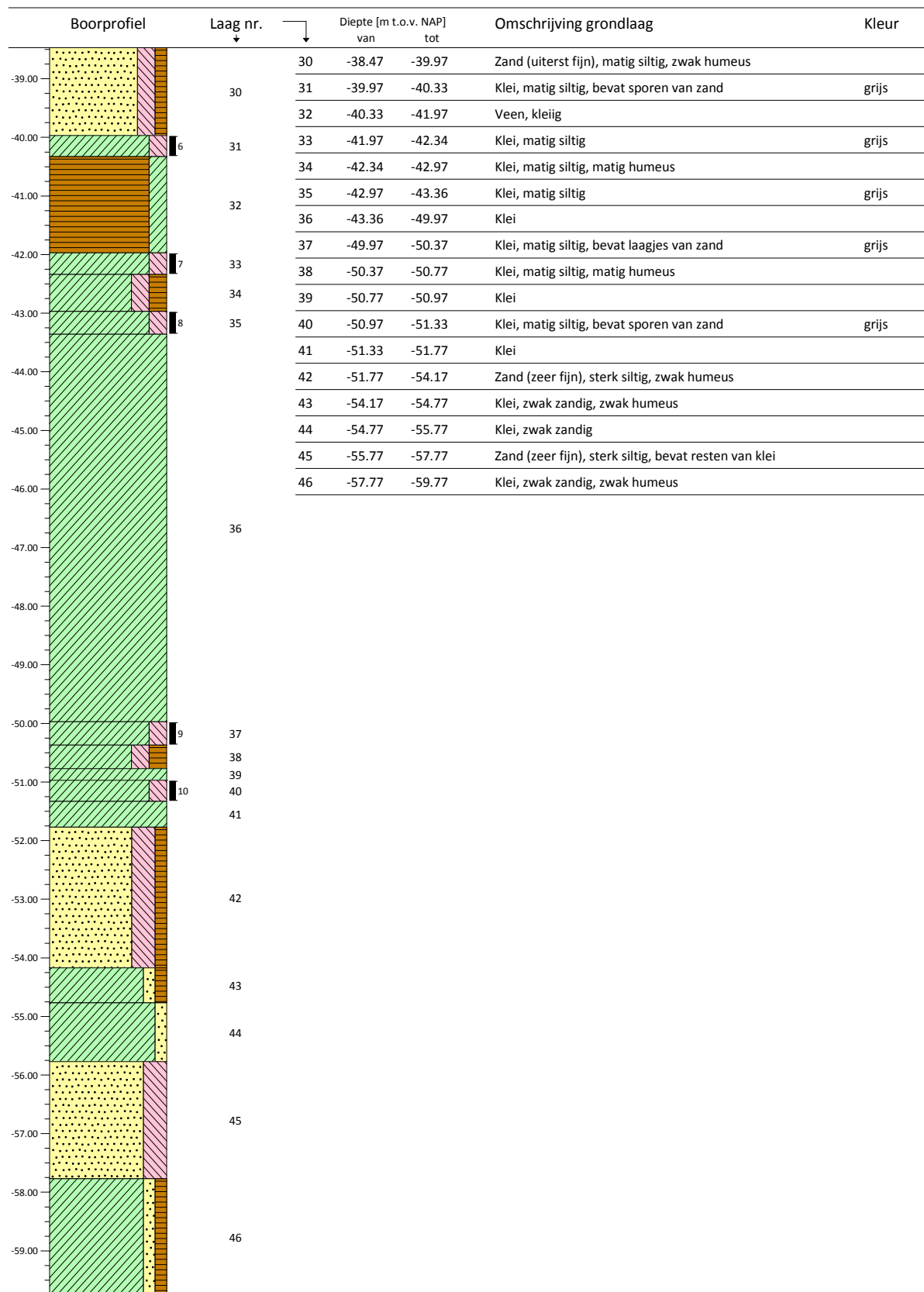
# BOORBESCHRIJVING

Identificatie

NEN5104

## BORING : F - vervolg -

Datum : 10-09-2019 X : 93662.020 Boormethode : Puls/Ack  
GWS : NAP +1.43 m Y : 435322.950 Boormeester :   
Maaiveld : NAP +2.23 m Beschrijver :   
Opmerking : Definitieve boorstaat.



Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

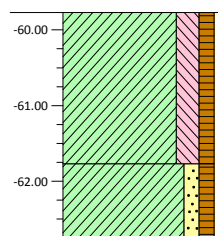
## BOORBESCHRIJVING

Identificatie

NEN5104

### BORING : F - vervolg -

Datum : 10-09-2019 X : 93662.020 Boormethode : Puls/Ack  
GWS : NAP +1.43 m Y : 435322.950 Boormeester :   
Maaiveld : NAP +2.23 m Beschrijver :   
Opmerking : Definitieve boorstaat.

| Boorprofiel                                                                       | Laag nr. | Diepte [m t.o.v. NAP]<br>van tot | Omschrijving grondlaag          | Kleur |
|-----------------------------------------------------------------------------------|----------|----------------------------------|---------------------------------|-------|
|  | 47       | 47 -59.77 -61.77                 | Klei, matig siltig, zwak humeus |       |
|                                                                                   | 48       | 48 -61.77 -62.77                 | Klei, zwak zandig, zwak humeus  |       |

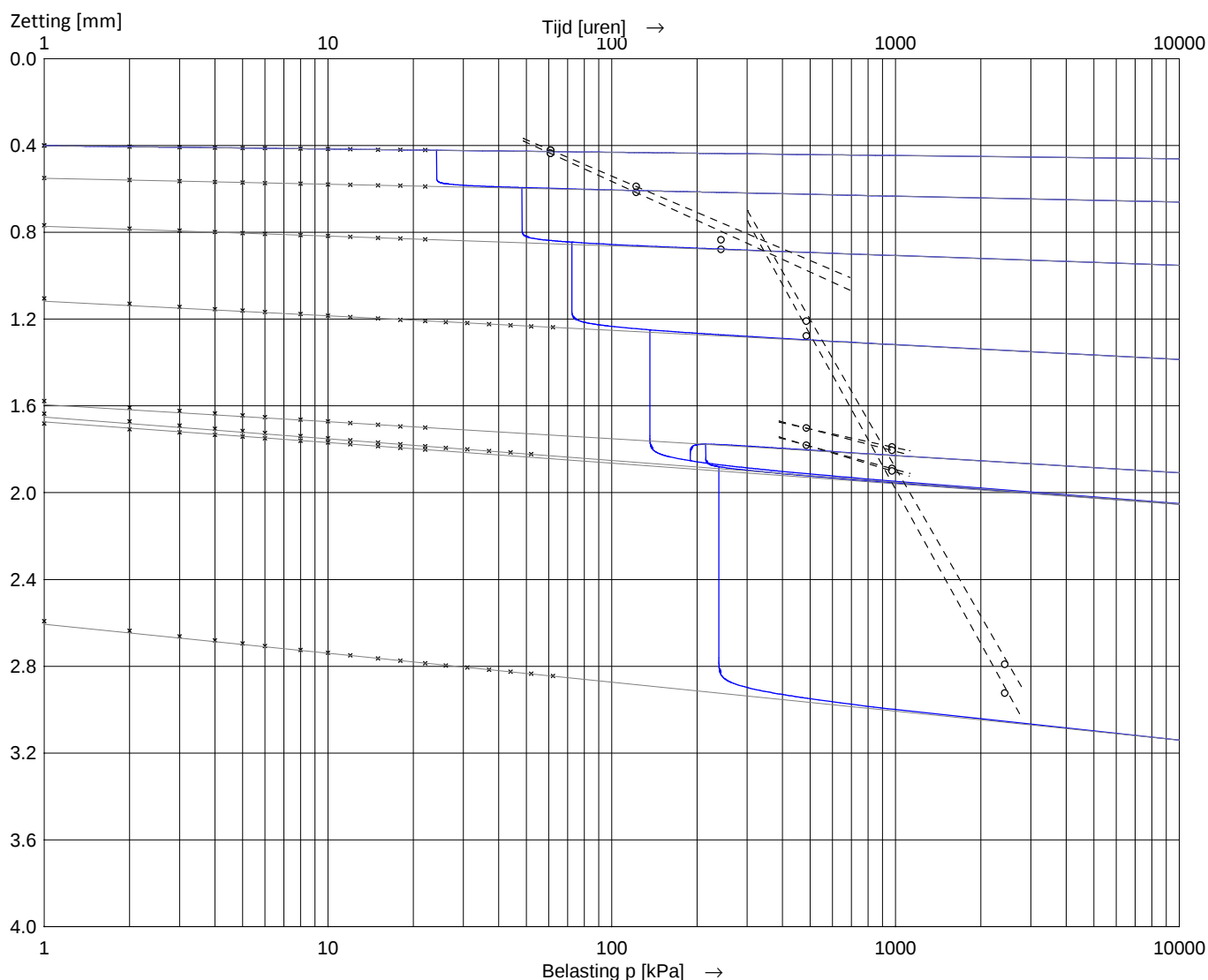
# Bijlage C

## Uitwerking samendrukkingsproeven

|               |             |                |              |                   |                                         |
|---------------|-------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F         | Startdatum     | : 17-09-2019 | Diepte            | : NAP -30.20 / -30.25 m.                |
| Monster       | : 1         | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.18 kN/m <sup>3</sup>      |
| Bus           | : 1         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.12 kN/m <sup>3</sup> |
| Apparaat      | : 27        | Zetting (24u)  | : 0.422 mm   | Watergehalte      | W : 27 %                                |
| Soort monster | : Ongeroerd | h (24u)        | : 18.578 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

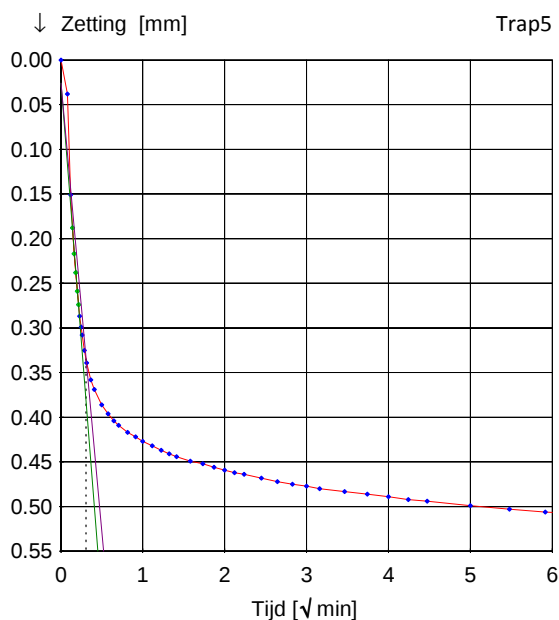
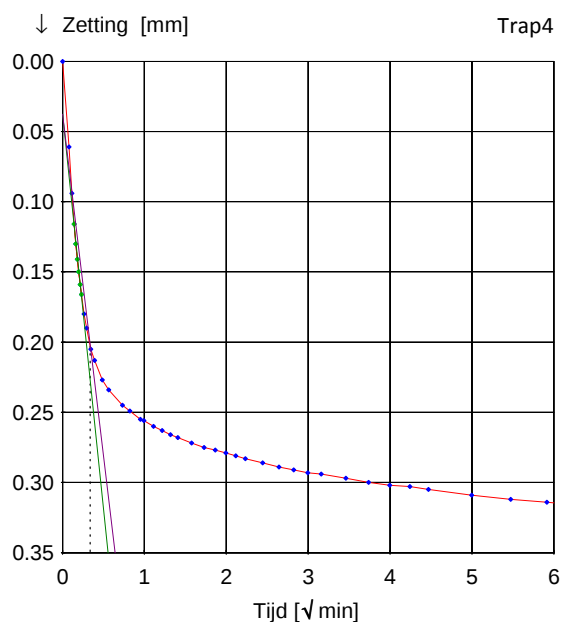
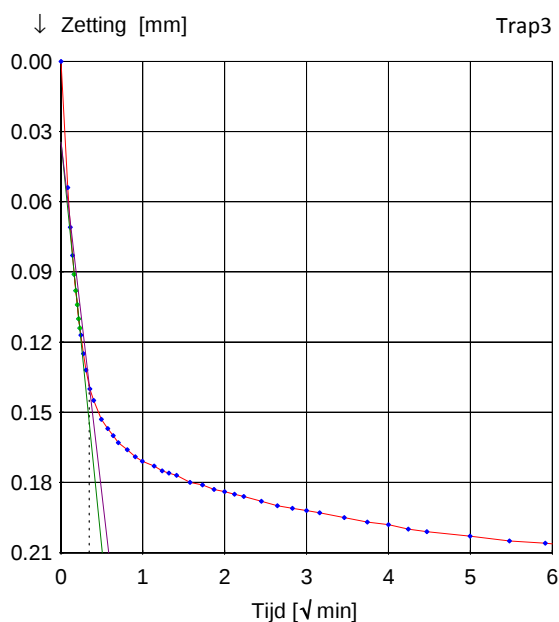
| Belastingtrappen:              | Trap1  | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 61     | 122   | 243   | 486   | 972   | 486   | 972   | 2430  |
| C <sub>p</sub>                 | 76.6   | 52.0  | 34.1  | 22.2  | 149.1 | 125.6 | 17.2  |       |
| C <sub>s</sub>                 | 1034.0 | 718.6 | 588.2 | 388.4 | 596.7 | 783.5 | 436.5 |       |
| C <sub>10<sup>4</sup></sub>    | 59.1   | 40.3  | 27.7  | 18.0  | 74.6  | 76.5  | 14.9  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 346 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 76.6              | C <sub>p</sub> ' = 18.7              | C <sub>p</sub> = 149.1             | C <sub>p</sub> = 125.6             |              |                |
|                              | C <sub>s</sub> = 1034.0            | C <sub>s</sub> ' = 448.9             | C <sub>s</sub> = 596.7             | C <sub>s</sub> = 783.5             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 59.1 | C <sub>10<sup>4</sup></sub> ' = 16.0 | C <sub>10<sup>4</sup></sub> = 74.6 | C <sub>10<sup>4</sup></sub> = 76.5 |              |                |



|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 17-09-2019   | Diepte : NAP -30.20 / -30.25 m.                        |
| Monster : 1              | Einddatum : 30-09-2019    | Initieel vol.gew. $\gamma$ : 19.18 kN/m <sup>3</sup>   |
| Bus : 1                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 15.12 kN/m <sup>3</sup> |
| Apparaat : 27            | Zetting (24u) : 0.422 mm  | Watergehalte W : 27 %                                  |
| Soort monster : Ongeroid | h (24u) : 18.578 mm       | Grondsoort : Klei, matig siltig, grijs                 |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|--------|--------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 61    | 122   | 243    | 486    | 972    | 486   | 972   | 2430  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 61    | 61    | 121    | 243    | 486    | -486  | 486   | 1458  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 748.22 | 748.57 | 862.33 |       |       |       |
| $m_v$ [1/MPa]                                         |       |       | 0.05   | 0.04   | 0.04   |       |       |       |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 380.71 | 305.80 | 336.42 |       |       |       |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       |        |        |        |       |       |       |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       |        |        |        |       |       |       |



Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

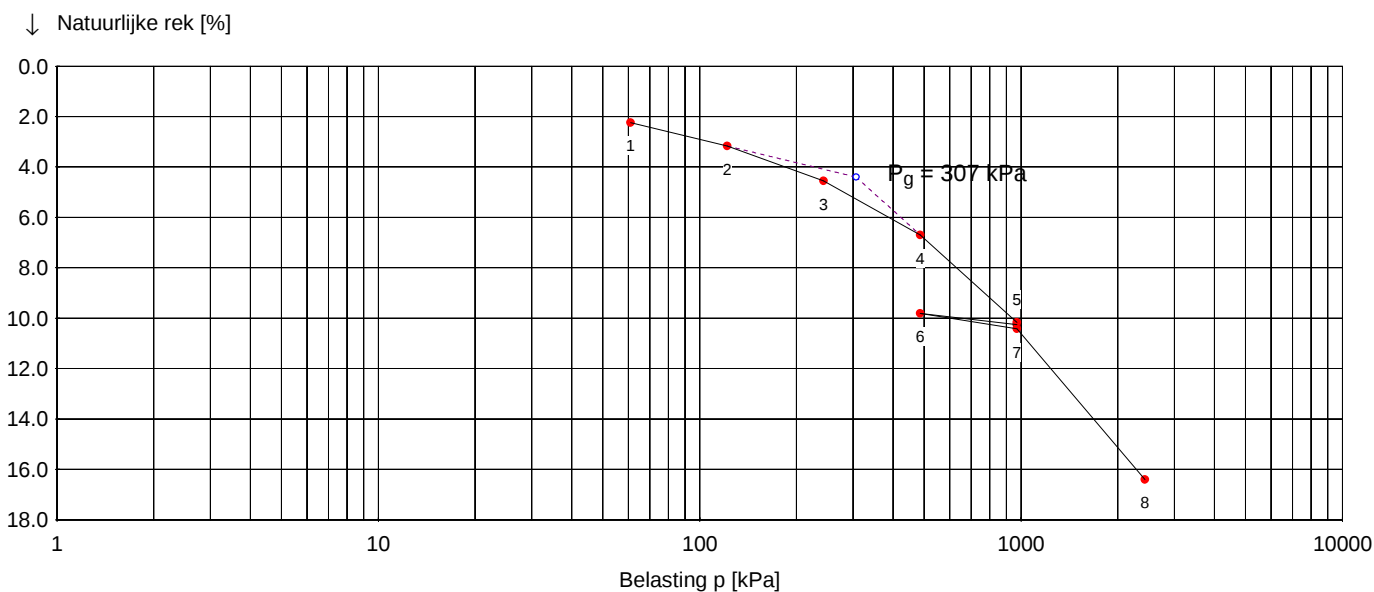
# SAMENDRUKKINGSPROEF

Isotachen

|               |             |                |              |                   |                                         |
|---------------|-------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F         | Startdatum     | : 17-09-2019 | Diepte            | : NAP -30.20 / -30.25 m.                |
| Monster       | : 1         | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.18 kN/m <sup>3</sup>      |
| Bus           | : 1         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.12 kN/m <sup>3</sup> |
| Apparaat      | : 27        | Zetting (24u)  | : 0.422 mm   | Watergehalte      | W : 27 %                                |
| Soort monster | : Ongeroerd | h (24u)        | : 18.578 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 61     | 122    | 243    | 486    | 972    | 486    | 972    | 2430  |
| a, b              | 0.0133 | 0.0195 | 0.0302 | 0.0484 | 0.0064 | 0.0086 | 0.0653 |       |
| c                 |        |        |        |        |        |        |        |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 306.9kPa | a = 0.0086 | b = 0.0653 | c = 0.00000 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 |             |



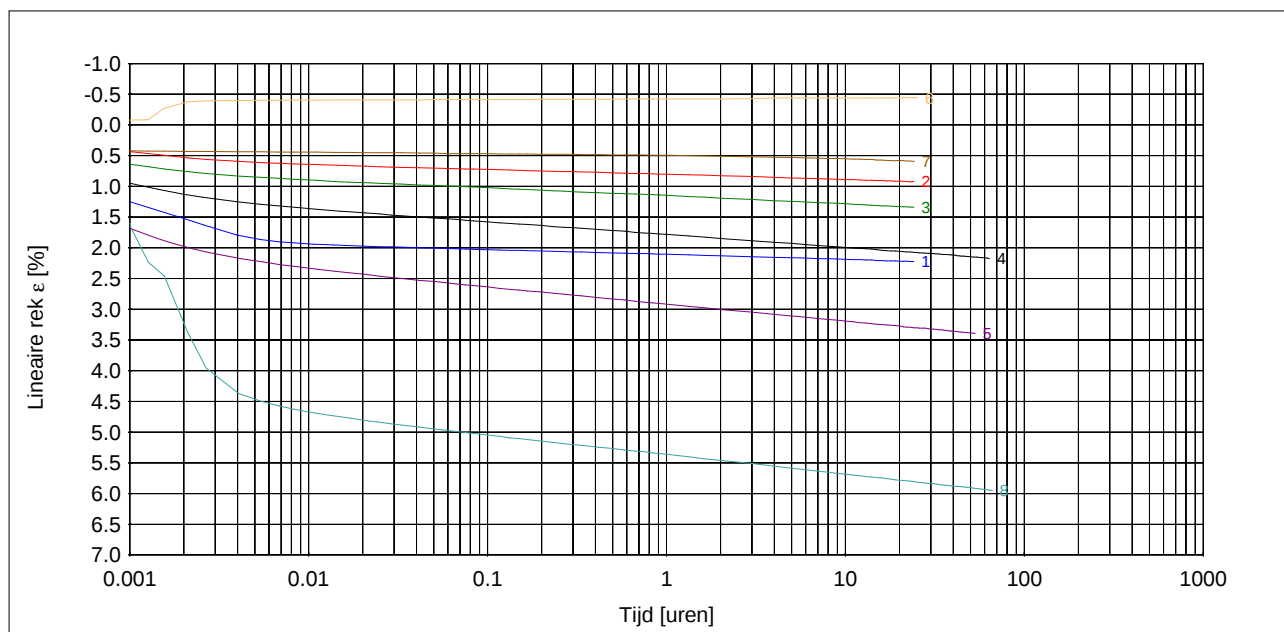
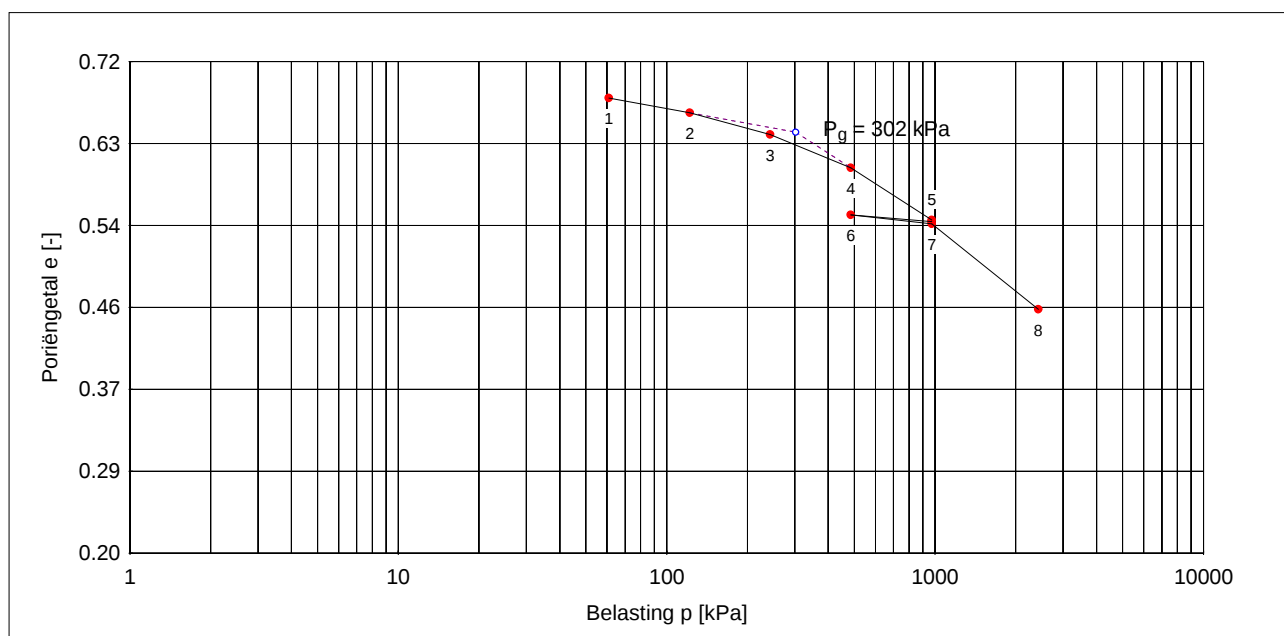
Boring : F Startdatum : 17-09-2019 Diepte : NAP -30.20 / -30.25 m.  
Monster : 1 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.18 kN/m<sup>3</sup>  
Bus : 1 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 15.12 kN/m<sup>3</sup>  
Apparaat : 27 Zetting (24u) : 0.422 mm Watergehalte W : 27 %  
Soort monster : Ongeroid  $e_0$  : 0.72 Grondsoort : Klei, matig siltig, grijs

| Belastingtrappen:                                | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting                                        | 61    | 122   | 243   | 486   | 972   | 486   | 972   | 2430  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$          | 0.051 | 0.074 | 0.113 | 0.176 | 0.023 | 0.031 | 0.226 |       |
| $C_{\alpha}^* = \Delta \epsilon / \Delta \log t$ |       |       |       |       |       |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.031</math></b> | <b><math>C_c = 0.226</math></b> | <b><math>C_{sw} = 0.023</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                  |
|----------------------------------|
| <b><math>C_{\alpha} =</math></b> |
|                                  |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -30.20 / -30.25 m.                |
| Monster       | : 1        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.18 kN/m <sup>3</sup>      |
| Bus           | : 1        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.12 kN/m <sup>3</sup> |
| Apparaat      | : 27       | Zetting (24u)  | : 0.422 mm   | Watergehalte      | W : 27 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.72       | Grondsoort        | : Klei, matig siltig, grijs             |

#### Bepaling parameters per trap

|                                                         |               |          |          |          |          |          |          |          |
|---------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                       | 61            | 122      | 243      | 486      | 972      | 486      | 972      | 2430     |
| <b>NEN / Bjerrum</b>                                    | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$                 | 0.0513        | 0.0742   | 0.1128   | 0.1758   | 0.0228   | 0.0306   | 0.2255   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                            | 0.0299        | 0.0433   | 0.0657   | 0.1025   | 0.0133   | 0.0178   | 0.1315   |          |
| $C_\alpha = \Delta e / \Delta \log t$                   |               |          |          |          |          |          |          |          |
| <b>KoppeJan</b>                                         | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                   | 76.6          | 52.0     | 34.1     | 22.2     | 149.1    | 125.6    | 17.2     |          |
| $C_s$                                                   | 1034.0        | 718.6    | 588.2    | 388.4    | 596.7    | 783.5    | 436.5    |          |
| $C_{10^4}$                                              | 59.1          | 40.3     | 27.7     | 18.0     | 74.6     | 76.5     | 14.9     |          |
| <b>Taylor / Casagrande</b>                              | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (Taylor)     |               |          | 748.22   | 748.57   | 862.33   |          |          |          |
| $m_v$ [1/MPa]                                           |               |          | 0.05     | 0.04     | 0.04     |          |          |          |
| $k_{10}$ [10 <sup>-11</sup> m/s]                        |               |          | 380.71   | 305.80   | 336.42   |          |          |          |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (Casagrande) |               |          |          |          |          |          |          |          |
| <b>Isotachen</b>                                        | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                    | 0.0133        | 0.0195   | 0.0302   | 0.0484   | 0.0064   | 0.0086   | 0.0653   |          |
| c                                                       |               |          |          |          |          |          |          |          |

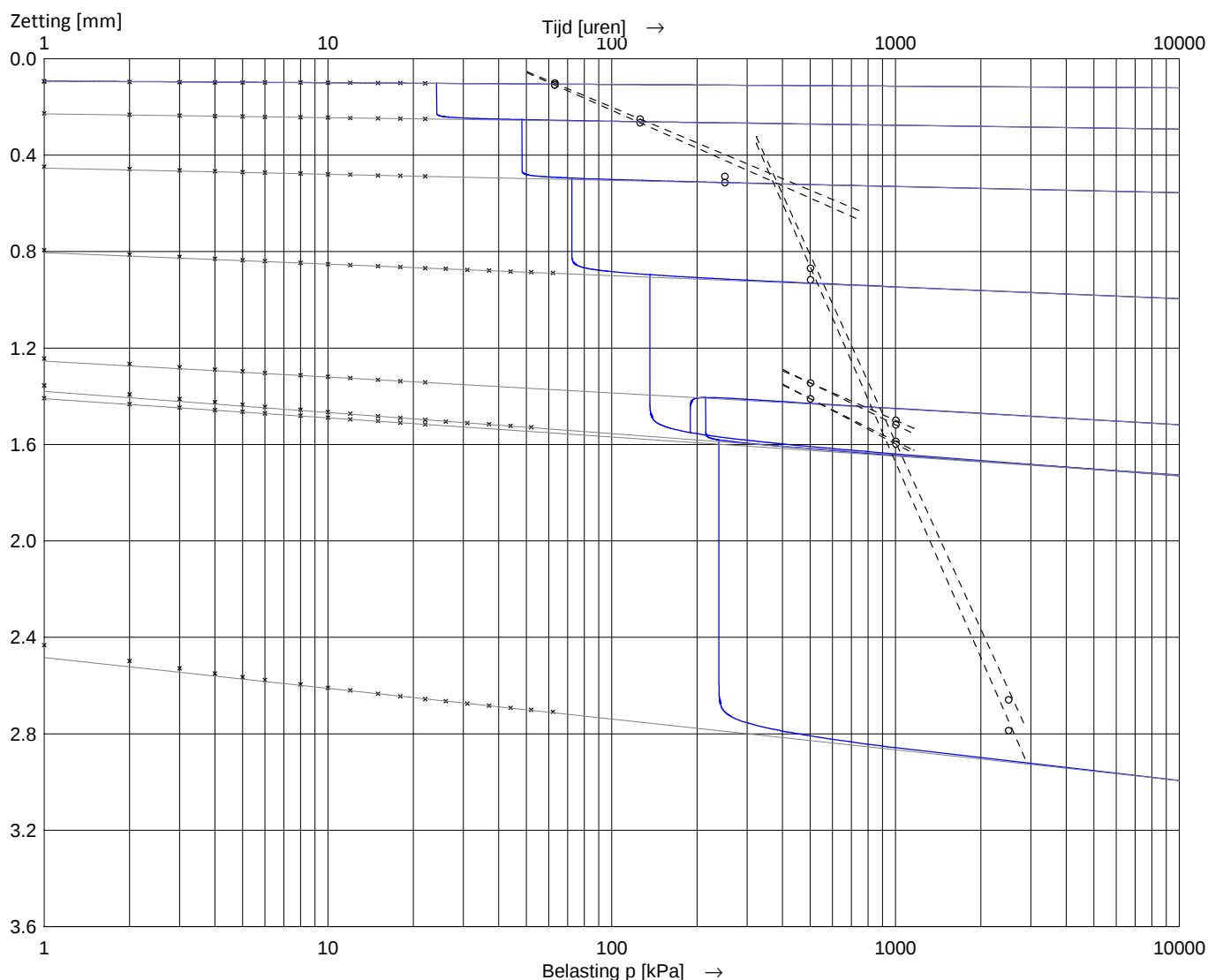
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                     |                                                       |                                                     |                                                                  |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                   | <b>Trap</b>                                                      |
| $P_g = 302.4$        | $C_r = 0.0306$<br>$RR = 0.0178$                     | $C_c = 0.2255$<br>$CR = 0.1315$                       | $C_{sw} = 0.0228$<br>$SR = 0.0133$                  | $C_\alpha = --$                                                  |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                   | <b>Trap 6 - 7</b>                                                |
| $P_g = 346.1$        | $C_p = 76.6$<br>$C_s = 1034.0$<br>$C_{10^4} = 59.1$ | $C_p' = 18.7$<br>$C_s' = 448.9$<br>$C_{10^4}' = 16.0$ | $A_p = 149.1$<br>$A_s = 596.7$<br>$A_{10^4} = 74.6$ | $C_{p(r)} = 125.6$<br>$C_{s(r)} = 783.5$<br>$C_{10^4(r)} = 76.5$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap</b>                                         |                                                                  |
| $P_g = 306.9$        | a = 0.0086                                          | b = 0.0653                                            | c = --                                              |                                                                  |

|               |             |                |              |                   |                                           |
|---------------|-------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F         | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2         | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28        | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroerd | h (24u)        | : 18.898 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

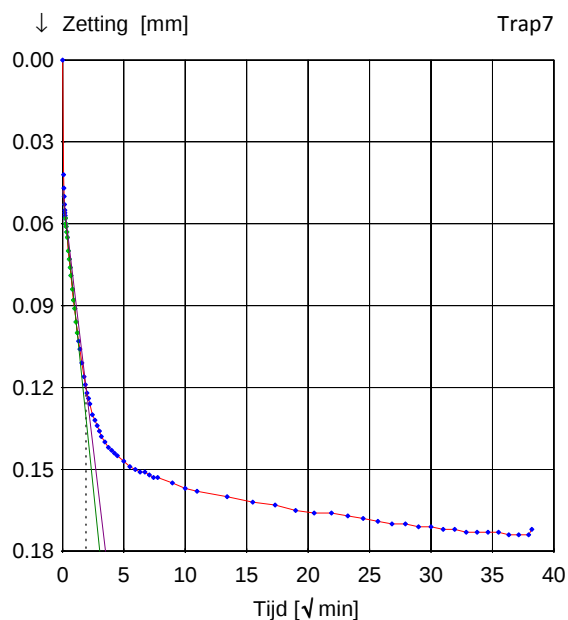
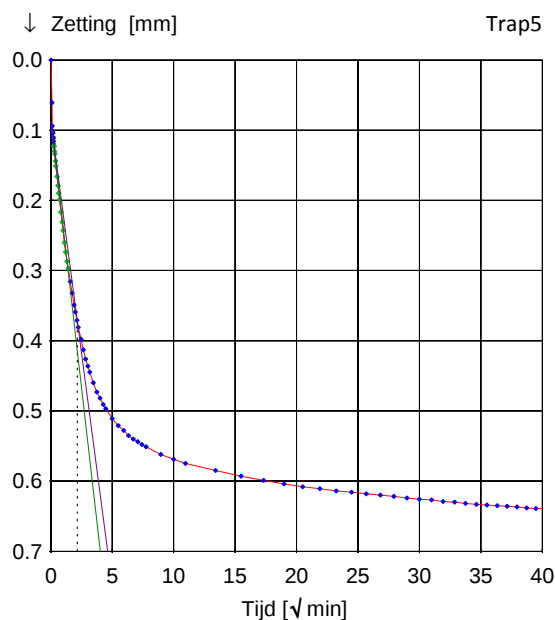
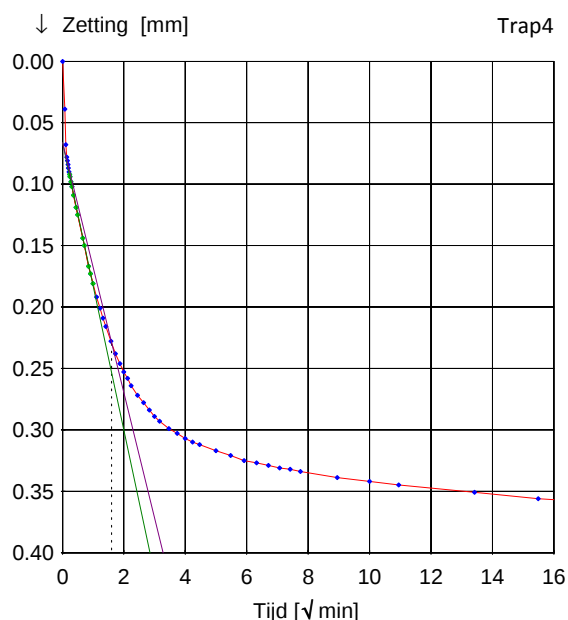
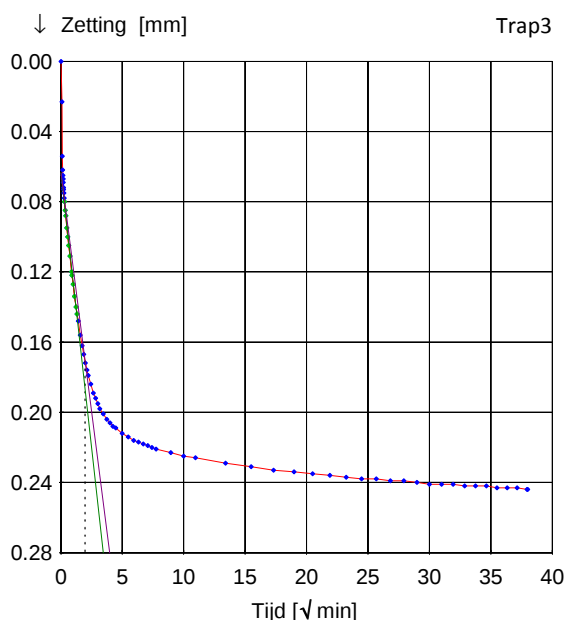
| Belastingtrappen:              | Trap1  | Trap2  | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 63     | 126    | 251   | 502   | 1004  | 502   | 1004  | 2510  |
| C <sub>p</sub>                 | 88.0   | 54.4   | 34.2  | 20.7  | 84.0  | 74.7  | 15.1  |       |
| C <sub>s</sub>                 | 1500.9 | 1325.9 | 584.7 | 326.3 | 606.5 | 991.0 | 357.0 |       |
| C <sub>10<sup>4</sup></sub>    | 71.3   | 46.7   | 27.7  | 16.5  | 54.0  | 57.4  | 12.9  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 371 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 88.0              | C <sub>p</sub> ' = 16.8              | C <sub>p</sub> = 84.0              | C <sub>p</sub> = 74.7              |              |                |
|                              | C <sub>s</sub> = 1500.9            | C <sub>s</sub> ' = 381.4             | C <sub>s</sub> = 606.5             | C <sub>s</sub> = 991.0             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 71.3 | C <sub>10<sup>4</sup></sub> ' = 14.3 | C <sub>10<sup>4</sup></sub> = 54.0 | C <sub>10<sup>4</sup></sub> = 57.4 |              |                |



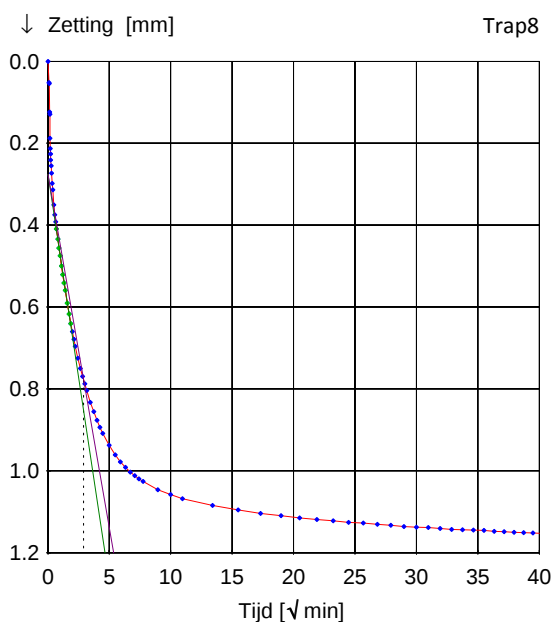
|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28       | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | h (24u)        | : 18.898 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4 | Trap5 | Trap6 | Trap7  | Trap8 |
|-------------------------------------------------------|-------|-------|--------|-------|-------|-------|--------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 63    | 126   | 251    | 502   | 1004  | 502   | 1004   | 2510  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 63    | 63    | 125    | 251   | 502   | -502  | 502    | 1506  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 23.74  | 34.60 | 17.97 |       | 22.43  | 8.70  |
| $m_v$ [1/MPa]                                         |       |       | 0.05   | 0.04  | 0.04  |       | 0.01   | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 11.89  | 13.32 | 6.20  |       | 2.00   | 1.85  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 24.81  | 17.68 | 7.86  |       | 38.61  | 6.54  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8917 | 1.713 | 2.879 |       | 0.8518 | 3.408 |



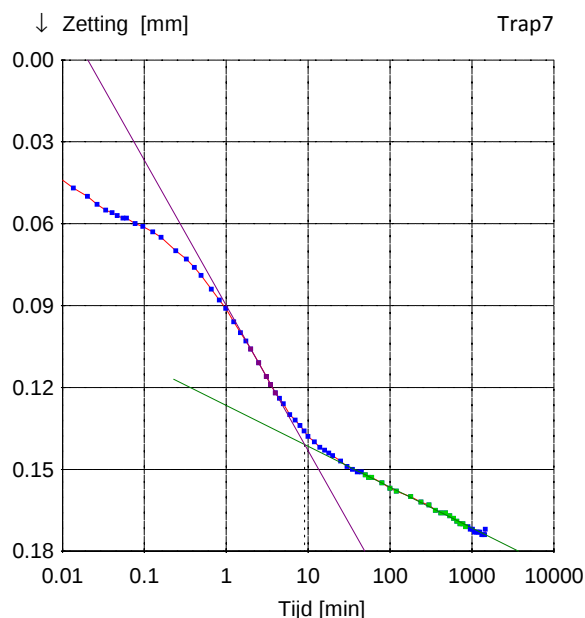
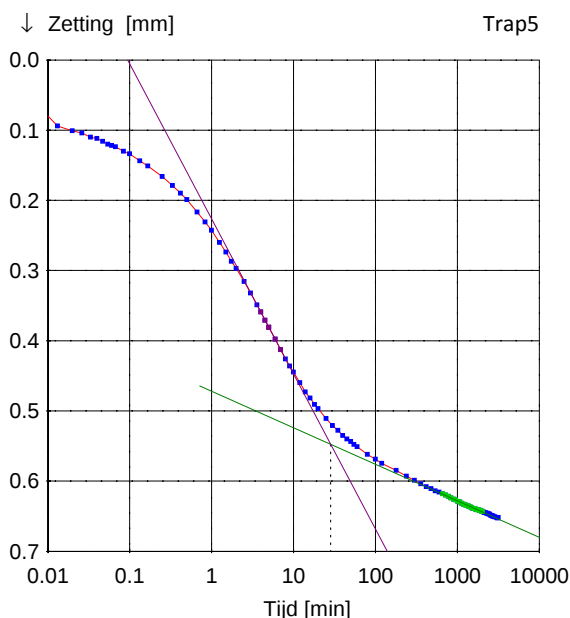
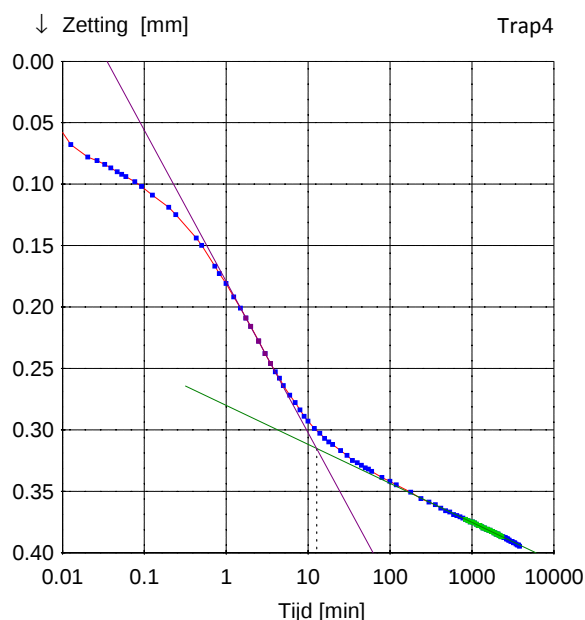
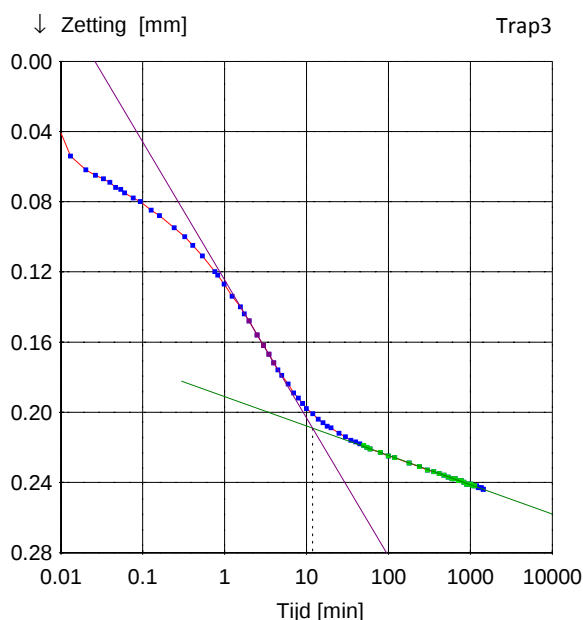
|               |            |                |              |                   |                                              |
|---------------|------------|----------------|--------------|-------------------|----------------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                     |
| Monster       | : 2        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>           |
| Bus           | : 2        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>      |
| Apparaat      | : 28       | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                     |
| Soort monster | : Ongeroid | h (24u)        | : 18.898 mm  | Grondsoort        | : Klei, zwak zandig (uiterst<br>fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4 | Trap5 | Trap6 | Trap7  | Trap8 |
|-------------------------------------------------------|-------|-------|--------|-------|-------|-------|--------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 63    | 126   | 251    | 502   | 1004  | 502   | 1004   | 2510  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 63    | 63    | 125    | 251   | 502   | -502  | 502    | 1506  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 23.74  | 34.60 | 17.97 |       | 22.43  | 8.70  |
| $m_v$ [1/MPa]                                         |       |       | 0.05   | 0.04  | 0.04  |       | 0.01   | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 11.89  | 13.32 | 6.20  |       | 2.00   | 1.85  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 24.81  | 17.68 | 7.86  |       | 38.61  | 6.54  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8917 | 1.713 | 2.879 |       | 0.8518 | 3.408 |



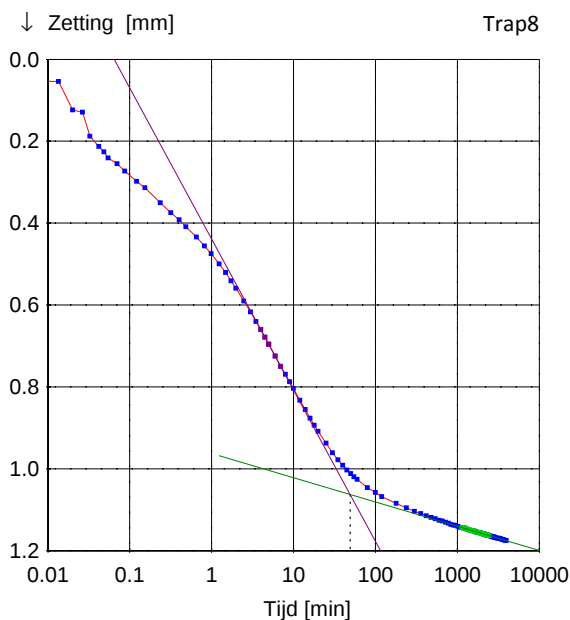
|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28       | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | h (24u)        | : 18.898 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4 | Trap5 | Trap6 | Trap7  | Trap8 |
|-------------------------------------------------------|-------|-------|--------|-------|-------|-------|--------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 63    | 126   | 251    | 502   | 1004  | 502   | 1004   | 2510  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 63    | 63    | 125    | 251   | 502   | -502  | 502    | 1506  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 23.74  | 34.60 | 17.97 |       | 22.43  | 8.70  |
| $m_v$ [1/MPa]                                         |       |       | 0.05   | 0.04  | 0.04  |       | 0.01   | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 11.89  | 13.32 | 6.20  |       | 2.00   | 1.85  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 24.81  | 17.68 | 7.86  |       | 38.61  | 6.54  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8917 | 1.713 | 2.879 |       | 0.8518 | 3.408 |



Boring : F Startdatum : 17-09-2019 Diepte : NAP -31.27 / -31.32 m.  
Monster : 2 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.34 kN/m<sup>3</sup>  
Bus : 2 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 15.40 kN/m<sup>3</sup>  
Apparaat : 28 Zetting (24u) : 0.102 mm Watergehalte W : 26 %  
Soort monster : Ongeroid h (24u) : 18.898 mm Grondsoort : Klei, zwak zandig (uiterst  
fijn), grijs

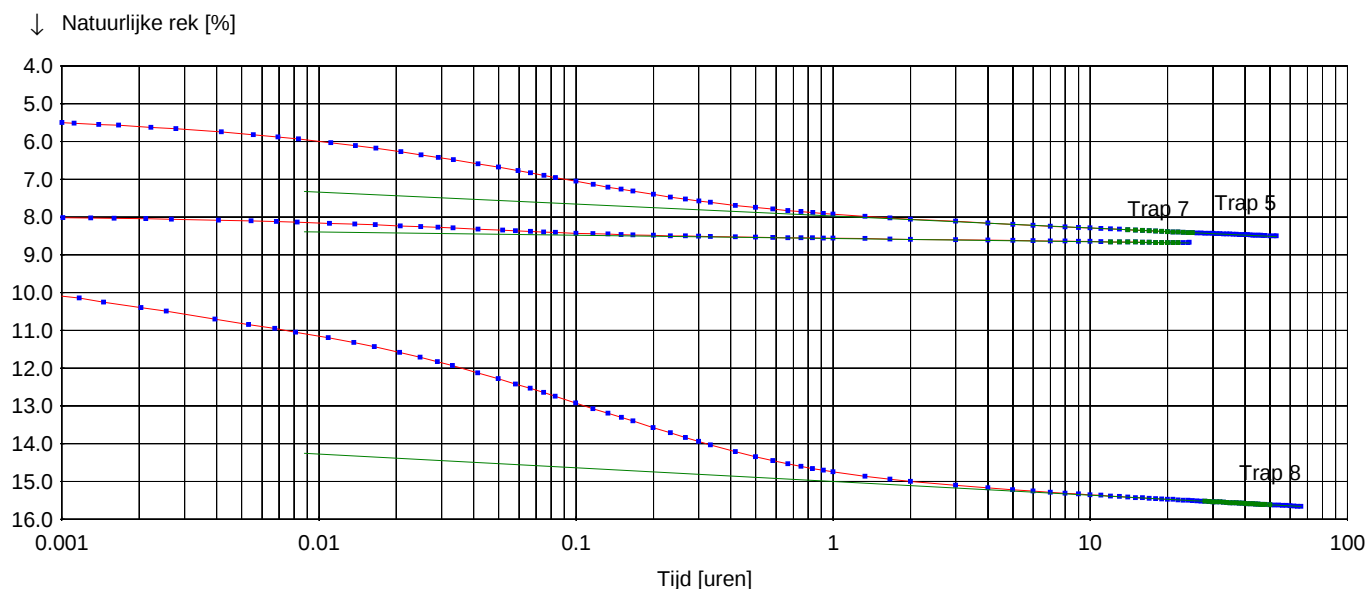
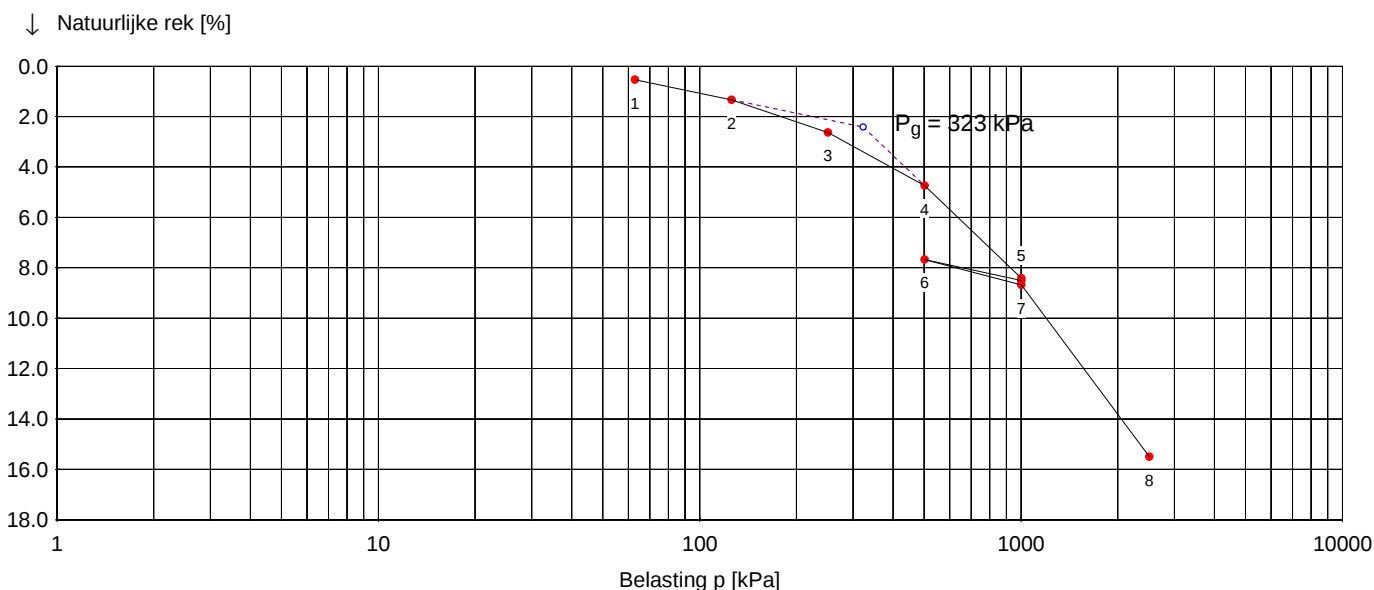
| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4 | Trap5 | Trap6 | Trap7  | Trap8 |
|-------------------------------------------------------|-------|-------|--------|-------|-------|-------|--------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 63    | 126   | 251    | 502   | 1004  | 502   | 1004   | 2510  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 63    | 63    | 125    | 251   | 502   | -502  | 502    | 1506  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 23.74  | 34.60 | 17.97 |       | 22.43  | 8.70  |
| $m_v$ [1/MPa]                                         |       |       | 0.05   | 0.04  | 0.04  |       | 0.01   | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 11.89  | 13.32 | 6.20  |       | 2.00   | 1.85  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 24.81  | 17.68 | 7.86  |       | 38.61  | 6.54  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8917 | 1.713 | 2.879 |       | 0.8518 | 3.408 |



|               |           |                |              |                   |                                           |
|---------------|-----------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F       | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2       | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2       | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28      | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongerod | h (24u)        | : 18.898 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Belasting         | 63     | 126    | 251    | 502    | 1004   | 502    | 1004   | 2510   |
| a, b              | 0.0115 | 0.0190 | 0.0299 | 0.0517 | 0.0118 | 0.0143 | 0.0745 |        |
| c                 |        |        |        |        | 0.0014 |        | 0.0004 | 0.0016 |

|                       |          |            |            |              |
|-----------------------|----------|------------|------------|--------------|
| Grensspanning $P_g$ = | 323.1kPa | a = 0.0143 | b = 0.0745 | c = 0.00111  |
|                       |          | Trap 6 - 7 | Trap 7 - 8 | Trap 5, 7, 8 |



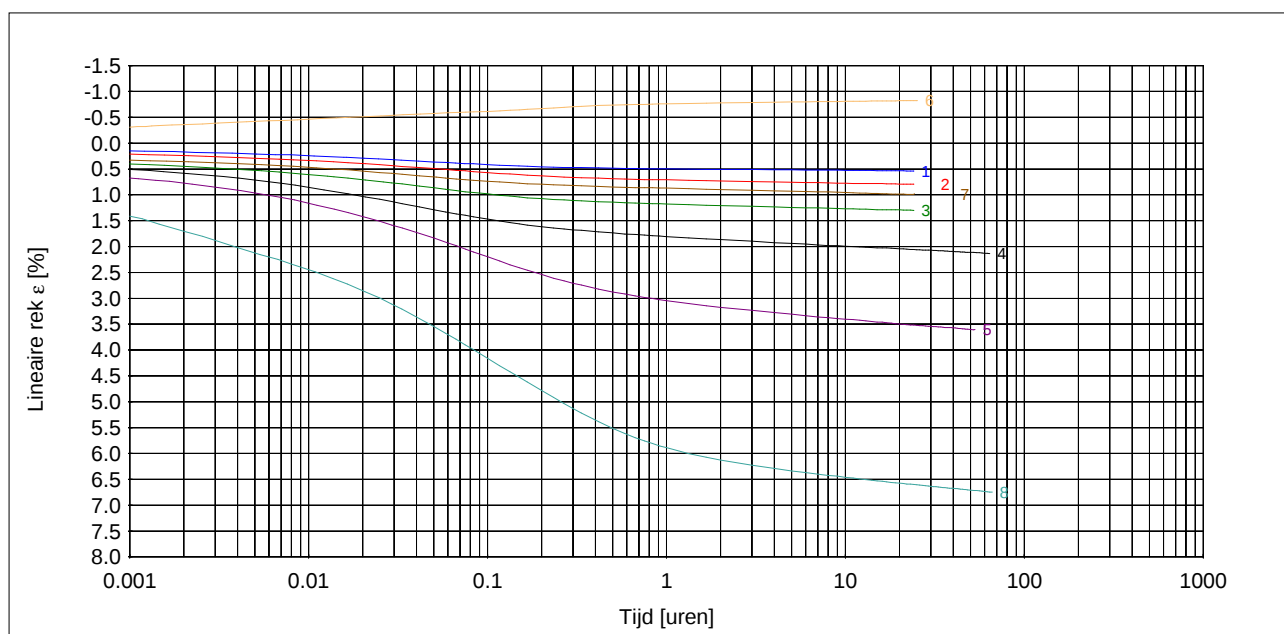
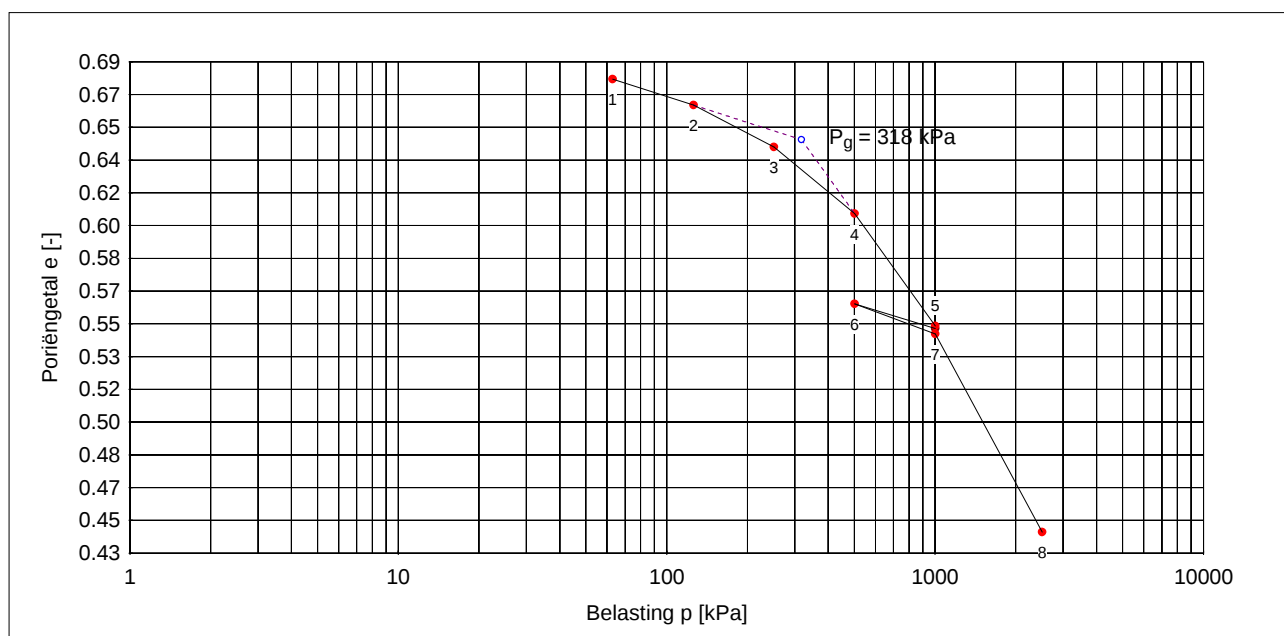
|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28       | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | $e_0$          | : 0.69       | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:                         | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7  | Trap8  |
|-------------------------------------------|-------|-------|--------|--------|--------|-------|--------|--------|
| Belasting                                 | 63    | 126   | 251    | 502    | 1004   | 502   | 1004   | 2510   |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.044 | 0.072 | 0.112  | 0.188  | 0.042  | 0.051 | 0.256  |        |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ |       |       | 0.0009 | 0.0017 | 0.0029 |       | 0.0009 | 0.0034 |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.051</math></b> | <b><math>C_c = 0.256</math></b> | <b><math>C_{sw} = 0.042</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0023</math></b> |
| Trap 4, 5                               |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -31.27 / -31.32 m.                  |
| Monster       | : 2        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.34 kN/m <sup>3</sup>        |
| Bus           | : 2        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.40 kN/m <sup>3</sup>   |
| Apparaat      | : 28       | Zetting (24u)  | : 0.102 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | $e_0$          | : 0.69       | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

#### Bepaling parameters per trap

|                                                       |               |          |          |          |          |          |          |          |
|-------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                     | 63            | 126      | 251      | 502      | 1004     | 502      | 1004     | 2510     |
| <b>NEN / Bjerrum</b>                                  | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$               | 0.0442        | 0.0723   | 0.1120   | 0.1877   | 0.0421   | 0.0513   | 0.2564   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                          | 0.0262        | 0.0429   | 0.0664   | 0.1114   | 0.0250   | 0.0304   | 0.1521   |          |
| $C_\alpha = \Delta e / \Delta \log t$                 |               |          | 0.0009   | 0.0017   | 0.0029   |          | 0.0009   | 0.0034   |
| <b>KoppeJan</b>                                       | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                 | 88.0          | 54.4     | 34.2     | 20.7     | 84.0     | 74.7     | 15.1     |          |
| $C_s$                                                 | 1500.9        | 1325.9   | 584.7    | 326.3    | 606.5    | 991.0    | 357.0    |          |
| $C_{10^4}$                                            | 71.3          | 46.7     | 27.7     | 16.5     | 54.0     | 57.4     | 12.9     |          |
| <b>Taylor / Casagrande</b>                            | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Taylor)     |               |          | 23.74    | 34.60    | 17.97    |          | 22.43    | 8.70     |
| $m_v$ [1/MPa]                                         |               |          | 0.05     | 0.04     | 0.04     |          | 0.01     | 0.02     |
| $k_{10}$ [ $10^{-11} \text{ m/s}$ ]                   |               |          | 11.89    | 13.32    | 6.20     |          | 2.00     | 1.85     |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Casagrande) |               |          | 24.81    | 17.68    | 7.86     |          | 38.61    | 6.54     |
| <b>Isotachen</b>                                      | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                  | 0.0115        | 0.0190   | 0.0299   | 0.0517   | 0.0118   | 0.0143   | 0.0745   |          |
| c                                                     |               |          |          |          | 0.0014   |          | 0.0004   | 0.0016   |

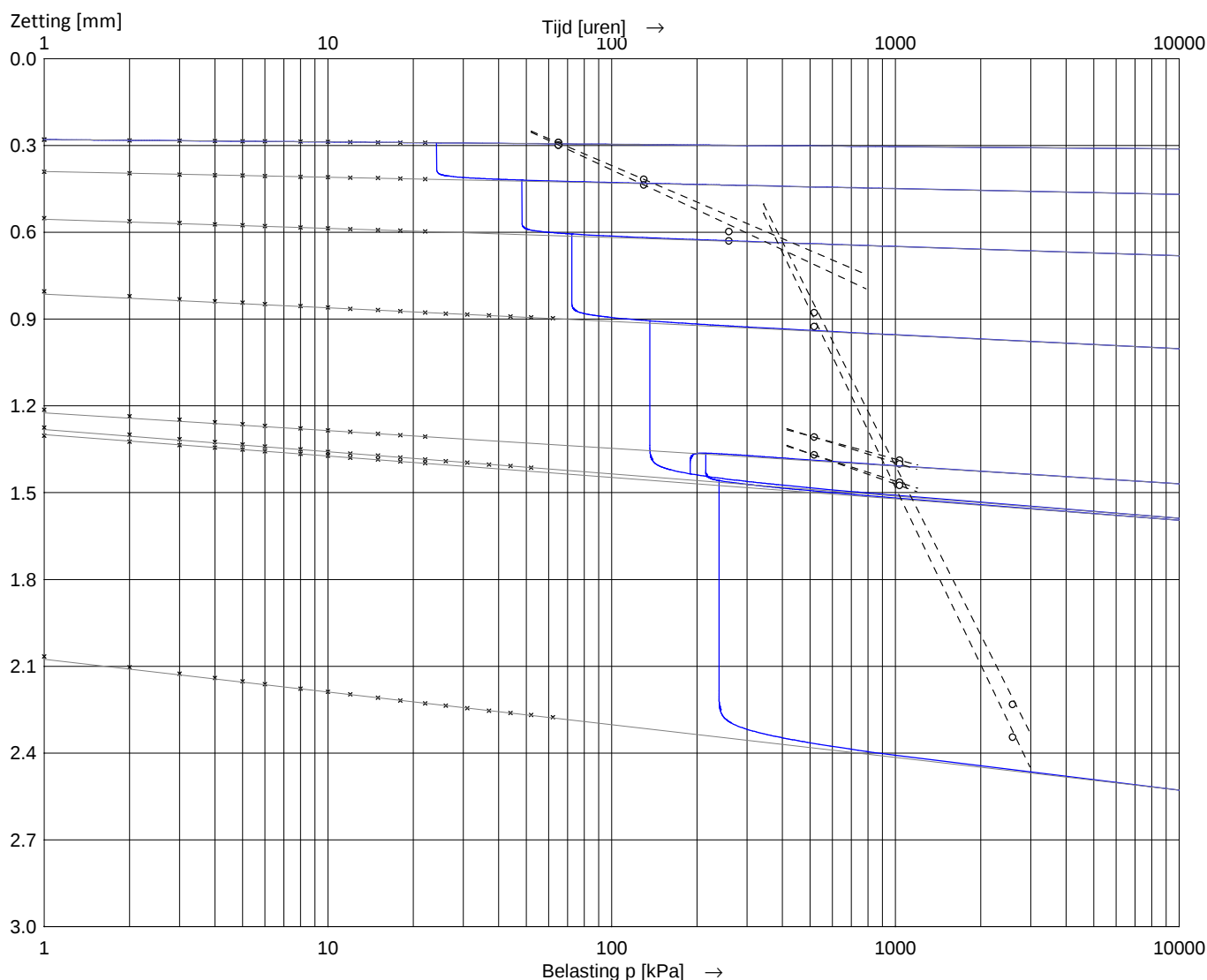
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                     |                                                       |                                                    |                                                                 |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                  | <b>Trap 4, 5</b>                                                |
| $P_g = 318.3$        | $C_r = 0.0513$<br>$RR = 0.0304$                     | $C_c = 0.2564$<br>$CR = 0.1521$                       | $C_{sw} = 0.0421$<br>$SR = 0.0250$                 | $C_\alpha = 0.0023$                                             |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                  | <b>Trap 6 - 7</b>                                               |
| $P_g = 371.2$        | $C_p = 88.0$<br>$C_s = 1500.9$<br>$C_{10^4} = 71.3$ | $C_p' = 16.8$<br>$C_s' = 381.4$<br>$C_{10^4}' = 14.3$ | $A_p = 84.0$<br>$A_s = 606.5$<br>$A_{10^4} = 54.0$ | $C_{p(r)} = 74.7$<br>$C_{s(r)} = 991.0$<br>$C_{10^4(r)} = 57.4$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5, 7, 8</b>                                |                                                                 |
| $P_g = 323.1$        | a = 0.0143                                          | b = 0.0745                                            | c = 0.0011                                         |                                                                 |

Boring : F Startdatum : 17-09-2019 Diepte : NAP -32.30 / -32.35 m.  
Monster : 3 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.20 kN/m<sup>3</sup>  
Bus : 3 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 15.07 kN/m<sup>3</sup>  
Apparaat : 29 Zetting (24u) : 0.291 mm Watergehalte W : 27 %  
Soort monster : Ongeroid h (24u) : 18.709 mm Grondsoort : Klei, matig zandig (zeer fijn), grijs

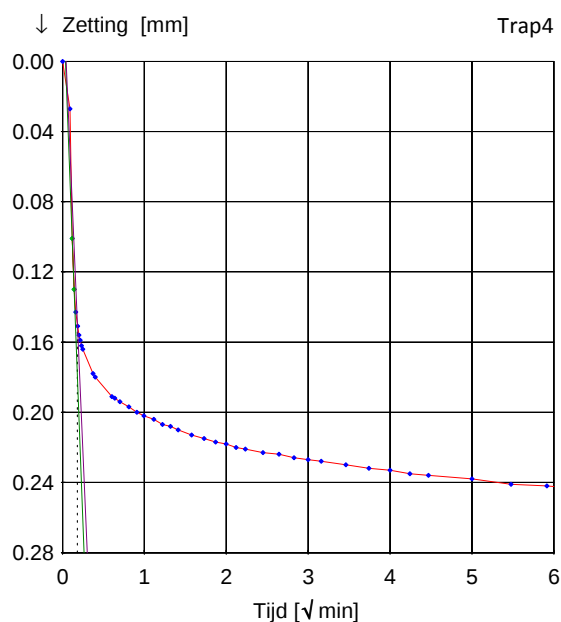
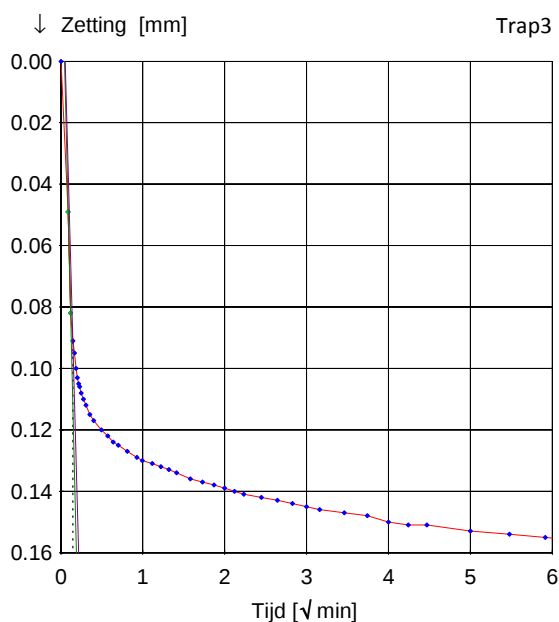
| Belastingtrappen:              | Trap1  | Trap2  | Trap3 | Trap4 | Trap5 | Trap6  | Trap7 | Trap8 |
|--------------------------------|--------|--------|-------|-------|-------|--------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 65     | 130    | 259   | 518   | 1036  | 518    | 1036  | 2590  |
| C <sub>p</sub>                 | 102.3  | 70.7   | 46.1  | 25.3  | 162.6 | 139.4  | 20.5  |       |
| C <sub>s</sub>                 | 1107.4 | 1095.7 | 817.9 | 438.9 | 848.4 | 1015.5 | 436.7 |       |
| C <sub>10<sup>4</sup></sub>    | 74.7   | 56.2   | 37.6  | 20.6  | 92.0  | 90.0   | 17.3  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 394 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 102.3             | C <sub>p</sub> ' = 22.0              | C <sub>p</sub> = 162.6             | C <sub>p</sub> = 139.4             |              |                |
|                              | C <sub>s</sub> = 1107.4            | C <sub>s</sub> ' = 454.9             | C <sub>s</sub> = 848.4             | C <sub>s</sub> = 1015.5            |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 74.7 | C <sub>10<sup>4</sup></sub> ' = 18.5 | C <sub>10<sup>4</sup></sub> = 92.0 | C <sub>10<sup>4</sup></sub> = 90.0 |              |                |



|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -32.30 / -32.35 m.                |
| Monster       | : 3        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.20 kN/m <sup>3</sup>      |
| Bus           | : 3        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.07 kN/m <sup>3</sup> |
| Apparaat      | : 29       | Zetting (24u)  | : 0.291 mm   | Watergehalte      | W : 27 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.709 mm  | Grondsoort        | : Klei, matig zandig (zeer fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3   | Trap4   | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|---------|---------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 65    | 130   | 259     | 518     | 1036  | 518   | 1036  | 2590  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 65    | 65    | 129     | 259     | 518   | -518  | 518   | 1554  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 4249.66 | 2646.20 |       |       |       |       |
| $m_v$ [1/MPa]                                         |       |       | 0.07    | 0.05    |       |       |       |       |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 2738.96 | 1189.35 |       |       |       |       |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       |         |         |       |       |       |       |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       |         |         |       |       |       |       |



Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

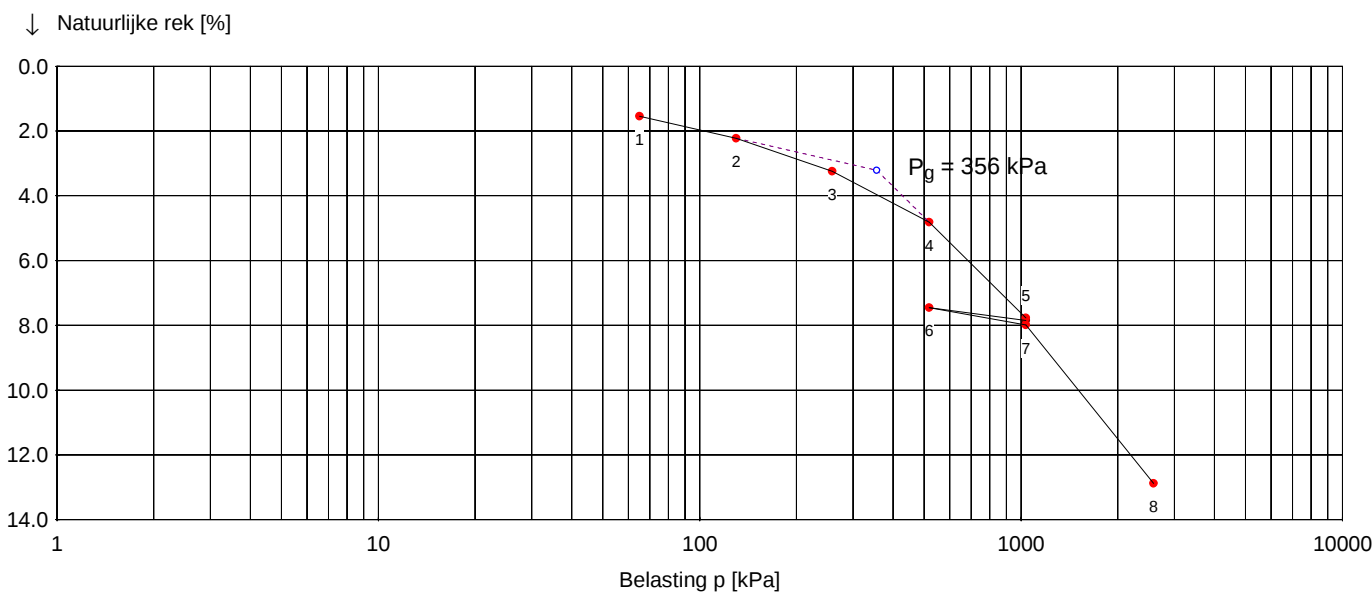
# SAMENDRUKKINGSPROEF

Isotachen

Boring : F Startdatum : 17-09-2019 Diepte : NAP -32.30 / -32.35 m.  
Monster : 3 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.20 kN/m<sup>3</sup>  
Bus : 3 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 15.07 kN/m<sup>3</sup>  
Apparaat : 29 Zetting (24u) : 0.291 mm Watergehalte W : 27 %  
Soort monster : Ongerodert h (24u) : 18.709 mm Grondsoort : Klei, matig zandig (zeer fijn), grijs

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 65     | 130    | 259    | 518    | 1036   | 518    | 1036   | 2590  |
| a, b              | 0.0098 | 0.0144 | 0.0227 | 0.0415 | 0.0058 | 0.0076 | 0.0535 |       |
| c                 |        |        |        |        |        |        |        |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 355.8kPa | a = 0.0076 | b = 0.0535 | c = 0.00000 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 |             |



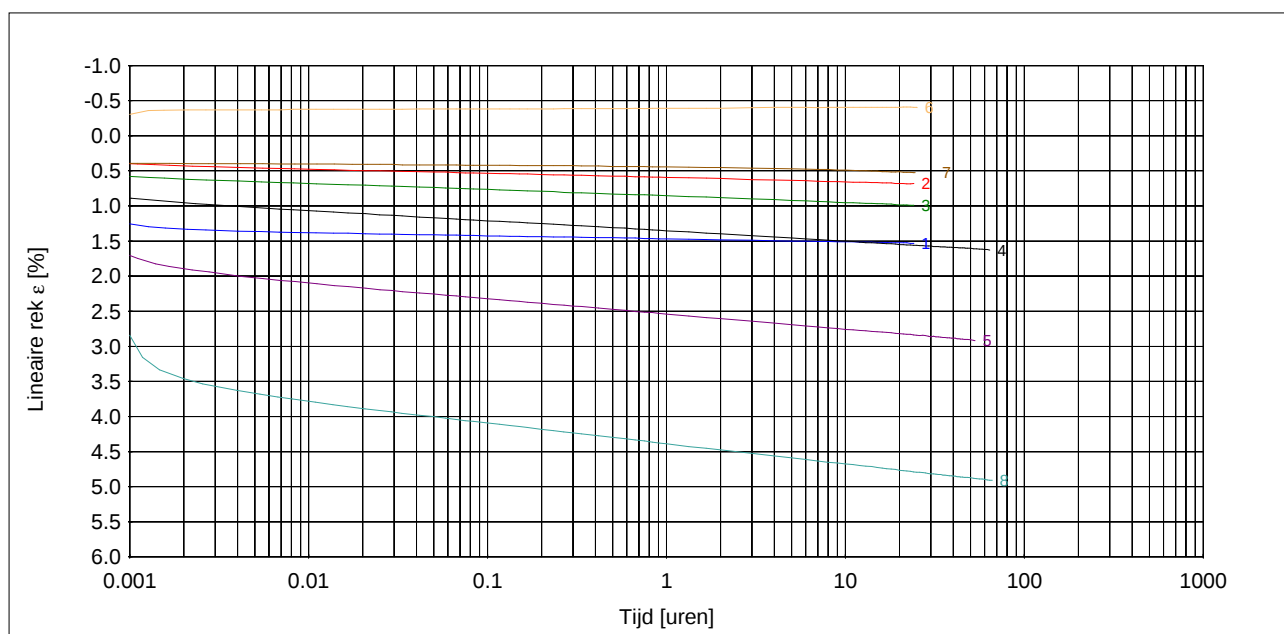
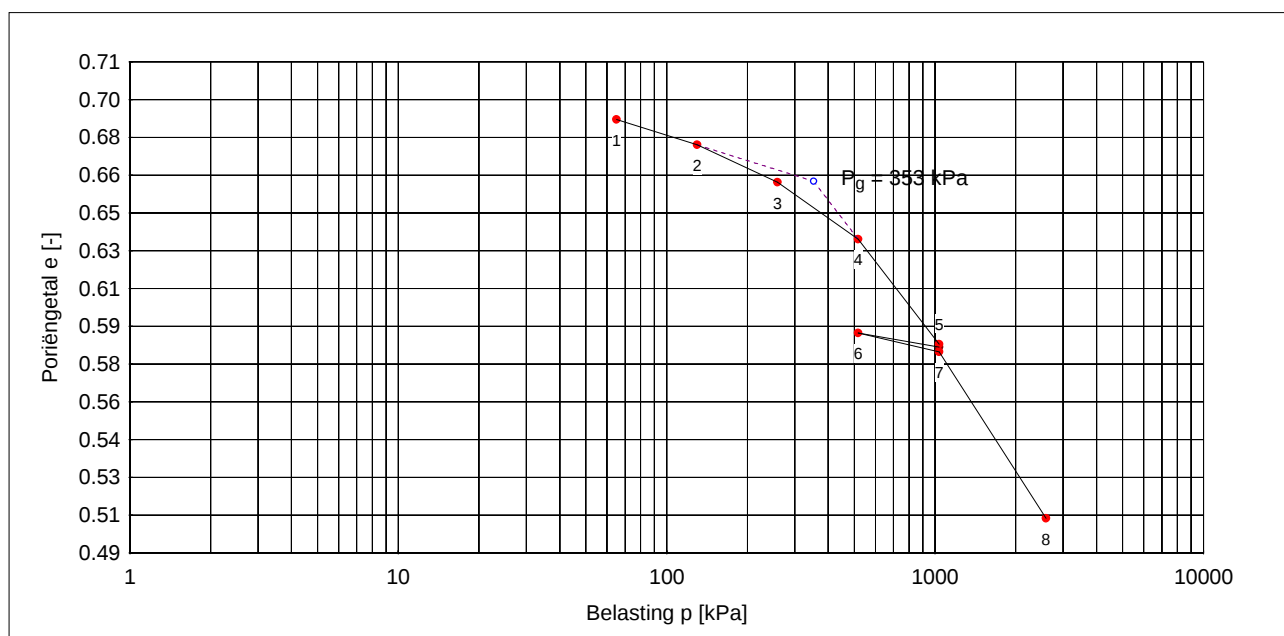
Boring : F Startdatum : 17-09-2019 Diepte : NAP -32.30 / -32.35 m.  
Monster : 3 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.20 kN/m<sup>3</sup>  
Bus : 3 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 15.07 kN/m<sup>3</sup>  
Apparaat : 29 Zetting (24u) : 0.291 mm Watergehalte W : 27 %  
Soort monster : Ongeroid  $e_0$  : 0.71 Grondsoort : Klei, matig zandig (zeer fijn), grijs

| Belastingtrappen:                         | Trap1  | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Belasting                                 | 65     | 130   | 259   | 518   | 1036  | 518   | 1036  | 2590  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.038  | 0.055 | 0.086 | 0.154 | 0.021 | 0.028 | 0.190 |       |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ | 0.0013 |       |       |       |       |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.028</math></b> | <b><math>C_c = 0.190</math></b> | <b><math>C_{sw} = 0.021</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0013</math></b> |
| Trap 4                                  |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -32.30 / -32.35 m.                |
| Monster       | : 3        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.20 kN/m <sup>3</sup>      |
| Bus           | : 3        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.07 kN/m <sup>3</sup> |
| Apparaat      | : 29       | Zetting (24u)  | : 0.291 mm   | Watergehalte      | W : 27 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.71       | Grondsoort        | : Klei, matig zandig (zeer fijn), grijs |

#### Bepaling parameters per trap

|                                                   |                 |          |          |          |          |          |          |          |
|---------------------------------------------------|-----------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                 | 65              | 130      | 259      | 518      | 1036     | 518      | 1036     | 2590     |
| <b>NEN / Bjerrum</b>                              | <b>Trap 1</b>   | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$           | 0.0381          | 0.0554   | 0.0860   | 0.1537   | 0.0213   | 0.0279   | 0.1904   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                      | 0.0222          | 0.0324   | 0.0502   | 0.0897   | 0.0124   | 0.0163   | 0.1111   |          |
| $C_\alpha = \Delta e / \Delta \log t$             | 0.0013          |          |          |          |          |          |          |          |
| <b>KoppeJan</b>                                   | <b>Trap 1</b>   | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                             | 102.3           | 70.7     | 46.1     | 25.3     | 162.6    | 139.4    | 20.5     |          |
| $C_s$                                             | 1107.4          | 1095.7   | 817.9    | 438.9    | 848.4    | 1015.5   | 436.7    |          |
| $C_{10^4}$                                        | 74.7            | 56.2     | 37.6     | 20.6     | 92.0     | 90.0     | 17.3     |          |
| <b>Taylor / Casagrande</b>                        | <b>Trap 1</b>   | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [ $10^{-8}$ m <sup>2</sup> /s] (Taylor)     | 4249.66 2646.20 |          |          |          |          |          |          |          |
| $m_v$ [1/MPa]                                     | 0.07 0.05       |          |          |          |          |          |          |          |
| $k_{10}$ [ $10^{-11}$ m/s]                        | 2738.96 1189.35 |          |          |          |          |          |          |          |
| $c_v$ [ $10^{-8}$ m <sup>2</sup> /s] (Casagrande) |                 |          |          |          |          |          |          |          |
| <b>Isotachen</b>                                  | <b>Trap 1</b>   | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                              | 0.0098          | 0.0144   | 0.0227   | 0.0415   | 0.0058   | 0.0076   | 0.0535   |          |
| c                                                 |                 |          |          |          |          |          |          |          |

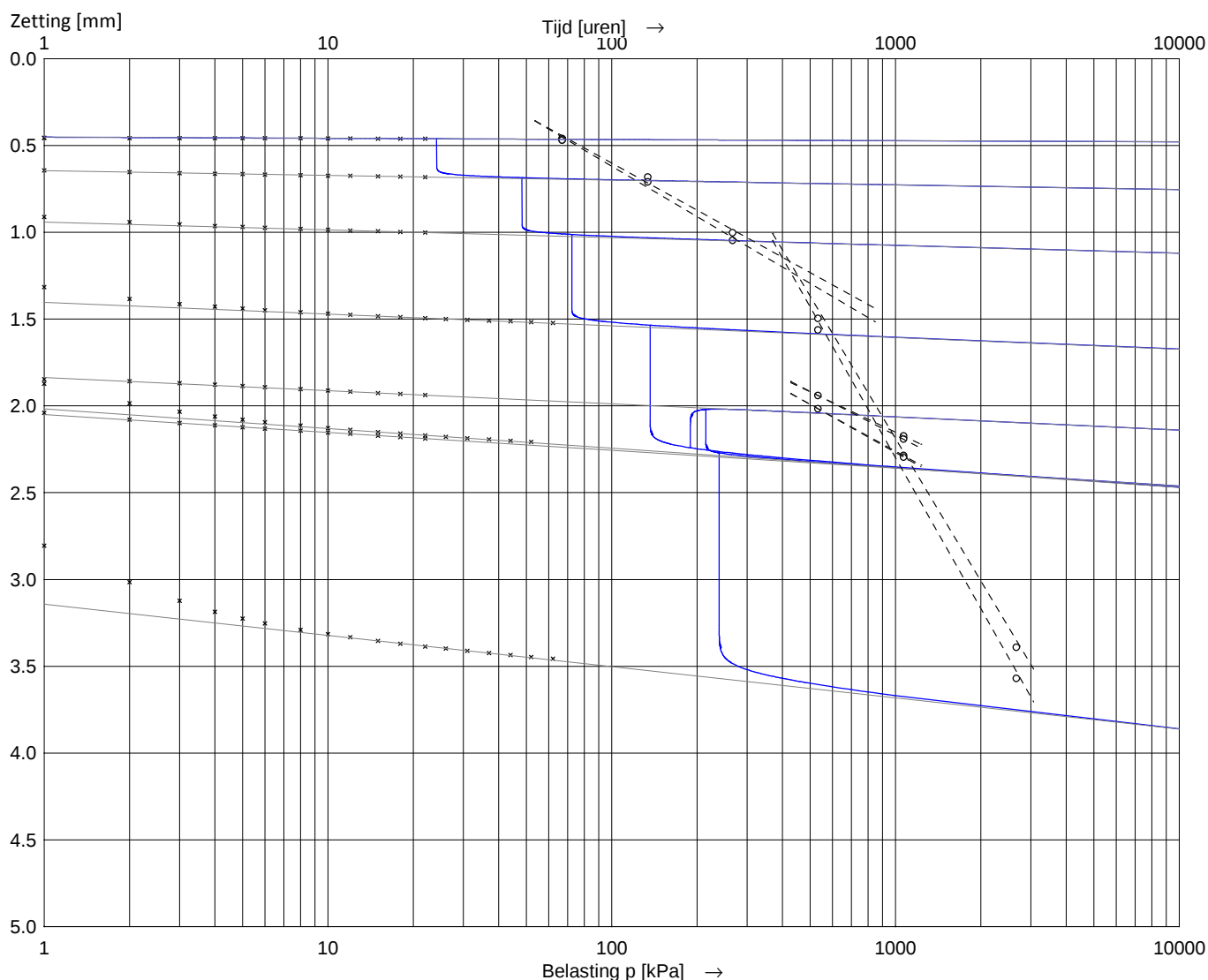
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                      |                                                       |                                                     |                                                                   |
|----------------------|------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                    | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                   | <b>Trap 4</b>                                                     |
| $P_g = 352.8$        | $C_r = 0.0279$<br>$RR = 0.0163$                      | $C_c = 0.1904$<br>$CR = 0.1111$                       | $C_{sw} = 0.0213$<br>$SR = 0.0124$                  | $C_\alpha = 0.0013$                                               |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                    | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                   | <b>Trap 6 - 7</b>                                                 |
| $P_g = 394.1$        | $C_p = 102.3$<br>$C_s = 1107.4$<br>$C_{10^4} = 74.7$ | $C_p' = 22.0$<br>$C_s' = 454.9$<br>$C_{10^4}' = 18.5$ | $A_p = 162.6$<br>$A_s = 848.4$<br>$A_{10^4} = 92.0$ | $C_{p(r)} = 139.4$<br>$C_{s(r)} = 1015.5$<br>$C_{10^4(r)} = 90.0$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                    | <b>Trap 7 - 8</b>                                     | <b>Trap</b>                                         |                                                                   |
| $P_g = 355.8$        | a = 0.0076                                           | b = 0.0535                                            | c = --                                              |                                                                   |

|               |             |                |              |                              |                                  |
|---------------|-------------|----------------|--------------|------------------------------|----------------------------------|
| Boring        | : F         | Startdatum     | : 17-09-2019 | Diepte                       | : NAP -33.26 / -33.31 m.         |
| Monster       | : 4         | Einddatum      | : 30-09-2019 | Initieel vol.gew. $\gamma$   | : 19.15 kN/m <sup>3</sup>        |
| Bus           | : 4         | Hoogte monster | : 19.00 mm   | Droog vol.gew. $\gamma_{dr}$ | : 14.36 kN/m <sup>3</sup>        |
| Apparaat      | : 30        | Zetting (24u)  | : 0.462 mm   | Watergehalte W               | : 33 %                           |
| Soort monster | : Ongeroerd | h (24u)        | : 18.538 mm  | Grondsoort                   | : Klei, matig siltig, grijsbruin |

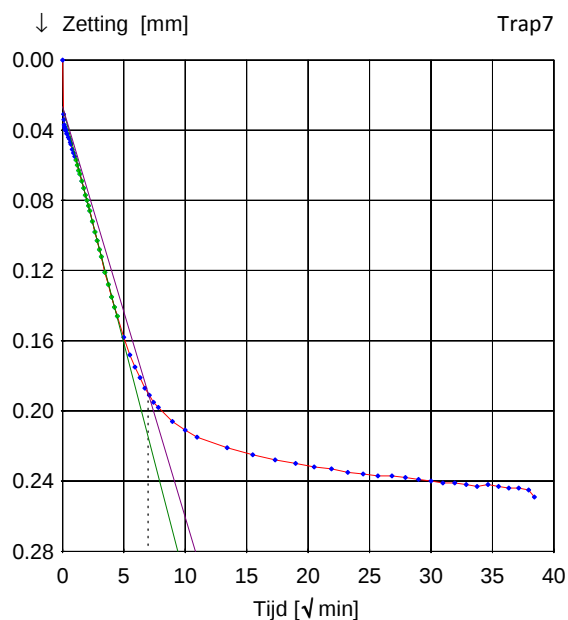
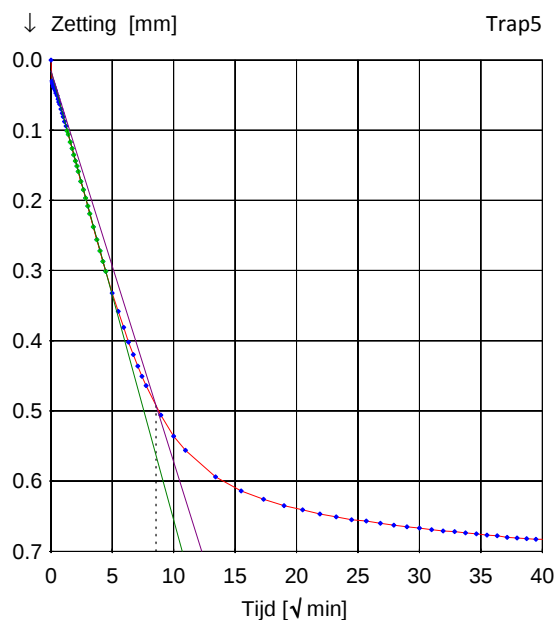
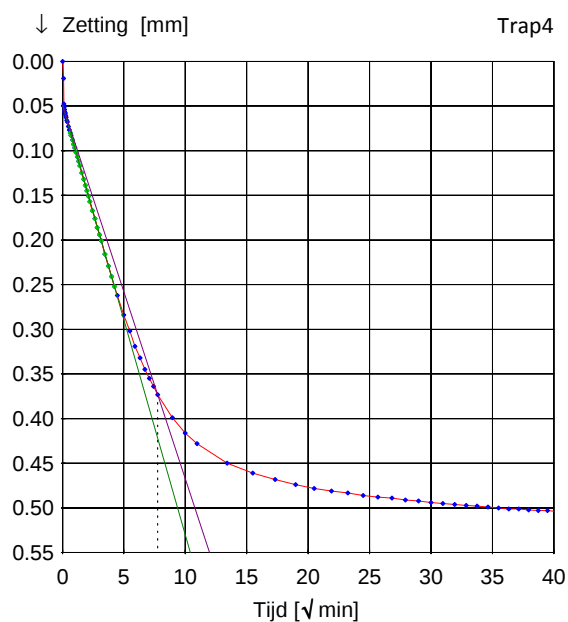
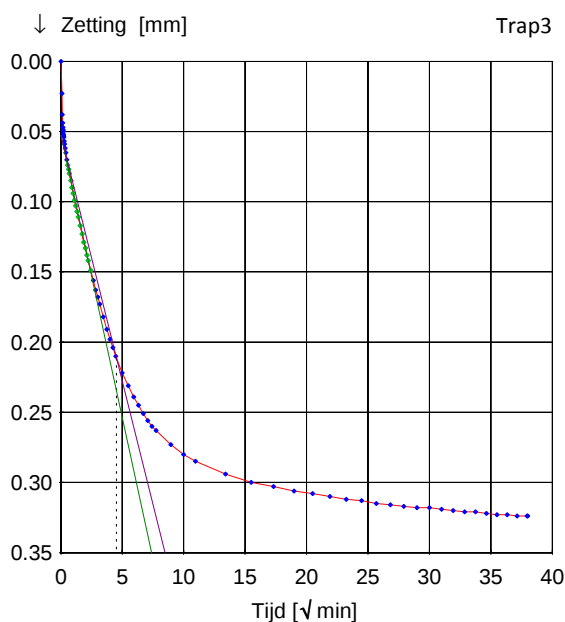
| Belastingtrappen:              | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 67    | 134   | 267   | 534   | 1068  | 534   | 1068  | 2670  |
| C <sub>p</sub>                 | 57.7  | 39.8  | 25.9  | 18.9  | 55.1  | 50.9  | 14.1  |       |
| C <sub>s</sub>                 | 633.9 | 722.0 | 562.9 | 281.1 | 343.8 | 469.8 | 220.6 |       |
| C <sub>10<sup>4</sup></sub>    | 42.3  | 32.6  | 21.9  | 14.9  | 33.6  | 35.5  | 11.2  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 424 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 47.1              | C <sub>p</sub> ' = 15.6              | C <sub>p</sub> = 55.1              | C <sub>p</sub> = 50.9              |              |                |
|                              | C <sub>s</sub> = 674.9             | C <sub>s</sub> ' = 264.1             | C <sub>s</sub> = 343.8             | C <sub>s</sub> = 469.8             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 36.8 | C <sub>10<sup>4</sup></sub> ' = 12.6 | C <sub>10<sup>4</sup></sub> = 33.6 | C <sub>10<sup>4</sup></sub> = 35.5 |              |                |



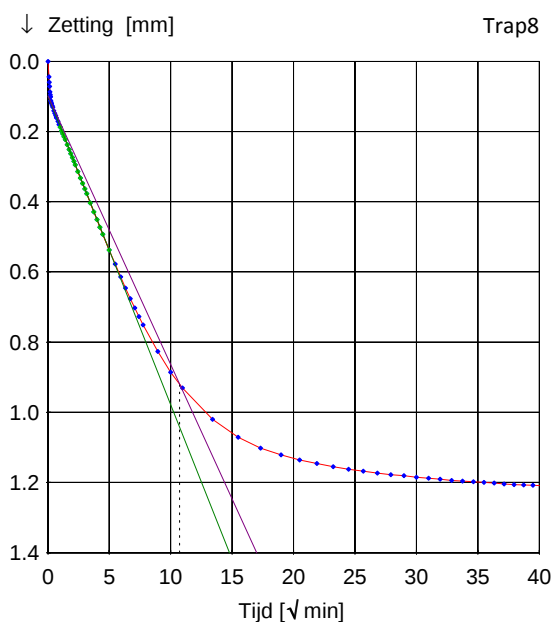
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -33.26 / -33.31 m.                |
| Monster       | : 4        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.15 kN/m <sup>3</sup>      |
| Bus           | : 4        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat      | : 30       | Zetting (24u)  | : 0.462 mm   | Watergehalte      | W : 33 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.538 mm  | Grondsoort        | : Klei, matig siltig, grijsbruin        |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 67    | 134   | 267   | 534   | 1068  | 534   | 1068  | 2670  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 67    | 67    | 133   | 267   | 534   | -534  | 534   | 1602  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 4.25  | 1.38  | 1.05  |       | 1.55  | 0.58  |
| $m_v$ [1/MPa]                                         |       |       | 0.07  | 0.08  | 0.06  |       | 0.02  | 0.03  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 3.03  | 1.02  | 0.58  |       | 0.30  | 0.19  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 2.33  | 1.03  | 0.77  |       | 1.43  | 0.44  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.685 | 2.005 | 3.129 |       | 1.435 | 4.954 |



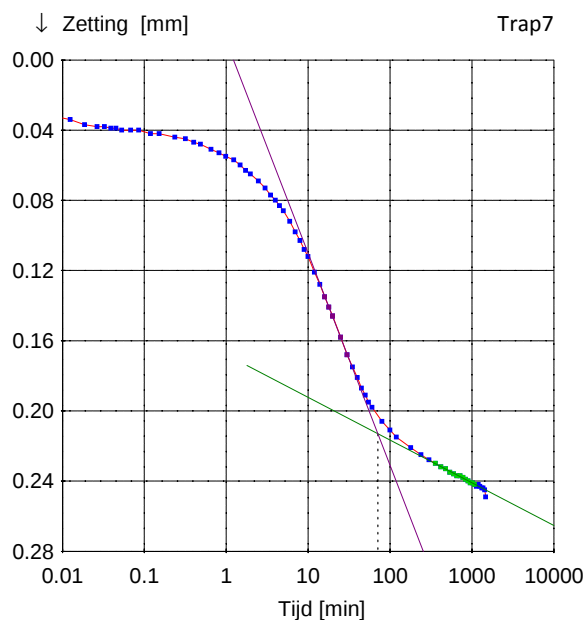
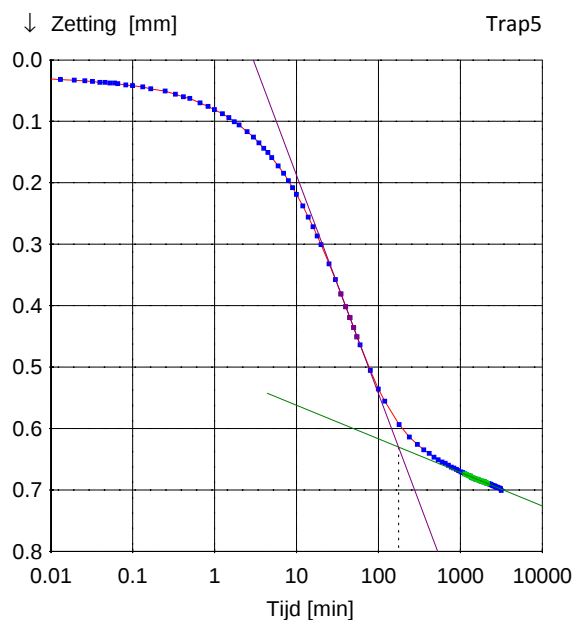
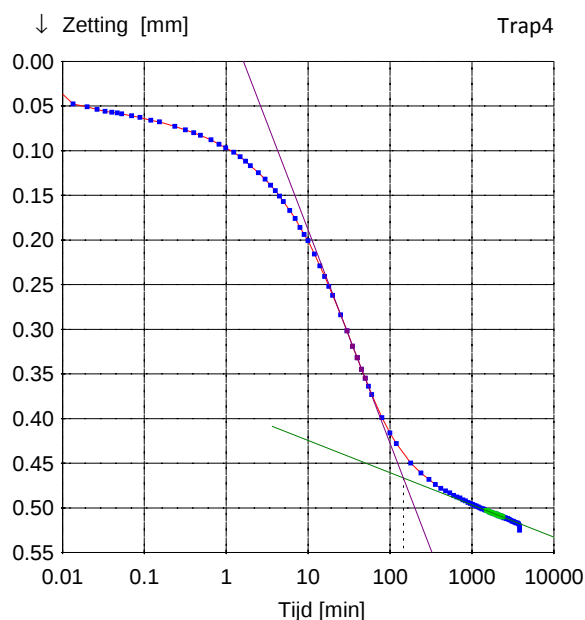
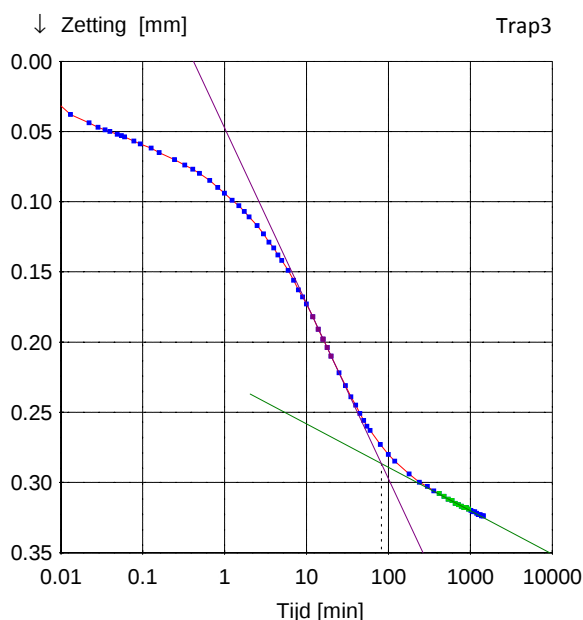
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -33.26 / -33.31 m.                |
| Monster       | : 4        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.15 kN/m <sup>3</sup>      |
| Bus           | : 4        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat      | : 30       | Zetting (24u)  | : 0.462 mm   | Watergehalte      | W : 33 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.538 mm  | Grondsoort        | : Klei, matig siltig, grijsbruin        |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 67    | 134   | 267   | 534   | 1068  | 534   | 1068  | 2670  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 67    | 67    | 133   | 267   | 534   | -534  | 534   | 1602  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 4.25  | 1.38  | 1.05  |       | 1.55  | 0.58  |
| $m_v$ [1/MPa]                                         |       |       | 0.07  | 0.08  | 0.06  |       | 0.02  | 0.03  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 3.03  | 1.02  | 0.58  |       | 0.30  | 0.19  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 2.33  | 1.03  | 0.77  |       | 1.43  | 0.44  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.685 | 2.005 | 3.129 |       | 1.435 | 4.954 |



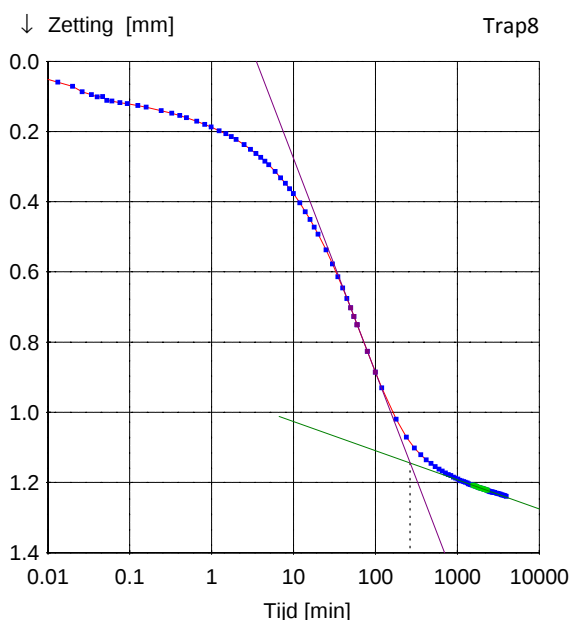
|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 17-09-2019   | Diepte : NAP -33.26 / -33.31 m.                        |
| Monster : 4              | Einddatum : 30-09-2019    | Initieel vol.gew. $\gamma$ : 19.15 kN/m <sup>3</sup>   |
| Bus : 4                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat : 30            | Zetting (24u) : 0.462 mm  | Watergehalte W : 33 %                                  |
| Soort monster : Ongeroid | h (24u) : 18.538 mm       | Grondsoort : Klei, matig siltig, grijsbruin            |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 67    | 134   | 267   | 534   | 1068  | 534   | 1068  | 2670  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 67    | 67    | 133   | 267   | 534   | -534  | 534   | 1602  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 4.25  | 1.38  | 1.05  |       | 1.55  | 0.58  |
| $m_v$ [1/MPa]                                         |       |       | 0.07  | 0.08  | 0.06  |       | 0.02  | 0.03  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 3.03  | 1.02  | 0.58  |       | 0.30  | 0.19  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 2.33  | 1.03  | 0.77  |       | 1.43  | 0.44  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.685 | 2.005 | 3.129 |       | 1.435 | 4.954 |



|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -33.26 / -33.31 m.                |
| Monster       | : 4        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.15 kN/m <sup>3</sup>      |
| Bus           | : 4        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat      | : 30       | Zetting (24u)  | : 0.462 mm   | Watergehalte      | W : 33 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.538 mm  | Grondsoort        | : Klei, matig siltig, grijsbruin        |

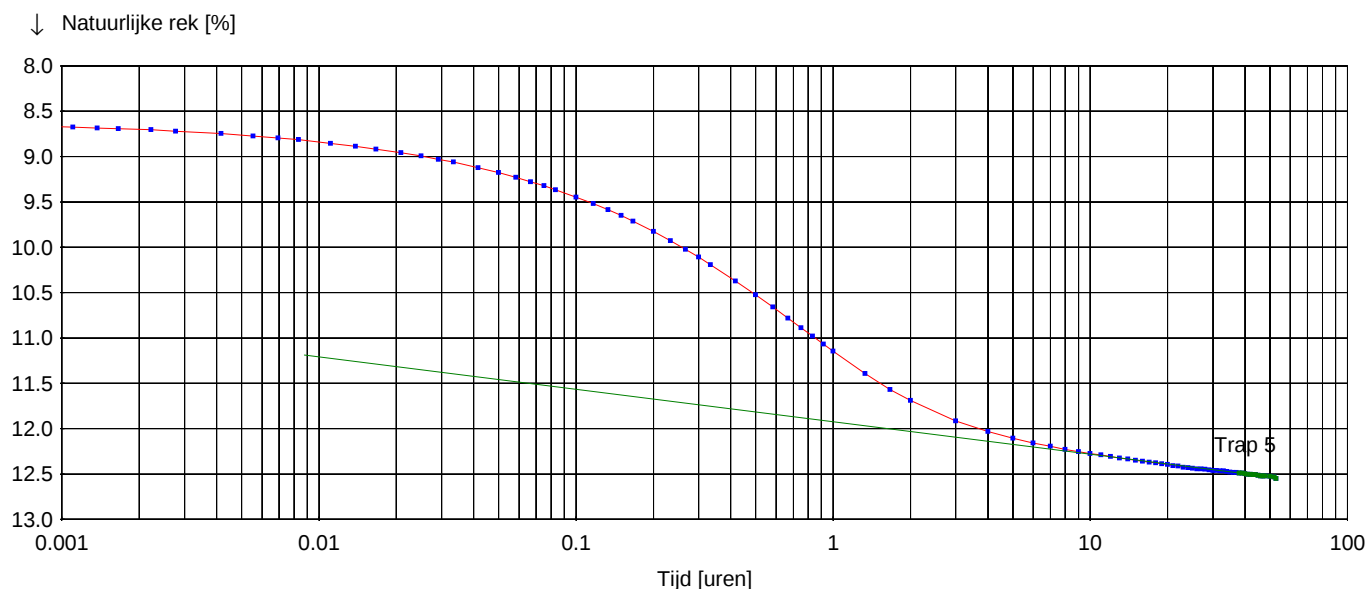
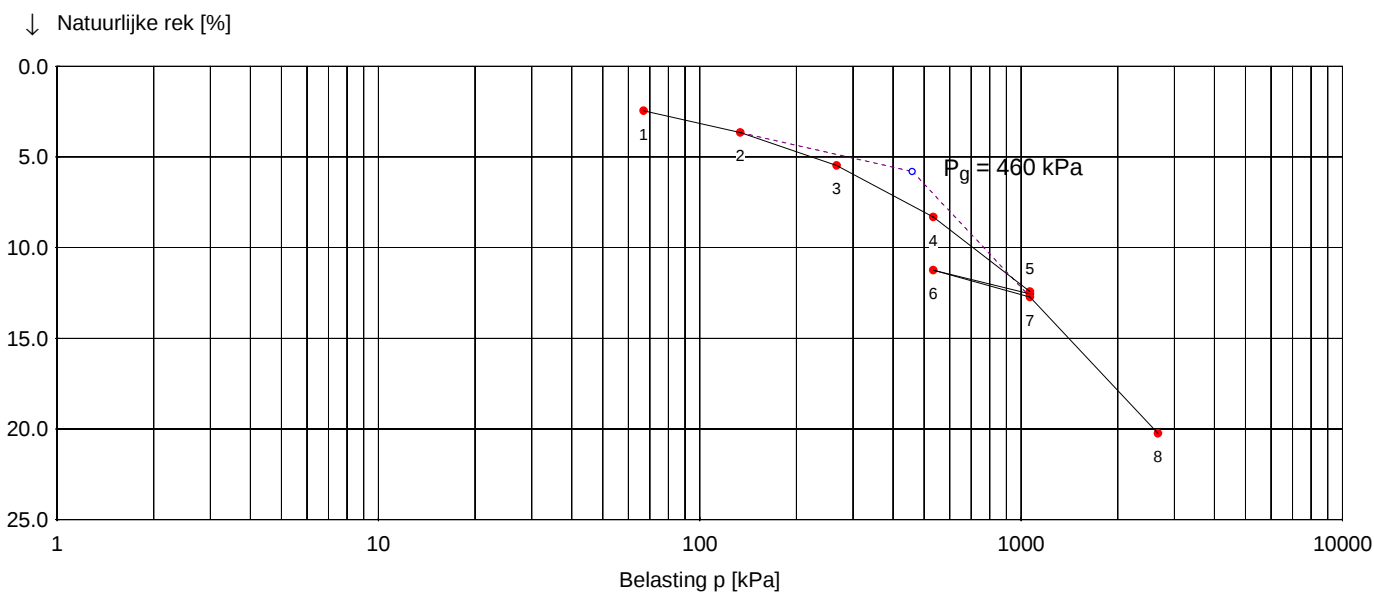
| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 67    | 134   | 267   | 534   | 1068  | 534   | 1068  | 2670  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 67    | 67    | 133   | 267   | 534   | -534  | 534   | 1602  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 4.25  | 1.38  | 1.05  |       | 1.55  | 0.58  |
| $m_v$ [1/MPa]                                         |       |       | 0.07  | 0.08  | 0.06  |       | 0.02  | 0.03  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 3.03  | 1.02  | 0.58  |       | 0.30  | 0.19  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 2.33  | 1.03  | 0.77  |       | 1.43  | 0.44  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.685 | 2.005 | 3.129 |       | 1.435 | 4.954 |



|                           |                           |                                                        |
|---------------------------|---------------------------|--------------------------------------------------------|
| Boring : F                | Startdatum : 17-09-2019   | Diepte : NAP -33.26 / -33.31 m.                        |
| Monster : 4               | Einddatum : 30-09-2019    | Initieel vol.gew. $\gamma$ : 19.15 kN/m <sup>3</sup>   |
| Bus : 4                   | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat : 30             | Zetting (24u) : 0.462 mm  | Watergehalte W : 33 %                                  |
| Soort monster : Ongeroerd | h (24u) : 18.538 mm       | Grondsoort : Klei, matig siltig, grijsbruin            |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 67     | 134    | 267    | 534    | 1068   | 534    | 1068   | 2670  |
| a, b              | 0.0174 | 0.0259 | 0.0408 | 0.0574 | 0.0188 | 0.0210 | 0.0817 |       |
| c                 |        |        |        |        | 0.0016 | 0.0007 | 0.0023 |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 459.6kPa | a = 0.0210 | b = 0.0817 | c = 0.00156 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 | Trap 5      |



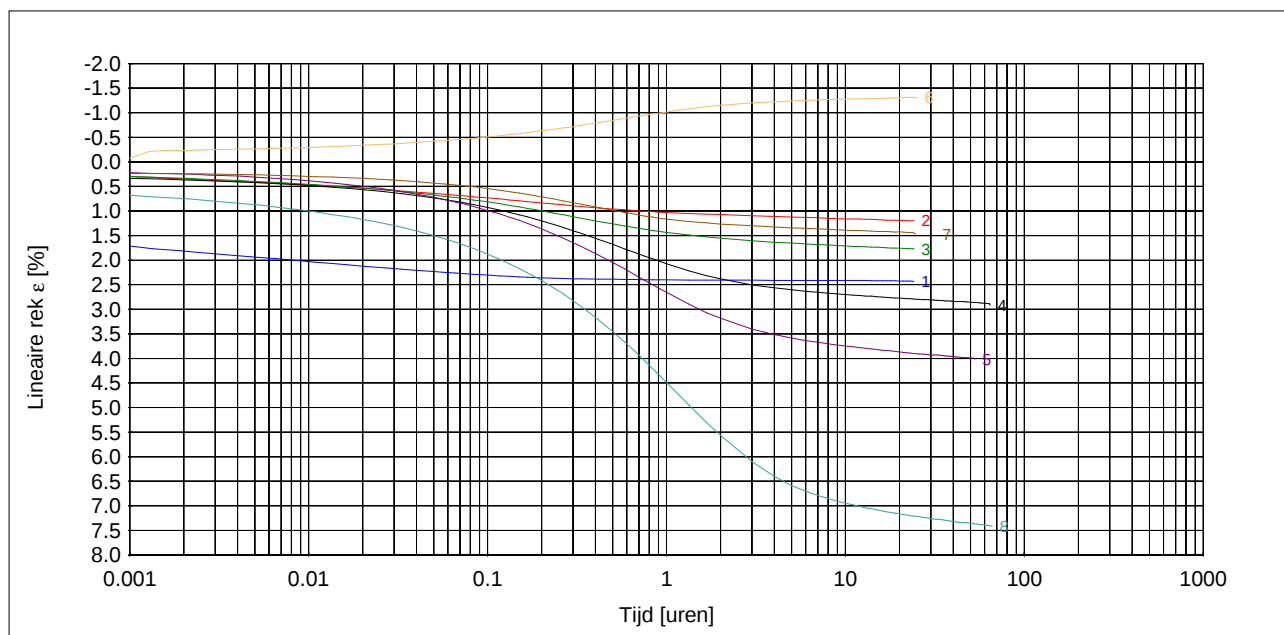
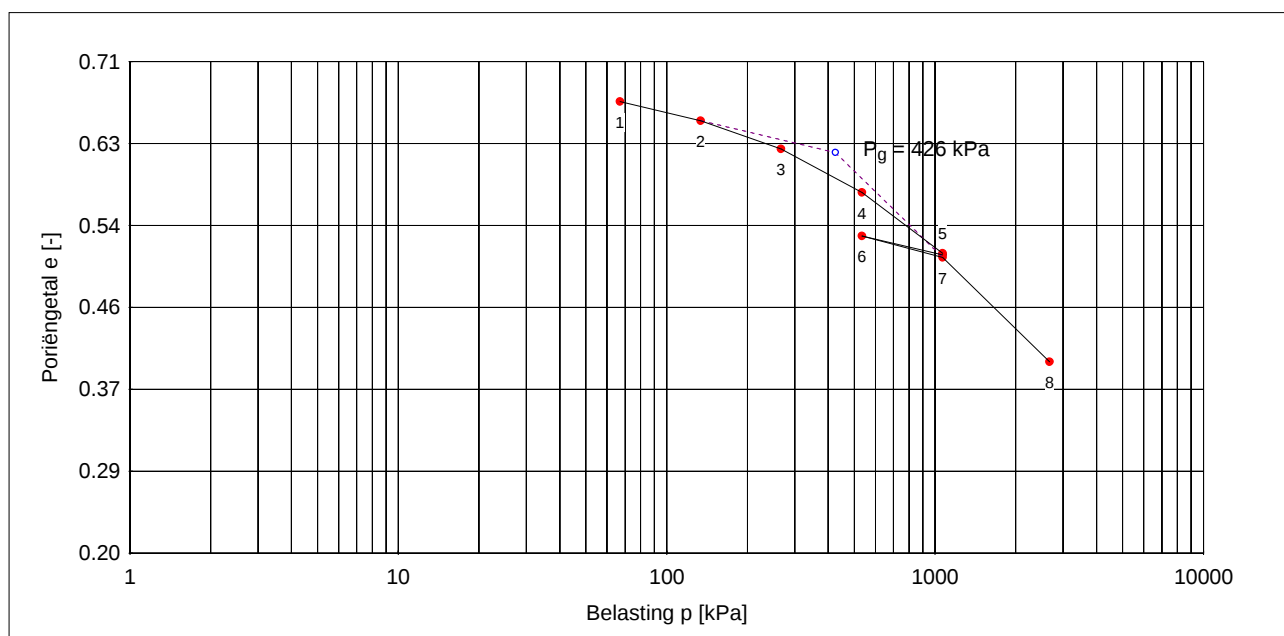
Boring : F Startdatum : 17-09-2019 Diepte : NAP -33.26 / -33.31 m.  
Monster : 4 Einddatum : 30-09-2019 Initieel vol.gew.  $\gamma$  : 19.15 kN/m<sup>3</sup>  
Bus : 4 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 14.36 kN/m<sup>3</sup>  
Apparaat : 30 Zetting (24u) : 0.462 mm Watergehalte W : 33 %  
Soort monster : Ongeroid e<sub>0</sub> : 0.71 Grondsoort : Klei, matig siltig, grijsbruin

| Belastingtrappen:                         | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7  | Trap8  |
|-------------------------------------------|-------|-------|--------|--------|--------|-------|--------|--------|
| Belasting                                 | 67    | 134   | 267    | 534    | 1068   | 534   | 1068   | 2670   |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.067 | 0.098 | 0.150  | 0.204  | 0.066  | 0.073 | 0.273  |        |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ |       |       | 0.0017 | 0.0020 | 0.0031 |       | 0.0014 | 0.0050 |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.073</math></b> | <b><math>C_c = 0.273</math></b> | <b><math>C_{sw} = 0.066</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0026</math></b> |
| Trap 4, 5                               |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 17-09-2019 | Diepte            | : NAP -33.26 / -33.31 m.                |
| Monster       | : 4        | Einddatum      | : 30-09-2019 | Initieel vol.gew. | $\gamma$ : 19.15 kN/m <sup>3</sup>      |
| Bus           | : 4        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 14.36 kN/m <sup>3</sup> |
| Apparaat      | : 30       | Zetting (24u)  | : 0.462 mm   | Watergehalte      | W : 33 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.71       | Grondsoort        | : Klei, matig siltig, grijsbruin        |

#### Bepaling parameters per trap

|                                                         |               |          |          |          |          |          |          |          |
|---------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                       | 67            | 134      | 267      | 534      | 1068     | 534      | 1068     | 2670     |
| <b>NEN / Bjerrum</b>                                    | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$                 | 0.0665        | 0.0976   | 0.1504   | 0.2040   | 0.0659   | 0.0734   | 0.2733   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                            | 0.0388        | 0.0570   | 0.0878   | 0.1191   | 0.0385   | 0.0428   | 0.1595   |          |
| $C_\alpha = \Delta e / \Delta \log t$                   |               |          | 0.0017   | 0.0020   | 0.0031   |          | 0.0014   | 0.0050   |
| <b>KoppeJan</b>                                         | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                   | 57.7          | 39.8     | 25.9     | 18.9     | 55.1     | 50.9     | 14.1     |          |
| $C_s$                                                   | 633.9         | 722.0    | 562.9    | 281.1    | 343.8    | 469.8    | 220.6    |          |
| $C_{10^4}$                                              | 42.3          | 32.6     | 21.9     | 14.9     | 33.6     | 35.5     | 11.2     |          |
| <b>Taylor / Casagrande</b>                              | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (Taylor)     |               |          | 4.25     | 1.38     | 1.05     |          | 1.55     | 0.58     |
| $m_v$ [1/MPa]                                           |               |          | 0.07     | 0.08     | 0.06     |          | 0.02     | 0.03     |
| $k_{10}$ [10 <sup>-11</sup> m/s]                        |               |          | 3.03     | 1.02     | 0.58     |          | 0.30     | 0.19     |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (Casagrande) |               |          | 2.33     | 1.03     | 0.77     |          | 1.43     | 0.44     |
| <b>Isotachen</b>                                        | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                    | 0.0174        | 0.0259   | 0.0408   | 0.0574   | 0.0188   | 0.0210   | 0.0817   |          |
| c                                                       |               |          |          |          | 0.0016   |          | 0.0007   | 0.0023   |

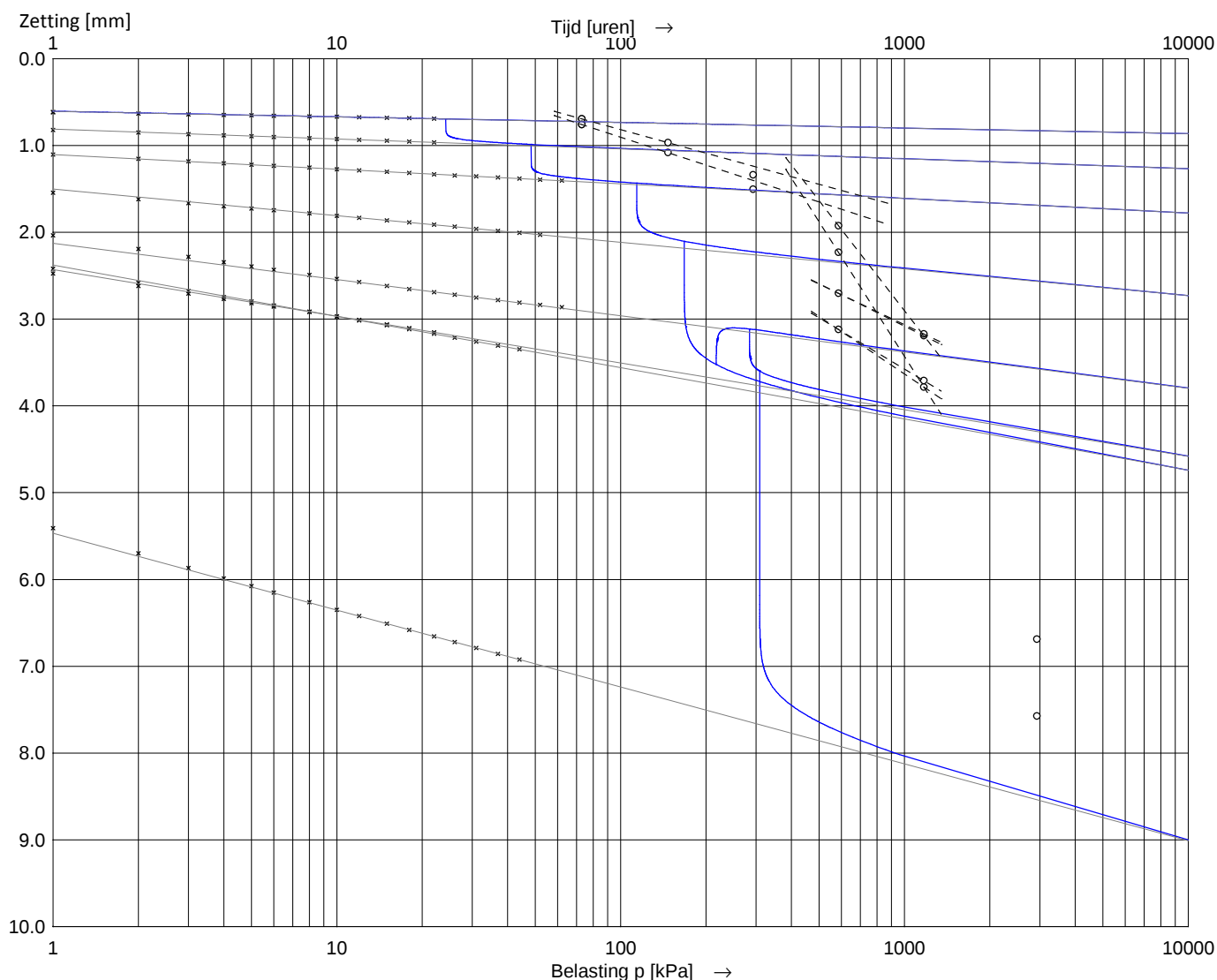
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                    |                                                       |                                                    |                                                                 |
|----------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                  | <b>Trap 4, 5</b>                                                |
| $P_g = 425.6$        | $C_r = 0.0734$<br>$RR = 0.0428$                    | $C_c = 0.2733$<br>$CR = 0.1595$                       | $C_{sw} = 0.0659$<br>$SR = 0.0385$                 | $C_\alpha = 0.0026$                                             |
| <b>KoppeJan</b>      | <b>Trap 1 - 2 - 3</b>                              | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                  | <b>Trap 6 - 7</b>                                               |
| $P_g = 424.3$        | $C_p = 47.1$<br>$C_s = 674.9$<br>$C_{10^4} = 36.8$ | $C_p' = 15.6$<br>$C_s' = 264.1$<br>$C_{10^4}' = 12.6$ | $A_p = 55.1$<br>$A_s = 343.8$<br>$A_{10^4} = 33.6$ | $C_{p(r)} = 50.9$<br>$C_{s(r)} = 469.8$<br>$C_{10^4(r)} = 35.5$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                     | <b>Trap 5</b>                                      |                                                                 |
| $P_g = 459.6$        | a = 0.0210                                         | b = 0.0817                                            | c = 0.0016                                         |                                                                 |

|               |             |                |              |                   |                                        |
|---------------|-------------|----------------|--------------|-------------------|----------------------------------------|
| Boring        | : F         | Startdatum     | : 02-10-2019 | Diepte            | : NAP -38.08 / -38.13 m.               |
| Monster       | : 5A        | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 11.16 kN/m <sup>3</sup>     |
| Bus           | : 5         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 3.83 kN/m <sup>3</sup> |
| Apparaat      | : 22        | Zetting (24u)  | : 0.695 mm   | Watergehalte      | W : 191 %                              |
| Soort monster | : Ongeroerd | h (24u)        | : 18.305 mm  | Grondsoort        | : Veen, mineraalarm, bruin             |

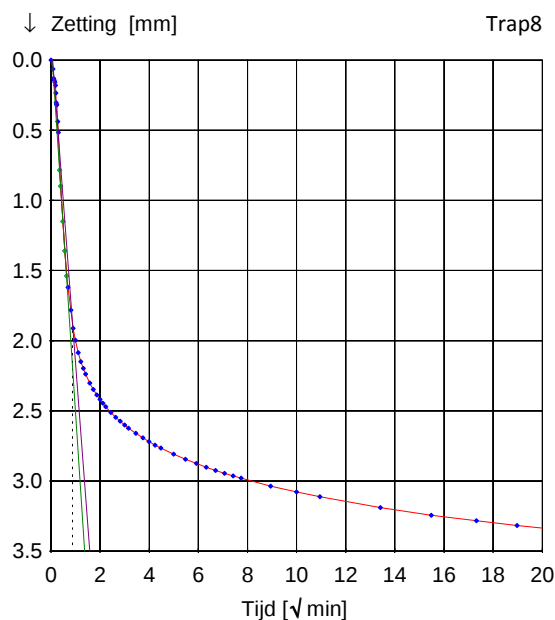
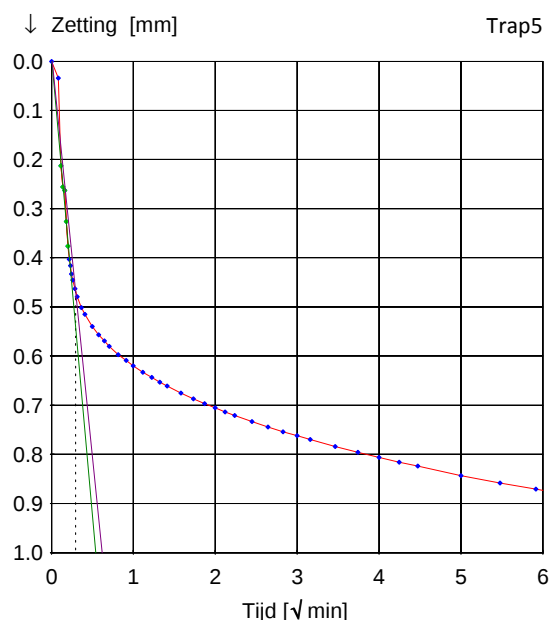
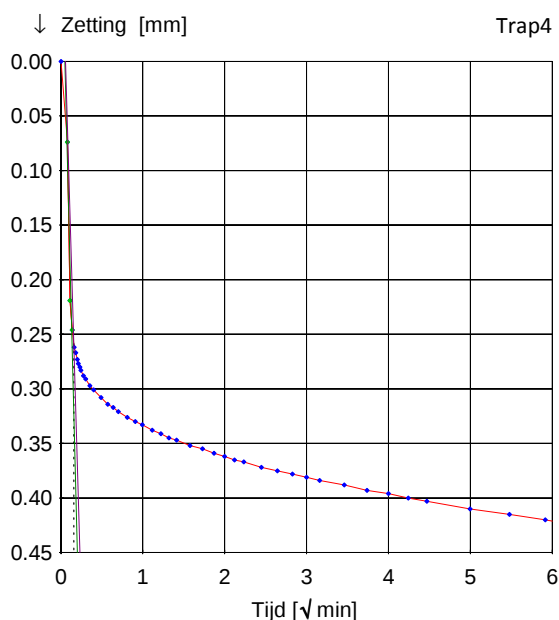
| Belastingtrappen:              | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 73    | 147   | 293   | 586   | 1172  | 586   | 1172  | 2930  |
| C <sub>p</sub>                 | 46.5  | 34.0  | 21.5  | 10.0  | 25.8  | 27.0  | 4.7   |       |
| C <sub>s</sub>                 | 255.1 | 232.6 | 90.9  | 44.4  | 72.3  | 104.6 | 48.0  |       |
| C <sub>10<sup>4</sup></sub>    | 26.9  | 21.5  | 11.1  | 5.3   | 10.6  | 13.3  | 3.4   |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                   | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 440 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 46.5              | C <sub>p</sub> ' = 10.0             | C <sub>p</sub> = 25.8              | C <sub>p</sub> = 27.0              |              |                |
|                              | C <sub>s</sub> = 255.1             | C <sub>s</sub> ' = 44.4             | C <sub>s</sub> = 72.3              | C <sub>s</sub> = 104.6             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 26.9 | C <sub>10<sup>4</sup></sub> ' = 5.3 | C <sub>10<sup>4</sup></sub> = 10.6 | C <sub>10<sup>4</sup></sub> = 13.3 |              |                |



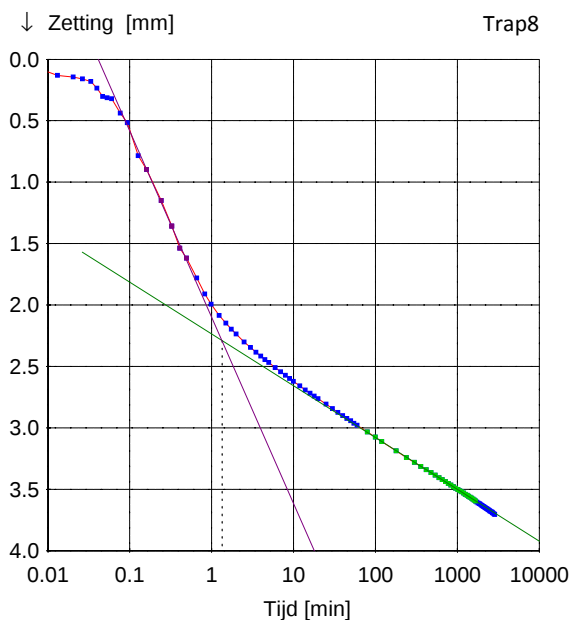
|                          |                           |                                                       |
|--------------------------|---------------------------|-------------------------------------------------------|
| Boring : F               | Startdatum : 02-10-2019   | Diepte : NAP -38.08 / -38.13 m.                       |
| Monster : 5A             | Einddatum : 17-10-2019    | Initieel vol.gew. $\gamma$ : 11.16 kN/m <sup>3</sup>  |
| Bus : 5                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 3.83 kN/m <sup>3</sup> |
| Apparaat : 22            | Zetting (24u) : 0.695 mm  | Watergehalte W : 191 %                                |
| Soort monster : Ongeroid | h (24u) : 18.305 mm       | Grondsoort : Veen, mineraalarm, bruin                 |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4   | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|---------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 73    | 147   | 293   | 586     | 1172   | 586   | 1172  | 2930  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 73    | 74    | 146   | 293     | 586    | -586  | 586   | 1758  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       |       | 3190.87 | 831.93 |       |       | 62.82 |
| $m_v$ [1/MPa]                                         |       |       |       | 0.09    | 0.05   |       |       | 0.08  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       |       | 2742.34 | 439.24 |       |       | 50.94 |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       |       |         |        |       |       | 81.80 |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       |       |         |        |       |       | 27.37 |



|               |            |                |              |                   |                                        |
|---------------|------------|----------------|--------------|-------------------|----------------------------------------|
| Boring        | : F        | Startdatum     | : 02-10-2019 | Diepte            | : NAP -38.08 / -38.13 m.               |
| Monster       | : 5A       | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 11.16 kN/m <sup>3</sup>     |
| Bus           | : 5        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 3.83 kN/m <sup>3</sup> |
| Apparaat      | : 22       | Zetting (24u)  | : 0.695 mm   | Watergehalte      | W : 191 %                              |
| Soort monster | : Ongeroid | h (24u)        | : 18.305 mm  | Grondsoort        | : Veen, mineraalarm, bruin             |

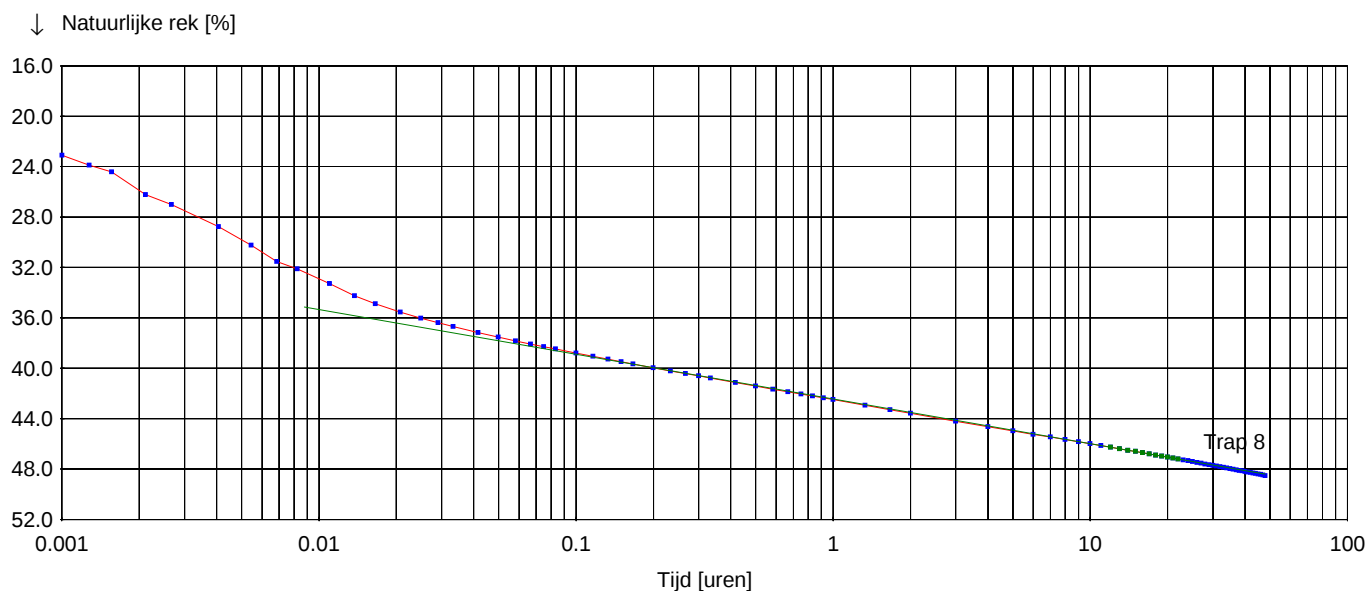
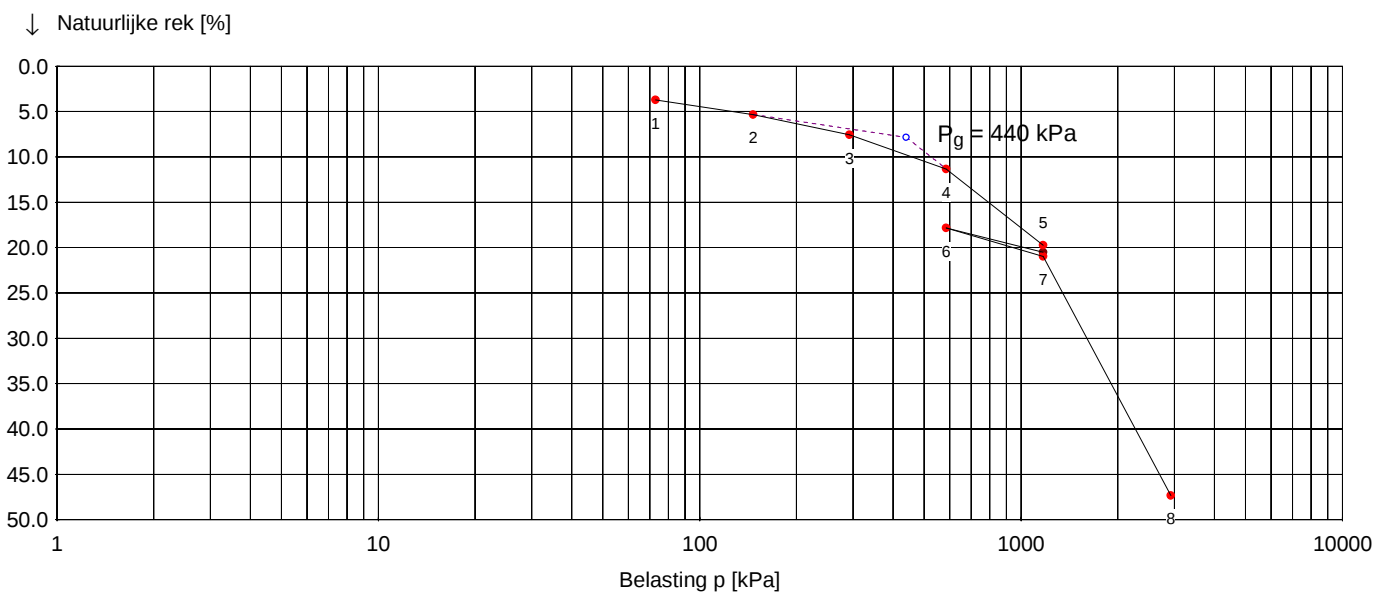
| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4   | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|---------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 73    | 147   | 293   | 586     | 1172   | 586   | 1172  | 2930  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 73    | 74    | 146   | 293     | 586    | -586  | 586   | 1758  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       |       | 3190.87 | 831.93 |       |       | 62.82 |
| $m_v$ [1/MPa]                                         |       |       |       | 0.09    | 0.05   |       |       | 0.08  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       |       | 2742.34 | 439.24 |       |       | 50.94 |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       |       |         |        |       |       | 81.80 |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       |       |         |        |       |       | 27.37 |



Boring : F Startdatum : 02-10-2019 Diepte : NAP -38.08 / -38.13 m.  
Monster : 5A Einddatum : 17-10-2019 Initieel vol.gew.  $\gamma$  : 11.16 kN/m<sup>3</sup>  
Bus : 5 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 3.83 kN/m<sup>3</sup>  
Apparaat : 22 Zetting (24u) : 0.695 mm Watergehalte W : 191 %  
Soort monster : Ongerodert h (24u) : 18.305 mm Grondsoort : Veen, mineraalarm, bruin

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Belasting         | 73     | 147    | 293    | 586    | 1172   | 586    | 1172   | 2930   |
| a, b              | 0.0230 | 0.0322 | 0.0505 | 0.1154 | 0.0384 | 0.0461 | 0.2875 |        |
| c                 |        |        |        |        |        |        |        | 0.0154 |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 439.9kPa | a = 0.0461 | b = 0.2875 | c = 0.01540 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 | Trap 8      |



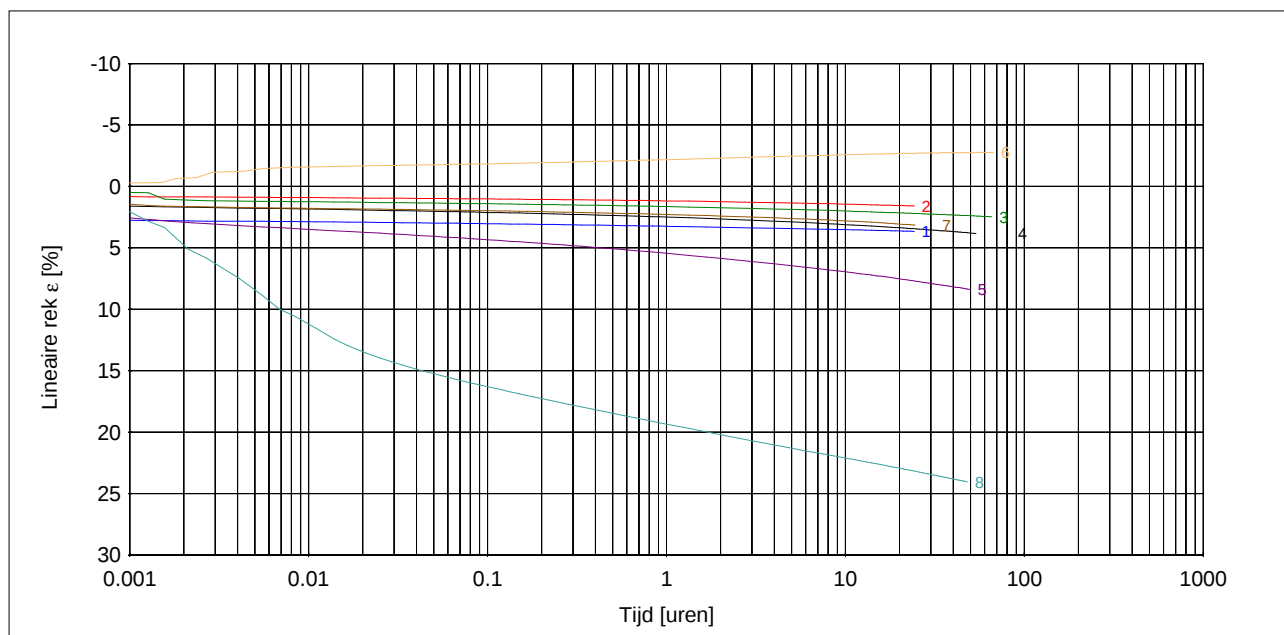
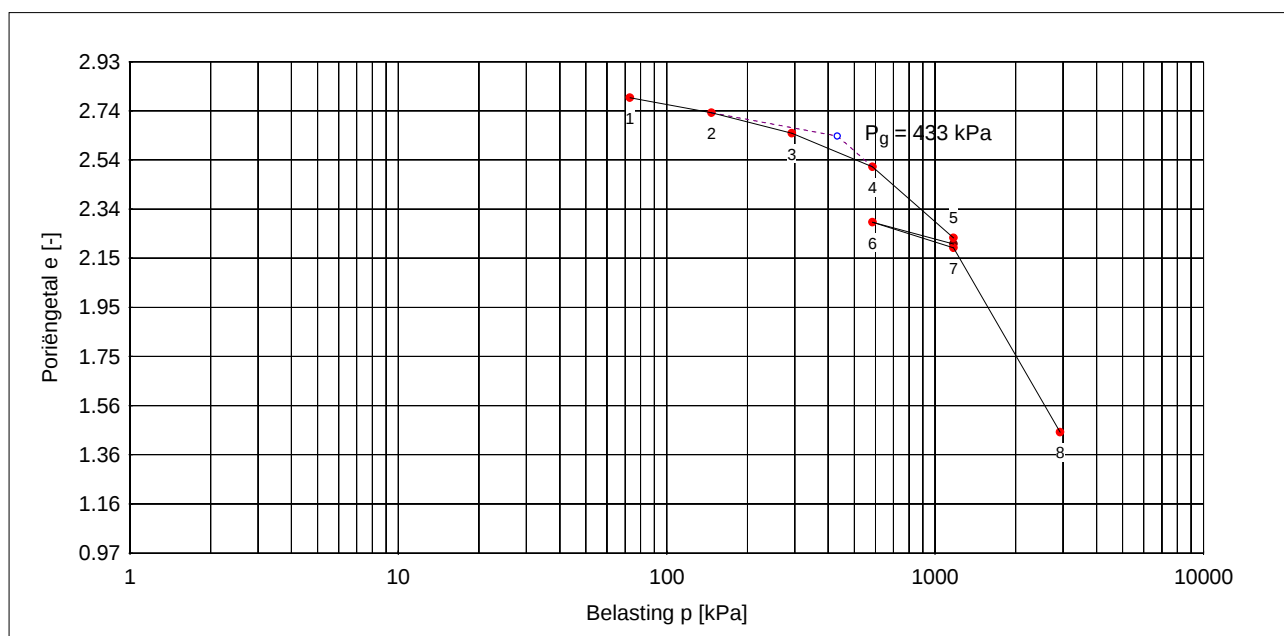
|                          |                           |                                                       |
|--------------------------|---------------------------|-------------------------------------------------------|
| Boring : F               | Startdatum : 02-10-2019   | Diepte : NAP -38.08 / -38.13 m.                       |
| Monster : 5A             | Einddatum : 17-10-2019    | Initieel vol.gew. $\gamma$ : 11.16 kN/m <sup>3</sup>  |
| Bus : 5                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 3.83 kN/m <sup>3</sup> |
| Apparaat : 22            | Zetting (24u) : 0.695 mm  | Watergehalte W : 191 %                                |
| Soort monster : Ongeroid | $e_0$ : 2.93              | Grondsoort : Veen, mineraalarm, bruin                 |

| Belastingtrappen:                         | Trap1  | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Belasting                                 | 73     | 147   | 293   | 586   | 1172  | 586   | 1172  | 2930  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.199  | 0.274 | 0.415 | 0.893 | 0.287 | 0.344 | 1.855 |       |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ | 0.0274 |       |       |       |       |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.344</math></b> | <b><math>C_c = 1.855</math></b> | <b><math>C_{sw} = 0.287</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                  |
|----------------------------------|
| <b><math>C_{\alpha} =</math></b> |
|                                  |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                        |
|---------------|------------|----------------|--------------|-------------------|----------------------------------------|
| Boring        | : F        | Startdatum     | : 02-10-2019 | Diepte            | : NAP -38.08 / -38.13 m.               |
| Monster       | : 5A       | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 11.16 kN/m <sup>3</sup>     |
| Bus           | : 5        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 3.83 kN/m <sup>3</sup> |
| Apparaat      | : 22       | Zetting (24u)  | : 0.695 mm   | Watergehalte      | W : 191 %                              |
| Soort monster | : Ongeroid | $e_0$          | : 2.93       | Grondsoort        | : Veen, mineraalarm, bruin             |

#### Bepaling parameters per trap

|                                                       |               |          |          |          |          |          |          |          |
|-------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                     | 73            | 147      | 293      | 586      | 1172     | 586      | 1172     | 2930     |
| <b>NEN / Bjerrum</b>                                  | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$               | 0.1988        | 0.2736   | 0.4153   | 0.8931   | 0.2874   | 0.3438   | 1.8552   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                          | 0.0506        | 0.0696   | 0.1056   | 0.2271   | 0.0731   | 0.0874   | 0.4718   |          |
| $C_\alpha = \Delta e / \Delta \log t$                 |               |          |          |          |          |          | 0.0274   |          |
| <b>KoppeJan</b>                                       | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                 | 46.5          | 34.0     | 21.5     | 10.0     | 25.8     | 27.0     | 4.7      |          |
| $C_s$                                                 | 255.1         | 232.6    | 90.9     | 44.4     | 72.3     | 104.6    | 48.0     |          |
| $C_{10^4}$                                            | 26.9          | 21.5     | 11.1     | 5.3      | 10.6     | 13.3     | 3.4      |          |
| <b>Taylor / Casagrande</b>                            | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Taylor)     |               |          |          | 3190.87  | 831.93   |          |          | 62.82    |
| $m_v$ [1/MPa]                                         |               |          |          | 0.09     | 0.05     |          |          | 0.08     |
| $k_{10}$ [ $10^{-11} \text{ m/s}$ ]                   |               |          |          | 2742.34  | 439.24   |          |          | 50.94    |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Casagrande) |               |          |          |          |          |          |          | 81.80    |
| <b>Isotachen</b>                                      | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                  | 0.0230        | 0.0322   | 0.0505   | 0.1154   | 0.0384   | 0.0461   | 0.2875   |          |
| c                                                     |               |          |          |          |          |          |          | 0.0154   |

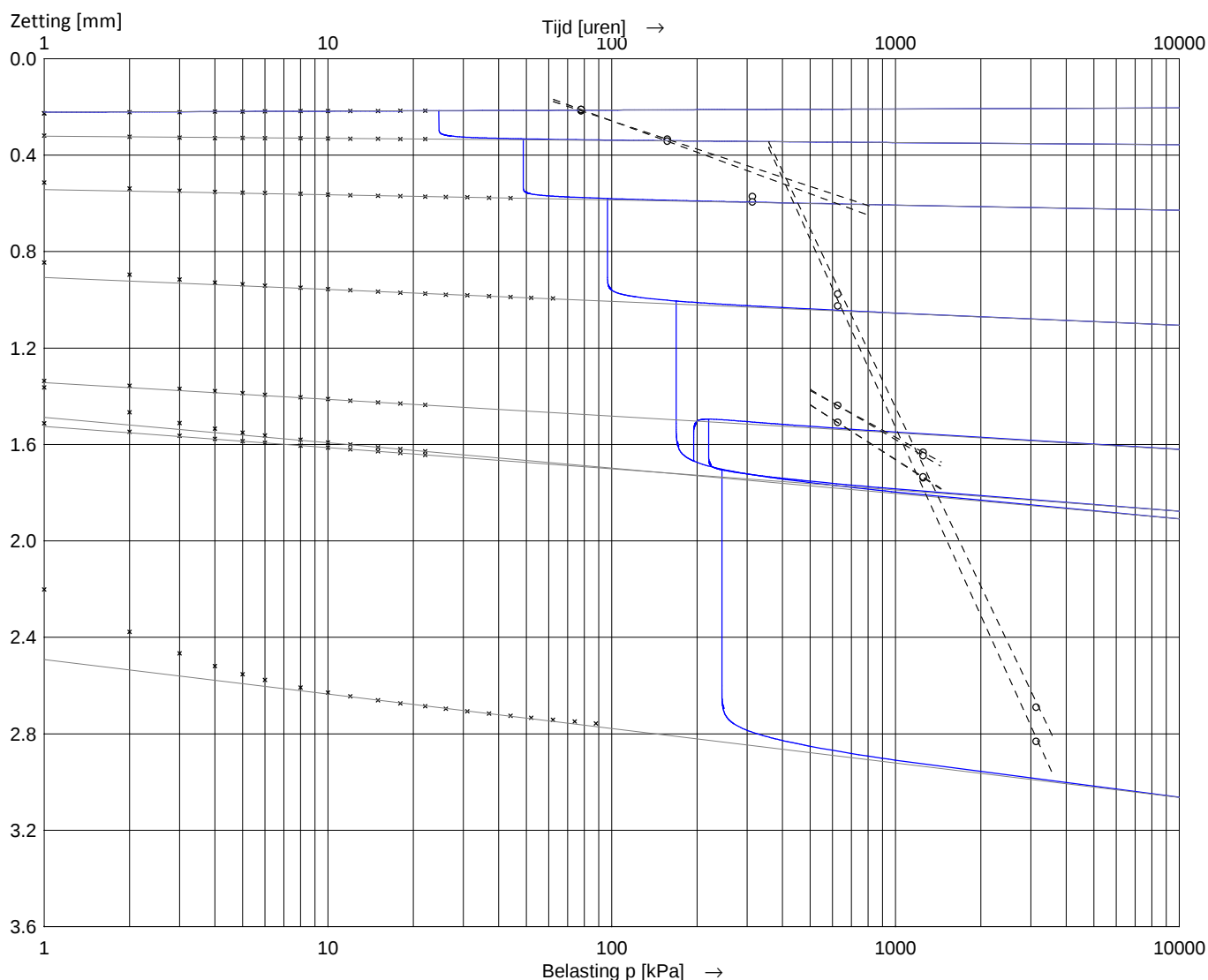
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                    |                                                     |                                                   |                                                                 |
|----------------------|----------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                   | <b>Trap 5 - 6</b>                                 | <b>Trap</b>                                                     |
| $P_g = 432.8$        | $C_r = 0.3438$<br>$RR = 0.0874$                    | $C_c = 1.8552$<br>$CR = 0.4718$                     | $C_{sw} = 0.2874$<br>$SR = 0.0731$                | $C_\alpha = --$                                                 |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                  | <b>Trap 4 - 5</b>                                   | <b>Trap 5 - 6</b>                                 | <b>Trap 6 - 7</b>                                               |
| $P_g = 439.6$        | $C_p = 46.5$<br>$C_s = 255.1$<br>$C_{10^4} = 26.9$ | $C_p' = 10.0$<br>$C_s' = 44.4$<br>$C_{10^4}' = 5.3$ | $A_p = 25.8$<br>$A_s = 72.3$<br>$A_{10^4} = 10.6$ | $C_{p(r)} = 27.0$<br>$C_{s(r)} = 104.6$<br>$C_{10^4(r)} = 13.3$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                   | <b>Trap 8</b>                                     |                                                                 |
| $P_g = 439.9$        | a = 0.0461                                         | b = 0.2875                                          | c = 0.0154                                        |                                                                 |

|                           |                           |                                                        |
|---------------------------|---------------------------|--------------------------------------------------------|
| Boring : F                | Startdatum : 23-09-2019   | Diepte : NAP -40.23 / -40.28 m.                        |
| Monster : 6               | Einddatum : 07-10-2019    | Initieel vol.gew. $\gamma$ : 20.54 kN/m <sup>3</sup>   |
| Bus : 6                   | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat : 23             | Zetting (24u) : 0.216 mm  | Watergehalte W : 23 %                                  |
| Soort monster : Ongeroerd | h (24u) : 18.784 mm       | Grondsoort : Klei, matig siltig, grijs                 |

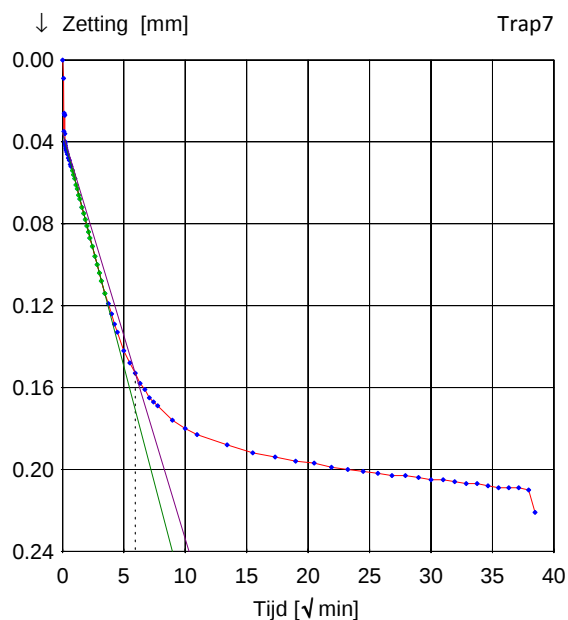
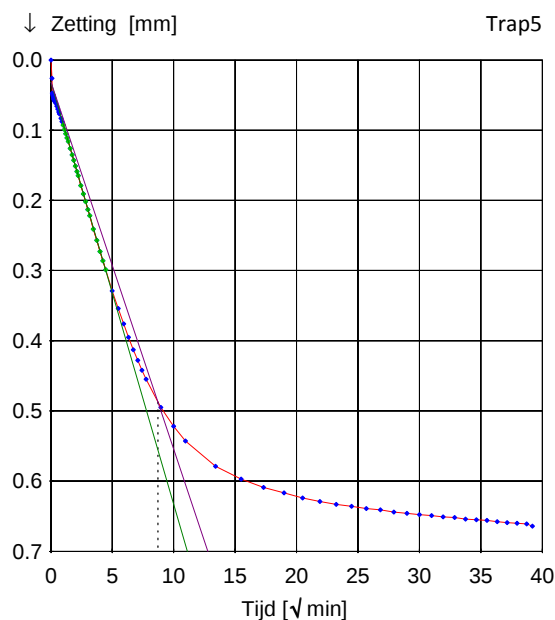
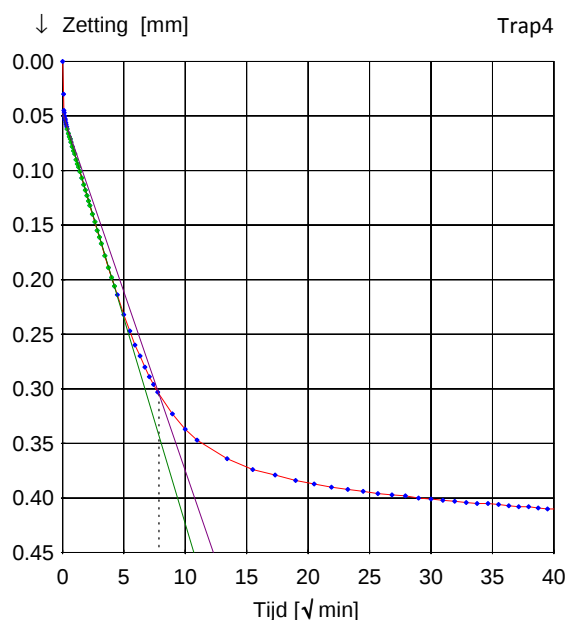
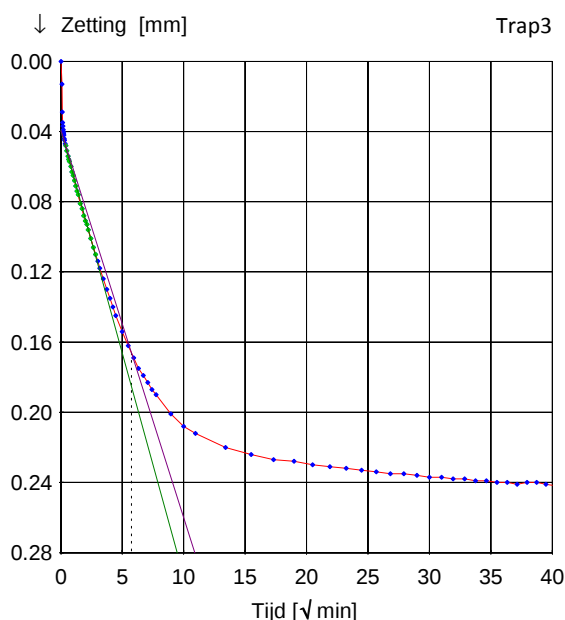
| Belastingtrappen:              | Trap1 | Trap2  | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 78    | 157    | 313   | 626   | 1252  | 626   | 1252  | 3130  |
| C <sub>p</sub>                 | 110.8 | 54.0   | 32.1  | 19.7  | 66.9  | 62.4  | 16.4  |       |
| C <sub>s</sub>                 | 983.9 | 1022.1 | 459.9 | 232.5 | 361.3 | 707.3 | 311.3 |       |
| C <sub>10<sup>4</sup></sub>    | 76.4  | 44.6   | 25.1  | 14.7  | 38.4  | 46.1  | 13.6  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 410 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 110.8             | C <sub>p</sub> ' = 17.5              | C <sub>p</sub> = 66.9              | C <sub>p</sub> = 62.4              |              |                |
|                              | C <sub>s</sub> = 983.9             | C <sub>s</sub> ' = 327.8             | C <sub>s</sub> = 361.3             | C <sub>s</sub> = 707.3             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 76.4 | C <sub>10<sup>4</sup></sub> ' = 14.4 | C <sub>10<sup>4</sup></sub> = 38.4 | C <sub>10<sup>4</sup></sub> = 46.1 |              |                |



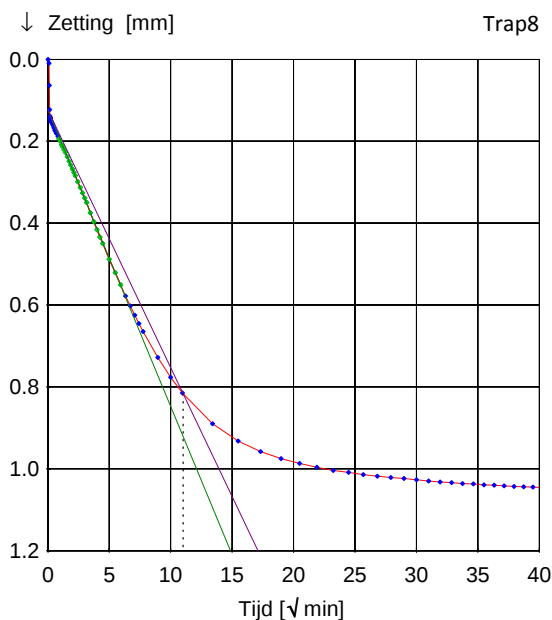
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6        | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23       | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.784 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 78    | 157   | 313   | 626   | 1252  | 626   | 1252  | 3130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 78    | 79    | 156   | 313   | 626   | -626  | 626   | 1878  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 2.77  | 1.42  | 1.08  |       | 2.29  | 0.60  |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.05  | 0.05  |       | 0.01  | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 1.32  | 0.69  | 0.48  |       | 0.27  | 0.14  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1.59  | 1.05  | 0.85  |       | 1.89  | 0.46  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.097 | 1.701 | 3.490 |       | 1.272 | 3.334 |



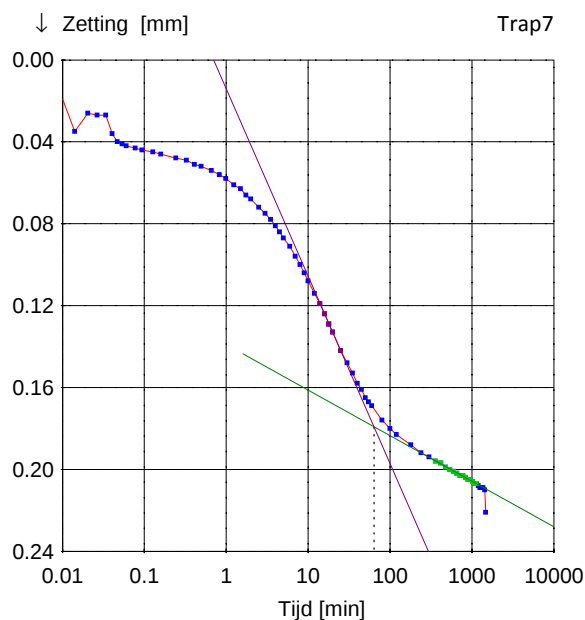
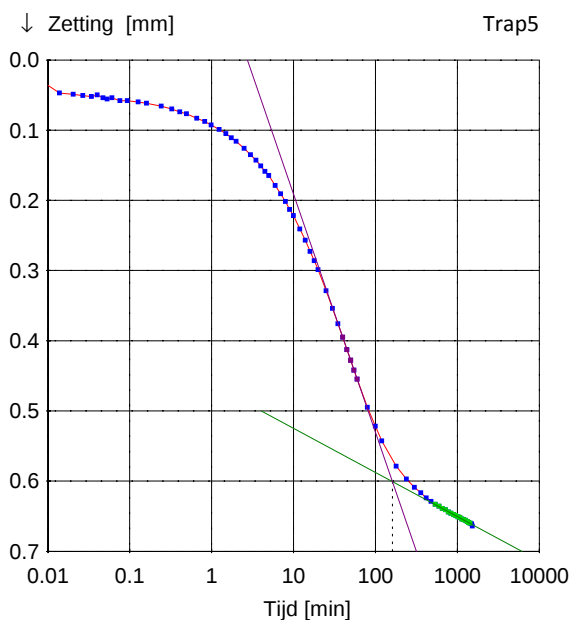
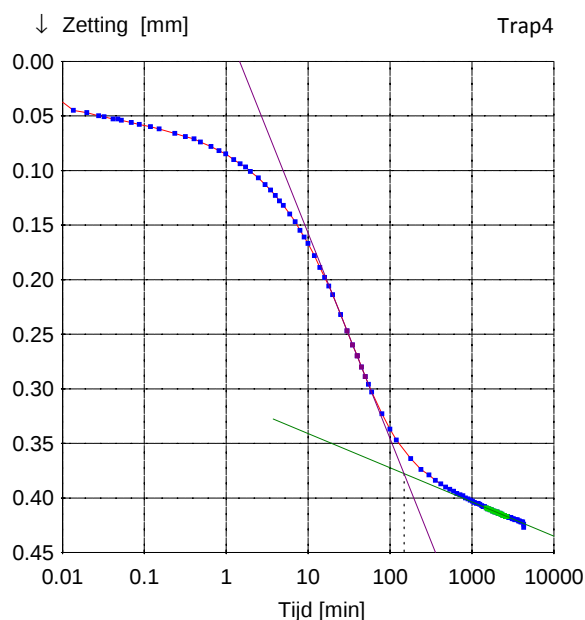
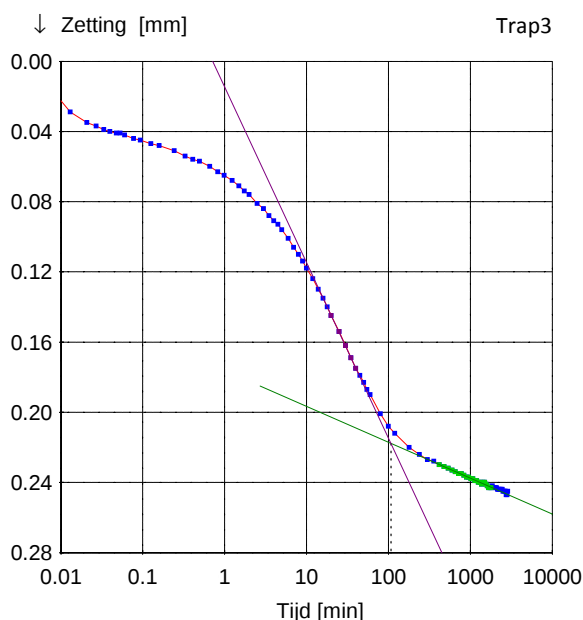
Boring : F Startdatum : 23-09-2019 Diepte : NAP -40.23 / -40.28 m.  
Monster : 6 Einddatum : 07-10-2019 Initieel vol.gew.  $\gamma$  : 20.54 kN/m<sup>3</sup>  
Bus : 6 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 16.74 kN/m<sup>3</sup>  
Apparaat : 23 Zetting (24u) : 0.216 mm Watergehalte W : 23 %  
Soort monster : Ongeroid h (24u) : 18.784 mm Grondsoort : Klei, matig siltig, grijs

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 78    | 157   | 313   | 626   | 1252  | 626   | 1252  | 3130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 78    | 79    | 156   | 313   | 626   | -626  | 626   | 1878  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 2.77  | 1.42  | 1.08  |       | 2.29  | 0.60  |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.05  | 0.05  |       | 0.01  | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 1.32  | 0.69  | 0.48  |       | 0.27  | 0.14  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1.59  | 1.05  | 0.85  |       | 1.89  | 0.46  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.097 | 1.701 | 3.490 |       | 1.272 | 3.334 |



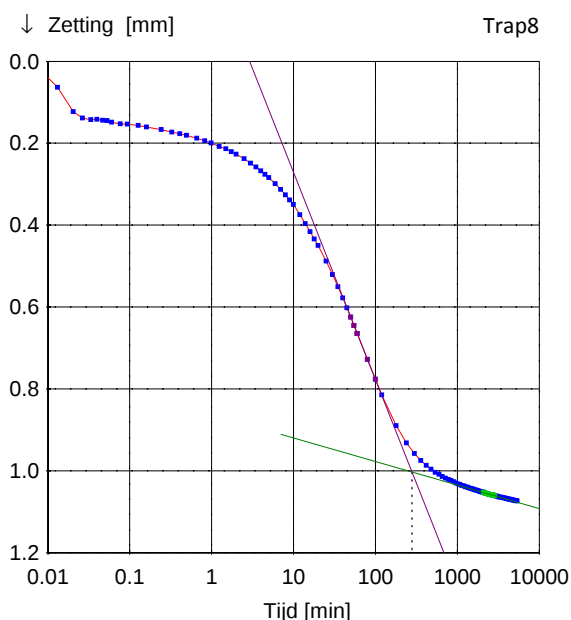
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6        | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23       | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.784 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 78    | 157   | 313   | 626   | 1252  | 626   | 1252  | 3130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 78    | 79    | 156   | 313   | 626   | -626  | 626   | 1878  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 2.77  | 1.42  | 1.08  |       | 2.29  | 0.60  |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.05  | 0.05  |       | 0.01  | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 1.32  | 0.69  | 0.48  |       | 0.27  | 0.14  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1.59  | 1.05  | 0.85  |       | 1.89  | 0.46  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.097 | 1.701 | 3.490 |       | 1.272 | 3.334 |



|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6        | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23       | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroid | h (24u)        | : 18.784 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

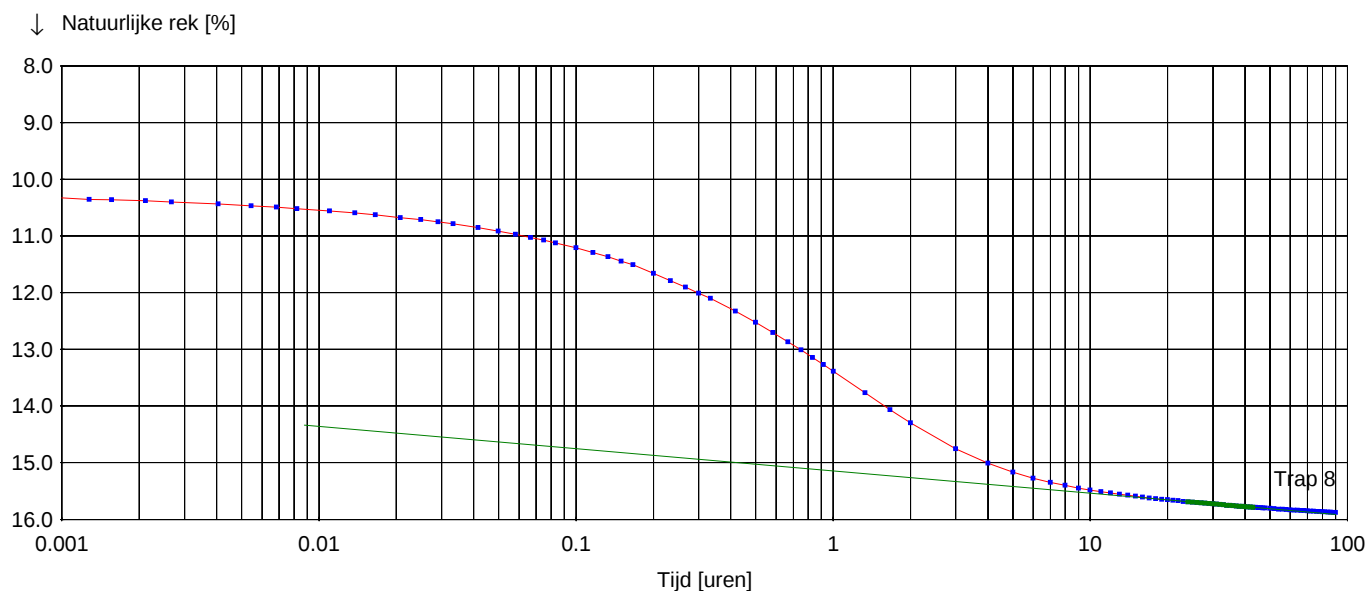
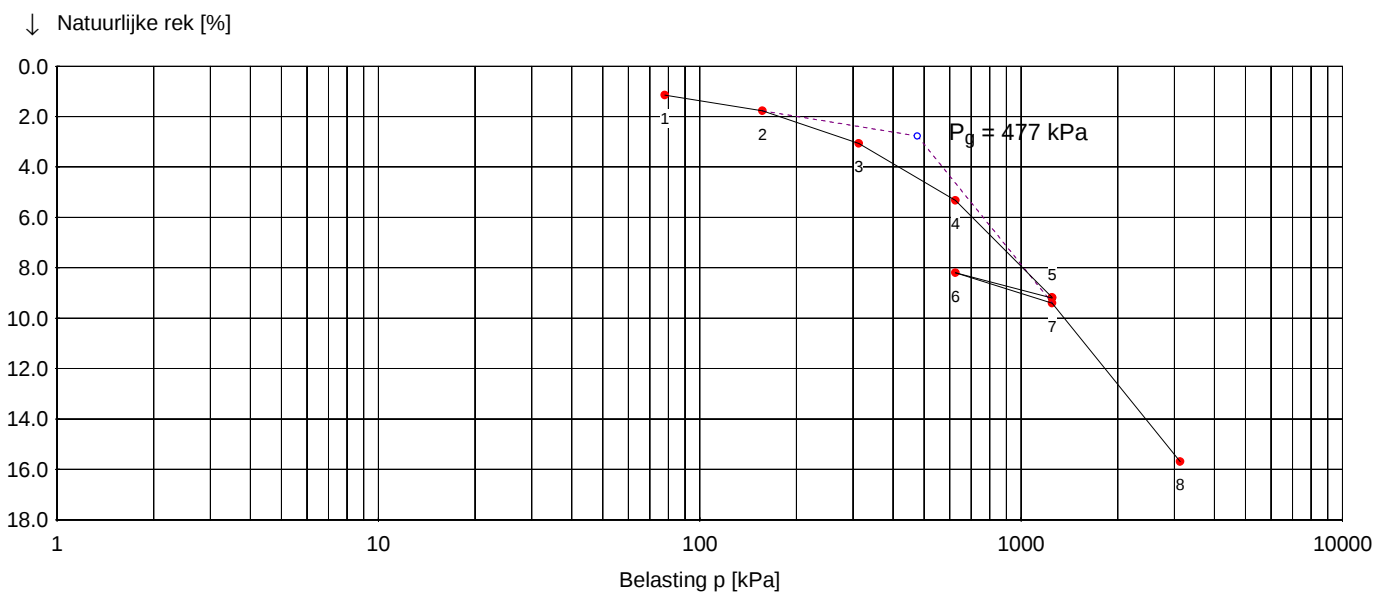
| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 78    | 157   | 313   | 626   | 1252  | 626   | 1252  | 3130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 78    | 79    | 156   | 313   | 626   | -626  | 626   | 1878  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 2.77  | 1.42  | 1.08  |       | 2.29  | 0.60  |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.05  | 0.05  |       | 0.01  | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 1.32  | 0.69  | 0.48  |       | 0.27  | 0.14  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1.59  | 1.05  | 0.85  |       | 1.89  | 0.46  |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.097 | 1.701 | 3.490 |       | 1.272 | 3.334 |



|               |             |                |              |                   |                                         |
|---------------|-------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F         | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6         | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23        | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroerd | h (24u)        | : 18.784 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Belasting         | 78     | 157    | 313    | 626    | 1252   | 626    | 1252   | 3130   |
| a, b              | 0.0091 | 0.0188 | 0.0323 | 0.0539 | 0.0145 | 0.0174 | 0.0679 |        |
| c                 |        |        |        |        | 0.0015 |        | 0.0005 | 0.0017 |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 476.6kPa | a = 0.0174 | b = 0.0679 | c = 0.00171 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 | Trap 8      |



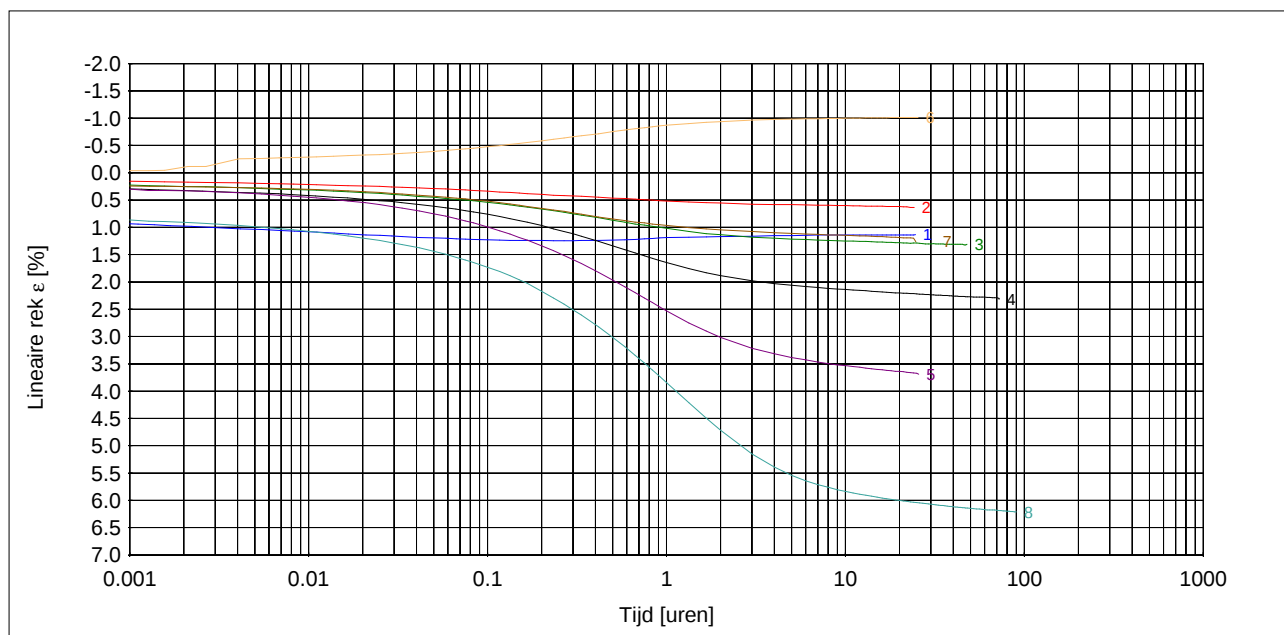
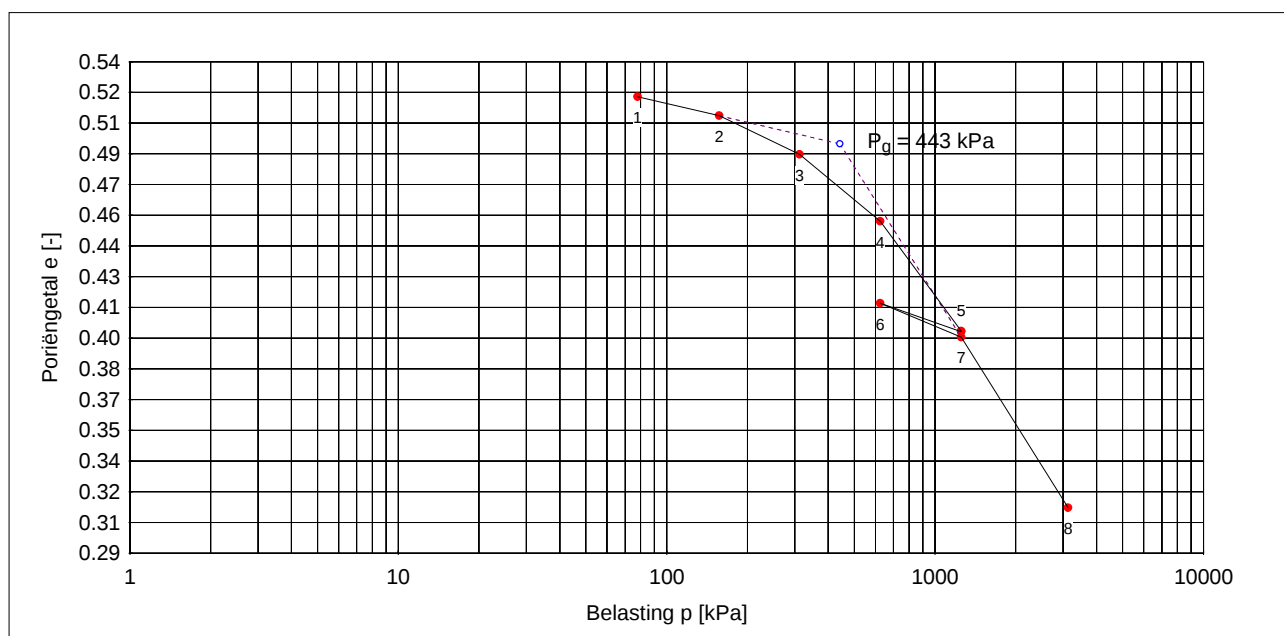
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6        | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23       | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.54       | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen:                         | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7  | Trap8  |
|-------------------------------------------|-------|-------|--------|--------|--------|-------|--------|--------|
| Belasting                                 | 78    | 157   | 313    | 626    | 1252   | 626   | 1252   | 3130   |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.032 | 0.065 | 0.110  | 0.177  | 0.047  | 0.056 | 0.212  |        |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ |       |       | 0.0011 | 0.0017 | 0.0035 |       | 0.0013 | 0.0033 |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.056</math></b> | <b><math>C_c = 0.212</math></b> | <b><math>C_{sw} = 0.047</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0026</math></b> |
| Trap 4, 5                               |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 23-09-2019 | Diepte            | : NAP -40.23 / -40.28 m.                |
| Monster       | : 6        | Einddatum      | : 07-10-2019 | Initieel vol.gew. | $\gamma$ : 20.54 kN/m <sup>3</sup>      |
| Bus           | : 6        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 16.74 kN/m <sup>3</sup> |
| Apparaat      | : 23       | Zetting (24u)  | : 0.216 mm   | Watergehalte      | W : 23 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.54       | Grondsoort        | : Klei, matig siltig, grijs             |

#### Bepaling parameters per trap

|                                         |               |          |          |          |          |          |          |          |
|-----------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                       | 78            | 157      | 313      | 626      | 1252     | 626      | 1252     | 3130     |
| <b>NEN / Bjerrum</b>                    | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$ | 0.0317        | 0.0647   | 0.1096   | 0.1772   | 0.0470   | 0.0564   | 0.2119   |          |
| $CR/RR/SR = C_x / (1 + e_0)$            | 0.0206        | 0.0422   | 0.0713   | 0.1154   | 0.0306   | 0.0367   | 0.1379   |          |
| $C_\alpha = \Delta e / \Delta \log t$   |               |          | 0.0011   | 0.0017   | 0.0035   |          | 0.0013   | 0.0033   |
| <b>KoppeJan</b>                         | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                   | 110.8         | 54.0     | 32.1     | 19.7     | 66.9     | 62.4     | 16.4     |          |
| $C_s$                                   | 983.9         | 1022.1   | 459.9    | 232.5    | 361.3    | 707.3    | 311.3    |          |
| $C_{10^4}$                              | 76.4          | 44.6     | 25.1     | 14.7     | 38.4     | 46.1     | 13.6     |          |
| <b>Taylor / Casagrande</b>              | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v [10^{-8} m^2/s]$ (Taylor)          |               |          | 2.77     | 1.42     | 1.08     |          | 2.29     | 0.60     |
| $m_v [1/MPa]$                           |               |          | 0.05     | 0.05     | 0.05     |          | 0.01     | 0.02     |
| $k_{10} [10^{-11} m/s]$                 |               |          | 1.32     | 0.69     | 0.48     |          | 0.27     | 0.14     |
| $c_v [10^{-8} m^2/s]$ (Casagrande)      |               |          | 1.59     | 1.05     | 0.85     |          | 1.89     | 0.46     |
| <b>Isotachen</b>                        | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                    | 0.0091        | 0.0188   | 0.0323   | 0.0539   | 0.0145   | 0.0174   | 0.0679   |          |
| c                                       |               |          |          |          | 0.0015   |          | 0.0005   | 0.0017   |

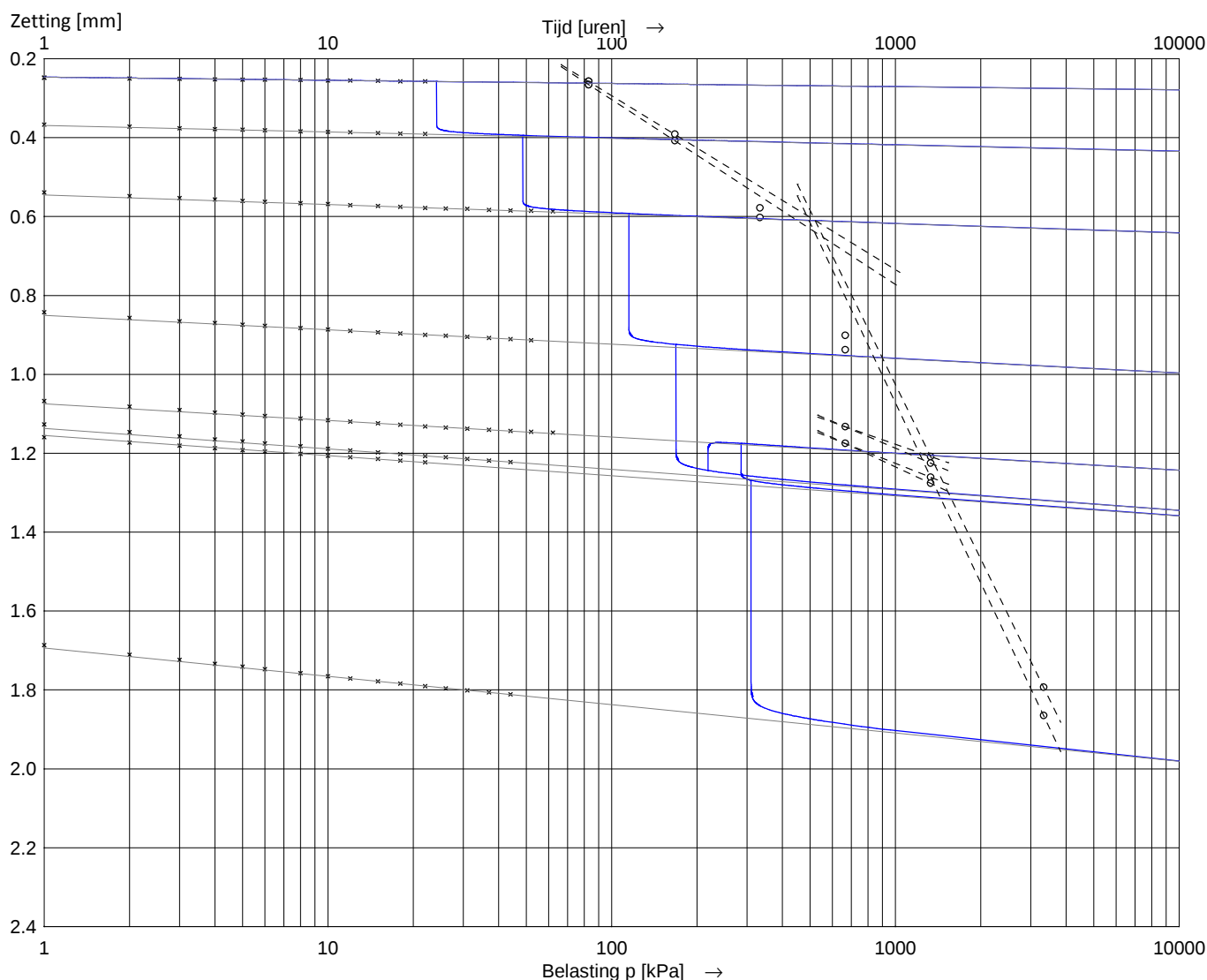
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                     |                                                       |                                                    |                                                                 |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                  | <b>Trap 4, 5</b>                                                |
| $P_g = 442.6$        | $C_r = 0.0564$<br>$RR = 0.0367$                     | $C_c = 0.2119$<br>$CR = 0.1379$                       | $C_{sw} = 0.0470$<br>$SR = 0.0306$                 | $C_\alpha = 0.0026$                                             |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                  | <b>Trap 6 - 7</b>                                               |
| $P_g = 410.4$        | $C_p = 110.8$<br>$C_s = 983.9$<br>$C_{10^4} = 76.4$ | $C_p' = 17.5$<br>$C_s' = 327.8$<br>$C_{10^4}' = 14.4$ | $A_p = 66.9$<br>$A_s = 361.3$<br>$A_{10^4} = 38.4$ | $C_{p(r)} = 62.4$<br>$C_{s(r)} = 707.3$<br>$C_{10^4(r)} = 46.1$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 8</b>                                      |                                                                 |
| $P_g = 476.6$        | a = 0.0174                                          | b = 0.0679                                            | c = 0.0017                                         |                                                                 |

|               |             |                |              |                   |                                         |
|---------------|-------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F         | Startdatum     | : 02-10-2019 | Diepte            | : NAP -42.19 / -42.24 m.                |
| Monster       | : 7a        | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 20.77 kN/m <sup>3</sup>      |
| Bus           | : 7         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat      | : 21        | Zetting (24u)  | : 0.257 mm   | Watergehalte      | W : 17 %                                |
| Soort monster | : Ongeroerd | h (24u)        | : 18.743 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

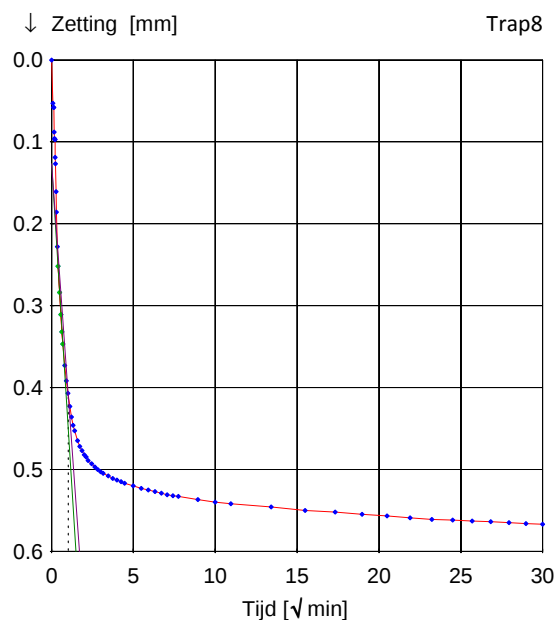
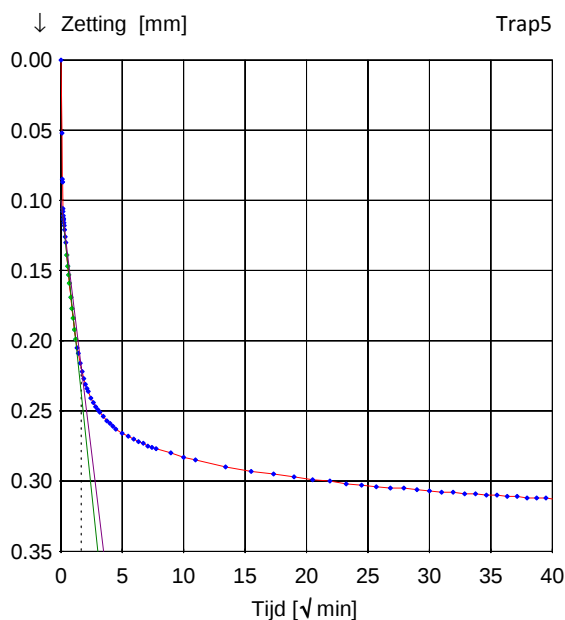
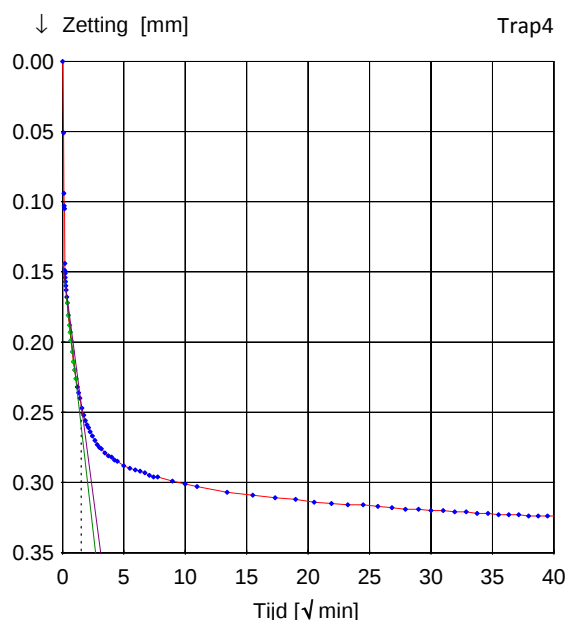
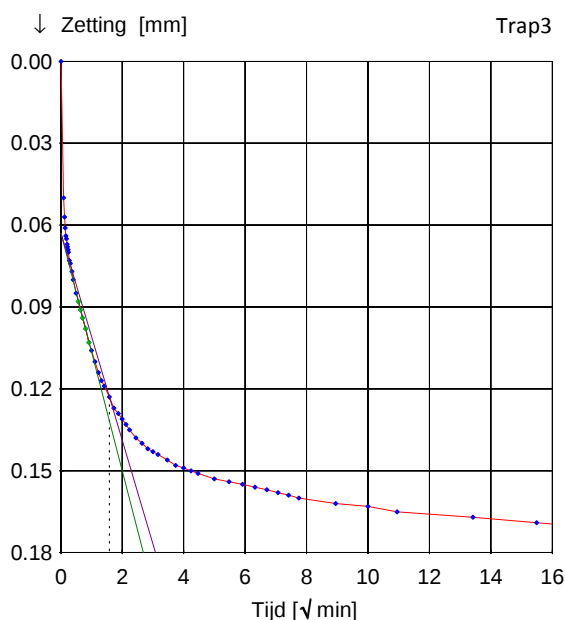
| Belastingtrappen:              | Trap1  | Trap2  | Trap3  | Trap4 | Trap5  | Trap6  | Trap7 | Trap8 |
|--------------------------------|--------|--------|--------|-------|--------|--------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 83     | 167    | 333    | 666   | 1332   | 666    | 1332  | 3330  |
| C <sub>p</sub>                 | 97.4   | 68.9   | 40.1   | 42.0  | 170.7  | 140.4  | 30.1  |       |
| C <sub>s</sub>                 | 1559.1 | 1682.5 | 1033.9 | 839.2 | 1301.1 | 1433.7 | 829.9 |       |
| C <sub>10<sup>4</sup></sub>    | 77.9   | 59.2   | 34.7   | 35.0  | 112.0  | 100.9  | 26.3  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                           | Herbelasten                         | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--------------|----------------|
| 519 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 97.4              | C <sub>p</sub> ' = 29.3              | C <sub>p</sub> = 170.7              | C <sub>p</sub> = 140.4              |              |                |
|                              | C <sub>s</sub> = 1559.1            | C <sub>s</sub> ' = 868.6             | C <sub>s</sub> = 1301.1             | C <sub>s</sub> = 1433.7             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 77.9 | C <sub>10<sup>4</sup></sub> ' = 25.8 | C <sub>10<sup>4</sup></sub> = 112.0 | C <sub>10<sup>4</sup></sub> = 100.9 |              |                |



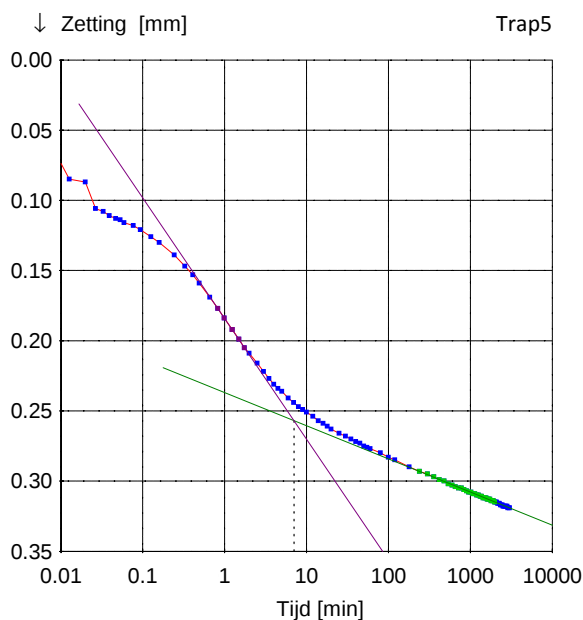
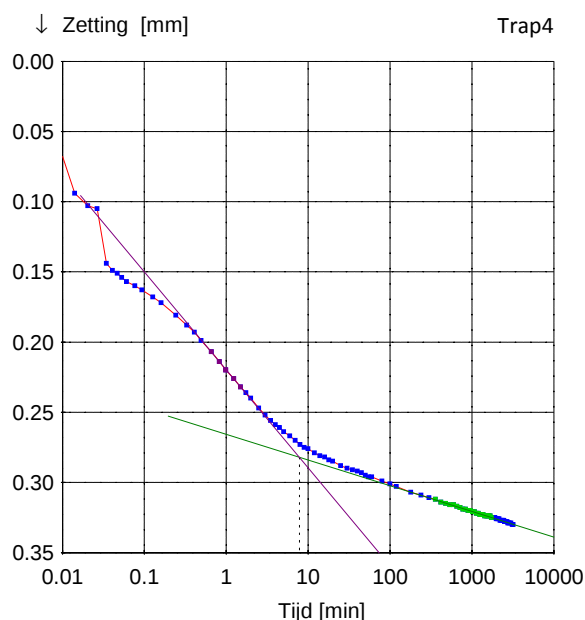
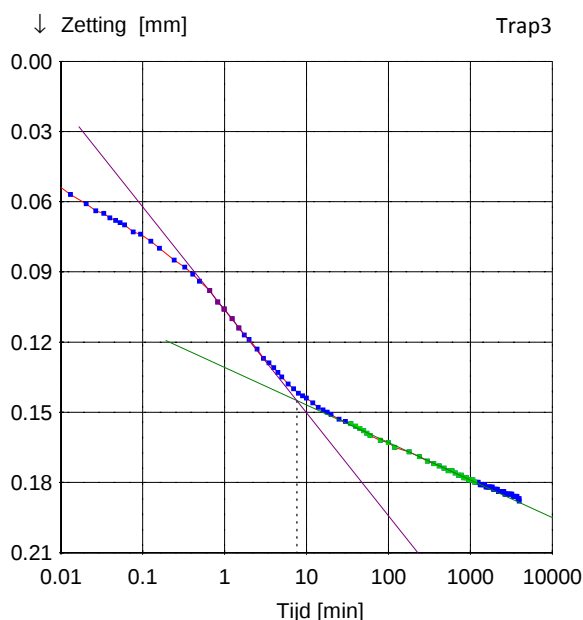
|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 02-10-2019   | Diepte : NAP -42.19 / -42.24 m.                        |
| Monster : 7a             | Einddatum : 17-10-2019    | Initieel vol.gew. $\gamma$ : 20.77 kN/m <sup>3</sup>   |
| Bus : 7                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat : 21            | Zetting (24u) : 0.257 mm  | Watergehalte W : 17 %                                  |
| Soort monster : Ongeroid | h (24u) : 18.743 mm       | Grondsoort : Klei, matig siltig, grijs                 |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3   | Trap4  | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|---------|--------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 83    | 167   | 333     | 666    | 1332   | 666   | 1332  | 3330  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 83    | 84    | 166     | 333    | 666    | -666  | 666   | 1998  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 36.43   | 37.89  | 31.37  |       |       | 75.26 |
| $m_v$ [1/MPa]                                         |       |       | 0.02    | 0.02   | 0.01   |       |       | 0.01  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 7.74    | 6.85   | 3.39   |       |       | 6.65  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1137.77 | 687.88 | 130.42 |       |       |       |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8631  | 0.9936 | 1.308  |       |       |       |



|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 02-10-2019   | Diepte : NAP -42.19 / -42.24 m.                        |
| Monster : 7a             | Einddatum : 17-10-2019    | Initieel vol.gew. $\gamma$ : 20.77 kN/m <sup>3</sup>   |
| Bus : 7                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat : 21            | Zetting (24u) : 0.257 mm  | Watergehalte W : 17 %                                  |
| Soort monster : Ongeroid | h (24u) : 18.743 mm       | Grondsoort : Klei, matig siltig, grijs                 |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3   | Trap4  | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|---------|--------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 83    | 167   | 333     | 666    | 1332   | 666   | 1332  | 3330  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 83    | 84    | 166     | 333    | 666    | -666  | 666   | 1998  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 36.43   | 37.89  | 31.37  |       |       | 75.26 |
| $m_v$ [1/MPa]                                         |       |       | 0.02    | 0.02   | 0.01   |       |       | 0.01  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 7.74    | 6.85   | 3.39   |       |       | 6.65  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 1137.77 | 687.88 | 130.42 |       |       |       |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 0.8631  | 0.9936 | 1.308  |       |       |       |



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Project : The View fase 2 Jumbo

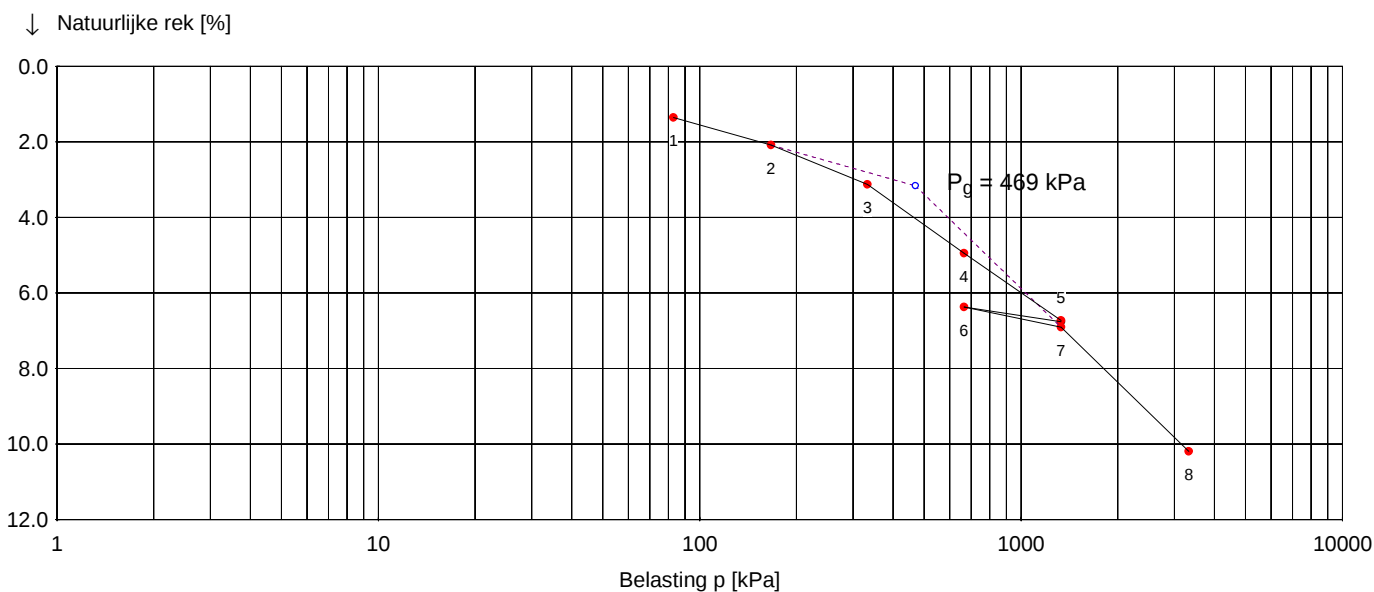
# SAMENDRUKKINGSPROEF

Isotachen

|               |             |                |              |                   |                                         |
|---------------|-------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F         | Startdatum     | : 02-10-2019 | Diepte            | : NAP -42.19 / -42.24 m.                |
| Monster       | : 7a        | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 20.77 kN/m <sup>3</sup>      |
| Bus           | : 7         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat      | : 21        | Zetting (24u)  | : 0.257 mm   | Watergehalte      | W : 17 %                                |
| Soort monster | : Ongeroerd | h (24u)        | : 18.743 mm  | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 83     | 167    | 333    | 666    | 1332   | 666    | 1332   | 3330  |
| a, b              | 0.0104 | 0.0142 | 0.0256 | 0.0251 | 0.0057 | 0.0076 | 0.0358 |       |
| c                 |        |        |        |        |        |        |        |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 469.2kPa | a = 0.0076 | b = 0.0000 | c = 0.00000 |
|                       |          | Trap 6 - 7 |            |             |



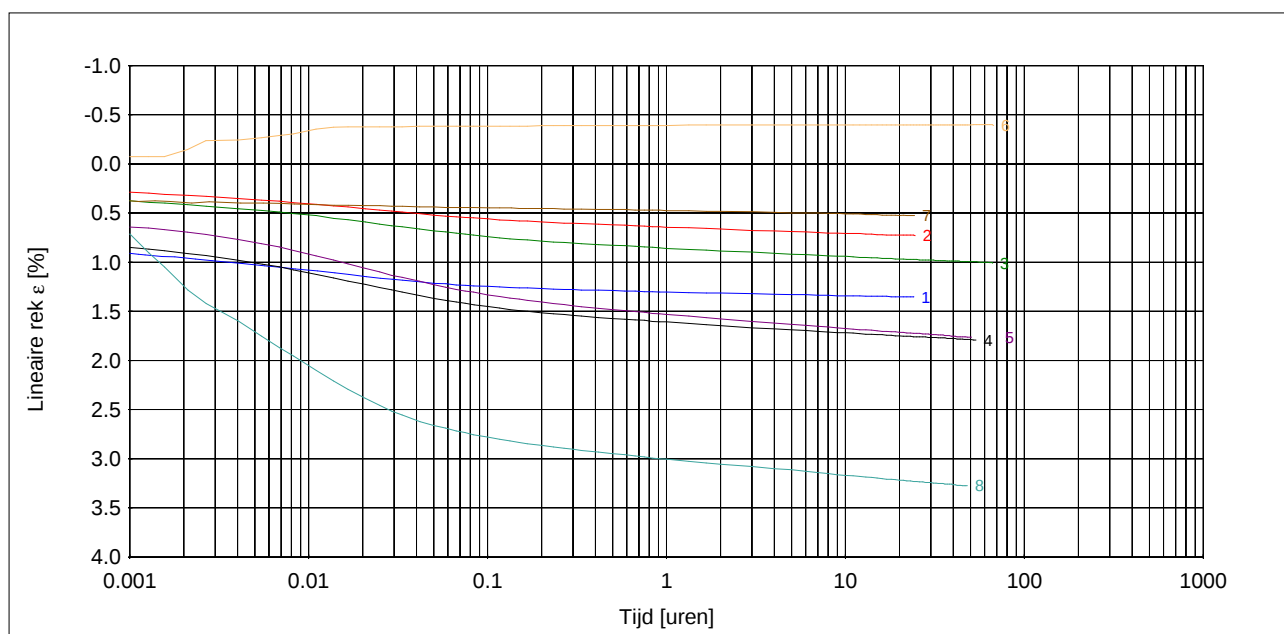
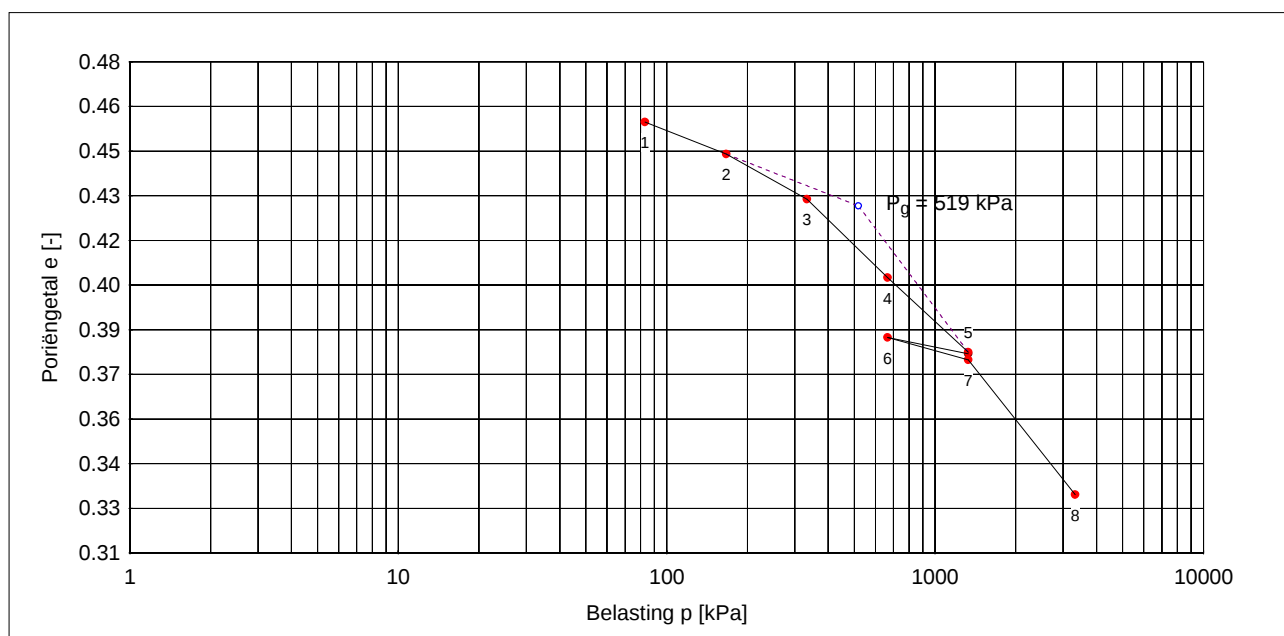
|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 02-10-2019 | Diepte            | : NAP -42.19 / -42.24 m.                |
| Monster       | : 7a       | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 20.77 kN/m <sup>3</sup>      |
| Bus           | : 7        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat      | : 21       | Zetting (24u)  | : 0.257 mm   | Watergehalte      | W : 17 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.48       | Grondsoort        | : Klei, matig siltig, grijs             |

| Belastingtrappen:                                | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7 | Trap8 |
|--------------------------------------------------|-------|-------|--------|--------|--------|-------|-------|-------|
| Belasting                                        | 83    | 167   | 333    | 666    | 1332   | 666   | 1332  | 3330  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$          | 0.035 | 0.047 | 0.084  | 0.081  | 0.018  | 0.024 | 0.112 |       |
| $C_{\alpha}^* = \Delta \epsilon / \Delta \log t$ |       |       | 0.0009 | 0.0010 | 0.0013 |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.024</math></b> | <b><math>C_c = 0.112</math></b> | <b><math>C_{sw} = 0.018</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0012</math></b> |
| Trap 4, 5                               |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 02-10-2019 | Diepte            | : NAP -42.19 / -42.24 m.                |
| Monster       | : 7a       | Einddatum      | : 17-10-2019 | Initieel vol.gew. | $\gamma$ : 20.77 kN/m <sup>3</sup>      |
| Bus           | : 7        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 17.75 kN/m <sup>3</sup> |
| Apparaat      | : 21       | Zetting (24u)  | : 0.257 mm   | Watergehalte      | W : 17 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.48       | Grondsoort        | : Klei, matig siltig, grijs             |

#### Bepaling parameters per trap

|                                         |               |          |          |          |          |          |          |          |
|-----------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                       | 83            | 167      | 333      | 666      | 1332     | 666      | 1332     | 3330     |
| <b>NEN / Bjerrum</b>                    | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$ | 0.0348        | 0.0469   | 0.0837   | 0.0806   | 0.0181   | 0.0243   | 0.1119   |          |
| $CR/RR/SR = C_x / (1 + e_0)$            | 0.0236        | 0.0318   | 0.0566   | 0.0545   | 0.0122   | 0.0164   | 0.0758   |          |
| $C_\alpha = \Delta e / \Delta \log t$   |               |          | 0.0009   | 0.0010   | 0.0013   |          |          |          |
| <b>KoppeJan</b>                         | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                   | 97.4          | 68.9     | 40.1     | 42.0     | 170.7    | 140.4    | 30.1     |          |
| $C_s$                                   | 1559.1        | 1682.5   | 1033.9   | 839.2    | 1301.1   | 1433.7   | 829.9    |          |
| $C_{10^4}$                              | 77.9          | 59.2     | 34.7     | 35.0     | 112.0    | 100.9    | 26.3     |          |
| <b>Taylor / Casagrande</b>              | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v [10^{-8} m^2/s]$ (Taylor)          |               |          | 36.43    | 37.89    | 31.37    |          |          | 75.26    |
| $m_v [1/MPa]$                           |               |          | 0.02     | 0.02     | 0.01     |          |          | 0.01     |
| $k_{10} [10^{-11} m/s]$                 |               |          | 7.74     | 6.85     | 3.39     |          |          | 6.65     |
| $c_v [10^{-8} m^2/s]$ (Casagrande)      |               |          | 1137.77  | 687.88   | 130.42   |          |          |          |
| <b>Isotachen</b>                        | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                    | 0.0104        | 0.0142   | 0.0256   | 0.0251   | 0.0057   | 0.0076   | 0.0358   |          |
| c                                       |               |          |          |          |          |          |          |          |

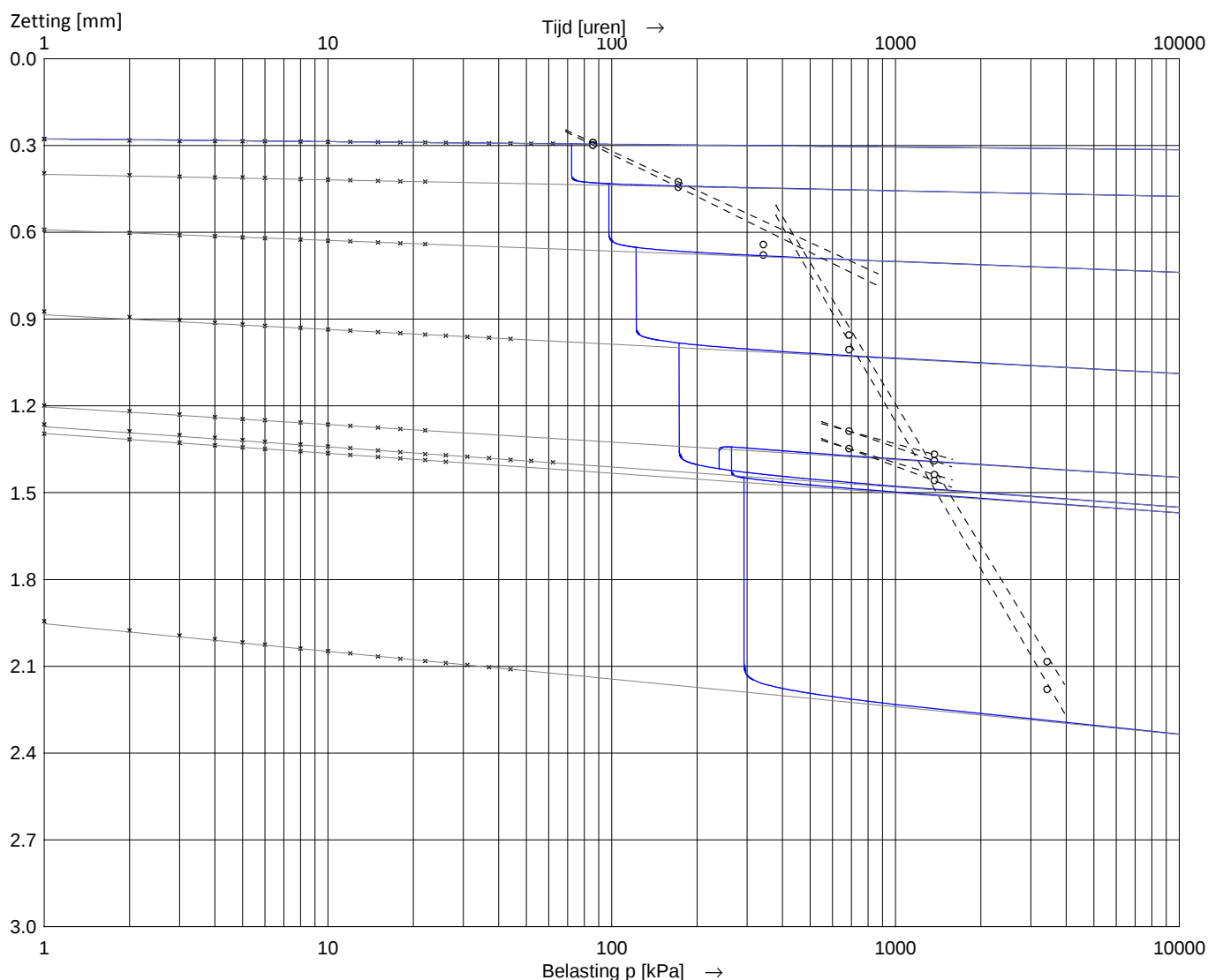
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                     |                                                       |                                                       |                                                                    |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                     | <b>Trap 4, 5</b>                                                   |
| $P_g = 518.9$        | $C_r = 0.0243$<br>$RR = 0.0164$                     | $C_c = 0.1119$<br>$CR = 0.0758$                       | $C_{sw} = 0.0181$<br>$SR = 0.0122$                    | $C_\alpha = 0.0012$                                                |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 5, 8</b>                                      | <b>Trap 5 - 6</b>                                     | <b>Trap 6 - 7</b>                                                  |
| $P_g = 519.0$        | $C_p = 97.4$<br>$C_s = 1559.1$<br>$C_{10^4} = 77.9$ | $C_p' = 29.3$<br>$C_s' = 868.6$<br>$C_{10^4}' = 25.8$ | $A_p = 170.7$<br>$A_s = 1301.1$<br>$A_{10^4} = 112.0$ | $C_{p(r)} = 140.4$<br>$C_{s(r)} = 1433.7$<br>$C_{10^4(r)} = 100.9$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 3, 7 - 8</b>                                  | <b>Trap</b>                                           |                                                                    |
| $P_g = 469.2$        | a = 0.0076                                          | b = --                                                | c = --                                                |                                                                    |

Boring : F Startdatum : 27-09-2019 Diepte : NAP -43.21 / -43.26 m.  
Monster : 8 Einddatum : 11-10-2019 Initieel vol.gew.  $\gamma$  : 20.55 kN/m<sup>3</sup>  
Bus : 8 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 14.46 kN/m<sup>3</sup>  
Apparaat : 20 Zetting (24u) : 0.290 mm Watergehalte W : 42 %  
Soort monster : Ongeroid h (24u) : 18.710 mm Grondsoort : Klei, zwak zandig (zeer fijn), grijs

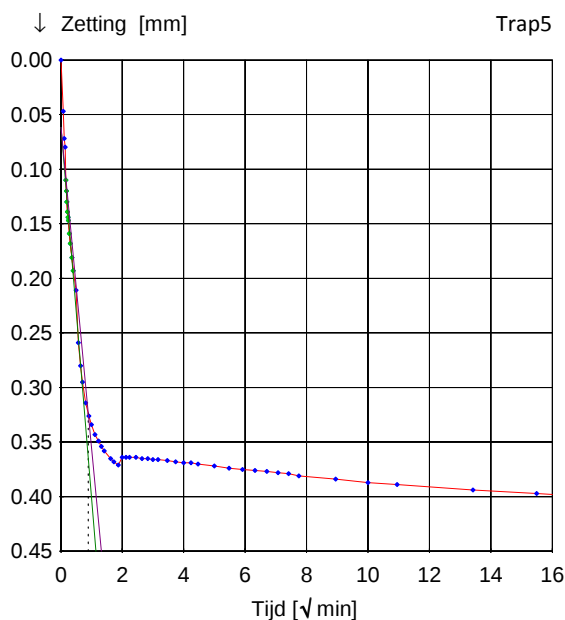
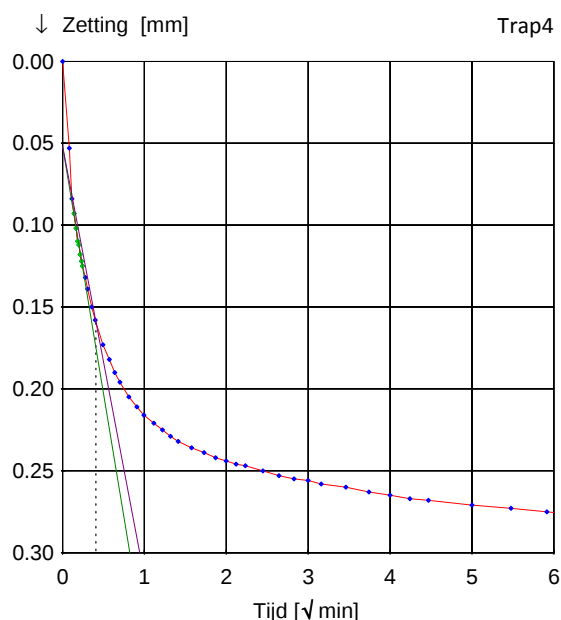
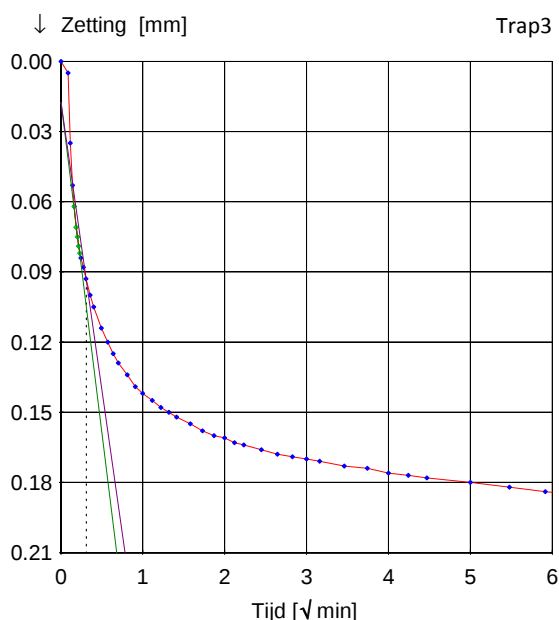
| Belastingtrappen:              | Trap1  | Trap2 | Trap3 | Trap4 | Trap5  | Trap6  | Trap7 | Trap8 |
|--------------------------------|--------|-------|-------|-------|--------|--------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 86     | 172   | 343   | 686   | 1372   | 686    | 1372  | 3430  |
| C <sub>p</sub>                 | 94.9   | 59.4  | 41.3  | 31.3  | 159.6  | 125.3  | 24.6  |       |
| C <sub>s</sub>                 | 1319.8 | 720.4 | 925.5 | 685.3 | 1471.6 | 1675.8 | 631.3 |       |
| C <sub>10<sup>4</sup></sub>    | 73.7   | 44.7  | 35.0  | 26.4  | 111.3  | 96.4   | 21.3  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                           | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|--------------|----------------|
| 435 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 94.9              | C <sub>p</sub> ' = 26.4              | C <sub>p</sub> = 159.6              | C <sub>p</sub> = 125.3             |              |                |
|                              | C <sub>s</sub> = 1319.8            | C <sub>s</sub> ' = 668.4             | C <sub>s</sub> = 1471.6             | C <sub>s</sub> = 1675.8            |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 73.7 | C <sub>10<sup>4</sup></sub> ' = 22.8 | C <sub>10<sup>4</sup></sub> = 111.3 | C <sub>10<sup>4</sup></sub> = 96.4 |              |                |



|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 27-09-2019   | Diepte : NAP -43.21 / -43.26 m.                        |
| Monster : 8              | Einddatum : 11-10-2019    | Initieel vol.gew. $\gamma$ : 20.55 kN/m <sup>3</sup>   |
| Bus : 8                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 14.46 kN/m <sup>3</sup> |
| Apparaat : 20            | Zetting (24u) : 0.290 mm  | Watergehalte W : 42 %                                  |
| Soort monster : Ongeroid | h (24u) : 18.710 mm       | Grondsoort : Klei, zwak zandig (zeer fijn), grijs      |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|--------|--------|--------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 86    | 172   | 343    | 686    | 1372   | 686   | 1372  | 3430  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 86    | 86    | 171    | 343    | 686    | -686  | 686   | 2058  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 947.87 | 524.32 | 106.23 |       |       |       |
| $m_v$ [1/MPa]                                         |       |       | 0.03   | 0.02   | 0.02   |       |       |       |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 247.32 | 98.12  | 24.58  |       |       |       |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       |        |        |        |       |       |       |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       |        |        |        |       |       |       |



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Plaats : Rotterdam  
Project : The View fase 2 Jumbo

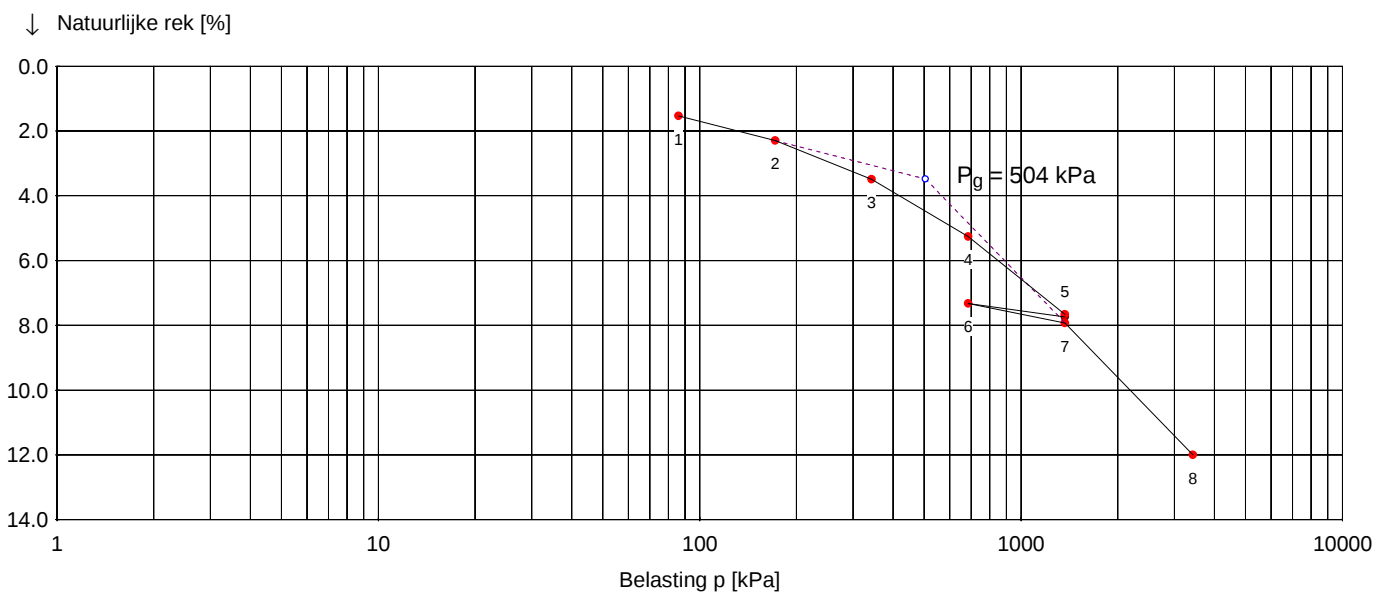
## SAMENDRUKKINGSPROEF

Isotachen

|               |           |                |              |                              |                                        |
|---------------|-----------|----------------|--------------|------------------------------|----------------------------------------|
| Boring        | : F       | Startdatum     | : 27-09-2019 | Diepte                       | : NAP -43.21 / -43.26 m.               |
| Monster       | : 8       | Einddatum      | : 11-10-2019 | Initieel vol.gew. $\gamma$   | : 20.55 kN/m <sup>3</sup>              |
| Bus           | : 8       | Hoogte monster | : 19.00 mm   | Droog vol.gew. $\gamma_{dr}$ | : 14.46 kN/m <sup>3</sup>              |
| Apparaat      | : 20      | Zetting (24u)  | : 0.290 mm   | Watergehalte W               | : 42 %                                 |
| Soort monster | : Ongerod | h (24u)        | : 18.710 mm  | Grondsoort                   | : Klei, zwak zandig (zeer fijn), grijs |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 86     | 172    | 343    | 686    | 1372   | 686    | 1372   | 3430  |
| a, b              | 0.0106 | 0.0172 | 0.0255 | 0.0341 | 0.0061 | 0.0087 | 0.0444 |       |
| c                 |        |        |        |        |        |        |        |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 504.4kPa | a = 0.0087 | b = 0.0444 | c = 0.00000 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 |             |



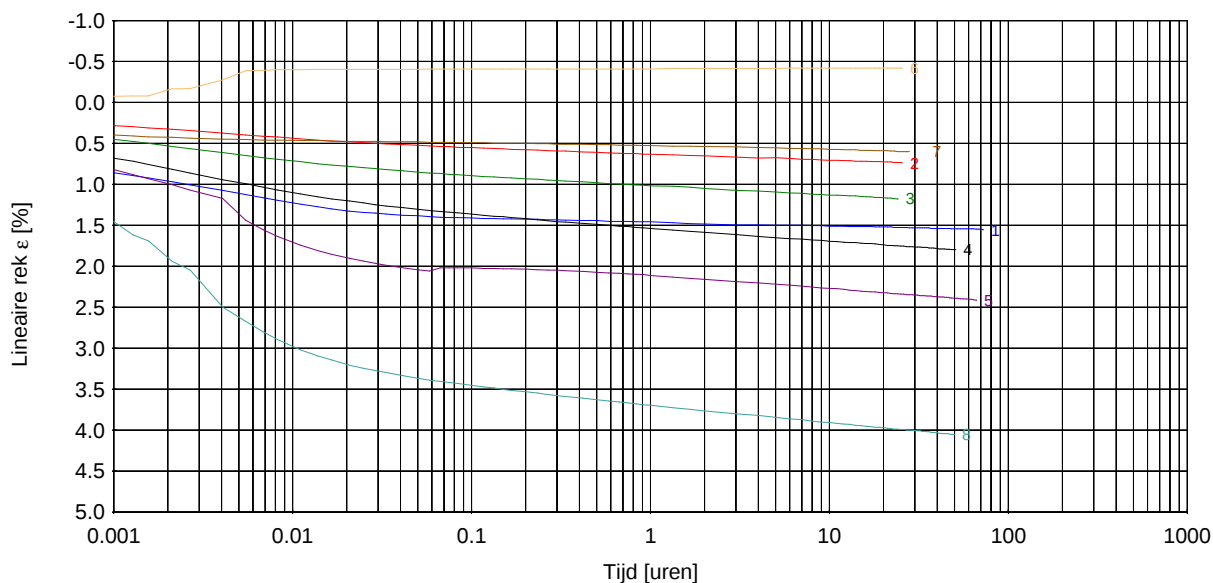
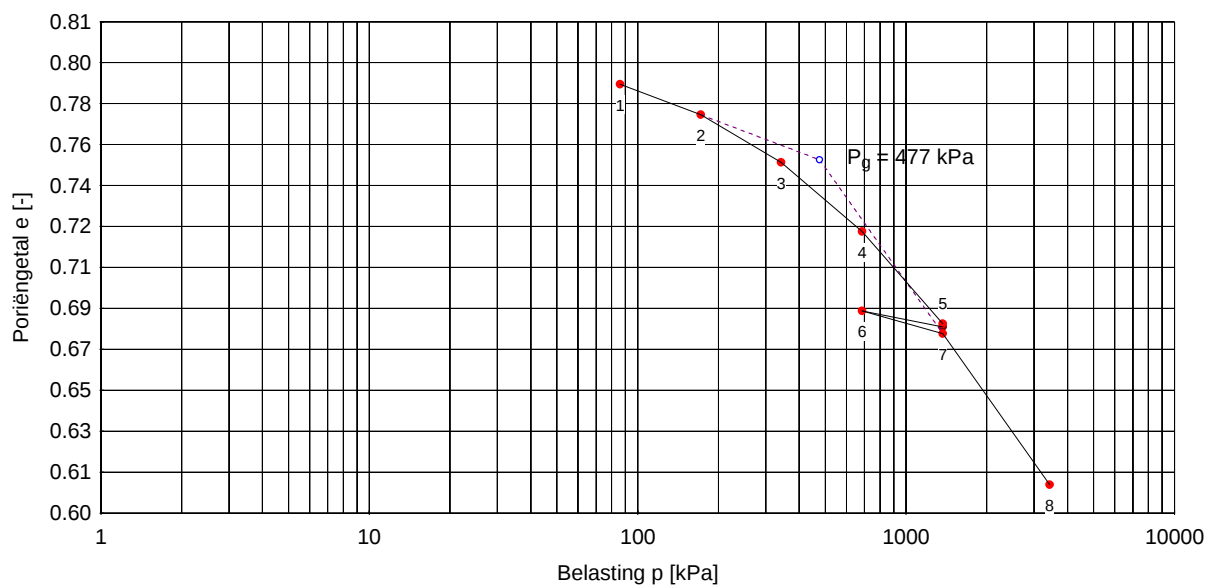
Boring : F Startdatum : 27-09-2019 Diepte : NAP -43.21 / -43.26 m.  
Monster : 8 Einddatum : 11-10-2019 Initieel vol.gew.  $\gamma$  : 20.55 kN/m<sup>3</sup>  
Bus : 8 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 14.46 kN/m<sup>3</sup>  
Apparaat : 20 Zetting (24u) : 0.290 mm Watergehalte W : 42 %  
Soort monster : Ongeroid  $e_0$  : 0.81 Grondsoort : Klei, zwak zandig (zeer fijn), grijs

| Belastingtrappen:                                | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting                                        | 86    | 172   | 343   | 686   | 1372  | 686   | 1372  | 3430  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$          | 0.043 | 0.070 | 0.102 | 0.134 | 0.023 | 0.034 | 0.168 |       |
| $C_{\alpha}^* = \Delta \epsilon / \Delta \log t$ |       |       |       |       |       |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.034</math></b> | <b><math>C_c = 0.168</math></b> | <b><math>C_{sw} = 0.023</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                  |
|----------------------------------|
| <b><math>C_{\alpha} =</math></b> |
|                                  |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                         |
|---------------|------------|----------------|--------------|-------------------|-----------------------------------------|
| Boring        | : F        | Startdatum     | : 27-09-2019 | Diepte            | : NAP -43.21 / -43.26 m.                |
| Monster       | : 8        | Einddatum      | : 11-10-2019 | Initieel vol.gew. | $\gamma$ : 20.55 kN/m <sup>3</sup>      |
| Bus           | : 8        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 14.46 kN/m <sup>3</sup> |
| Apparaat      | : 20       | Zetting (24u)  | : 0.290 mm   | Watergehalte      | W : 42 %                                |
| Soort monster | : Ongeroid | $e_0$          | : 0.81       | Grondsoort        | : Klei, zwak zandig (zeer fijn), grijs  |

**Bepaling parameters per trap**

|                                         |               |          |          |          |          |          |          |          |
|-----------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                       | 86            | 172      | 343      | 686      | 1372     | 686      | 1372     | 3430     |
| <b>NEN / Bjerrum</b>                    | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$ | 0.0434        | 0.0697   | 0.1018   | 0.1335   | 0.0235   | 0.0336   | 0.1679   |          |
| $CR/RR/SR = C_x / (1 + e_0)$            | 0.0240        | 0.0385   | 0.0561   | 0.0736   | 0.0129   | 0.0185   | 0.0926   |          |
| $C_\alpha = \Delta e / \Delta \log t$   |               |          |          |          |          |          |          |          |
| <b>KoppeJan</b>                         | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                   | 94.9          | 59.4     | 41.3     | 31.3     | 159.6    | 125.3    | 24.6     |          |
| $C_s$                                   | 1319.8        | 720.4    | 925.5    | 685.3    | 1471.6   | 1675.8   | 631.3    |          |
| $C_{10^4}$                              | 73.7          | 44.7     | 35.0     | 26.4     | 111.3    | 96.4     | 21.3     |          |
| <b>Taylor / Casagrande</b>              | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v [10^{-8} m^2/s]$ (Taylor)          |               |          | 947.87   | 524.32   | 106.23   |          |          |          |
| $m_v [1/MPa]$                           |               |          | 0.03     | 0.02     | 0.02     |          |          |          |
| $k_{10} [10^{-11} m/s]$                 |               |          | 247.32   | 98.12    | 24.58    |          |          |          |
| $c_v [10^{-8} m^2/s]$ (Casagrande)      |               |          |          |          |          |          |          |          |
| <b>Isotachen</b>                        | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                    | 0.0106        | 0.0172   | 0.0255   | 0.0341   | 0.0061   | 0.0087   | 0.0444   |          |
| c                                       |               |          |          |          |          |          |          |          |

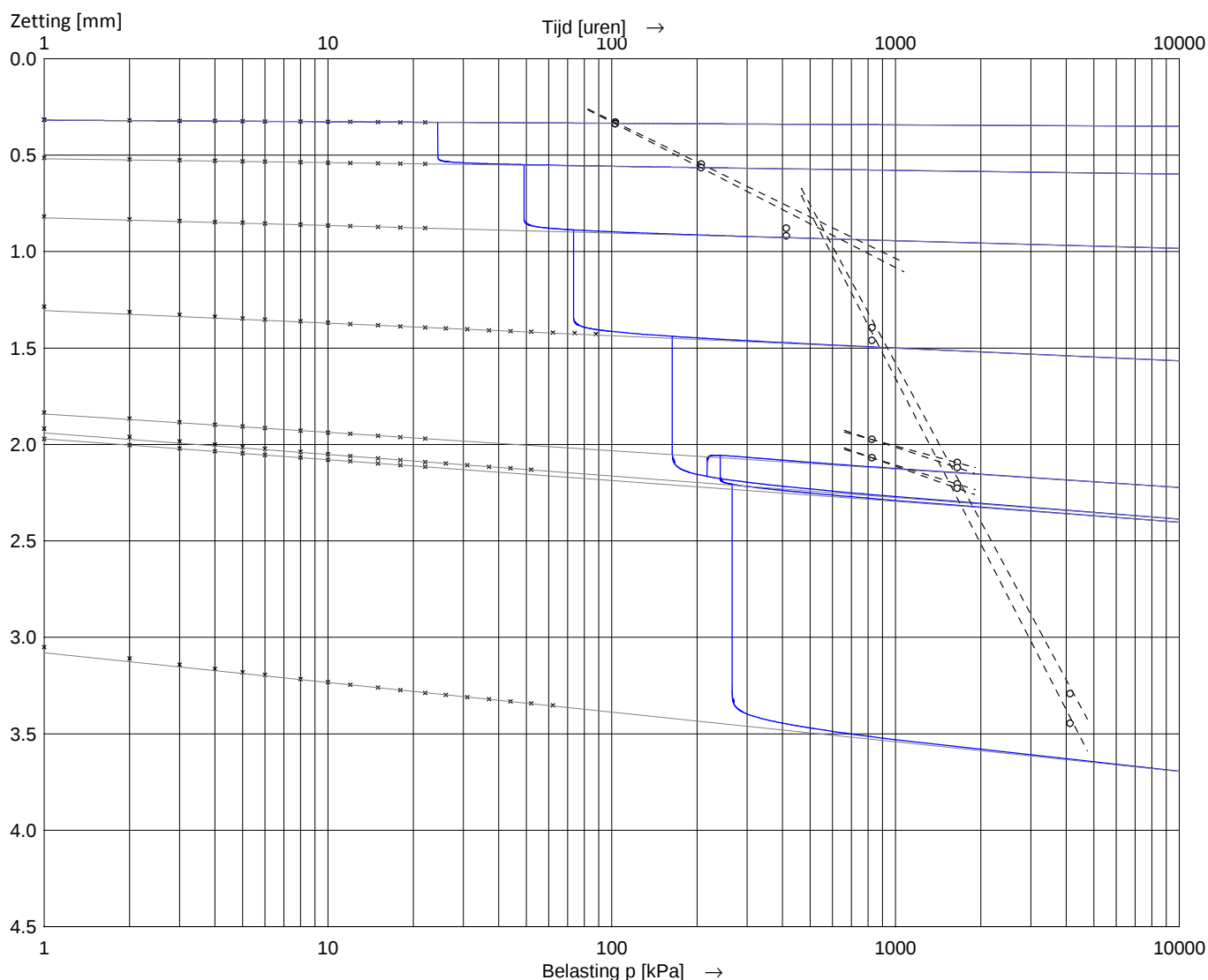
**Bepaling  $P_g$  en parameters op basis van geselecteerde trappen**

|                      |                                                     |                                                       |                                                       |                                                                   |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                     | <b>Trap</b>                                                       |
| $P_g = 477.1$        | $C_r = 0.0336$<br>$RR = 0.0185$                     | $C_c = 0.1679$<br>$CR = 0.0926$                       | $C_{sw} = 0.0235$<br>$SR = 0.0129$                    | $C_\alpha = --$                                                   |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                     | <b>Trap 6 - 7</b>                                                 |
| $P_g = 434.6$        | $C_p = 94.9$<br>$C_s = 1319.8$<br>$C_{10^4} = 73.7$ | $C_p' = 26.4$<br>$C_s' = 668.4$<br>$C_{10^4}' = 22.8$ | $A_p = 159.6$<br>$A_s = 1471.6$<br>$A_{10^4} = 111.3$ | $C_{p(r)} = 125.3$<br>$C_{s(r)} = 1675.8$<br>$C_{10^4(r)} = 96.4$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap</b>                                           |                                                                   |
| $P_g = 504.4$        | a = 0.0087                                          | b = 0.0444                                            | c = --                                                |                                                                   |

|               |             |                |              |                   |                                           |
|---------------|-------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F         | Startdatum     | : 30-09-2019 | Diepte            | : NAP -50.27 / -50.32 m.                  |
| Monster       | : 9         | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 19.08 kN/m <sup>3</sup>        |
| Bus           | : 9         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup>   |
| Apparaat      | : 27        | Zetting (24u)  | : 0.329 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroerd | h (24u)        | : 18.671 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

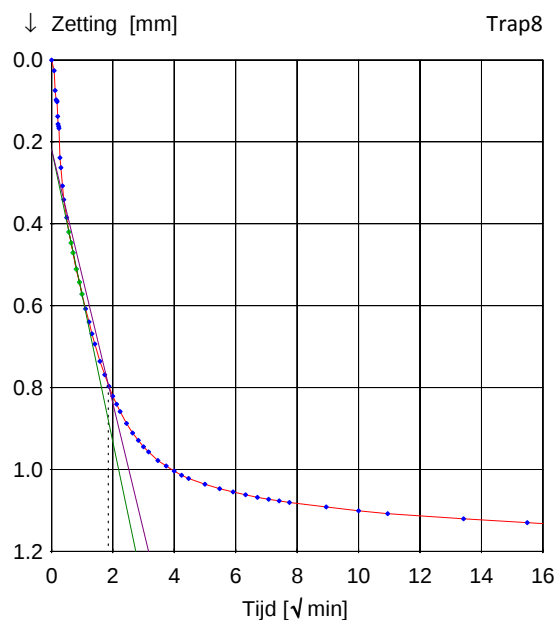
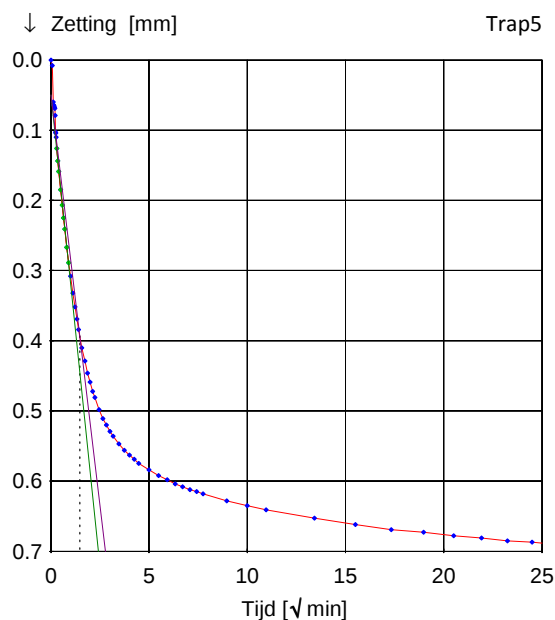
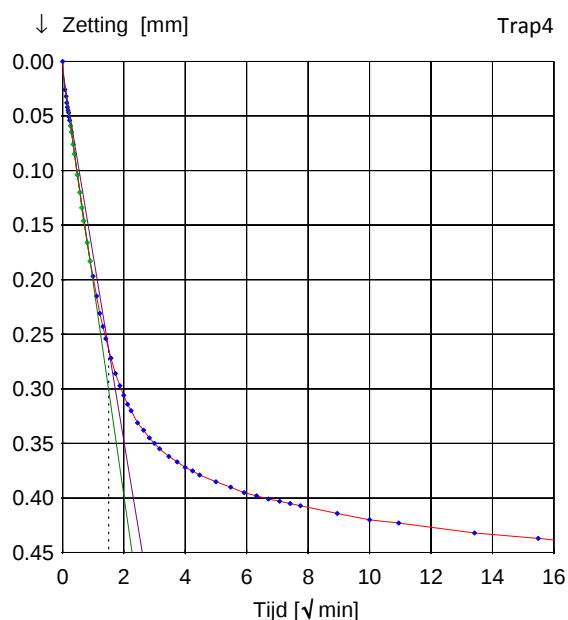
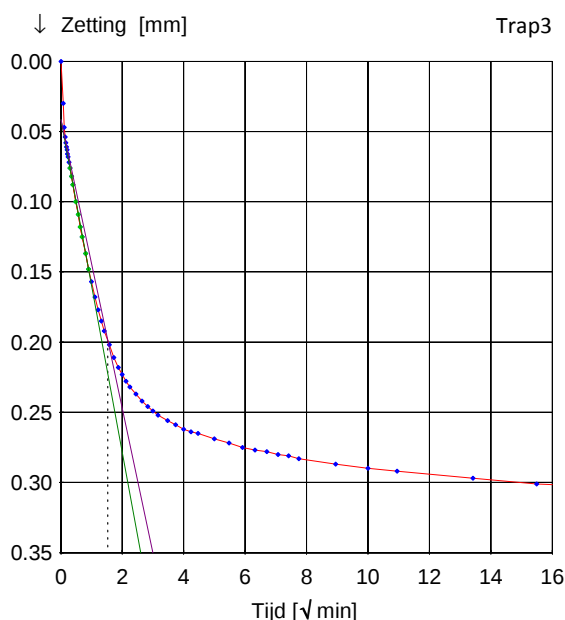
| Belastingtrappen:              | Trap1  | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 103    | 207   | 413   | 826   | 1652  | 826   | 1652  | 4130  |
| C <sub>p</sub>                 | 59.9   | 38.5  | 25.0  | 18.4  | 107.0 | 88.2  | 14.5  |       |
| C <sub>s</sub>                 | 1099.0 | 647.6 | 505.6 | 276.2 | 768.0 | 989.4 | 372.8 |       |
| C <sub>10<sup>4</sup></sub>    | 49.1   | 31.1  | 20.9  | 14.6  | 68.7  | 65.0  | 12.6  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 536 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 59.9              | C <sub>p</sub> ' = 15.7              | C <sub>p</sub> = 107.0             | C <sub>p</sub> = 88.2              |              |                |
|                              | C <sub>s</sub> = 1099.0            | C <sub>s</sub> ' = 340.7             | C <sub>s</sub> = 768.0             | C <sub>s</sub> = 989.4             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 49.1 | C <sub>10<sup>4</sup></sub> ' = 13.2 | C <sub>10<sup>4</sup></sub> = 68.7 | C <sub>10<sup>4</sup></sub> = 65.0 |              |                |



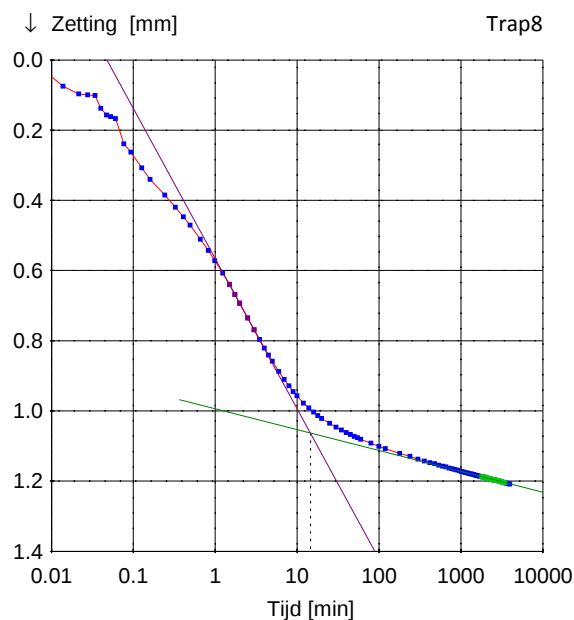
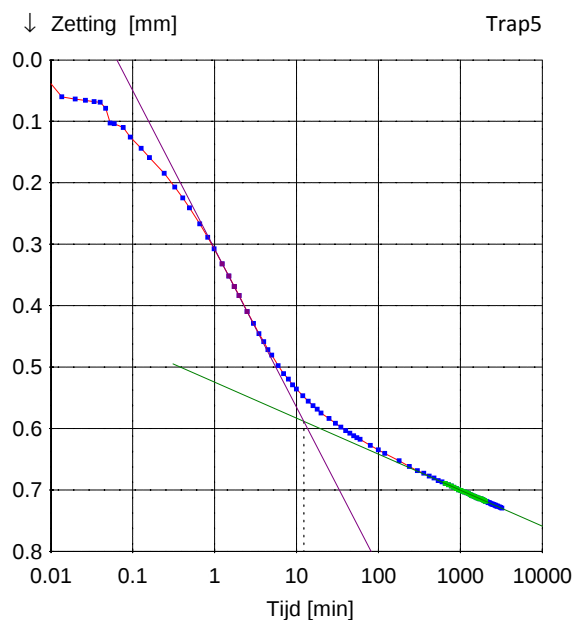
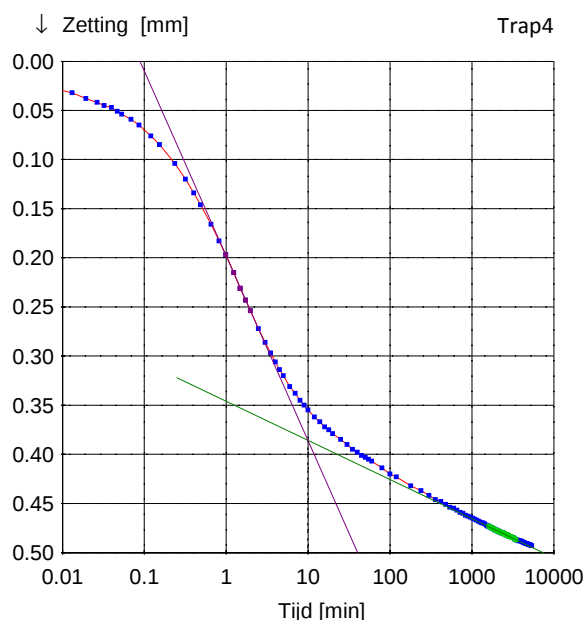
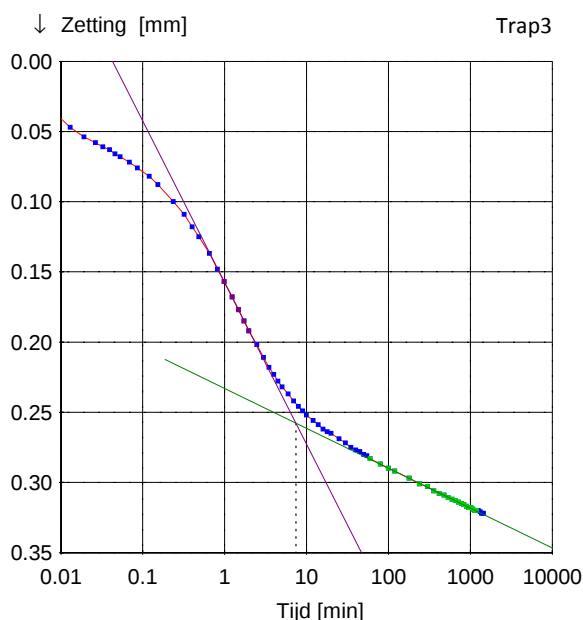
|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 30-09-2019 | Diepte            | : NAP -50.27 / -50.32 m.                  |
| Monster       | : 9        | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 19.08 kN/m <sup>3</sup>        |
| Bus           | : 9        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup>   |
| Apparaat      | : 27       | Zetting (24u)  | : 0.329 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | h (24u)        | : 18.671 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 103   | 207   | 413   | 826   | 1652  | 826   | 1652  | 4130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 103   | 104   | 206   | 413   | 826   | -826  | 826   | 2478  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 37.99 | 36.98 | 36.49 |       |       | 19.87 |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.04  | 0.03  |       |       | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 17.20 | 13.86 | 9.43  |       |       | 3.04  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 25.51 | 20.41 | 17.72 |       |       | 25.40 |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.541 | 2.203 | 3.342 |       |       | 3.537 |



|               |             |                |              |                   |                                           |
|---------------|-------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F         | Startdatum     | : 30-09-2019 | Diepte            | : NAP -50.27 / -50.32 m.                  |
| Monster       | : 9         | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 19.08 kN/m <sup>3</sup>        |
| Bus           | : 9         | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup>   |
| Apparaat      | : 27        | Zetting (24u)  | : 0.329 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroerd | h (24u)        | : 18.671 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:                                     | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ]                        | 103   | 207   | 413   | 826   | 1652  | 826   | 1652  | 4130  |
| $\Delta p$ [kN/m <sup>2</sup> ]                       | 103   | 104   | 206   | 413   | 826   | -826  | 826   | 2478  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (wortel-t) |       |       | 37.99 | 36.98 | 36.49 |       |       | 19.87 |
| $m_v$ [1/MPa]                                         |       |       | 0.05  | 0.04  | 0.03  |       |       | 0.02  |
| $k_{10}$ [10 <sup>-11</sup> m/s]                      |       |       | 17.20 | 13.86 | 9.43  |       |       | 3.04  |
| $c_v$ [10 <sup>-8</sup> m <sup>2</sup> /s] (log-t)    |       |       | 25.51 | 20.41 | 17.72 |       |       | 25.40 |
| $C_\alpha$ [10 <sup>-3</sup> ]                        |       |       | 1.541 | 2.203 | 3.342 |       |       | 3.537 |



Opdracht : 1603796  
Plaats : Rotterdam  
Project : The View fase 2 Jumbo

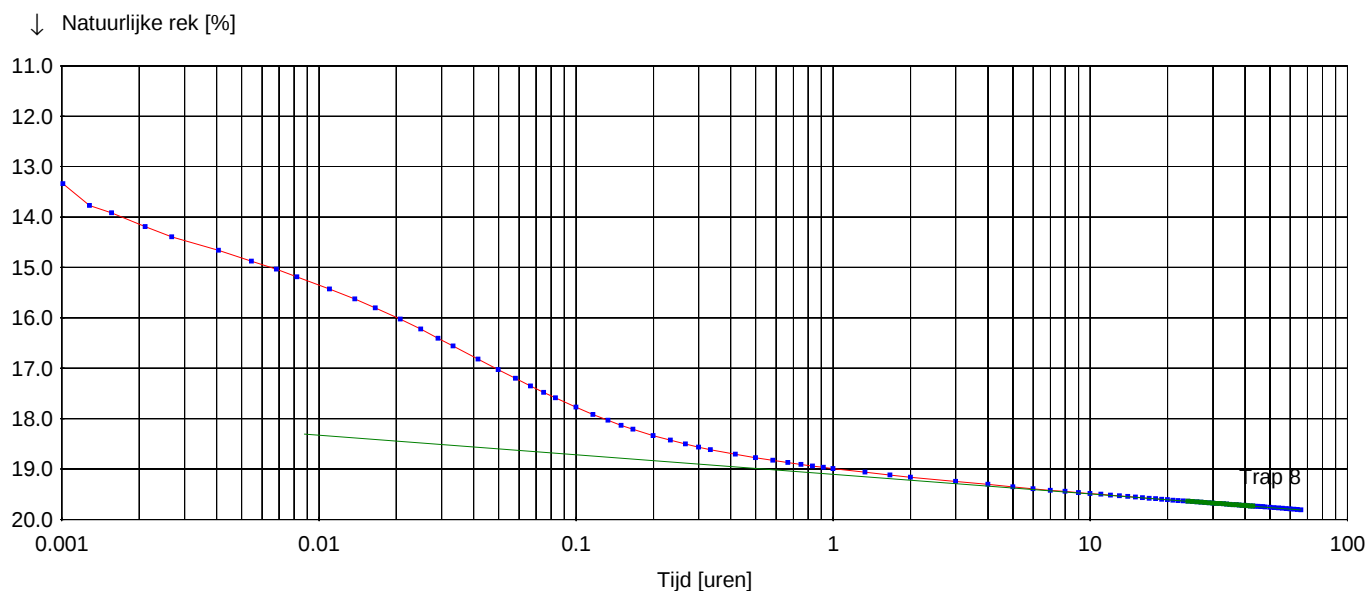
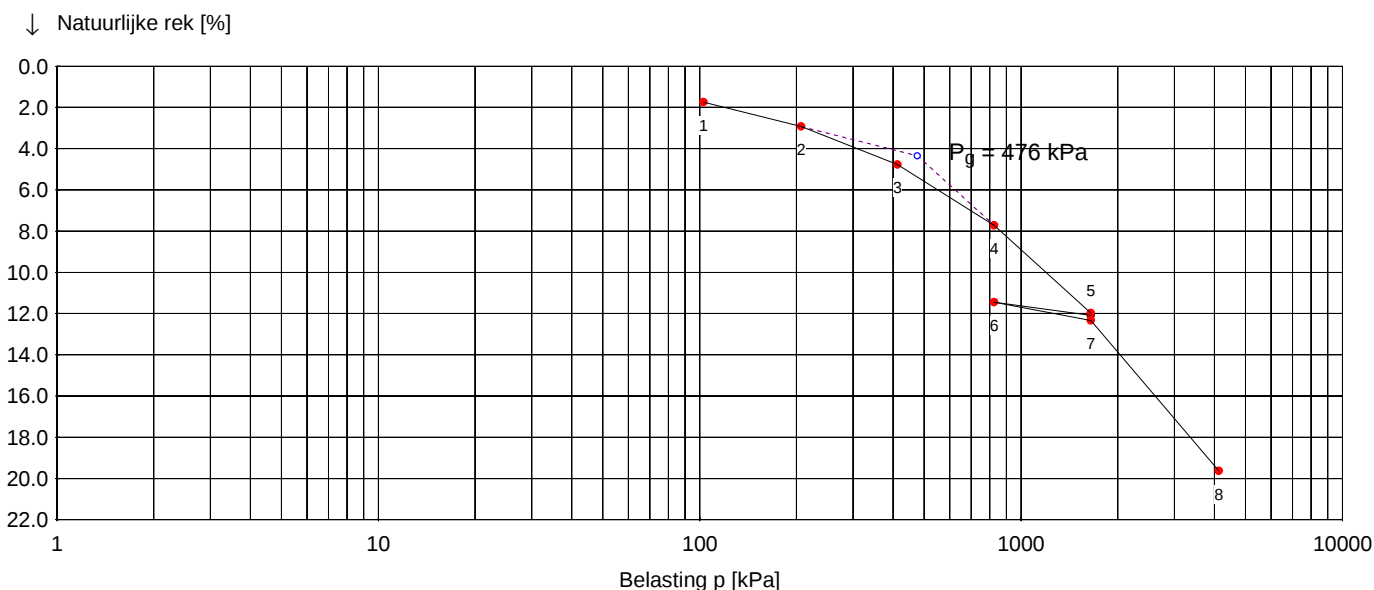
# SAMENDRUKKINGSPROEF

Isotachen

|                         |                           |                                                        |
|-------------------------|---------------------------|--------------------------------------------------------|
| Boring : F              | Startdatum : 30-09-2019   | Diepte : NAP -50.27 / -50.32 m.                        |
| Monster : 9             | Einddatum : 14-10-2019    | Initieel vol.gew. $\gamma$ : 19.08 kN/m <sup>3</sup>   |
| Bus : 9                 | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup> |
| Apparaat : 27           | Zetting (24u) : 0.329 mm  | Watergehalte W : 26 %                                  |
| Soort monster : Ongerod | h (24u) : 18.671 mm       | Grondsoort : Klei, zwak zandig (uiterst fijn), grijs   |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Belasting         | 103    | 207    | 413    | 826    | 1652   | 826    | 1652   | 4130   |
| a, b              | 0.0170 | 0.0255 | 0.0381 | 0.0595 | 0.0092 | 0.0127 | 0.0796 |        |
| c                 |        |        |        |        | 0.0015 |        |        | 0.0017 |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 476.5kPa | a = 0.0127 | b = 0.0796 | c = 0.00168 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 | Trap 8      |



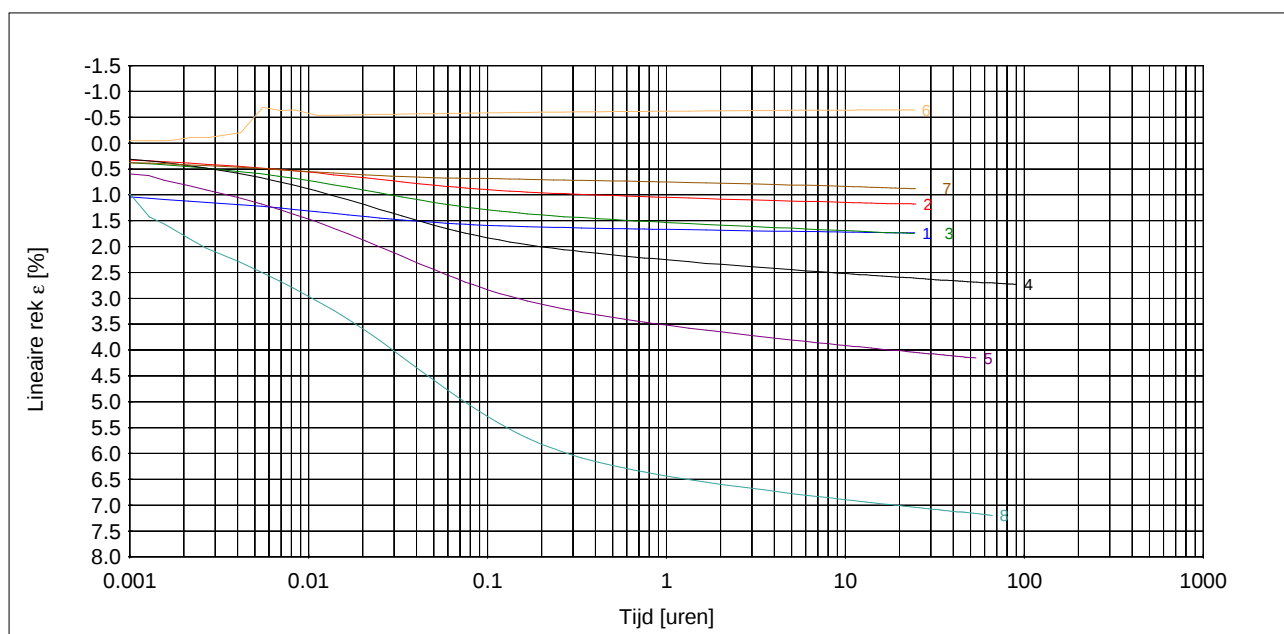
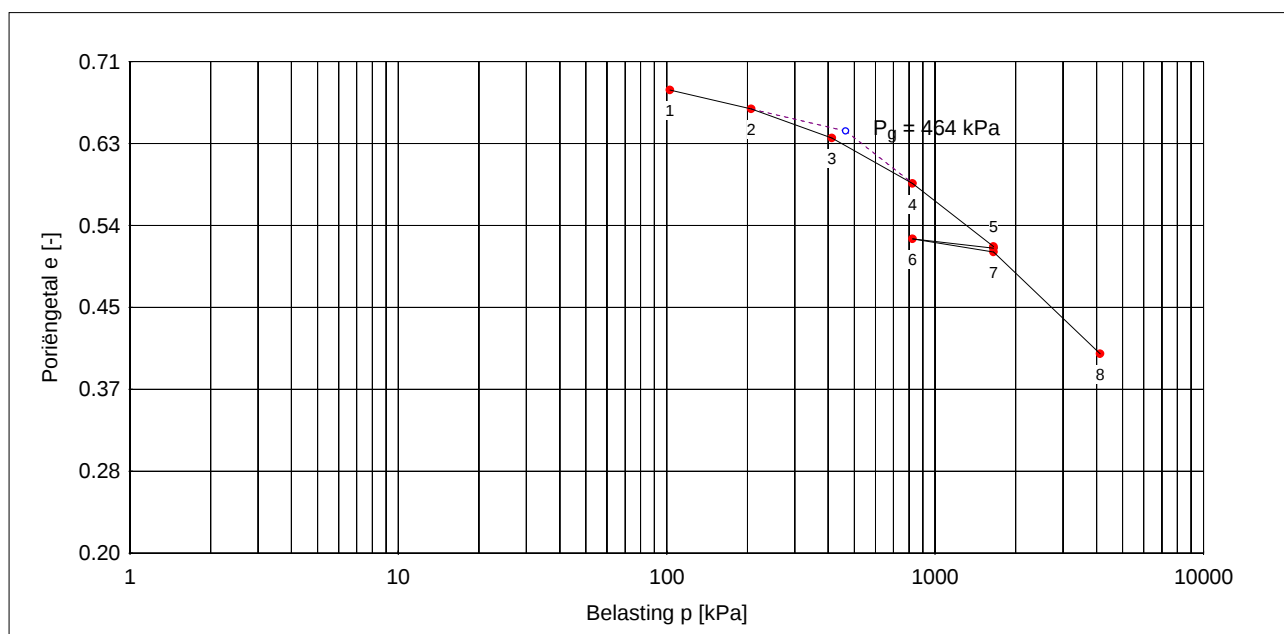
|                          |                           |                                                        |
|--------------------------|---------------------------|--------------------------------------------------------|
| Boring : F               | Startdatum : 30-09-2019   | Diepte : NAP -50.27 / -50.32 m.                        |
| Monster : 9              | Einddatum : 14-10-2019    | Initieel vol.gew. $\gamma$ : 19.08 kN/m <sup>3</sup>   |
| Bus : 9                  | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup> |
| Apparaat : 27            | Zetting (24u) : 0.329 mm  | Watergehalte W : 26 %                                  |
| Soort monster : Ongeroid | $e_0$ : 0.71              | Grondsoort : Klei, zwak zandig (uiterst fijn), grijs   |

| Belastingtrappen:                         | Trap1 | Trap2 | Trap3  | Trap4  | Trap5  | Trap6 | Trap7  | Trap8 |
|-------------------------------------------|-------|-------|--------|--------|--------|-------|--------|-------|
| Belasting                                 | 103   | 207   | 413    | 826    | 1652   | 826   | 1652   | 4130  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$   | 0.065 | 0.097 | 0.141  | 0.212  | 0.032  | 0.045 | 0.268  |       |
| $C_{\alpha}^* = \Delta e / \Delta \log t$ |       |       | 0.0015 | 0.0022 | 0.0033 |       | 0.0035 |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.045</math></b> | <b><math>C_c = 0.268</math></b> | <b><math>C_{sw} = 0.032</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                         |
|-----------------------------------------|
| <b><math>C_{\alpha} = 0.0030</math></b> |
| Trap 4, 5, 8                            |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 30-09-2019 | Diepte            | : NAP -50.27 / -50.32 m.                  |
| Monster       | : 9        | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 19.08 kN/m <sup>3</sup>        |
| Bus           | : 9        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 15.19 kN/m <sup>3</sup>   |
| Apparaat      | : 27       | Zetting (24u)  | : 0.329 mm   | Watergehalte      | W : 26 %                                  |
| Soort monster | : Ongeroid | $e_0$          | : 0.71       | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

#### Bepaling parameters per trap

|                                                       |               |          |          |          |          |          |          |          |
|-------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                     | 103           | 207      | 413      | 826      | 1652     | 826      | 1652     | 4130     |
| <b>NEN / Bjerrum</b>                                  | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$               | 0.0654        | 0.0967   | 0.1410   | 0.2125   | 0.0323   | 0.0446   | 0.2676   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                          | 0.0382        | 0.0565   | 0.0823   | 0.1241   | 0.0189   | 0.0261   | 0.1563   |          |
| $C_\alpha = \Delta e / \Delta \log t$                 |               |          | 0.0015   | 0.0022   | 0.0033   |          |          | 0.0035   |
| <b>KoppeJan</b>                                       | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                 | 59.9          | 38.5     | 25.0     | 18.4     | 107.0    | 88.2     | 14.5     |          |
| $C_s$                                                 | 1099.0        | 647.6    | 505.6    | 276.2    | 768.0    | 989.4    | 372.8    |          |
| $C_{10^4}$                                            | 49.1          | 31.1     | 20.9     | 14.6     | 68.7     | 65.0     | 12.6     |          |
| <b>Taylor / Casagrande</b>                            | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Taylor)     |               |          | 37.99    | 36.98    | 36.49    |          |          | 19.87    |
| $m_v$ [1/MPa]                                         |               |          | 0.05     | 0.04     | 0.03     |          |          | 0.02     |
| $k_{10}$ [ $10^{-11} \text{ m/s}$ ]                   |               |          | 17.20    | 13.86    | 9.43     |          |          | 3.04     |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Casagrande) |               |          | 25.51    | 20.41    | 17.72    |          |          | 25.40    |
| <b>Isotachen</b>                                      | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                  | 0.0170        | 0.0255   | 0.0381   | 0.0595   | 0.0092   | 0.0127   | 0.0796   |          |
| c                                                     |               |          |          |          | 0.0015   |          |          | 0.0017   |

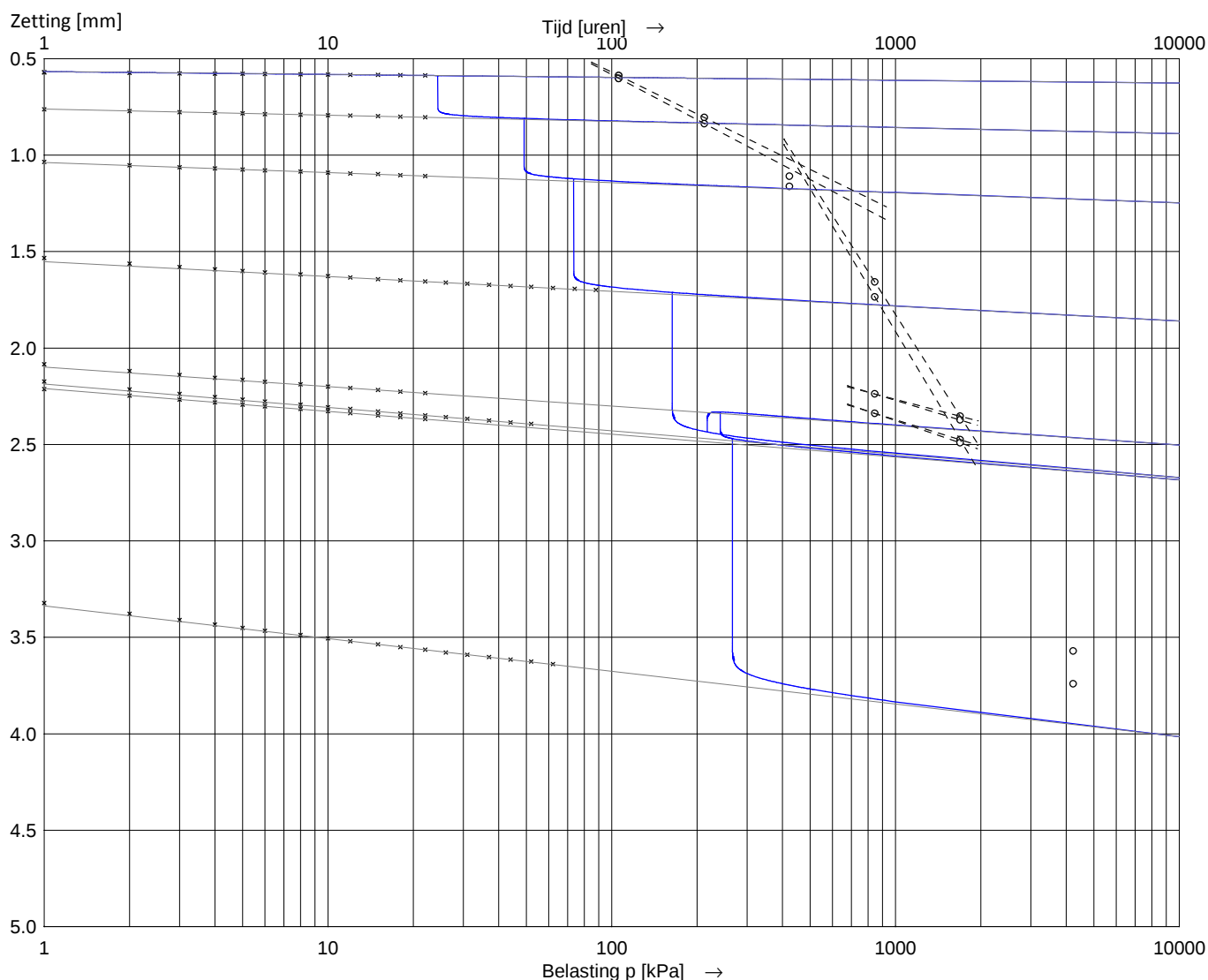
#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                     |                                                       |                                                     |                                                                 |
|----------------------|-----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                   | <b>Trap 4, 5, 8</b>                                             |
| $P_g = 464.3$        | $C_r = 0.0446$<br>$RR = 0.0261$                     | $C_c = 0.2676$<br>$CR = 0.1563$                       | $C_{sw} = 0.0323$<br>$SR = 0.0189$                  | $C_\alpha = 0.0030$                                             |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                   | <b>Trap 4 - 5, 8</b>                                  | <b>Trap 5 - 6</b>                                   | <b>Trap 6 - 7</b>                                               |
| $P_g = 535.6$        | $C_p = 59.9$<br>$C_s = 1099.0$<br>$C_{10^4} = 49.1$ | $C_p' = 15.7$<br>$C_s' = 340.7$<br>$C_{10^4}' = 13.2$ | $A_p = 107.0$<br>$A_s = 768.0$<br>$A_{10^4} = 68.7$ | $C_{p(r)} = 88.2$<br>$C_{s(r)} = 989.4$<br>$C_{10^4(r)} = 65.0$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                   | <b>Trap 7 - 8</b>                                     | <b>Trap 8</b>                                       |                                                                 |
| $P_g = 476.5$        | a = 0.0127                                          | b = 0.0796                                            | c = 0.0017                                          |                                                                 |

|               |             |                |              |                   |                                           |
|---------------|-------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F         | Startdatum     | : 30-09-2019 | Diepte            | : NAP -51.23 / -51.28 m.                  |
| Monster       | : 10        | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 18.39 kN/m <sup>3</sup>        |
| Bus           | : 10        | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 13.97 kN/m <sup>3</sup>   |
| Apparaat      | : 28        | Zetting (24u)  | : 0.587 mm   | Watergehalte      | W : 32 %                                  |
| Soort monster | : Ongeroerd | h (24u)        | : 18.413 mm  | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

| Belastingtrappen:              | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting [kN/m <sup>2</sup> ] | 106   | 212   | 423   | 846   | 1692  | 846   | 1692  | 4230  |
| C <sub>p</sub>                 | 58.5  | 41.5  | 23.2  | 18.3  | 110.2 | 94.4  | 14.0  |       |
| C <sub>s</sub>                 | 746.7 | 619.1 | 515.7 | 286.6 | 620.3 | 722.7 | 327.5 |       |
| C <sub>10<sup>4</sup></sub>    | 44.5  | 32.7  | 19.6  | 14.6  | 64.4  | 62.0  | 12.0  |       |

| Grensspanning p <sub>g</sub> | Voor p <sub>g</sub>                | Na p <sub>g</sub>                    | Ontlasten                          | Herbelasten                        | Ontlasten(2) | Herbelasten(2) |
|------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------|----------------|
| 464 [kN/m <sup>2</sup> ]     | C <sub>p</sub> = 58.5              | C <sub>p</sub> ' = 18.3              | C <sub>p</sub> = 110.2             | C <sub>p</sub> = 94.4              |              |                |
|                              | C <sub>s</sub> = 746.7             | C <sub>s</sub> ' = 286.6             | C <sub>s</sub> = 620.3             | C <sub>s</sub> = 722.7             |              |                |
|                              | C <sub>10<sup>4</sup></sub> = 44.5 | C <sub>10<sup>4</sup></sub> ' = 14.6 | C <sub>10<sup>4</sup></sub> = 64.4 | C <sub>10<sup>4</sup></sub> = 62.0 |              |                |



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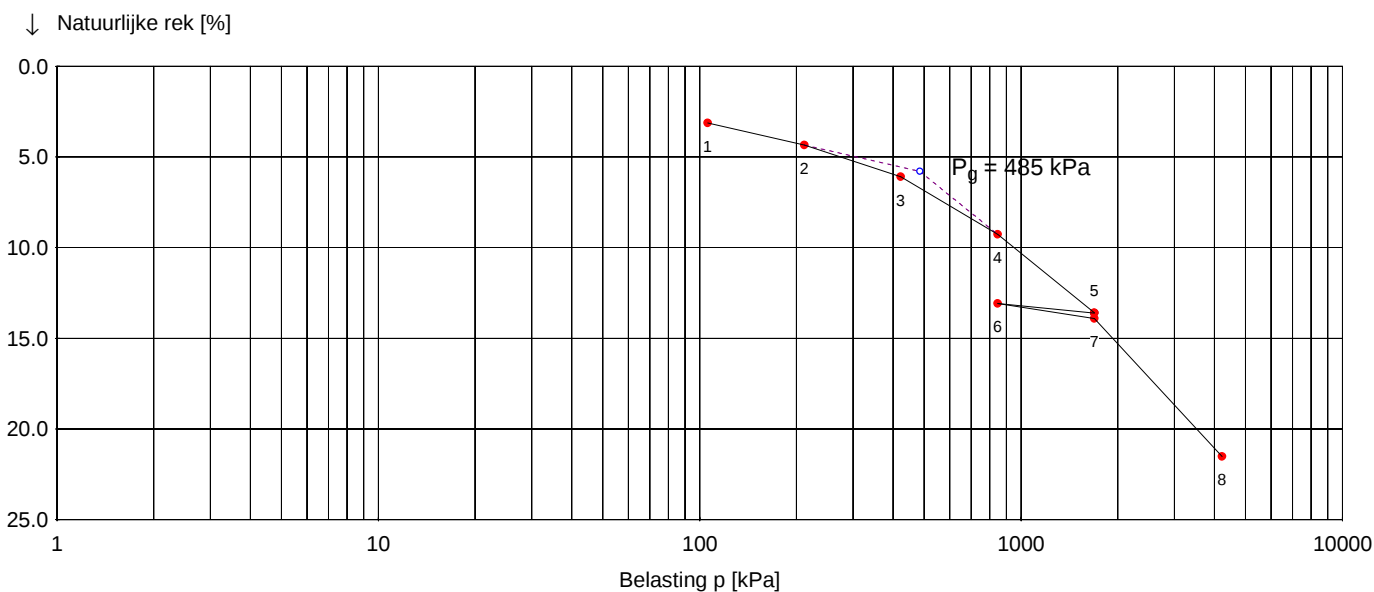
# SAMENDRUKKINGSPROEF

Isotachen

|                         |                           |                                                        |
|-------------------------|---------------------------|--------------------------------------------------------|
| Boring : F              | Startdatum : 30-09-2019   | Diepte : NAP -51.23 / -51.28 m.                        |
| Monster : 10            | Einddatum : 14-10-2019    | Initieel vol.gew. $\gamma$ : 18.39 kN/m <sup>3</sup>   |
| Bus : 10                | Hoogte monster : 19.00 mm | Droog vol.gew. $\gamma_{dr}$ : 13.97 kN/m <sup>3</sup> |
| Apparaat : 28           | Zetting (24u) : 0.587 mm  | Watergehalte W : 32 %                                  |
| Soort monster : Ongerod | h (24u) : 18.413 mm       | Grondsoort : Klei, zwak zandig (uiterst fijn), grijs   |

| Belastingtrappen: | Trap1  | Trap2  | Trap3  | Trap4  | Trap5  | Trap6  | Trap7  | Trap8 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Belasting         | 106    | 212    | 423    | 846    | 1692   | 846    | 1692   | 4230  |
| a, b              | 0.0174 | 0.0228 | 0.0429 | 0.0601 | 0.0075 | 0.0120 | 0.0827 |       |
| c                 |        |        |        |        |        |        |        |       |

|                       |          |            |            |             |
|-----------------------|----------|------------|------------|-------------|
| Grensspanning $P_g$ = | 484.6kPa | a = 0.0120 | b = 0.0827 | c = 0.00000 |
|                       |          | Trap 6 - 7 | Trap 7 - 8 |             |



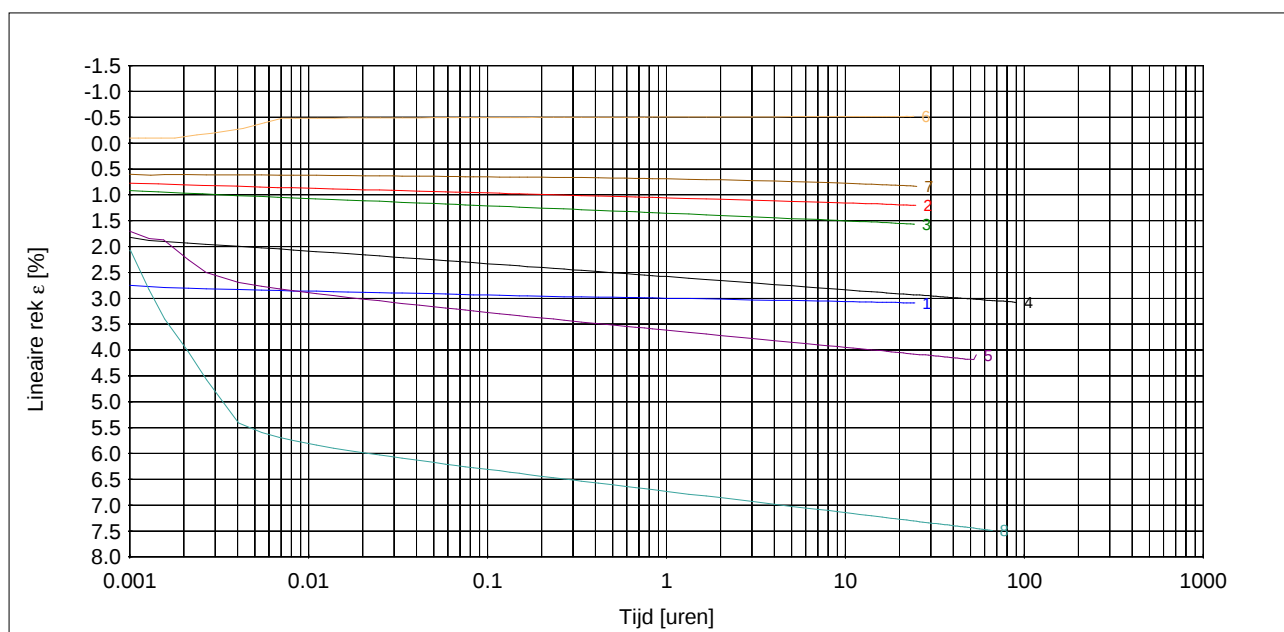
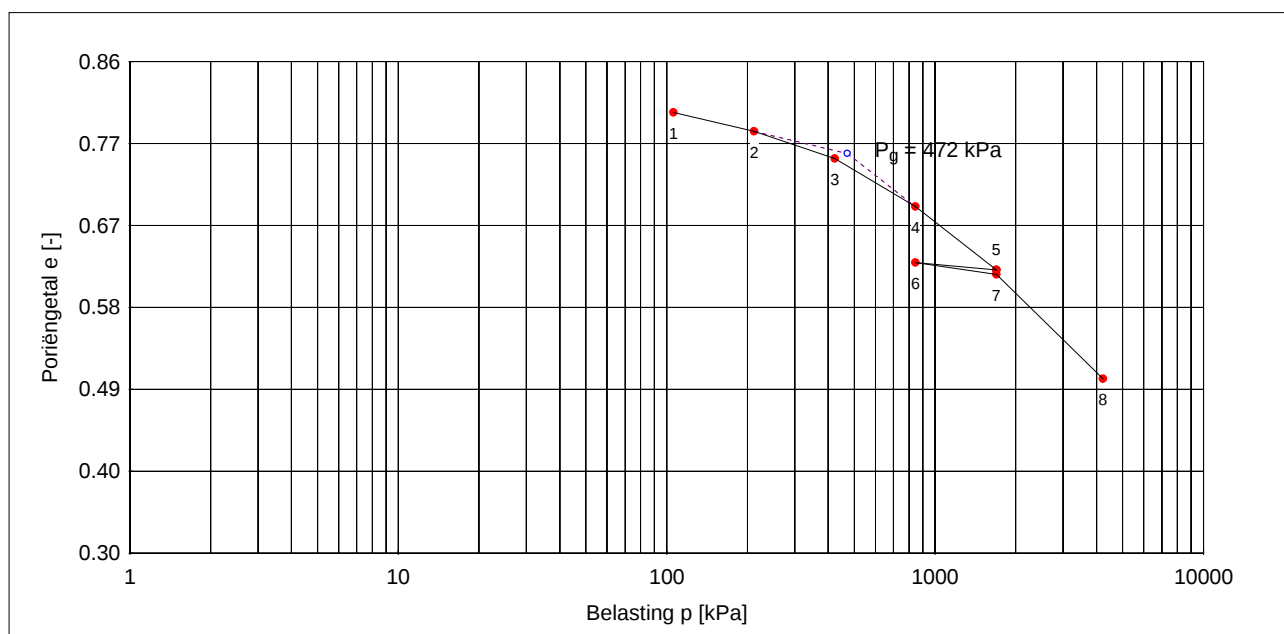
Boring : F Startdatum : 30-09-2019 Diepte : NAP -51.23 / -51.28 m.  
Monster : 10 Einddatum : 14-10-2019 Initieel vol.gew.  $\gamma$  : 18.39 kN/m<sup>3</sup>  
Bus : 10 Hoogte monster : 19.00 mm Droog vol.gew.  $\gamma_{dr}$  : 13.97 kN/m<sup>3</sup>  
Apparaat : 28 Zetting (24u) : 0.587 mm Watergehalte W : 32 %  
Soort monster : Ongeroid  $e_0$  : 0.86 Grondsoort : Klei, zwak zandig (uiterst  
fijn), grijs

| Belastingtrappen:                                | Trap1 | Trap2 | Trap3 | Trap4 | Trap5 | Trap6 | Trap7 | Trap8 |
|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Belasting                                        | 106   | 212   | 423   | 846   | 1692  | 846   | 1692  | 4230  |
| $C_{c/r/sw} = \Delta e / \Delta \log p$          | 0.072 | 0.093 | 0.170 | 0.229 | 0.028 | 0.045 | 0.297 |       |
| $C_{\alpha}^* = \Delta \epsilon / \Delta \log t$ |       |       |       |       |       |       |       |       |

\* Berekening  $C_{\alpha}$  gebaseerd op de proefstukhoogte aan het begin van de trap

|                                 |                                 |                                    |
|---------------------------------|---------------------------------|------------------------------------|
| <b><math>C_r = 0.045</math></b> | <b><math>C_c = 0.297</math></b> | <b><math>C_{sw} = 0.028</math></b> |
| Trap 6 - 7                      | Trap 7 - 8                      | Trap 5 - 6                         |

|                                  |
|----------------------------------|
| <b><math>C_{\alpha} =</math></b> |
|                                  |



\* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

|               |            |                |              |                   |                                           |
|---------------|------------|----------------|--------------|-------------------|-------------------------------------------|
| Boring        | : F        | Startdatum     | : 30-09-2019 | Diepte            | : NAP -51.23 / -51.28 m.                  |
| Monster       | : 10       | Einddatum      | : 14-10-2019 | Initieel vol.gew. | $\gamma$ : 18.39 kN/m <sup>3</sup>        |
| Bus           | : 10       | Hoogte monster | : 19.00 mm   | Droog vol.gew.    | $\gamma_{dr}$ : 13.97 kN/m <sup>3</sup>   |
| Apparaat      | : 28       | Zetting (24u)  | : 0.587 mm   | Watergehalte      | W : 32 %                                  |
| Soort monster | : Ongeroid | $e_0$          | : 0.86       | Grondsoort        | : Klei, zwak zandig (uiterst fijn), grijs |

#### Bepaling parameters per trap

|                                                       |               |          |          |          |          |          |          |          |
|-------------------------------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| Belasting p [kPa]                                     | 106           | 212      | 423      | 846      | 1692     | 846      | 1692     | 4230     |
| <b>NEN / Bjerrum</b>                                  | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_{c/r/sw} = \Delta e / \Delta \log p$               | 0.0719        | 0.0927   | 0.1701   | 0.2293   | 0.0280   | 0.0449   | 0.2970   |          |
| $CR/RR/SR = C_x / (1 + e_0)$                          | 0.0386        | 0.0498   | 0.0914   | 0.1233   | 0.0150   | 0.0241   | 0.1596   |          |
| $C_\alpha = \Delta e / \Delta \log t$                 |               |          |          |          |          |          |          |          |
| <b>KoppeJan</b>                                       | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $C_p$                                                 | 58.5          | 41.5     | 23.2     | 18.3     | 110.2    | 94.4     | 14.0     |          |
| $C_s$                                                 | 746.7         | 619.1    | 515.7    | 286.6    | 620.3    | 722.7    | 327.5    |          |
| $C_{10^4}$                                            | 44.5          | 32.7     | 19.6     | 14.6     | 64.4     | 62.0     | 12.0     |          |
| <b>Taylor / Casagrande</b>                            | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Taylor)     |               |          |          |          |          |          |          |          |
| $m_v$ [1/MPa]                                         |               |          |          |          |          |          |          |          |
| $k_{10}$ [ $10^{-11} \text{ m/s}$ ]                   |               |          |          |          |          |          |          |          |
| $c_v$ [ $10^{-8} \text{ m}^2/\text{s}$ ] (Casagrande) |               |          |          |          |          |          |          |          |
| <b>Isotachen</b>                                      | <b>Trap 1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| a, b                                                  | 0.0174        | 0.0228   | 0.0429   | 0.0601   | 0.0075   | 0.0120   | 0.0827   |          |
| c                                                     |               |          |          |          |          |          |          |          |

#### Bepaling $P_g$ en parameters op basis van geselecteerde trappen

|                      |                                                    |                                                       |                                                     |                                                                 |
|----------------------|----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|
| <b>NEN / Bjerrum</b> | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                     | <b>Trap 5 - 6</b>                                   | <b>Trap</b>                                                     |
| $P_g = 471.7$        | $C_r = 0.0449$<br>$RR = 0.0241$                    | $C_c = 0.2970$<br>$CR = 0.1596$                       | $C_{sw} = 0.0280$<br>$SR = 0.0150$                  | $C_\alpha = --$                                                 |
| <b>KoppeJan</b>      | <b>Trap 1 - 2</b>                                  | <b>Trap 4 - 5</b>                                     | <b>Trap 5 - 6</b>                                   | <b>Trap 6 - 7</b>                                               |
| $P_g = 464.4$        | $C_p = 58.5$<br>$C_s = 746.7$<br>$C_{10^4} = 44.5$ | $C_p' = 18.3$<br>$C_s' = 286.6$<br>$C_{10^4}' = 14.6$ | $A_p = 110.2$<br>$A_s = 620.3$<br>$A_{10^4} = 64.4$ | $C_{p(r)} = 94.4$<br>$C_{s(r)} = 722.7$<br>$C_{10^4(r)} = 62.0$ |
| <b>Isotachen</b>     | <b>Trap 6 - 7</b>                                  | <b>Trap 7 - 8</b>                                     | <b>Trap</b>                                         |                                                                 |
| $P_g = 484.6$        | a = 0.0120                                         | b = 0.0827                                            | c = --                                              |                                                                 |

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Project : The View fase 2 Jumbo

## VOLUMEGEWICHTEN

NEN5110, NEN5112

| Boring | Monster<br>of bus-<br>nummer | Diepte t.o.v. NAP |         | Vol.gew.<br>initieel<br>$\gamma$ [kN/m <sup>3</sup> ] | Vol.gew.<br>droog<br>$\gamma_{dr}$ [kN/m <sup>3</sup> ] | Water-<br>gehalte<br>W [%] | Type<br>proef |
|--------|------------------------------|-------------------|---------|-------------------------------------------------------|---------------------------------------------------------|----------------------------|---------------|
|        |                              | van [m]           | tot [m] |                                                       |                                                         |                            |               |
| F      | 1                            | -30.15            | -30.20  | 19.30                                                 | 15.24                                                   | 26.64                      | VGM           |
| F      | 2                            | -31.22            | -31.27  | 19.20                                                 | 14.89                                                   | 28.99                      | VGM           |
| F      | 3                            | -32.25            | -32.30  | 19.01                                                 | 14.82                                                   | 28.28                      | VGM           |
| F      | 4                            | -33.18            | -33.23  | 18.66                                                 | 13.91                                                   | 34.19                      | VGM           |
| F      | 5                            | -38.11            | -38.16  | 10.30                                                 | 3.50                                                    | 194.56                     | VGM           |
| F      | 6                            | -40.28            | -40.33  | 20.04                                                 | 16.07                                                   | 24.76                      | VGM           |
| F      | 7                            | -42.14            | -42.19  | 20.74                                                 | 17.67                                                   | 17.37                      | VGM           |
| F      | 8                            | -43.16            | -43.21  | 19.97                                                 | 16.79                                                   | 18.94                      | VGM           |
| F      | 9                            | -50.32            | -50.37  | 19.33                                                 | 15.41                                                   | 25.44                      | VGM           |
| F      | 10                           | -51.28            | -51.33  | 18.35                                                 | 14.09                                                   | 30.18                      | VGM           |

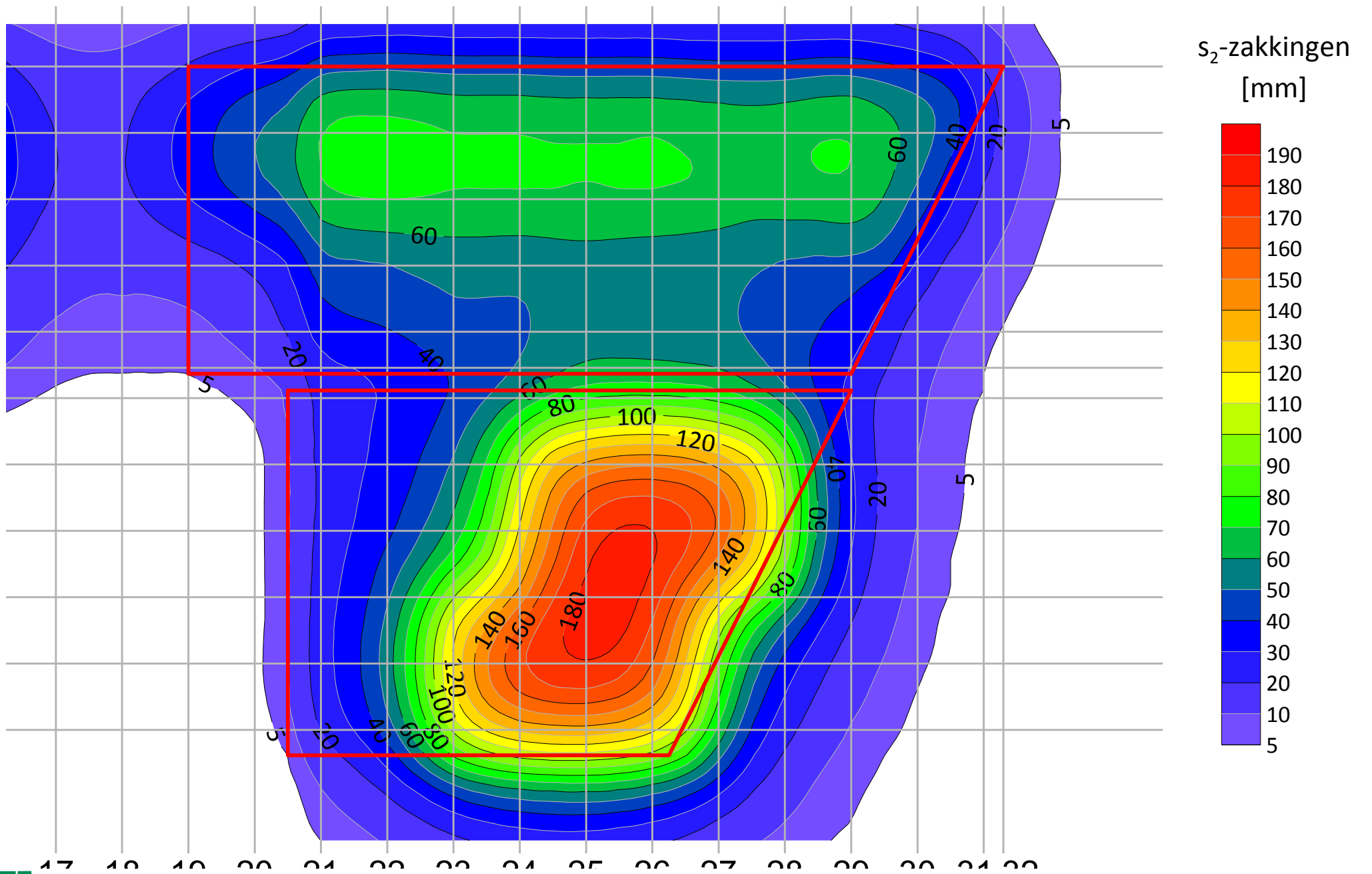
## Bijlage D

# Uitwerking opgegeven belasting naar drukken op schacht- en paalpuntniveau

| vlak 1             |              |                           | vlak 2             |              |                           | vlak 3             |              |                           | vlak 4             |               |                           | vlak 5             |               |                           |                        |
|--------------------|--------------|---------------------------|--------------------|--------------|---------------------------|--------------------|--------------|---------------------------|--------------------|---------------|---------------------------|--------------------|---------------|---------------------------|------------------------|
| X <sub>cp</sub>    | 166,67       | [m]                       | X <sub>cp</sub>    | 197,87       | [m]                       | X <sub>cp</sub>    | 180,25       | [m]                       | X <sub>cp</sub>    | 201,25        | [m]                       | X <sub>cp</sub>    | 191,25        | [m]                       |                        |
| Y <sub>cp</sub>    | -21,60       | [m] NAP                   | Y <sub>cp</sub>    | -21,60       | [m] NAP                   | Y <sub>cp</sub>    | -21,60       | [m] NAP                   | Y <sub>cp</sub>    | -21,60        | [m] NAP                   | Y <sub>cp</sub>    | -21,60        | [m] NAP                   | aangrijpniveau schacht |
|                    | -24,00       | [m] NAP                   |                    | -24,00       | [m] NAP                   |                    | -24,00       | [m] NAP                   |                    | -24,00        | [m] NAP                   |                    | -24,00        | [m] NAP                   | aangrijpniveau punt    |
| Z <sub>cp</sub>    | -59,54       | [m]                       | Z <sub>cp</sub>    | -40,34       | [m]                       | Z <sub>cp</sub>    | -52,29       | [m]                       | Z <sub>cp</sub>    | -52,29        | [m]                       | Z <sub>cp</sub>    | -71,69        | [m]                       |                        |
| x <sub>width</sub> | 17,15        | [m]                       | x <sub>width</sub> | 45,25        | [m]                       | x <sub>width</sub> | 10,00        | [m]                       | x <sub>width</sub> | 32,00         | [m]                       | x <sub>width</sub> | 32,00         | [m]                       |                        |
| z <sub>width</sub> | 42,90        | [m]                       | z <sub>width</sub> | 4,50         | [m]                       | z <sub>width</sub> | 19,40        | [m]                       | z <sub>width</sub> | 19,40         | [m]                       | z <sub>width</sub> | 19,40         | [m]                       |                        |
|                    | 20,00        | [kN/m <sup>2</sup> ]      |                    | 20,00        | [kN/m <sup>2</sup> ]      |                    | 20,00        | [kN/m <sup>2</sup> ]      |                    | 156,67        | [kN/m <sup>2</sup> ]      |                    | 156,67        | [kN/m <sup>2</sup> ]      | aandeel schacht        |
|                    | 40,00        | [kN/m <sup>2</sup> ]      |                    | 40,00        | [kN/m <sup>2</sup> ]      |                    | 40,00        | [kN/m <sup>2</sup> ]      |                    | 313,33        | [kN/m <sup>2</sup> ]      |                    | 313,33        | [kN/m <sup>2</sup> ]      | aandeel punt           |
|                    | <b>60,00</b> | <b>[kN/m<sup>2</sup>]</b> |                    | <b>60,00</b> | <b>[kN/m<sup>2</sup>]</b> |                    | <b>60,00</b> | <b>[kN/m<sup>2</sup>]</b> |                    | <b>470,00</b> | <b>[kN/m<sup>2</sup>]</b> |                    | <b>470,00</b> | <b>[kN/m<sup>2</sup>]</b> | <b>totaal</b>          |
|                    | 112,00       | [kN/m <sup>2</sup> ]      |                    | 112,00       | [kN/m <sup>2</sup> ]      |                    | 112,00       | [kN/m <sup>2</sup> ]      |                    | 522,00        | [kN/m <sup>2</sup> ]      |                    | 522,00        | [kN/m <sup>2</sup> ]      | totaal excl. waterdruk |

## Bijlage E

# Contourplot zettingen



## Bijlage F

### Getalswaarden $s_{2;rep}$

| Coordinaten bouwdeel west |                         |                         |  |  | Coordinaten bouwdeel oost |                         |                         |        |  | Coordinaten view 2 |                         |                         |        |  |
|---------------------------|-------------------------|-------------------------|--|--|---------------------------|-------------------------|-------------------------|--------|--|--------------------|-------------------------|-------------------------|--------|--|
|                           | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> |  |  |                           | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> |        |  |                    | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> |        |  |
| 1                         | 0                       | 0                       |  |  |                           | 1                       | 146,4                   | 0      |  |                    | 1                       | 158,10                  | -38,09 |  |
| 2                         | 121,2                   | 0                       |  |  |                           | 2                       | 242,3                   | 0      |  |                    | 2                       | 224,40                  | -38,09 |  |
| 3                         | 121,2                   | -36,14                  |  |  |                           | 3                       | 224,4                   | -36,14 |  |                    | 3                       | 158,10                  | -80,99 |  |
| 4                         | 0                       | -36,14                  |  |  |                           | 4                       | 146,4                   | -36,14 |  |                    | 4                       | 202,95                  | -80,99 |  |

| Z <sub>coördinaat</sub> | Vertical | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> | MV   | Zetting | Zetting |  | Vertical | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> | MV  | Zetting | Zetting |    | Vertical | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> | MV    | Zetting | Zetting |      | Vertical | X <sub>coördinaat</sub> | Z <sub>coördinaat</sub> | MV    | Zetting | Zetting |      |  |
|-------------------------|----------|-------------------------|-------------------------|------|---------|---------|--|----------|-------------------------|-------------------------|-----|---------|---------|----|----------|-------------------------|-------------------------|-------|---------|---------|------|----------|-------------------------|-------------------------|-------|---------|---------|------|--|
| 4,520                   | number   | [m]                     | [m]                     | [m]  | [m]     | [mm]    |  | number   | [m]                     | [m]                     | [m] | [m]     | [mm]    |    | number   | [m]                     | [m]                     | [m]   | [m]     | [m]     | [mm] |          | number                  | [m]                     | [m]   | [m]     | [m]     | [mm] |  |
| 1                       | 1        | -20                     | 4,52                    | -2,8 | 0,001   | 1       |  | 2        | 1                       | -20                     | 0   | -2,8    | 0,001   | 1  | 3        | 1                       | -20                     | -4,52 | -2,8    | 0,001   | 1    | 4        | 1                       | -20                     | -9,04 | -2,8    | 0,002   | 2    |  |
|                         | 2        | -5                      | 4,52                    | -2,8 | 0,006   | 6       |  | 2        | 2                       | -5                      | 0   | -2,8    | 0,009   | 9  |          | 2                       | -5                      | -4,52 | -2,8    | 0,012   | 12   |          | 2                       | -5                      | -9,04 | -2,8    | 0,014   | 14   |  |
|                         | 3        | 0                       | 4,52                    | -2,8 | 0,01    | 10      |  | 3        | 3                       | 0                       | 0   | -2,8    | 0,019   | 19 |          | 3                       | 0                       | -4,52 | -2,8    | 0,027   | 27   |          | 3                       | 0                       | -9,04 | -2,8    | 0,03    | 30   |  |
|                         | 4        | 4,05                    | 4,52                    | -2,8 | 0,013   | 13      |  | 4        | 4                       | 4,05                    | 0   | -2,8    | 0,027   | 27 |          | 4                       | 4,05                    | -4,52 | -2,8    | 0,039   | 39   |          | 4                       | 4,05                    | -9,04 | -2,8    | 0,044   | 44   |  |
|                         | 5        | 12                      | 4,52                    | -2,8 | 0,018   | 18      |  | 5        | 5                       | 12                      | 0   | -2,8    | 0,034   | 34 |          | 5                       | 12                      | -4,52 | -2,8    | 0,049   | 49   |          | 5                       | 12                      | -9,04 | -2,8    | 0,055   | 55   |  |
|                         | 6        | 19,8                    | 4,52                    | -2,8 | 0,02    | 20      |  | 6        | 6                       | 19,8                    | 0   | -2,8    | 0,038   | 38 |          | 6                       | 19,8                    | -4,52 | -2,8    | 0,054   | 54   |          | 6                       | 19,8                    | -9,04 | -2,8    | 0,06    | 60   |  |
|                         | 7        | 27,6                    | 4,52                    | -2,8 | 0,023   | 23      |  | 7        | 7                       | 27,6                    | 0   | -2,8    | 0,043   | 43 |          | 7                       | 27,6                    | -4,52 | -2,8    | 0,062   | 62   |          | 7                       | 27,6                    | -9,04 | -2,8    | 0,068   | 68   |  |
|                         | 8        | 35,4                    | 4,52                    | -2,8 | 0,023   | 23      |  | 8        | 8                       | 35,4                    | 0   | -2,8    | 0,044   | 44 |          | 8                       | 35,4                    | -4,52 | -2,8    | 0,062   | 62   |          | 8                       | 35,4                    | -9,04 | -2,8    | 0,069   | 69   |  |
|                         | 9        | 43,2                    | 4,52                    | -2,8 | 0,021   | 21      |  | 9        | 9                       | 43,2                    | 0   | -2,8    | 0,04    | 40 |          | 9                       | 43,2                    | -4,52 | -2,8    | 0,057   | 57   |          | 9                       | 43,2                    | -9,04 | -2,8    | 0,064   | 64   |  |
|                         | 10       | 47,1                    | 4,52                    | -2,8 | 0,02    | 20      |  | 10       | 10                      | 47,1                    | 0   | -2,8    | 0,037   | 37 |          | 10                      | 47,1                    | -4,52 | -2,8    | 0,053   | 53   |          | 10                      | 47,1                    | -9,04 | -2,8    | 0,059   | 59   |  |
|                         | 11       | 51                      | 4,52                    | -2,8 | 0,019   | 19      |  | 11       | 11                      | 51                      | 0   | -2,8    | 0,035   | 35 |          | 11                      | 51                      | -4,52 | -2,8    | 0,05    | 50   |          | 11                      | 51                      | -9,04 | -2,8    | 0,056   | 56   |  |
|                         | 12       | 54,9                    | 4,52                    | -2,8 | 0,019   | 19      |  | 12       | 12                      | 54,9                    | 0   | -2,8    | 0,034   | 34 |          | 12                      | 54,9                    | -4,52 | -2,8    | 0,049   | 49   |          | 12                      | 54,9                    | -9,04 | -2,8    | 0,055   | 55   |  |
|                         | 13       | 58,8                    | 4,52                    | -2,8 | 0,019   | 19      |  | 13       | 13                      | 58,8                    | 0   | -2,8    | 0,036   | 36 |          | 13                      | 58,8                    | -4,52 | -2,8    | 0,05    | 50   |          | 13                      | 58,8                    | -9,04 | -2,8    | 0,057   | 57   |  |
|                         | 14       | 62,7                    | 4,52                    | -2,8 | 0,02    | 20      |  | 14       | 14                      | 62,7                    | 0   | -2,8    | 0,039   | 39 |          | 14                      | 62,7                    | -4,52 | -2,8    | 0,056   | 56   |          | 14                      | 62,7                    | -9,04 | -2,8    | 0,063   | 63   |  |
|                         | 15       | 66,6                    | 4,52                    | -2,8 | 0,021   | 21      |  | 15       | 15                      | 66,6                    | 0   | -2,8    | 0,042   | 42 |          | 15                      | 66,6                    | -4,52 | -2,8    | 0,061   | 61   |          | 15                      | 66,6                    | -9,04 | -2,8    | 0,068   | 68   |  |
|                         | 16       | 70,5                    | 4,52                    | -2,8 | 0,021   | 21      |  | 16       | 16                      | 70,5                    | 0   | -2,8    | 0,042   | 42 |          | 16                      | 70,5                    | -4,52 | -2,8    | 0,061   | 61   |          | 16                      | 70,5                    | -9,04 | -2,8    | 0,068   | 68   |  |
|                         | 17       | 74,4                    | 4,52                    | -2,8 | 0,021   | 21      |  | 17       | 17                      | 74,4                    | 0   | -2,8    | 0,041   | 41 |          | 17                      | 74,4                    | -4,52 | -2,8    | 0,059   | 59   |          | 17                      | 74,4                    | -9,04 | -2,8    | 0,066   | 66   |  |
|                         | 18       | 82,2                    | 4,52                    | -2,8 | 0,021   | 21      |  | 18       | 18                      | 82,2                    | 0   | -2,8    | 0,041   | 41 |          | 18                      | 82,2                    | -4,52 | -2,8    | 0,059   | 59   |          | 18                      | 82,2                    | -9,04 | -2,8    | 0,066   | 66   |  |
|                         | 19       | 90                      | 4,52                    | -2,8 | 0,021   | 21      |  | 19       | 19                      | 90                      | 0   | -2,8    | 0,042   | 42 |          | 19                      | 90                      | -4,52 | -2,8    | 0,061   | 61   |          | 19                      | 90                      | -9,04 | -2,8    | 0,068   | 68   |  |
|                         | 20       | 97,8                    | 4,52                    | -2,8 | 0,021   | 21      |  | 20       | 20                      | 97,8                    | 0   | -2,8    | 0,042   | 42 |          | 20                      | 97,8                    | -4,52 | -2,8    | 0,061   | 61   |          | 20                      | 97,8                    | -9,04 | -2,8    | 0,068   | 68   |  |
|                         | 21       | 105,6                   | 4,52                    | -2,8 | 0,021   | 21      |  | 21       | 21                      | 105,6                   | 0   | -2,8    | 0,041   | 41 |          | 21                      | 105,6                   | -4,52 | -2,8    | 0,06    | 60   |          | 21                      | 105,6                   | -9,04 | -2,8    | 0,066   | 66   |  |
|                         | 22       | 113,4                   | 4,52                    | -2,8 | 0,019   | 19      |  | 22       | 22                      | 113,4                   | 0   | -2,8    | 0,039   | 39 |          | 22                      | 113,4                   | -4,52 | -2,8    | 0,057   | 57   |          | 22                      | 113,4                   | -9,04 | -2,8    | 0,063   | 63   |  |
|                         | 23       | 117,3                   | 4,52                    | -2,8 | 0,017   | 17      |  | 23       | 23                      | 117,3                   | 0   | -2,8    | 0,034   | 34 |          | 23                      | 117,3                   | -4,52 | -2,8    | 0,05    | 50   |          | 23                      | 117,3                   | -9,04 | -2,8    | 0,056   | 56   |  |
|                         | 24       | 121,2                   | 4,52                    | -2,8 | 0,014   | 14      |  | 24       | 24                      | 121,2                   | 0   | -2,8    | 0,028   | 28 |          | 24                      | 121,2                   | -4,52 | -2,8    | 0,041   | 41   |          | 24                      | 121,2                   | -9,04 | -2,8    | 0,046   | 46   |  |
|                         | 25       | 125,1                   | 4,52                    | -2,8 | 0,011   | 11      |  | 25       | 25                      | 125,1                   | 0   | -2,8    | 0,021   | 21 |          | 25                      | 125,1                   | -4,52 | -2,8    | 0,03    | 30   |          | 25                      | 125,1                   | -9,04 | -2,8    | 0,033   | 33   |  |
|                         | 26       | 129,9                   | 4,52                    | -2,8 | 0,008   | 8       |  | 26       | 26                      | 129,9                   | 0   | -2,8    | 0,014   | 14 |          | 26                      | 129,9                   | -4,52 | -2,8    | 0,019   | 19   |          | 26                      | 129,9                   | -9,04 | -2,8    | 0,021   | 21   |  |
|                         | 27       | 134,7                   | 4,52                    | -2,8 | 0,007   | 7       |  | 27       | 27                      | 134,7                   | 0   | -2,8    | 0,012   | 12 |          | 27                      | 134,7                   | -4,52 | -2,8    | 0,016   | 16   |          | 27                      | 134,7                   | -9,04 | -2,8    | 0,018   | 18   |  |
|                         | 28       | 138,6                   | 4,52                    | -2,8 | 0,007   | 7       |  | 28       | 28                      | 138,6                   | 0   | -2,8    | 0,013   | 13 |          | 28                      | 138,6                   | -4,52 | -2,8    | 0,017   | 17   |          | 28                      | 138,6                   | -9,04 | -2,8    | 0,019   | 19   |  |
|                         | 29       | 142,5                   | 4,52                    | -2,8 | 0,009   | 9       |  | 29       | 29                      | 142,5                   | 0   | -2,8    | 0,016   | 16 |          | 29                      | 142,5                   | -4,52 | -2,8    | 0,024   | 24   |          | 29                      | 142,5                   | -9,04 | -2,8    | 0,026   | 26   |  |
|                         | 30       | 146,4                   | 4,52                    | -2,8 | 0,011   | 11      |  | 30       | 30                      | 146,4                   | 0   | -2,8    | 0,021   | 21 |          | 30                      | 146,4                   | -4,52 | -2,8    | 0,031   | 31   |          | 30                      | 146,4                   | -9,04 | -2,8    | 0,034   | 34   |  |
|                         | 31       | 150,3                   | 4,52                    | -2,8 | 0,013   | 13      |  | 31       | 31                      | 150,3                   | 0   | -2,8    | 0,026   | 26 |          | 31                      | 150,3                   | -4,52 | -2,8    | 0,038   | 38   |          | 31                      | 150,3                   | -9,04 | -2,8    | 0,042   | 42   |  |
|                         | 32       | 154,2                   | 4,52                    | -2,8 | 0,015   | 15      |  | 32       | 32                      | 154,2                   | 0   | -2,8    | 0,031   | 31 |          | 32                      | 154,2                   | -4,52 | -2,8    | 0,045   | 45   |          | 32                      | 154,2                   | -9,04 | -2,8    | 0,05    | 50   |  |
|                         | 33       | 158,1                   | 4,52                    | -2,8 | 0,017   | 17      |  | 33       | 33                      | 158,1                   | 0   | -2,8    | 0,035   | 35 |          | 33                      | 158,1                   | -4,52 | -2,8    | 0,05    | 50   |          | 33                      | 158,1                   | -9,04 | -2,8    | 0,056   | 56   |  |
|                         | 34       | 162                     | 4,52                    | -2,8 | 0,024   | 24      |  | 34       | 34                      | 162                     | 0   | -2,8    | 0,046   | 46 |          | 34                      | 162                     | -4,52 | -2,8    | 0,065   | 65   |          | 34                      | 162                     | -9,04 | -2,8    | 0,071   | 71   |  |
|                         | 35       | 165,9                   | 4,52                    | -2,8 | 0,025   | 25      |  | 35       | 35                      | 165,9                   | 0   | -2,8    | 0,047   | 47 |          | 35                      | 165,9                   | -4,52 | -2,8    | 0,067   | 67   |          | 35                      | 165,9                   | -9,04 | -2,8    | 0,074   | 74   |  |
|                         | 36       | 169,8                   | 4,52                    | -2,8 | 0,026   | 26      |  | 36       | 36                      | 169,8                   | 0   | -2,8    | 0,048   | 48 |          | 36                      | 1                       |       |         |         |      |          |                         |                         |       |         |         |      |  |

|   | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|---|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 5 | 1                  | -20                            | -13,55                         | -2,8      | 0,002          | 2               |
|   | 2                  | -5                             | -13,55                         | -2,8      | 0,014          | 14              |
|   | 3                  | 0                              | -13,55                         | -2,8      | 0,03           | 30              |
|   | 4                  | 4,05                           | -13,55                         | -2,8      | 0,044          | 44              |
|   | 5                  | 12                             | -13,55                         | -2,8      | 0,054          | 54              |
|   | 6                  | 19,8                           | -13,55                         | -2,8      | 0,059          | 59              |
|   | 7                  | 27,6                           | -13,55                         | -2,8      | 0,067          | 67              |
|   | 8                  | 35,4                           | -13,55                         | -2,8      | 0,067          | 67              |
|   | 9                  | 43,2                           | -13,55                         | -2,8      | 0,063          | 63              |
|   | 10                 | 47,1                           | -13,55                         | -2,8      | 0,059          | 59              |
|   | 11                 | 51                             | -13,55                         | -2,8      | 0,056          | 56              |
|   | 12                 | 54,9                           | -13,55                         | -2,8      | 0,055          | 55              |
|   | 13                 | 58,8                           | -13,55                         | -2,8      | 0,057          | 57              |
|   | 14                 | 62,7                           | -13,55                         | -2,8      | 0,063          | 63              |
|   | 15                 | 66,6                           | -13,55                         | -2,8      | 0,068          | 68              |
|   | 16                 | 70,5                           | -13,55                         | -2,8      | 0,068          | 68              |
|   | 17                 | 74,4                           | -13,55                         | -2,8      | 0,066          | 66              |
|   | 18                 | 82,2                           | -13,55                         | -2,8      | 0,065          | 65              |
|   | 19                 | 90                             | -13,55                         | -2,8      | 0,067          | 67              |
|   | 20                 | 97,8                           | -13,55                         | -2,8      | 0,066          | 66              |
|   | 21                 | 105,6                          | -13,55                         | -2,8      | 0,065          | 65              |
|   | 22                 | 113,4                          | -13,55                         | -2,8      | 0,061          | 61              |
|   | 23                 | 117,3                          | -13,55                         | -2,8      | 0,054          | 54              |
|   | 24                 | 121,2                          | -13,55                         | -2,8      | 0,044          | 44              |
|   | 25                 | 125,1                          | -13,55                         | -2,8      | 0,033          | 33              |
|   | 26                 | 129,9                          | -13,55                         | -2,8      | 0,021          | 21              |
|   | 27                 | 134,7                          | -13,55                         | -2,8      | 0,017          | 17              |
|   | 28                 | 138,6                          | -13,55                         | -2,8      | 0,019          | 19              |
|   | 29                 | 142,5                          | -13,55                         | -2,8      | 0,025          | 25              |
|   | 30                 | 146,4                          | -13,55                         | -2,8      | 0,033          | 33              |
|   | 31                 | 150,3                          | -13,55                         | -2,8      | 0,04           | 40              |
|   | 32                 | 154,2                          | -13,55                         | -2,8      | 0,048          | 48              |
|   | 33                 | 158,1                          | -13,55                         | -2,8      | 0,054          | 54              |
|   | 34                 | 162                            | -13,55                         | -2,8      | 0,07           | 70              |
|   | 35                 | 165,9                          | -13,55                         | -2,8      | 0,073          | 73              |
|   | 36                 | 169,8                          | -13,55                         | -2,8      | 0,074          | 74              |
|   | 37                 | 173,7                          | -13,55                         | -2,8      | 0,073          | 73              |
|   | 38                 | 177,6                          | -13,55                         | -2,8      | 0,071          | 71              |
|   | 39                 | 181,5                          | -13,55                         | -2,8      | 0,071          | 71              |
|   | 40                 | 185,4                          | -13,55                         | -2,8      | 0,071          | 71              |
|   | 41                 | 189,3                          | -13,55                         | -2,8      | 0,071          | 71              |
|   | 42                 | 193,2                          | -13,55                         | -2,8      | 0,07           | 70              |
|   | 43                 | 197,1                          | -13,55                         | -2,8      | 0,071          | 71              |
|   | 44                 | 201                            | -13,55                         | -2,8      | 0,071          | 71              |
|   | 45                 | 204,9                          | -13,55                         | -2,8      | 0,07           | 70              |
|   | 46                 | 208,8                          | -13,55                         | -2,8      | 0,068          | 68              |
|   | 47                 | 212,7                          | -13,55                         | -2,8      | 0,067          | 67              |
|   | 48                 | 216,6                          | -13,55                         | -2,8      | 0,067          | 67              |
|   | 49                 | 220,5                          | -13,55                         | -2,8      | 0,069          | 69              |
|   | 50                 | 224,4                          | -13,55                         | -2,8      | 0,069          | 69              |
|   | 51                 | 228,3                          | -13,55                         | -2,8      | 0,062          | 62              |
|   | 52                 | 232,2                          | -13,55                         | -2,8      | 0,05           | 50              |
|   | 53                 | 236,1                          | -13,55                         | -2,8      | 0,035          | 35              |
|   | 54                 | 240                            | -13,55                         | -2,8      | 0,02           | 20              |
|   | 55                 | 243,9                          | -13,55                         | -2,8      | 0,011          | 11              |
|   | 56                 | 248,9                          | -13,55                         | -2,8      | 0,005          | 5               |
|   | 57                 | 260                            | -13,55                         | -2,8      | 0,001          | 1               |

|   | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|---|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 6 | 1                  | -20                            | -18,07                         | -2,8      | 0,002          | 2               |
|   | 2                  | -5                             | -18,07                         | -2,8      | 0,013          | 13              |
|   | 3                  | 0                              | -18,07                         | -2,8      | 0,027          | 27              |
|   | 4                  | 4,05                           | -18,07                         | -2,8      | 0,038          | 38              |
|   | 5                  | 12                             | -18,07                         | -2,8      | 0,048          | 48              |
|   | 6                  | 19,8                           | -18,07                         | -2,8      | 0,052          | 52              |
|   | 7                  | 27,6                           | -18,07                         | -2,8      | 0,055          | 55              |
|   | 8                  | 35,4                           | -18,07                         | -2,8      | 0,055          | 55              |
|   | 9                  | 43,2                           | -18,07                         | -2,8      | 0,054          | 54              |
|   | 10                 | 47,1                           | -18,07                         | -2,8      | 0,053          | 53              |
|   | 11                 | 51                             | -18,07                         | -2,8      | 0,051          | 51              |
|   | 12                 | 54,9                           | -18,07                         | -2,8      | 0,05           | 50              |
|   | 13                 | 58,8                           | -18,07                         | -2,8      | 0,052          | 52              |
|   | 14                 | 62,7                           | -18,07                         | -2,8      | 0,056          | 56              |
|   | 15                 | 66,6                           | -18,07                         | -2,8      | 0,059          | 59              |
|   | 16                 | 70,5                           | -18,07                         | -2,8      | 0,06           | 60              |
|   | 17                 | 74,4                           | -18,07                         | -2,8      | 0,059          | 59              |
|   | 18                 | 82,2                           | -18,07                         | -2,8      | 0,057          | 57              |
|   | 19                 | 90                             | -18,07                         | -2,8      | 0,057          | 57              |
|   | 20                 | 97,8                           | -18,07                         | -2,8      | 0,056          | 56              |
|   | 21                 | 105,6                          | -18,07                         | -2,8      | 0,054          | 54              |
|   | 22                 | 113,4                          | -18,07                         | -2,8      | 0,051          | 51              |
|   | 23                 | 117,3                          | -18,07                         | -2,8      | 0,045          | 45              |
|   | 24                 | 121,2                          | -18,07                         | -2,8      | 0,037          | 37              |
|   | 25                 | 125,1                          | -18,07                         | -2,8      | 0,027          | 27              |
|   | 26                 | 129,9                          | -18,07                         | -2,8      | 0,018          | 18              |
|   | 27                 | 134,7                          | -18,07                         | -2,8      | 0,015          | 15              |
|   | 28                 | 138,6                          | -18,07                         | -2,8      | 0,016          | 16              |
|   | 29                 | 142,5                          | -18,07                         | -2,8      | 0,02           | 20              |
|   | 30                 | 146,4                          | -18,07                         | -2,8      | 0,025          | 25              |
|   | 31                 | 150,3                          | -18,07                         | -2,8      | 0,03           | 30              |
|   | 32                 | 154,2                          | -18,07                         | -2,8      | 0,037          | 37              |
|   | 33                 | 158,1                          | -18,07                         | -2,8      | 0,044          | 44              |
|   | 34                 | 162                            | -18,07                         | -2,8      | 0,06           | 60              |
|   | 35                 | 165,9                          | -18,07                         | -2,8      | 0,063          | 63              |
|   | 36                 | 169,8                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 37                 | 173,7                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 38                 | 177,6                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 39                 | 181,5                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 40                 | 185,4                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 41                 | 189,3                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 42                 | 193,2                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 43                 | 197,1                          | -18,07                         | -2,8      | 0,064          | 64              |
|   | 44                 | 201                            | -18,07                         | -2,8      | 0,064          | 64              |
|   | 45                 | 204,9                          | -18,07                         | -2,8      | 0,063          | 63              |
|   | 46                 | 208,8                          | -18,07                         | -2,8      | 0,062          | 62              |
|   | 47                 | 212,7                          | -18,07                         | -2,8      | 0,06           | 60              |
|   | 48                 | 216,6                          | -18,07                         | -2,8      | 0,06           | 60              |
|   | 49                 | 220,5                          | -18,07                         | -2,8      | 0,06           | 60              |
|   | 50                 | 224,4                          | -18,07                         | -2,8      | 0,061          | 61              |
|   | 51                 | 228,3                          | -18,07                         | -2,8      | 0,056          | 56              |
|   | 52                 | 232,2                          | -18,07                         | -2,8      | 0,041          | 41              |
|   | 53                 | 236,1                          | -18,07                         | -2,8      | 0,027          | 27              |
|   | 54                 | 240                            | -18,07                         | -2,8      | 0,015          | 15              |
|   | 55                 | 243,9                          | -18,07                         | -2,8      | 0,009          | 9               |
|   | 56                 | 248,9                          | -18,07                         | -2,8      | 0,004          | 4               |
|   | 57                 | 260                            | -18,07                         | -2,8      | 0,001          | 1               |

|   | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|---|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 7 | 1                  | -20                            | -22,59                         | -2,8      | 0,001          | 1               |
|   | 2                  | -5                             | -22,59                         | -2,8      | 0,011          | 11              |
|   | 3                  | 0                              | -22,59                         | -2,8      | 0,023          | 23              |
|   | 4                  | 4,05                           | -22,59                         | -2,8      | 0,032          | 32              |
|   | 5                  | 12                             | -22,59                         | -2,8      | 0,04           | 40              |
|   | 6                  | 19,8                           | -22,59                         | -2,8      | 0,042          | 42              |
|   | 7                  | 27,6                           | -22,59                         | -2,8      | 0,04           | 40              |
|   | 8                  | 35,4                           | -22,59                         | -2,8      | 0,041          | 41              |
|   | 9                  | 43,2                           | -22,59                         | -2,8      | 0,044          | 44              |
|   | 10                 | 47,1                           | -22,59                         | -2,8      | 0,044          | 44              |
|   | 11                 | 51                             | -22,59                         | -2,8      | 0,044          | 44              |
|   | 12                 | 54,9                           | -22,59                         | -2,8      | 0,044          | 44              |
|   | 13                 | 58,8                           | -22,59                         | -2,8      | 0,045          | 45              |
|   | 14                 | 62,7                           | -22,59                         | -2,8      | 0,046          | 46              |
|   | 15                 | 66,6                           | -22,59                         | -2,8      | 0,048          | 48              |
|   | 16                 | 70,5                           | -22,59                         | -2,8      | 0,049          | 49              |
|   | 17                 | 74,4                           | -22,59                         | -2,8      | 0,049          | 49              |
|   | 18                 | 82,2                           | -22,59                         | -2,8      | 0,046          | 46              |
|   | 19                 | 90                             | -22,59                         | -2,8      | 0,044          | 44              |
|   | 20                 | 97,8                           | -22,59                         | -2,8      | 0,042          | 42              |
|   | 21                 | 105,6                          | -22,59                         | -2,8      | 0,041          | 41              |
|   | 22                 | 113,4                          | -22,59                         | -2,8      | 0,039          | 39              |
|   | 23                 | 117,3                          | -22,59                         | -2,8      | 0,034          | 34              |
|   | 24                 | 121,2                          | -22,59                         | -2,8      | 0,027          | 27              |
|   | 25                 | 125,1                          | -22,59                         | -2,8      | 0,021          | 21              |
|   | 26                 | 129,9                          | -22,59                         | -2,8      | 0,015          | 15              |
|   | 27                 | 134,7                          | -22,59                         | -2,8      | 0,012          | 12              |
|   | 28                 | 138,6                          | -22,59                         | -2,8      | 0,012          | 12              |
|   | 29                 | 142,5                          | -22,59                         | -2,8      | 0,013          | 13              |
|   | 30                 | 146,4                          | -22,59                         | -2,8      | 0,016          | 16              |
|   | 31                 | 150,3                          | -22,59                         | -2,8      | 0,019          | 19              |
|   | 32                 | 154,2                          | -22,59                         | -2,8      | 0,024          | 24              |
|   | 33                 | 158,1                          | -22,59                         | -2,8      | 0,031          | 31              |
|   | 34                 | 162                            | -22,59                         | -2,8      | 0,048          | 48              |
|   | 35                 | 165,9                          | -22,59                         | -2,8      | 0,05           | 50              |
|   | 36                 | 169,8                          | -22,59                         | -2,8      | 0,051          | 51              |
|   | 37                 | 173,7                          | -22,59                         | -2,8      | 0,054          | 54              |
|   | 38                 | 177,6                          | -22,59                         | -2,8      | 0,055          | 55              |
|   | 39                 | 181,5                          | -22,59                         | -2,8      | 0,055          | 55              |
|   | 40                 | 185,4                          | -22,59                         | -2,8      | 0,054          | 54              |
|   | 41                 | 189,3                          | -22,59                         | -2,8      | 0,056          | 56              |
|   | 42                 | 193,2                          | -22,59                         | -2,8      | 0,057          | 57              |
|   | 43                 | 197,1                          | -22,59                         | -2,8      | 0,056          | 56              |
|   | 44                 | 201                            | -22,59                         | -2,8      | 0,055          | 55              |
|   | 45                 | 204,9                          | -22,59                         | -2,8      | 0,055          | 55              |
|   | 46                 | 208,8                          | -22,59                         | -2,8      | 0,054          | 54              |
|   | 47                 | 212,7                          | -22,59                         | -2,8      | 0,052          | 52              |
|   | 48                 | 216,6                          | -22,59                         | -2,8      | 0,05           | 50              |
|   | 49                 | 220,5                          | -22,59                         | -2,8      | 0,049          | 49              |
|   | 50                 | 224,4                          | -22,59                         | -2,8      | 0,049          | 49              |
|   | 51                 | 228,3                          | -22,59                         | -2,8      | 0,045          | 45              |
|   | 52                 | 232,2                          | -22,59                         | -2,8      | 0,03           | 30              |
|   | 53                 | 236,1                          | -22,59                         | -2,8      | 0,018          | 18              |
|   | 54                 | 240                            | -22,59                         | -2,8      | 0,011          | 11              |
|   | 55                 | 243,9                          | -22,59                         | -2,8      | 0,007          | 7               |
|   | 56                 | 248,9                          | -22,59                         | -2,8      | 0,003          | 3               |
|   | 57                 | 260                            | -22,59                         | -2,8      | 0,001          | 1               |

|   | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|---|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 8 | 1                  | -20                            | -27,11                         | -2,8      | 0,001          | 1               |
|   | 2                  | -5                             | -27,11                         | -2,8      | 0,009          | 9               |
|   | 3                  | 0                              | -27,11                         | -2,8      | 0,019          | 19              |
|   | 4                  | 4,05                           | -27,11                         | -2,8      | 0,028          | 28              |
|   | 5                  | 12                             | -27,11                         | -2,8      | 0,034          | 34              |
|   | 6                  | 19,8                           | -27,11                         | -2,8      | 0,035          | 35              |
|   | 7                  | 27,6                           | -27,11                         | -2,8      | 0,031          | 31              |
|   | 8                  | 35,4                           | -27,11                         | -2,8      | 0,032          | 32              |
|   | 9                  | 43,2                           | -27,11                         | -2,8      | 0,036          | 36              |
|   | 10                 | 47,1                           | -27,11                         | -2,8      | 0,037          | 37              |
|   | 11                 | 51                             | -27,11                         | -2,8      | 0,038          | 38              |
|   | 12                 | 54,9                           | -27,11                         | -2,8      | 0,038          | 38              |
|   | 13                 | 58,8                           | -27,11                         | -2,8      | 0,039          | 39              |
|   | 14                 | 62,7                           | -27,11                         | -2,8      | 0,04           | 40              |
|   | 15                 | 66,6                           | -27,11                         | -2,8      | 0,041          | 41              |

|   | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|---|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 9 | 1                  | -20                            | -31,62                         | -2,8      | 0,001          | 1               |
|   | 2                  | -5                             | -31,62                         | -2,8      | 0,007          | 7               |
|   | 3                  | 0                              | -31,62                         | -2,8      | 0,016          | 16              |
|   | 4                  | 4,05                           | -31,62                         | -2,8      | 0,023          | 23              |
|   | 5                  | 12                             | -31,62                         | -2,8      | 0,028          | 28              |
|   | 6                  | 19,8                           | -31,62                         | -2,8      | 0,028          | 28              |
|   | 7                  | 27,6                           | -31,62                         | -2,8      | 0,024          | 24              |
|   | 8                  | 35,4                           | -31,62                         | -2,8      | 0,025          | 25              |
|   | 9                  | 43,2                           | -31,62                         | -2,8      | 0,03           | 30              |
|   | 10                 | 47,1                           | -31,62                         | -2,8      | 0,031          | 31              |
|   | 11                 | 51                             | -31,62                         | -2,8      | 0,031          | 31              |
|   | 12                 | 54,9                           | -31,62                         | -2,8      | 0,032          | 32              |
|   | 13                 | 58,8                           | -31,62                         | -2,8      | 0,032          | 32              |
|   | 14                 | 62,7                           | -31,62                         | -2,8      | 0,033          | 33              |
|   | 15                 | 66,6                           | -31,62                         | -2,8      | 0,034          | 34              |
|   | 16                 | 70,5                           | -31,62                         | -2,8      | 0,035          | 35              |
|   | 17                 | 74,4                           | -31,62                         | -2,8      | 0,035          | 35              |
|   | 18                 | 82,2                           | -31,62                         | -2,8      | 0,032          | 32              |
|   | 19                 | 90                             | -31,62                         | -2,8      | 0,03           | 30              |
|   | 20                 | 97,8                           | -31,62                         | -2,8      | 0,028          | 28              |
|   | 21                 | 105,6                          | -31,62                         | -2,8      | 0,027          | 27              |
|   | 22                 | 113,4                          | -31,62                         | -2,8      | 0,025          | 25              |
|   | 23                 | 117,3                          | -31,62                         | -2,8      | 0,022          | 22              |
|   | 24                 | 121,2                          | -31,62                         | -2,8      | 0,017          | 17              |
|   | 25                 | 125,1                          | -31,62                         | -2,8      | 0,013          | 13              |
|   | 26                 | 129,9                          | -31,62                         | -2,8      | 0,009          | 9               |
|   | 27                 | 134,7                          | -31,62                         | -2,8      | 0,008          | 8               |
|   | 28                 | 138,6                          | -31,62                         | -2,8      | 0,007          | 7               |
|   | 29                 | 142,5                          | -31,62                         | -2,8      | 0,007          | 7               |
|   | 30                 | 146,4                          | -31,62                         | -2,8      | 0,008          | 8               |
|   | 31                 | 150,3                          | -31,62                         | -2,8      | 0,01           | 10              |
|   | 32                 | 154,2                          | -31,62                         | -2,8      | 0,013          | 13              |
|   | 33                 | 158,1                          | -31,62                         | -2,8      | 0,02           | 20              |
|   | 34                 | 162                            | -31,62                         | -2,8      | 0,034          | 34              |
|   | 35                 | 165,9                          | -31,62                         | -2,8      | 0,037          | 37              |
|   | 36                 | 169,8                          | -31,62                         | -2,8      | 0,039          | 39              |
|   | 37                 | 173,7                          | -31,62                         | -2,8      | 0,042          | 42              |
|   | 38                 | 177,6                          | -31,62                         | -2,8      | 0,046          | 46              |
|   | 39                 | 181,5                          | -31,62                         | -2,8      | 0,048          | 48              |
|   | 40                 | 185,4                          | -31,62                         | -2,8      | 0,049          | 49              |
|   | 41                 | 189,3                          | -31,62                         | -2,8      | 0,053          | 53              |
|   | 42                 | 193,2                          | -31,62                         | -2,8      | 0,056          | 56              |
|   | 43                 | 197,1                          | -31,62                         | -2,8      | 0,056          | 56              |
|   | 44                 | 201                            | -31,62                         | -2,8      | 0,055          | 55              |
|   | 45                 | 204,9                          | -31,62                         | -2,8      | 0,054          | 54              |
|   | 46                 | 208,8                          | -31,62                         | -2,8      | 0,053          | 53              |
|   | 47                 | 212,7                          | -31,62                         | -2,8      | 0,049          | 49              |
|   | 48                 | 216,6                          | -31,62                         | -2,8      | 0,044          | 44              |
|   | 49                 | 220,5                          | -31,62                         | -2,8      | 0,04           | 40              |
|   | 50                 | 224,4                          | -31,62                         | -2,8      | 0,034          | 34              |
|   | 51                 | 228,3                          | -31,62                         | -2,8      | 0,025          | 25              |
|   | 52                 | 232,2                          | -31,62                         | -2,8      | 0,015          | 15              |
|   | 53                 | 236,1                          | -31,62                         | -2,8      | 0,01           | 10              |
|   | 54                 | 240                            | -31,62                         | -2,8      | 0,006          | 6               |
|   | 55                 | 243,9                          | -31,62                         | -2,8      | 0,004          | 4               |
|   | 56                 | 248,9                          | -31,62                         | -2,8      | 0,002          | 2               |
|   | 57                 | 260                            | -31,62                         | -2,8      | 0,001          | 1               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 10 | 1                  | -20                            | -36,14                         | -2,8      | 0,001          | 1               |
|    | 2                  | -5                             | -36,14                         | -2,8      | 0,005          | 5               |
|    | 3                  | 0                              | -36,14                         | -2,8      | 0,011          | 11              |
|    | 4                  | 4,05                           | -36,14                         | -2,8      | 0,015          | 15              |
|    | 5                  | 12                             | -36,14                         | -2,8      | 0,019          | 19              |
|    | 6                  | 19,8                           | -36,14                         | -2,8      | 0,019          | 19              |
|    | 7                  | 27,6                           | -36,14                         | -2,8      | 0,016          | 16              |
|    | 8                  | 35,4                           | -36,14                         | -2,8      | 0,017          | 17              |
|    | 9                  | 43,2                           | -36,14                         | -2,8      | 0,02           | 20              |
|    | 10                 | 47,1                           | -36,14                         | -2,8      | 0,021          | 21              |
|    | 11                 | 51                             | -36,14                         | -2,8      | 0,021          | 21              |
|    | 12                 | 54,9                           | -36,14                         | -2,8      | 0,021          | 21              |
|    | 13                 | 58,8                           | -36,14                         | -2,8      | 0,022          | 22              |
|    | 14                 | 62,7                           | -36,14                         | -2,8      | 0,022          | 22              |
|    | 15                 | 66,6                           | -36,14                         | -2,8      | 0,023          | 23              |
|    | 16                 | 70,5                           | -36,14                         | -2,8      | 0,024          | 24              |
|    | 17                 | 74,4                           | -36,14                         | -2,8      | 0,024          | 24              |
|    | 18                 | 82,2                           | -36,14                         | -2,8      | 0,021          | 21              |
|    | 19                 | 90                             | -36,14                         | -2,8      | 0,02           | 20              |
|    | 20                 | 97,8                           | -36,14                         | -2,8      | 0,018          | 18              |
|    | 21                 | 105,6                          | -36,14                         | -2,8      | 0,018          | 18              |
|    | 22                 | 113,4                          | -36,14                         | -2,8      | 0,016          | 16              |
|    | 23                 | 117,3                          | -36,14                         | -2,8      | 0,014          | 14              |
|    | 24                 | 121,2                          | -36,14                         | -2,8      | 0,011          | 11              |
|    | 25                 | 125,1                          | -36,14                         | -2,8      | 0,009          | 9               |
|    | 26                 | 129,9                          | -36,14                         | -2,8      | 0,006          | 6               |
|    | 27                 | 134,7                          | -36,14                         | -2,8      | 0,005          | 5               |
|    | 28                 | 138,6                          | -36,14                         | -2,8      | 0,005          | 5               |
|    | 29                 | 142,5                          | -36,14                         | -2,8      | 0,005          | 5               |
|    | 30                 | 146,4                          | -36,14                         | -2,8      | 0,005          | 5               |
|    | 31                 | 150,3                          | -36,14                         | -2,8      | 0,007          | 7               |
|    | 32                 | 154,2                          | -36,14                         | -2,8      | 0,009          | 9               |
|    | 33                 | 158,1                          | -36,14                         | -2,8      | 0,014          | 14              |
|    | 34                 | 162                            | -36,14                         | -2,8      | 0,026          | 26              |
|    | 35                 | 165,9                          | -36,14                         | -2,8      | 0,029          | 29              |
|    | 36                 | 169,8                          | -36,14                         | -2,8      | 0,032          | 32              |
|    | 37                 | 173,7                          | -36,14                         | -2,8      | 0,036          | 36              |
|    | 38                 | 177,6                          | -36,14                         | -2,8      | 0,041          | 41              |
|    | 39                 | 181,5                          | -36,14                         | -2,8      | 0,046          | 46              |
|    | 40                 | 185,4                          | -36,14                         | -2,8      | 0,052          | 52              |
|    | 41                 | 189,3                          | -36,14                         | -2,8      | 0,059          | 59              |
|    | 42                 | 193,2                          | -36,14                         | -2,8      | 0,064          | 64              |
|    | 43                 | 197,1                          | -36,14                         | -2,8      | 0,065          | 65              |
|    | 44                 | 201                            | -36,14                         | -2,8      | 0,065          | 65              |
|    | 45                 | 204,9                          | -36,14                         | -2,8      | 0,064          | 64              |
|    | 46                 | 208,8                          | -36,14                         | -2,8      | 0,062          | 62              |
|    | 47                 | 212,7                          | -36,14                         | -2,8      | 0,056          | 56              |
|    | 48                 | 216,6                          | -36,14                         | -2,8      | 0,047          | 47              |
|    | 49                 | 220,5                          | -36,14                         | -2,8      | 0,038          | 38              |
|    | 50                 | 224,4                          | -36,14                         | -2,8      | 0,029          | 29              |
|    | 51                 | 228,3                          | -36,14                         | -2,8      | 0,02           | 20              |
|    | 52                 | 232,2                          | -36,14                         | -2,8      | 0,013          | 13              |
|    | 53                 | 236,1                          | -36,14                         | -2,8      | 0,008          | 8               |
|    | 54                 | 240                            | -36,14                         | -2,8      | 0,005          | 5               |
|    | 55                 | 243,9                          | -36,14                         | -2,8      | 0,003          | 3               |
|    | 56                 | 248,9                          | -36,14                         | -2,8      | 0,002          | 2               |
|    | 57                 | 260                            | -36,14                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 11 | 1                  | -20                            | -38,09                         | -2,8      | 0,001          | 1               |
|    | 2                  | -5                             | -38,09                         | -2,8      | 0,004          | 4               |
|    | 3                  | 0                              | -38,09                         | -2,8      | 0,008          | 8               |
|    | 4                  | 4,05                           | -38,09                         | -2,8      | 0,011          | 11              |
|    | 5                  | 12                             | -38,09                         | -2,8      | 0,014          | 14              |
|    | 6                  | 19,8                           | -38,09                         | -2,8      | 0,014          | 14              |
|    | 7                  | 27,6                           | -38,09                         | -2,8      | 0,012          | 12              |
|    | 8                  | 35,4                           | -38,09                         | -2,8      | 0,013          | 13              |
|    | 9                  | 43,2                           | -38,09                         | -2,8      | 0,015          | 15              |
|    | 10                 | 47,1                           | -38,09                         | -2,8      | 0,016          | 16              |
|    | 11                 | 51                             | -38,09                         | -2,8      | 0,016          | 16              |
|    | 12                 | 54,9                           | -38,09                         | -2,8      | 0,016          | 16              |
|    | 13                 | 58,8                           | -38,09                         | -2,8      | 0,017          | 17              |
|    | 14                 | 62,7                           | -38,09                         | -2,8      | 0,017          | 17              |
|    | 15                 | 66,6                           | -38,09                         | -2,8      | 0,018          | 18              |
|    | 16                 | 70,5                           | -38,09                         | -2,8      | 0,018          | 18              |
|    | 17                 | 74,4                           | -38,09                         | -2,8      | 0,018          | 18              |
|    | 18                 | 82,2                           | -38,09                         | -2,8      | 0,016          | 16              |
|    | 19                 | 90                             | -38,09                         | -2,8      | 0,015          | 15              |
|    | 20                 | 97,8                           | -38,09                         | -2,8      | 0,014          | 14              |
|    | 21                 | 105,6                          | -38,09                         | -2,8      | 0,013          | 13              |
|    | 22                 | 113,4                          | -38,09                         | -2,8      | 0,012          | 12              |
|    | 23                 | 117,3                          | -38,09                         | -2,8      | 0,01           | 10              |
|    | 24                 | 121,2                          | -38,09                         | -2,8      | 0,009          | 9               |
|    | 25                 | 125,1                          | -38,09                         | -2,8      | 0,007          | 7               |
|    | 26                 | 129,9                          | -38,09                         | -2,8      | 0,005          | 5               |
|    | 27                 | 134,7                          | -38,09                         | -2,8      | 0,004          | 4               |
|    | 28                 | 138,6                          | -38,09                         | -2,8      | 0,004          | 4               |
|    | 29                 | 142,5                          | -38,09                         | -2,8      | 0,004          | 4               |
|    | 30                 | 146,4                          | -38,09                         | -2,8      | 0,004          | 4               |
|    | 31                 | 150,3                          | -38,09                         | -2,8      | 0,005          | 5               |
|    | 32                 | 154,2                          | -38,09                         | -2,8      | 0,007          | 7               |
|    | 33                 | 158,1                          | -38,09                         | -2,8      | 0,011          | 11              |
|    | 34                 | 162                            | -38,09                         | -2,8      | 0,024          | 24              |
|    | 35                 | 165,9                          | -38,09                         | -2,8      | 0,028          | 28              |
|    | 36                 | 169,8                          | -38,09                         | -2,8      | 0,031          | 31              |
|    | 37                 | 173,7                          | -38,09                         | -2,8      | 0,035          | 35              |
|    | 38                 | 177,6                          | -38,09                         | -2,8      | 0,041          | 41              |
|    | 39                 | 181,5                          | -38,09                         | -2,8      | 0,048          | 48              |
|    | 40                 | 185,4                          | -38,09                         | -2,8      | 0,057          | 57              |
|    | 41                 | 189,3                          | -38,09                         | -2,8      | 0,067          | 67              |
|    | 42                 | 193,2                          | -38,09                         | -2,8      | 0,073          | 73              |
|    | 43                 | 197,1                          | -38,09                         | -2,8      | 0,075          | 75              |
|    | 44                 | 201                            | -38,09                         | -2,8      | 0,075          | 75              |
|    | 45                 | 204,9                          | -38,09                         | -2,8      | 0,074          | 74              |
|    | 46                 | 208,8                          | -38,09                         | -2,8      | 0,07           | 70              |
|    | 47                 | 212,7                          | -38,09                         | -2,8      | 0,063          | 63              |
|    | 48                 | 216,6                          | -38,09                         | -2,8      | 0,052          | 52              |
|    | 49                 | 220,5                          | -38,09                         | -2,8      | 0,039          | 39              |
|    | 50                 | 224,4                          | -38,09                         | -2,8      | 0,027          | 27              |
|    | 51                 | 228,3                          | -38,09                         | -2,8      | 0,018          | 18              |
|    | 52                 | 232,2                          | -38,09                         | -2,8      | 0,012          | 12              |
|    | 53                 | 236,1                          | -38,09                         | -2,8      | 0,007          | 7               |
|    | 54                 | 240                            | -38,09                         | -2,8      | 0,005          | 5               |
|    | 55                 | 243,9                          | -38,09                         | -2,8      | 0,003          | 3               |
|    | 56                 | 248,9                          | -38,09                         | -2,8      | 0,002          | 2               |
|    | 57                 | 260                            | -38,09                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 12 | 1                  | -20                            | -41,99                         | -2,8      | 0,001          | 1               |
|    | 2                  | -5                             | -41,99                         | -2,8      | 0,003          | 3               |
|    | 3                  | 0                              | -41,99                         | -2,8      | 0,005          | 5               |
|    | 4                  | 4,05                           | -41,99                         | -2,8      | 0,006          | 6               |
|    | 5                  | 12                             | -41,99                         | -2,8      | 0,008          | 8               |
|    | 6                  | 19,8                           | -41,99                         | -2,8      | 0,008          | 8               |
|    | 7                  | 27,6                           | -41,99                         | -2,8      | 0,007          | 7               |
|    | 8                  | 35,4                           | -41,99                         | -2,8      | 0,007          | 7               |
|    | 9                  | 43,2                           | -41,99                         | -2,8      | 0,008          | 8               |
|    | 10                 | 47,1                           | -41,99                         | -2,8      | 0,009          | 9               |
|    | 11                 | 51                             | -41,99                         | -2,8      | 0,009          | 9               |
|    | 12                 | 54,9                           | -41,99                         | -2,8      | 0,009          | 9               |
|    | 13                 | 58,8                           | -41,99                         | -2,8      | 0,009          | 9               |
|    | 14                 | 62,7                           | -41,99                         | -2,8      | 0,01           | 10              |
|    | 15                 | 66,6                           | -41,99                         | -2,8      | 0,01           | 10              |
|    | 16                 | 70,5                           | -41,99                         | -2,8      | 0,01           | 10              |
|    | 17                 | 74,4                           | -41,99                         | -2,8      | 0,01           | 10              |
|    | 18                 | 82,2                           | -41,99                         | -2,8      | 0,009          | 9               |
|    | 19                 | 90                             | -41,99                         | -2,8      | 0,009          | 9               |
|    | 20                 | 97,8                           | -41,99                         | -2,8      | 0,008          | 8               |
|    | 21                 | 105,6                          | -41,99                         | -2,8      | 0,007          | 7               |
|    | 22                 | 113,4                          | -41,99                         | -2,8      | 0,006          | 6               |
|    | 23                 | 117,3                          | -41,99                         | -2,8      | 0,006          | 6               |
|    | 24                 | 121,2                          | -41,99                         | -2,8      | 0,005          | 5               |
|    | 25                 | 125,1                          | -41,99                         | -2,8      | 0,004          | 4               |
|    | 26                 | 129,9                          | -41,99                         | -2,8      | 0,003          | 3               |
|    | 27                 | 134,7                          | -41,99                         | -2,8      | 0,003          | 3               |
|    | 28                 | 138,6                          | -41,99                         | -2,8      | 0,002          | 2               |
|    | 29                 | 142,5                          | -41,99                         | -2,8      | 0,003          | 3               |
|    | 30                 | 146,4                          | -41,99                         | -2,8      | 0,003          | 3               |
|    | 31                 | 150,3                          | -41,99                         | -2,8      | 0,004          | 4               |
|    | 32                 | 154,2                          | -41,99                         | -2,8      | 0,005          | 5               |
|    | 33                 | 158,1                          | -41,99                         | -2,8      | 0,01           | 10              |
|    | 34                 | 162                            | -41,99                         | -2,8      | 0,023          | 23              |
|    | 35                 | 165,9                          | -41,99                         | -2,8      | 0,028          | 28              |
|    | 36                 | 169,8                          | -41,99                         | -2,8      | 0,032          | 32              |
|    | 37                 | 173,7                          | -41,99                         | -2,8      | 0,037          | 37              |
|    | 38                 | 177,6                          | -41,99                         | -2,8      | 0,045          | 45              |
|    | 39                 | 181,5                          | -41,99                         | -2,8      | 0,058          | 58              |
|    | 40                 | 185,4                          | -41,99                         | -2,8      | 0,078          | 78              |
|    | 41                 | 189,3                          | -41,99                         | -2,8      | 0,096          | 96              |
|    | 42                 | 193,2                          | -41,99                         | -2,8      | 0,104          | 104             |
|    | 43                 | 197,1                          | -41,99                         | -2,8      | 0,108          | 108             |
|    | 44                 | 201                            | -41,99                         | -2,8      | 0,109          | 109             |
|    | 45                 | 204,9                          | -41,99                         | -2,8      | 0,107          | 107             |
|    | 46                 | 208,8                          | -41,99                         | -2,8      | 0,101          | 101             |
|    | 47                 | 212,7                          | -41,99                         | -2,8      | 0,091          | 91              |
|    | 48                 | 216,6                          | -41,99                         | -2,8      | 0,071          | 71              |
|    | 49                 | 220,5                          | -41,99                         | -2,8      | 0,046          | 46              |
|    | 50                 | 224,4                          | -41,99                         | -2,8      | 0,028          | 28              |
|    | 51                 | 228,3                          | -41,99                         | -2,8      | 0,017          | 17              |
|    | 52                 | 232,2                          | -41,99                         | -2,8      | 0,011          | 11              |
|    | 53                 | 236,1                          | -41,99                         | -2,8      | 0,007          | 7               |
|    | 54                 | 240                            | -41,99                         | -2,8      | 0,004          | 4               |
|    | 55                 | 243,9                          | -41,99                         | -2,8      | 0,003          | 3               |
|    | 56                 | 248,9                          | -41,99                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -41,99                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 13 | 1                  | -20                            | -45,89                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -45,89                         | -2,8      | 0,002          | 2               |
|    | 3                  | 0                              | -45,89                         | -2,8      | 0,003          | 3               |
|    | 4                  | 4,05                           | -45,89                         | -2,8      | 0,003          | 3               |
|    | 5                  | 12                             | -45,89                         | -2,8      | 0,004          | 4               |
|    | 6                  | 19,8                           | -45,89                         | -2,8      | 0,004          | 4               |
|    | 7                  | 27,6                           | -45,89                         | -2,8      | 0,004          | 4               |
|    | 8                  | 35,4                           | -45,89                         | -2,8      | 0,004          | 4               |
|    | 9                  | 43,2                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 10                 | 47,1                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 11                 | 51                             | -45,89                         | -2,8      | 0,005          | 5               |
|    | 12                 | 54,9                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 13                 | 58,8                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 14                 | 62,7                           | -45,89                         | -2,8      | 0,006          | 6               |
|    | 15                 | 66,6                           | -45,89                         | -2,8      | 0,006          | 6               |
|    | 16                 | 70,5                           | -45,89                         | -2,8      | 0,006          | 6               |
|    | 17                 | 74,4                           | -45,89                         | -2,8      | 0,006          | 6               |
|    | 18                 | 82,2                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 19                 | 90                             | -45,89                         | -2,8      | 0,005          | 5               |
|    | 20                 | 97,8                           | -45,89                         | -2,8      | 0,005          | 5               |
|    | 21                 | 105,6                          | -45,89                         | -2,8      | 0,004          | 4               |
|    | 22                 | 113,4                          | -45,89                         | -2,8      | 0,004          | 4               |
|    | 23                 | 117,3                          | -45,89                         | -2,8      | 0,003          | 3               |
|    | 24                 | 121,2                          | -45,89                         | -2,8      | 0,003          | 3               |
|    | 25                 | 125,1                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 26                 | 129,9                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 27                 | 134,7                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 28                 | 138,6                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 29                 | 142,5                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 30                 | 146,4                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 31                 | 150,3                          | -45,89                         | -2,8      | 0,003          | 3               |
|    | 32                 | 154,2                          | -45,89                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -45,89                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -45,89                         | -2,8      | 0,023          | 23              |
|    | 35                 | 165,9                          | -45,89                         | -2,8      | 0,028          | 28              |
|    | 36                 | 169,8                          | -45,89                         | -2,8      | 0,033          | 33              |
|    | 37                 | 173,7                          | -45,89                         | -2,8      | 0,04           | 40              |
|    | 38                 | 177,6                          | -45,89                         | -2,8      | 0,05           | 50              |
|    | 39                 | 181,5                          | -45,89                         | -2,8      | 0,069          | 69              |
|    | 40                 | 185,4                          | -45,89                         | -2,8      | 0,1            | 100             |
|    | 41                 | 189,3                          | -45,89                         | -2,8      | 0,125          | 125             |
|    | 42                 | 193,2                          | -45,89                         | -2,8      | 0,136          | 136             |
|    | 43                 | 197,1                          | -45,89                         | -2,8      | 0,141          | 141             |
|    | 44                 | 201                            | -45,89                         | -2,8      | 0,142          | 142             |
|    | 45                 | 204,9                          | -45,89                         | -2,8      | 0,139          | 139             |
|    | 46                 | 208,8                          | -45,89                         | -2,8      | 0,132          | 132             |
|    | 47                 | 212,7                          | -45,89                         | -2,8      | 0,118          | 118             |
|    | 48                 | 216,6                          | -45,89                         | -2,8      | 0,091          | 91              |
|    | 49                 | 220,5                          | -45,89                         | -2,8      | 0,053          | 53              |
|    | 50                 | 224,4                          | -45,89                         | -2,8      | 0,03           | 30              |
|    | 51                 | 228,3                          | -45,89                         | -2,8      | 0,017          | 17              |
|    | 52                 | 232,2                          | -45,89                         | -2,8      | 0,01           | 10              |
|    | 53                 | 236,1                          | -45,89                         | -2,8      | 0,006          | 6               |
|    | 54                 | 240                            | -45,89                         | -2,8      | 0,004          | 4               |
|    | 55                 | 243,9                          | -45,89                         | -2,8      | 0,002          | 2               |
|    | 56                 | 248,9                          | -45,89                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -45,89                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 14 | 1                  | -20                            | -49,79                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -49,79                         | -2,8      | 0,001          | 1               |
|    | 3                  | 0                              | -49,79                         | -2,8      | 0,002          | 2               |
|    | 4                  | 4,05                           | -49,79                         | -2,8      | 0,002          | 2               |
|    | 5                  | 12                             | -49,79                         | -2,8      | 0,002          | 2               |
|    | 6                  | 19,8                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 7                  | 27,6                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 8                  | 35,4                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 9                  | 43,2                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 10                 | 47,1                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 11                 | 51                             | -49,79                         | -2,8      | 0,003          | 3               |
|    | 12                 | 54,9                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 13                 | 58,8                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 14                 | 62,7                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 15                 | 66,6                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 16                 | 70,5                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 17                 | 74,4                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 18                 | 82,2                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 19                 | 90                             | -49,79                         | -2,8      | 0,003          | 3               |
|    | 20                 | 97,8                           | -49,79                         | -2,8      | 0,003          | 3               |
|    | 21                 | 105,6                          | -49,79                         | -2,8      | 0,003          | 3               |
|    | 22                 | 113,4                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 23                 | 117,3                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 24                 | 121,2                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 25                 | 125,1                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 26                 | 129,9                          | -49,79                         | -2,8      | 0,001          | 1               |
|    | 27                 | 134,7                          | -49,79                         | -2,8      | 0,001          | 1               |
|    | 28                 | 138,6                          | -49,79                         | -2,8      | 0,001          | 1               |
|    | 29                 | 142,5                          | -49,79                         | -2,8      | 0,001          | 1               |
|    | 30                 | 146,4                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 31                 | 150,3                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -49,79                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -49,79                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -49,79                         | -2,8      | 0,022          | 22              |
|    | 35                 | 165,9                          | -49,79                         | -2,8      | 0,029          | 29              |
|    | 36                 | 169,8                          | -49,79                         | -2,8      | 0,035          | 35              |
|    | 37                 | 173,7                          | -49,79                         | -2,8      | 0,043          | 43              |
|    | 38                 | 177,6                          | -49,79                         | -2,8      | 0,056          | 56              |
|    | 39                 | 181,5                          | -49,79                         | -2,8      | 0,077          | 77              |
|    | 40                 | 185,4                          | -49,79                         | -2,8      | 0,112          | 112             |
|    | 41                 | 189,3                          | -49,79                         | -2,8      | 0,141          | 141             |
|    | 42                 | 193,2                          | -49,79                         | -2,8      | 0,159          | 159             |
|    | 43                 | 197,1                          | -49,79                         | -2,8      | 0,166          | 166             |
|    | 44                 | 201                            | -49,79                         | -2,8      | 0,167          | 167             |
|    | 45                 | 204,9                          | -49,79                         | -2,8      | 0,163          | 163             |
|    | 46                 | 208,8                          | -49,79                         | -2,8      | 0,152          | 152             |
|    | 47                 | 212,7                          | -49,79                         | -2,8      | 0,132          | 132             |
|    | 48                 | 216,6                          | -49,79                         | -2,8      | 0,1            | 100             |
|    | 49                 | 220,5                          | -49,79                         | -2,8      | 0,058          | 58              |
|    | 50                 | 224,4                          | -49,79                         | -2,8      | 0,032          | 32              |
|    | 51                 | 228,3                          | -49,79                         | -2,8      | 0,018          | 18              |
|    | 52                 | 232,2                          | -49,79                         | -2,8      | 0,01           | 10              |
|    | 53                 | 236,1                          | -49,79                         | -2,8      | 0,006          | 6               |
|    | 54                 | 240                            | -49,79                         | -2,8      | 0,004          | 4               |
|    | 55                 | 243,9                          | -49,79                         | -2,8      | 0,002          | 2               |
|    | 56                 | 248,9                          | -49,79                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -49,79                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 15 | 1                  | -20                            | -53,69                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -53,69                         | -2,8      | 0,001          | 1               |
|    | 3                  | 0                              | -53,69                         | -2,8      | 0,001          | 1               |
|    | 4                  | 4,05                           | -53,69                         | -2,8      | 0,001          | 1               |
|    | 5                  | 12                             | -53,69                         | -2,8      | 0,001          | 1               |
|    | 6                  | 19,8                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 7                  | 27,6                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 8                  | 35,4                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 9                  | 43,2                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 10                 | 47,1                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 11                 | 51                             | -53,69                         | -2,8      | 0,002          | 2               |
|    | 12                 | 54,9                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 13                 | 58,8                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 14                 | 62,7                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 15                 | 66,6                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 16                 | 70,5                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 17                 | 74,4                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 18                 | 82,2                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 19                 | 90                             | -53,69                         | -2,8      | 0,002          | 2               |
|    | 20                 | 97,8                           | -53,69                         | -2,8      | 0,002          | 2               |
|    | 21                 | 105,6                          | -53,69                         | -2,8      | 0,002          | 2               |
|    | 22                 | 113,4                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 23                 | 117,3                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 24                 | 121,2                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 25                 | 125,1                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 26                 | 129,9                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 27                 | 134,7                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 28                 | 138,6                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 29                 | 142,5                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 30                 | 146,4                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -53,69                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -53,69                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -53,69                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -53,69                         | -2,8      | 0,023          | 23              |
|    | 35                 | 165,9                          | -53,69                         | -2,8      | 0,03           | 30              |
|    | 36                 | 169,8                          | -53,69                         | -2,8      | 0,037          | 37              |
|    | 37                 | 173,7                          | -53,69                         | -2,8      | 0,048          | 48              |
|    | 38                 | 177,6                          | -53,69                         | -2,8      | 0,062          | 62              |
|    | 39                 | 181,5                          | -53,69                         | -2,8      | 0,085          | 85              |
|    | 40                 | 185,4                          | -53,69                         | -2,8      | 0,12           | 120             |
|    | 41                 | 189,3                          | -53,69                         | -2,8      | 0,15           | 150             |
|    | 42                 | 193,2                          | -53,69                         | -2,8      | 0,171          | 171             |
|    | 43                 | 197,1                          | -53,69                         | -2,8      | 0,179          | 179             |
|    | 44                 | 201                            | -53,69                         | -2,8      | 0,179          | 179             |
|    | 45                 | 204,9                          | -53,69                         | -2,8      | 0,172          | 172             |
|    | 46                 | 208,8                          | -53,69                         | -2,8      | 0,159          | 159             |
|    | 47                 | 212,7                          | -53,69                         | -2,8      | 0,134          | 134             |
|    | 48                 | 216,6                          | -53,69                         | -2,8      | 0,101          | 101             |
|    | 49                 | 220,5                          | -53,69                         | -2,8      | 0,058          | 58              |
|    | 50                 | 224,4                          | -53,69                         | -2,8      | 0,032          | 32              |
|    | 51                 | 228,3                          | -53,69                         | -2,8      | 0,017          | 17              |
|    | 52                 | 232,2                          | -53,69                         | -2,8      | 0,01           | 10              |
|    | 53                 | 236,1                          | -53,69                         | -2,8      | 0,006          | 6               |
|    | 54                 | 240                            | -53,69                         | -2,8      | 0,003          | 3               |
|    | 55                 | 243,9                          | -53,69                         | -2,8      | 0,002          | 2               |
|    | 56                 | 248,9                          | -53,69                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -53,69                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 16 | 1                  | -20                            | -57,59                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -57,59                         | -2,8      | 0,001          | 1               |
|    | 3                  | 0                              | -57,59                         | -2,8      | 0,001          | 1               |
|    | 4                  | 4,05                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 5                  | 12                             | -57,59                         | -2,8      | 0,001          | 1               |
|    | 6                  | 19,8                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 7                  | 27,6                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 8                  | 35,4                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 9                  | 43,2                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 10                 | 47,1                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 11                 | 51                             | -57,59                         | -2,8      | 0,001          | 1               |
|    | 12                 | 54,9                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 13                 | 58,8                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 14                 | 62,7                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 15                 | 66,6                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 16                 | 70,5                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 17                 | 74,4                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 18                 | 82,2                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 19                 | 90                             | -57,59                         | -2,8      | 0,001          | 1               |
|    | 20                 | 97,8                           | -57,59                         | -2,8      | 0,001          | 1               |
|    | 21                 | 105,6                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 22                 | 113,4                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 23                 | 117,3                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 24                 | 121,2                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 25                 | 125,1                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 26                 | 129,9                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 27                 | 134,7                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 28                 | 138,6                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 29                 | 142,5                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 30                 | 146,4                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -57,59                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -57,59                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -57,59                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -57,59                         | -2,8      | 0,024          | 24              |
|    | 35                 | 165,9                          | -57,59                         | -2,8      | 0,032          | 32              |
|    | 36                 | 169,8                          | -57,59                         | -2,8      | 0,042          | 42              |
|    | 37                 | 173,7                          | -57,59                         | -2,8      | 0,055          | 55              |
|    | 38                 | 177,6                          | -57,59                         | -2,8      | 0,073          | 73              |
|    | 39                 | 181,5                          | -57,59                         | -2,8      | 0,096          | 96              |
|    | 40                 | 185,4                          | -57,59                         | -2,8      | 0,129          | 129             |
|    | 41                 | 189,3                          | -57,59                         | -2,8      | 0,157          | 157             |
|    | 42                 | 193,2                          | -57,59                         | -2,8      | 0,178          | 178             |
|    | 43                 | 197,1                          | -57,59                         | -2,8      | 0,184          | 184             |
|    | 44                 | 201                            | -57,59                         | -2,8      | 0,181          | 181             |
|    | 45                 | 204,9                          | -57,59                         | -2,8      | 0,169          | 169             |
|    | 46                 | 208,8                          | -57,59                         | -2,8      | 0,15           | 150             |
|    | 47                 | 212,7                          | -57,59                         | -2,8      | 0,126          | 126             |
|    | 48                 | 216,6                          | -57,59                         | -2,8      | 0,095          | 95              |
|    | 49                 | 220,5                          | -57,59                         | -2,8      | 0,054          | 54              |
|    | 50                 | 224,4                          | -57,59                         | -2,8      | 0,029          | 29              |
|    | 51                 | 228,3                          | -57,59                         | -2,8      | 0,016          | 16              |
|    | 52                 | 232,2                          | -57,59                         | -2,8      | 0,009          | 9               |
|    | 53                 | 236,1                          | -57,59                         | -2,8      | 0,005          | 5               |
|    | 54                 | 240                            | -57,59                         | -2,8      | 0,003          | 3               |
|    | 55                 | 243,9                          | -57,59                         | -2,8      | 0,002          | 2               |
|    | 56                 | 248,9                          | -57,59                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -57,59                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 17 | 1                  | -20                            | -61,49                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -61,49                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -61,49                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 5                  | 12                             | -61,49                         | -2,8      | 0,001          | 1               |
|    | 6                  | 19,8                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 7                  | 27,6                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 8                  | 35,4                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 9                  | 43,2                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 10                 | 47,1                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 11                 | 51                             | -61,49                         | -2,8      | 0,001          | 1               |
|    | 12                 | 54,9                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 13                 | 58,8                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 14                 | 62,7                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 15                 | 66,6                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 16                 | 70,5                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 17                 | 74,4                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 18                 | 82,2                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 19                 | 90                             | -61,49                         | -2,8      | 0,001          | 1               |
|    | 20                 | 97,8                           | -61,49                         | -2,8      | 0,001          | 1               |
|    | 21                 | 105,6                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 22                 | 113,4                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 23                 | 117,3                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 24                 | 121,2                          | -61,49                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -61,49                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -61,49                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -61,49                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -61,49                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 30                 | 146,4                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -61,49                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -61,49                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -61,49                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -61,49                         | -2,8      | 0,025          | 25              |
|    | 35                 | 165,9                          | -61,49                         | -2,8      | 0,034          | 34              |
|    | 36                 | 169,8                          | -61,49                         | -2,8      | 0,047          | 47              |
|    | 37                 | 173,7                          | -61,49                         | -2,8      | 0,068          | 68              |
|    | 38                 | 177,6                          | -61,49                         | -2,8      | 0,095          | 95              |
|    | 39                 | 181,5                          | -61,49                         | -2,8      | 0,117          | 117             |
|    | 40                 | 185,4                          | -61,49                         | -2,8      | 0,141          | 141             |
|    | 41                 | 189,3                          | -61,49                         | -2,8      | 0,167          | 167             |
|    | 42                 | 193,2                          | -61,49                         | -2,8      | 0,182          | 182             |
|    | 43                 | 197,1                          | -61,49                         | -2,8      | 0,184          | 184             |
|    | 44                 | 201                            | -61,49                         | -2,8      | 0,177          | 177             |
|    | 45                 | 204,9                          | -61,49                         | -2,8      | 0,155          | 155             |
|    | 46                 | 208,8                          | -61,49                         | -2,8      | 0,129          | 129             |
|    | 47                 | 212,7                          | -61,49                         | -2,8      | 0,106          | 106             |
|    | 48                 | 216,6                          | -61,49                         | -2,8      | 0,078          | 78              |
|    | 49                 | 220,5                          | -61,49                         | -2,8      | 0,045          | 45              |
|    | 50                 | 224,4                          | -61,49                         | -2,8      | 0,025          | 25              |
|    | 51                 | 228,3                          | -61,49                         | -2,8      | 0,014          | 14              |
|    | 52                 | 232,2                          | -61,49                         | -2,8      | 0,008          | 8               |
|    | 53                 | 236,1                          | -61,49                         | -2,8      | 0,005          | 5               |
|    | 54                 | 240                            | -61,49                         | -2,8      | 0,003          | 3               |
|    | 55                 | 243,9                          | -61,49                         | -2,8      | 0,002          | 2               |
|    | 56                 | 248,9                          | -61,49                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -61,49                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 18 | 1                  | -20                            | -65,39                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -65,39                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -65,39                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -65,39                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -65,39                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -65,39                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -65,39                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 9                  | 43,2                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 10                 | 47,1                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 11                 | 51                             | -65,39                         | -2,8      | 0,001          | 1               |
|    | 12                 | 54,9                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 13                 | 58,8                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 14                 | 62,7                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 15                 | 66,6                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 16                 | 70,5                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 17                 | 74,4                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 18                 | 82,2                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 19                 | 90                             | -65,39                         | -2,8      | 0,001          | 1               |
|    | 20                 | 97,8                           | -65,39                         | -2,8      | 0,001          | 1               |
|    | 21                 | 105,6                          | -65,39                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -65,39                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -65,39                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -65,39                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -65,39                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -65,39                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -65,39                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -65,39                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -65,39                         | -2,8      | 0,001          | 1               |
|    | 30                 | 146,4                          | -65,39                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -65,39                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -65,39                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -65,39                         | -2,8      | 0,009          | 9               |
|    | 34                 | 162                            | -65,39                         | -2,8      | 0,026          | 26              |
|    | 35                 | 165,9                          | -65,39                         | -2,8      | 0,036          | 36              |
|    | 36                 | 169,8                          | -65,39                         | -2,8      | 0,052          | 52              |
|    | 37                 | 173,7                          | -65,39                         | -2,8      | 0,08           | 80              |
|    | 38                 | 177,6                          | -65,39                         | -2,8      | 0,115          | 115             |
|    | 39                 | 181,5                          | -65,39                         | -2,8      | 0,138          | 138             |
|    | 40                 | 185,4                          | -65,39                         | -2,8      | 0,159          | 159             |
|    | 41                 | 189,3                          | -65,39                         | -2,8      | 0,176          | 176             |
|    | 42                 | 193,2                          | -65,39                         | -2,8      | 0,184          | 184             |
|    | 43                 | 197,1                          | -65,39                         | -2,8      | 0,183          | 183             |
|    | 44                 | 201                            | -65,39                         | -2,8      | 0,17           | 170             |
|    | 45                 | 204,9                          | -65,39                         | -2,8      | 0,141          | 141             |
|    | 46                 | 208,8                          | -65,39                         | -2,8      | 0,107          | 107             |
|    | 47                 | 212,7                          | -65,39                         | -2,8      | 0,077          | 77              |
|    | 48                 | 216,6                          | -65,39                         | -2,8      | 0,053          | 53              |
|    | 49                 | 220,5                          | -65,39                         | -2,8      | 0,033          | 33              |
|    | 50                 | 224,4                          | -65,39                         | -2,8      | 0,02           | 20              |
|    | 51                 | 228,3                          | -65,39                         | -2,8      | 0,012          | 12              |
|    | 52                 | 232,2                          | -65,39                         | -2,8      | 0,007          | 7               |
|    | 53                 | 236,1                          | -65,39                         | -2,8      | 0,004          | 4               |
|    | 54                 | 240                            | -65,39                         | -2,8      | 0,003          | 3               |
|    | 55                 | 243,9                          | -65,39                         | -2,8      | 0,001          | 1               |
|    | 56                 | 248,9                          | -65,39                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -65,39                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 19 | 1                  | -20                            | -69,29                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -69,29                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -69,29                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -69,29                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -69,29                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -69,29                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -69,29                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -69,29                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -69,29                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -69,29                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -69,29                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -69,29                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -69,29                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -69,29                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -69,29                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -69,29                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -69,29                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -69,29                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -69,29                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -69,29                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -69,29                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -69,29                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -69,29                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -69,29                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -69,29                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -69,29                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -69,29                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -69,29                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -69,29                         | -2,8      | 0              | 0               |
|    | 30                 | 146,4                          | -69,29                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -69,29                         | -2,8      | 0,002          | 2               |
|    | 32                 | 154,2                          | -69,29                         | -2,8      | 0,004          | 4               |
|    | 33                 | 158,1                          | -69,29                         | -2,8      | 0,01           | 10              |
|    | 34                 | 162                            | -69,29                         | -2,8      | 0,026          | 26              |
|    | 35                 | 165,9                          | -69,29                         | -2,8      | 0,037          | 37              |
|    | 36                 | 169,8                          | -69,29                         | -2,8      | 0,055          | 55              |
|    | 37                 | 173,7                          | -69,29                         | -2,8      | 0,085          | 85              |
|    | 38                 | 177,6                          | -69,29                         | -2,8      | 0,122          | 122             |
|    | 39                 | 181,5                          | -69,29                         | -2,8      | 0,149          | 149             |
|    | 40                 | 185,4                          | -69,29                         | -2,8      | 0,168          | 168             |
|    | 41                 | 189,3                          | -69,29                         | -2,8      | 0,177          | 177             |
|    | 42                 | 193,2                          | -69,29                         | -2,8      | 0,181          | 181             |
|    | 43                 | 197,1                          | -69,29                         | -2,8      | 0,177          | 177             |
|    | 44                 | 201                            | -69,29                         | -2,8      | 0,162          | 162             |
|    | 45                 | 204,9                          | -69,29                         | -2,8      | 0,132          | 132             |
|    | 46                 | 208,8                          | -69,29                         | -2,8      | 0,093          | 93              |
|    | 47                 | 212,7                          | -69,29                         | -2,8      | 0,06           | 60              |
|    | 48                 | 216,6                          | -69,29                         | -2,8      | 0,039          | 39              |
|    | 49                 | 220,5                          | -69,29                         | -2,8      | 0,025          | 25              |
|    | 50                 | 224,4                          | -69,29                         | -2,8      | 0,016          | 16              |
|    | 51                 | 228,3                          | -69,29                         | -2,8      | 0,01           | 10              |
|    | 52                 | 232,2                          | -69,29                         | -2,8      | 0,006          | 6               |
|    | 53                 | 236,1                          | -69,29                         | -2,8      | 0,004          | 4               |
|    | 54                 | 240                            | -69,29                         | -2,8      | 0,002          | 2               |
|    | 55                 | 243,9                          | -69,29                         | -2,8      | 0,001          | 1               |
|    | 56                 | 248,9                          | -69,29                         | -2,8      | 0,001          | 1               |
|    | 57                 | 260                            | -69,29                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 20 | 1                  | -20                            | -73,19                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -73,19                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -73,19                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -73,19                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -73,19                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -73,19                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -73,19                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -73,19                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -73,19                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -73,19                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -73,19                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -73,19                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -73,19                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -73,19                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -73,19                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -73,19                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -73,19                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -73,19                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -73,19                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -73,19                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -73,19                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 21 | 1                  | -20                            | -77,09                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -77,09                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -77,09                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -77,09                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -77,09                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -77,09                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -77,09                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -77,09                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -77,09                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -77,09                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -77,09                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -77,09                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -77,09                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -77,09                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -77,09                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -77,09                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -77,09                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -77,09                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -77,09                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -77,09                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -77,09                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -77,09                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -77,09                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -77,09                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -77,09                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -77,09                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -77,09                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -77,09                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -77,09                         | -2,8      | 0              | 0               |
|    | 30                 | 146,4                          | -77,09                         | -2,8      | 0,001          | 1               |
|    | 31                 | 150,3                          | -77,09                         | -2,8      | 0,001          | 1               |
|    | 32                 | 154,2                          | -77,09                         | -2,8      | 0,003          | 3               |
|    | 33                 | 158,1                          | -77,09                         | -2,8      | 0,008          | 8               |
|    | 34                 | 162                            | -77,09                         | -2,8      | 0,022          | 22              |
|    | 35                 | 165,9                          | -77,09                         | -2,8      | 0,032          | 32              |
|    | 36                 | 169,8                          | -77,09                         | -2,8      | 0,047          | 47              |
|    | 37                 | 173,7                          | -77,09                         | -2,8      | 0,074          | 74              |
|    | 38                 | 177,6                          | -77,09                         | -2,8      | 0,108          | 108             |
|    | 39                 | 181,5                          | -77,09                         | -2,8      | 0,128          | 128             |
|    | 40                 | 185,4                          | -77,09                         | -2,8      | 0,139          | 139             |
|    | 41                 | 189,3                          | -77,09                         | -2,8      | 0,143          | 143             |
|    | 42                 | 193,2                          | -77,09                         | -2,8      | 0,144          | 144             |
|    | 43                 | 197,1                          | -77,09                         | -2,8      | 0,14           | 140             |
|    | 44                 | 201                            | -77,09                         | -2,8      | 0,129          | 129             |
|    | 45                 | 204,9                          | -77,09                         | -2,8      | 0,108          | 108             |
|    | 46                 | 208,8                          | -77,09                         | -2,8      | 0,071          | 71              |
|    | 47                 | 212,7                          | -77,09                         | -2,8      | 0,041          | 41              |
|    | 48                 | 216,6                          | -77,09                         | -2,8      | 0,025          | 25              |
|    | 49                 | 220,5                          | -77,09                         | -2,8      | 0,016          | 16              |
|    | 50                 | 224,4                          | -77,09                         | -2,8      | 0,01           | 10              |
|    | 51                 | 228,3                          | -77,09                         | -2,8      | 0,007          | 7               |
|    | 52                 | 232,2                          | -77,09                         | -2,8      | 0,004          | 4               |
|    | 53                 | 236,1                          | -77,09                         | -2,8      | 0,002          | 2               |
|    | 54                 | 240                            | -77,09                         | -2,8      | 0,002          | 2               |
|    | 55                 | 243,9                          | -77,09                         | -2,8      | 0,001          | 1               |
|    | 56                 | 248,9                          | -77,09                         | -2,8      | 0              | 0               |
|    | 57                 | 260                            | -77,09                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 22 | 1                  | -20                            | -80,99                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -80,99                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -80,99                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -80,99                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -80,99                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -80,99                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -80,99                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -80,99                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -80,99                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -80,99                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -80,99                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -80,99                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -80,99                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -80,99                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -80,99                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -80,99                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -80,99                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -80,99                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -80,99                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -80,99                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -80,99                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -80,99                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -80,99                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -80,99                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -80,99                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -80,99                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -80,99                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -80,99                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -80,99                         | -2,8      | 0              | 0               |
|    | 30                 | 146,4                          | -80,99                         | -2,8      | 0              | 0               |
|    | 31                 | 150,3                          | -80,99                         | -2,8      | 0,001          | 1               |
|    | 32                 | 154,2                          | -80,99                         | -2,8      | 0,002          | 2               |
|    | 33                 | 158,1                          | -80,99                         | -2,8      | 0,005          | 5               |
|    | 34                 | 162                            | -80,99                         | -2,8      | 0,016          | 16              |
|    | 35                 | 165,9                          | -80,99                         | -2,8      | 0,023          | 23              |
|    | 36                 | 169,8                          | -80,99                         | -2,8      | 0,035          | 35              |
|    | 37                 | 173,7                          | -80,99                         | -2,8      | 0,056          | 56              |
|    | 38                 | 177,6                          | -80,99                         | -2,8      | 0,082          | 82              |
|    | 39                 | 181,5                          | -80,99                         | -2,8      | 0,096          | 96              |
|    | 40                 | 185,4                          | -80,99                         | -2,8      | 0,104          | 104             |
|    | 41                 | 189,3                          | -80,99                         | -2,8      | 0,107          | 107             |
|    | 42                 | 193,2                          | -80,99                         | -2,8      | 0,107          | 107             |
|    | 43                 | 197,1                          | -80,99                         | -2,8      | 0,104          | 104             |
|    | 44                 | 201                            | -80,99                         | -2,8      | 0,097          | 97              |
|    | 45                 | 204,9                          | -80,99                         | -2,8      | 0,081          | 81              |
|    | 46                 | 208,8                          | -80,99                         | -2,8      | 0,053          | 53              |
|    | 47                 | 212,7                          | -80,99                         | -2,8      | 0,031          | 31              |
|    | 48                 | 216,6                          | -80,99                         | -2,8      | 0,019          | 19              |
|    | 49                 | 220,5                          | -80,99                         | -2,8      | 0,012          | 12              |
|    | 50                 | 224,4                          | -80,99                         | -2,8      | 0,008          | 8               |
|    | 51                 | 228,3                          | -80,99                         | -2,8      | 0,005          | 5               |
|    | 52                 | 232,2                          | -80,99                         | -2,8      | 0,003          | 3               |
|    | 53                 | 236,1                          | -80,99                         | -2,8      | 0,002          | 2               |
|    | 54                 | 240                            | -80,99                         | -2,8      | 0,001          | 1               |
|    | 55                 | 243,9                          | -80,99                         | -2,8      | 0,001          | 1               |
|    | 56                 | 248,9                          | -80,99                         | -2,8      | 0              | 0               |
|    | 57                 | 260                            | -80,99                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 23 | 1                  | -20                            | -84,89                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -84,89                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -84,89                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -84,89                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -84,89                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -84,89                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -84,89                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -84,89                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -84,89                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -84,89                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -84,89                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -84,89                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -84,89                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -84,89                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -84,89                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -84,89                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -84,89                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -84,89                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -84,89                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -84,89                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -84,89                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -84,89                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -84,89                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -84,89                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -84,89                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -84,89                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -84,89                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -84,89                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -84,89                         | -2,8      | 0              | 0               |
|    | 30                 | 146,4                          | -84,89                         | -2,8      | 0              | 0               |
|    | 31                 | 150,3                          | -84,89                         | -2,8      | 0,001          | 1               |
|    | 32                 | 154,2                          | -84,89                         | -2,8      | 0,001          | 1               |
|    | 33                 | 158,1                          | -84,89                         | -2,8      | 0,003          | 3               |
|    | 34                 | 162                            | -84,89                         | -2,8      | 0,01           | 10              |
|    | 35                 | 165,9                          | -84,89                         | -2,8      | 0,015          | 15              |
|    | 36                 | 169,8                          | -84,89                         | -2,8      | 0,022          | 22              |
|    | 37                 | 173,7                          | -84,89                         | -2,8      | 0,033          | 33              |
|    | 38                 | 177,6                          | -84,89                         | -2,8      | 0,046          | 46              |
|    | 39                 | 181,5                          | -84,89                         | -2,8      | 0,055          | 55              |
|    | 40                 | 185,4                          | -84,89                         | -2,8      | 0,06           | 60              |
|    | 41                 | 189,3                          | -84,89                         | -2,8      | 0,062          | 62              |
|    | 42                 | 193,2                          | -84,89                         | -2,8      | 0,063          | 63              |
|    | 43                 | 197,1                          | -84,89                         | -2,8      | 0,061          | 61              |
|    | 44                 | 201                            | -84,89                         | -2,8      | 0,055          | 55              |
|    | 45                 | 204,9                          | -84,89                         | -2,8      | 0,046          | 46              |
|    | 46                 | 208,8                          | -84,89                         | -2,8      | 0,033          | 33              |
|    | 47                 | 212,7                          | -84,89                         | -2,8      | 0,021          | 21              |
|    | 48                 | 216,6                          | -84,89                         | -2,8      | 0,014          | 14              |
|    | 49                 | 220,5                          | -84,89                         | -2,8      | 0,009          | 9               |
|    | 50                 | 224,4                          | -84,89                         | -2,8      | 0,006          | 6               |
|    | 51                 | 228,3                          | -84,89                         | -2,8      | 0,004          | 4               |
|    | 52                 | 232,2                          | -84,89                         | -2,8      | 0,003          | 3               |
|    | 53                 | 236,1                          | -84,89                         | -2,8      | 0,002          | 2               |
|    | 54                 | 240                            | -84,89                         | -2,8      | 0,001          | 1               |
|    | 55                 | 243,9                          | -84,89                         | -2,8      | 0,001          | 1               |
|    | 56                 | 248,9                          | -84,89                         | -2,8      | 0              | 0               |
|    | 57                 | 260                            | -84,89                         | -2,8      | 0              | 0               |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 24 | 1                  | -20                            | -88,79                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -88,79                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -88,79                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -88,79                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -88,79                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -88,79                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -88,79                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -88,79                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -88,79                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -88,79                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -88,79                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -88,79                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -88,79                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -88,79                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -88,79                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -88,79                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -88,79                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -88,79                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -88,79                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -88,79                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -88,79                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -88,79                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -88,79                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -88,79                         | -2,8      | 0              |                 |

|    | Vertical<br>number | X <sub>coördinaat</sub><br>[m] | Z <sub>coördinaat</sub><br>[m] | MV<br>[m] | Zetting<br>[m] | Zetting<br>[mm] |
|----|--------------------|--------------------------------|--------------------------------|-----------|----------------|-----------------|
| 25 | 1                  | -20                            | -92,69                         | -2,8      | 0              | 0               |
|    | 2                  | -5                             | -92,69                         | -2,8      | 0              | 0               |
|    | 3                  | 0                              | -92,69                         | -2,8      | 0              | 0               |
|    | 4                  | 4,05                           | -92,69                         | -2,8      | 0              | 0               |
|    | 5                  | 12                             | -92,69                         | -2,8      | 0              | 0               |
|    | 6                  | 19,8                           | -92,69                         | -2,8      | 0              | 0               |
|    | 7                  | 27,6                           | -92,69                         | -2,8      | 0              | 0               |
|    | 8                  | 35,4                           | -92,69                         | -2,8      | 0              | 0               |
|    | 9                  | 43,2                           | -92,69                         | -2,8      | 0              | 0               |
|    | 10                 | 47,1                           | -92,69                         | -2,8      | 0              | 0               |
|    | 11                 | 51                             | -92,69                         | -2,8      | 0              | 0               |
|    | 12                 | 54,9                           | -92,69                         | -2,8      | 0              | 0               |
|    | 13                 | 58,8                           | -92,69                         | -2,8      | 0              | 0               |
|    | 14                 | 62,7                           | -92,69                         | -2,8      | 0              | 0               |
|    | 15                 | 66,6                           | -92,69                         | -2,8      | 0              | 0               |
|    | 16                 | 70,5                           | -92,69                         | -2,8      | 0              | 0               |
|    | 17                 | 74,4                           | -92,69                         | -2,8      | 0              | 0               |
|    | 18                 | 82,2                           | -92,69                         | -2,8      | 0              | 0               |
|    | 19                 | 90                             | -92,69                         | -2,8      | 0              | 0               |
|    | 20                 | 97,8                           | -92,69                         | -2,8      | 0              | 0               |
|    | 21                 | 105,6                          | -92,69                         | -2,8      | 0              | 0               |
|    | 22                 | 113,4                          | -92,69                         | -2,8      | 0              | 0               |
|    | 23                 | 117,3                          | -92,69                         | -2,8      | 0              | 0               |
|    | 24                 | 121,2                          | -92,69                         | -2,8      | 0              | 0               |
|    | 25                 | 125,1                          | -92,69                         | -2,8      | 0              | 0               |
|    | 26                 | 129,9                          | -92,69                         | -2,8      | 0              | 0               |
|    | 27                 | 134,7                          | -92,69                         | -2,8      | 0              | 0               |
|    | 28                 | 138,6                          | -92,69                         | -2,8      | 0              | 0               |
|    | 29                 | 142,5                          | -92,69                         | -2,8      | 0              | 0               |
|    | 30                 | 146,4                          | -92,69                         | -2,8      | 0              | 0               |
|    | 31                 | 150,3                          | -92,69                         | -2,8      | 0              | 0               |
|    | 32                 | 154,2                          | -92,69                         | -2,8      | 0,001          | 1               |
|    | 33                 | 158,1                          | -92,69                         | -2,8      | 0,001          | 1               |
|    | 34                 | 162                            | -92,69                         | -2,8      | 0,004          | 4               |
|    | 35                 | 165,9                          | -92,69                         | -2,8      | 0,006          | 6               |
|    | 36                 | 169,8                          | -92,69                         | -2,8      | 0,009          | 9               |
|    | 37                 | 173,7                          | -92,69                         | -2,8      | 0,012          | 12              |
|    | 38                 | 177,6                          | -92,69                         | -2,8      | 0,014          | 14              |
|    | 39                 | 181,5                          | -92,69                         | -2,8      | 0,017          | 17              |
|    | 40                 | 185,4                          | -92,69                         | -2,8      | 0,019          | 19              |
|    | 41                 | 189,3                          | -92,69                         | -2,8      | 0,02           | 20              |
|    | 42                 | 193,2                          | -92,69                         | -2,8      | 0,02           | 20              |
|    | 43                 | 197,1                          | -92,69                         | -2,8      | 0,019          | 19              |
|    | 44                 | 201                            | -92,69                         | -2,8      | 0,017          | 17              |
|    | 45                 | 204,9                          | -92,69                         | -2,8      | 0,015          | 15              |
|    | 46                 | 208,8                          | -92,69                         | -2,8      | 0,012          | 12              |
|    | 47                 | 212,7                          | -92,69                         | -2,8      | 0,009          | 9               |
|    | 48                 | 216,6                          | -92,69                         | -2,8      | 0,007          | 7               |
|    | 49                 | 220,5                          | -92,69                         | -2,8      | 0,005          | 5               |
|    | 50                 | 224,4                          | -92,69                         | -2,8      | 0,003          | 3               |
|    | 51                 | 228,3                          | -92,69                         | -2,8      | 0,002          | 2               |
|    | 52                 | 232,2                          | -92,69                         | -2,8      | 0,001          | 1               |
|    | 53                 | 236,1                          | -92,69                         | -2,8      | 0,001          | 1               |
|    | 54                 | 240                            | -92,69                         | -2,8      | 0,001          | 1               |
|    | 55                 | 243,9                          | -92,69                         | -2,8      | 0              | 0               |
|    | 56                 | 248,9                          | -92,69                         | -2,8      | 0              | 0               |
|    | 57                 | 260                            | -92,69                         | -2,8      | 0              | 0               |

# Bijlage G

## Berekeningsresultaten DSettlement

# Rapport voor D-Settlement 19.1

Zettingsberekeningen  
Ontwikkeld door Deltares



Bedrijfsnaam: Mos Grondmechanica B.V.

Datum van rapport: 1/14/2020  
Tijd van rapport: 12:42:17 PM  
Rapport met versie: 19.1.2.26123

Datum van berekening: 1/14/2020  
Tijd van berekening: 10:50:56 AM  
Berekend met versie: 19.1.2.26123

Bestandsnaam: H:\..\SD proef OCR 2\617 som OCR uit SD

Projectbeschrijving: Nieuwbouw The View I en 2, Rijnhaven te Rotterdam  
Zettingsanalyse S2 zakking  
Arcadis 2019 belasting en geometrie

## 1 Inhoudsopgave

- 1 Inhoudsopgave
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  - 2.3 Algemene Gegevens
  - 2.4 Grondprofielen
  - 2.5 Grondeigenschappen
  - 2.6 Rechthoekige Belastingen
  - 2.7 Verticalen
- 3 Resultaat per Verticaal
  - 3.1 Resultaat voor Verticaal 1 (X = -20,00 m; Z = -61,49 m)
  - 3.2 Resultaat voor Verticaal 2 (X = -5,00 m; Z = -61,49 m)
  - 3.3 Resultaat voor Verticaal 3 (X = 0,00 m; Z = -61,49 m)
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  - 3.5 Resultaat voor Verticaal 5 (X = 12,00 m; Z = -61,49 m)
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  - 3.12 Resultaat voor Verticaal 12 (X = 54,90 m; Z = -61,49 m)
  - 3.13 Resultaat voor Verticaal 13 (X = 58,80 m; Z = -61,49 m)
  - 3.14 Resultaat voor Verticaal 14 (X = 62,70 m; Z = -61,49 m)
  - 3.15 Resultaat voor Verticaal 15 (X = 66,60 m; Z = -61,49 m)
  - 3.16 Resultaat voor Verticaal 16 (X = 70,50 m; Z = -61,49 m)
  - 3.17 Resultaat voor Verticaal 17 (X = 74,40 m; Z = -61,49 m)
  - 3.18 Resultaat voor Verticaal 18 (X = 82,20 m; Z = -61,49 m)
  - 3.19 Resultaat voor Verticaal 19 (X = 90,00 m; Z = -61,49 m)
  - 3.20 Resultaat voor Verticaal 20 (X = 97,80 m; Z = -61,49 m)
  - 3.21 Resultaat voor Verticaal 21 (X = 105,60 m; Z = -61,49 m)
  - 3.22 Resultaat voor Verticaal 22 (X = 113,40 m; Z = -61,49 m)
  - 3.23 Resultaat voor Verticaal 23 (X = 117,30 m; Z = -61,49 m)
  - 3.24 Resultaat voor Verticaal 24 (X = 121,20 m; Z = -61,49 m)
  - 3.25 Resultaat voor Verticaal 25 (X = 125,10 m; Z = -61,49 m)
  - 3.26 Resultaat voor Verticaal 26 (X = 129,90 m; Z = -61,49 m)
  - 3.27 Resultaat voor Verticaal 27 (X = 134,70 m; Z = -61,49 m)
  - 3.28 Resultaat voor Verticaal 28 (X = 138,60 m; Z = -61,49 m)
  - 3.29 Resultaat voor Verticaal 29 (X = 142,50 m; Z = -61,49 m)
  - 3.30 Resultaat voor Verticaal 30 (X = 146,40 m; Z = -61,49 m)
  - 3.31 Resultaat voor Verticaal 31 (X = 150,30 m; Z = -61,49 m)
  - 3.32 Resultaat voor Verticaal 32 (X = 154,20 m; Z = -61,49 m)
  - 3.33 Resultaat voor Verticaal 33 (X = 158,10 m; Z = -61,49 m)
  - 3.34 Resultaat voor Verticaal 34 (X = 162,00 m; Z = -61,49 m)
  - 3.35 Resultaat voor Verticaal 35 (X = 165,90 m; Z = -61,49 m)
  - 3.36 Resultaat voor Verticaal 36 (X = 169,80 m; Z = -61,49 m)
  - 3.37 Resultaat voor Verticaal 37 (X = 173,70 m; Z = -61,49 m)
  - 3.38 Resultaat voor Verticaal 38 (X = 177,60 m; Z = -61,49 m)
  - 3.39 Resultaat voor Verticaal 39 (X = 181,50 m; Z = -61,49 m)
  - 3.40 Resultaat voor Verticaal 40 (X = 185,40 m; Z = -61,49 m)
  - 3.41 Resultaat voor Verticaal 41 (X = 189,30 m; Z = -61,49 m)
  - 3.42 Resultaat voor Verticaal 42 (X = 193,20 m; Z = -61,49 m)
  - 3.43 Resultaat voor Verticaal 43 (X = 197,10 m; Z = -61,49 m)
  - 3.44 Resultaat voor Verticaal 44 (X = 201,00 m; Z = -61,49 m)
  - 3.45 Resultaat voor Verticaal 45 (X = 204,90 m; Z = -61,49 m)
  - 3.46 Resultaat voor Verticaal 46 (X = 208,80 m; Z = -61,49 m)
  - 3.47 Resultaat voor Verticaal 47 (X = 212,70 m; Z = -61,49 m)
  - 3.48 Resultaat voor Verticaal 48 (X = 216,60 m; Z = -61,49 m)
  - 3.49 Resultaat voor Verticaal 49 (X = 220,50 m; Z = -61,49 m)
  - 3.50 Resultaat voor Verticaal 50 (X = 224,40 m; Z = -61,49 m)
  - 3.51 Resultaat voor Verticaal 51 (X = 228,30 m; Z = -61,49 m)
  - 3.52 Resultaat voor Verticaal 52 (X = 232,20 m; Z = -61,49 m)
  - 3.53 Resultaat voor Verticaal 53 (X = 236,10 m; Z = -61,49 m)
  - 3.54 Resultaat voor Verticaal 54 (X = 240,00 m; Z = -61,49 m)

- 3.55 Resultaat voor Verticaal 55 ( $X = 243,90$  m;  $Z = -61,49$  m)
- 3.56 Resultaat voor Verticaal 56 ( $X = 248,90$  m;  $Z = -61,49$  m)
- 3.57 Resultaat voor Verticaal 57 ( $X = 260,00$  m;  $Z = -61,49$  m)
- 4 Zettingen
  - 4.1 Zettingen
- 5 Waarschuwingen en fouten

## 2 Weergave van de Invoer

### 2.1 Laagscheidingen

| Laagscheidingnummer | Coördinaten [m] |         |         |         |         |
|---------------------|-----------------|---------|---------|---------|---------|
| 43 - X -            | -20,000         | 160,000 | 162,000 | 225,000 | 260,000 |
| 43 - Y -            | -2,800          | -2,800  | -2,800  | -2,800  | -2,800  |
| 42 - X -            | -20,000         | 160,000 | 160,000 | 162,000 | 225,000 |
| 42 - Y -            | -4,000          | -4,000  | -2,800  | -2,800  | -2,800  |
| 42 - X -            | 260,000         |         |         |         |         |
| 42 - Y -            | -2,800          |         |         |         |         |
| 41 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 162,000 |
| 41 - Y -            | -16,600         | -16,600 | -4,000  | -2,800  | -2,800  |
| 41 - X -            | 225,000         | 260,000 |         |         |         |
| 41 - Y -            | -2,800          | -2,800  |         |         |         |
| 40 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 40 - Y -            | -28,900         | -29,286 | -16,600 | -4,000  | -2,800  |
| 40 - X -            | 162,000         | 225,000 | 260,000 |         |         |
| 40 - Y -            | -2,800          | -2,800  | -2,800  |         |         |
| 39 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 39 - Y -            | -33,000         | -33,900 | -29,286 | -16,600 | -4,000  |
| 39 - X -            | 160,000         | 162,000 | 225,000 | 260,000 |         |
| 39 - Y -            | -2,800          | -2,800  | -2,800  | -2,800  |         |
| 38 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 38 - Y -            | -34,800         | -36,086 | -33,900 | -29,286 | -16,600 |
| 38 - X -            | 160,000         | 160,000 | 162,000 | 225,000 | 260,000 |
| 38 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  | -2,800  |
| 37 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 37 - Y -            | -44,000         | -44,000 | -36,086 | -33,900 | -29,286 |
| 37 - X -            | 160,000         | 160,000 | 160,000 | 162,000 | 225,000 |
| 37 - Y -            | -16,600         | -4,000  | -2,800  | -2,800  | -2,800  |
| 37 - X -            | 260,000         |         |         |         |         |
| 37 - Y -            | -2,800          |         |         |         |         |
| 36 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 36 - Y -            | -49,000         | -49,000 | -44,000 | -36,086 | -33,900 |
| 36 - X -            | 160,000         | 160,000 | 160,000 | 160,000 | 162,000 |
| 36 - Y -            | -29,286         | -16,600 | -4,000  | -2,800  | -2,800  |
| 36 - X -            | 225,000         | 260,000 |         |         |         |
| 36 - Y -            | -2,800          | -2,800  |         |         |         |
| 35 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 35 - Y -            | -51,000         | -51,000 | -49,000 | -44,000 | -36,086 |
| 35 - X -            | 160,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 35 - Y -            | -33,900         | -29,286 | -16,600 | -4,000  | -2,800  |
| 35 - X -            | 162,000         | 225,000 | 260,000 |         |         |
| 35 - Y -            | -2,800          | -2,800  | -2,800  |         |         |
| 34 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 34 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 34 - X -            | 160,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 34 - Y -            | -36,086         | -33,900 | -29,286 | -16,600 | -4,000  |
| 34 - X -            | 160,000         | 162,000 | 225,000 | 260,000 |         |
| 34 - Y -            | -2,800          | -2,800  | -2,800  | -2,800  |         |
| 33 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 33 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 33 - X -            | 160,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 33 - Y -            | -36,086         | -33,900 | -29,286 | -16,600 | -4,000  |
| 33 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 33 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 32 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 32 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 32 - X -            | 160,000         | 160,000 | 160,000 | 160,000 | 162,000 |
| 32 - Y -            | -36,086         | -33,900 | -29,286 | -16,600 | -16,600 |
| 32 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 32 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 31 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |

| Laagscheidingnummer | Coördinaten [m] |         |         |         |         |
|---------------------|-----------------|---------|---------|---------|---------|
| 31 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 31 - X -            | 160,000         | 160,000 | 160,000 | 162,000 | 162,000 |
| 31 - Y -            | -36,086         | -33,900 | -29,286 | -29,000 | -16,600 |
| 31 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 31 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 30 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 30 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 30 - X -            | 160,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 30 - Y -            | -36,086         | -33,900 | -33,400 | -29,000 | -16,600 |
| 30 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 30 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 29 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 29 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 29 - X -            | 160,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 29 - Y -            | -36,086         | -35,300 | -33,400 | -29,000 | -16,600 |
| 29 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 29 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 28 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 160,000 |
| 28 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -44,000 |
| 28 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 28 - Y -            | -44,000         | -35,300 | -33,400 | -29,000 | -16,600 |
| 28 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 28 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 27 - X -            | -20,000         | 160,000 | 160,000 | 160,000 | 162,000 |
| 27 - Y -            | -53,000         | -53,000 | -51,000 | -49,000 | -48,400 |
| 27 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 27 - Y -            | -44,000         | -35,300 | -33,400 | -29,000 | -16,600 |
| 27 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 27 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 26 - X -            | -20,000         | 160,000 | 160,000 | 162,000 | 162,000 |
| 26 - Y -            | -53,000         | -53,000 | -51,000 | -52,300 | -48,400 |
| 26 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 26 - Y -            | -44,000         | -35,300 | -33,400 | -29,000 | -16,600 |
| 26 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 26 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 25 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 25 - Y -            | -53,000         | -53,000 | -54,200 | -52,300 | -48,400 |
| 25 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 25 - Y -            | -44,000         | -35,300 | -33,400 | -29,000 | -16,600 |
| 25 - X -            | 162,000         | 162,000 | 225,000 | 260,000 |         |
| 25 - Y -            | -4,000          | -2,800  | -2,800  | -2,800  |         |
| 24 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 24 - Y -            | -53,000         | -53,000 | -56,000 | -54,200 | -52,300 |
| 24 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 24 - Y -            | -48,400         | -44,000 | -35,300 | -33,400 | -29,000 |
| 24 - X -            | 162,000         | 162,000 | 162,000 | 225,000 | 260,000 |
| 24 - Y -            | -16,600         | -4,000  | -2,800  | -2,800  | -2,800  |
| 23 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 23 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 23 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 23 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -33,400 |
| 23 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 225,000 |
| 23 - Y -            | -29,000         | -16,600 | -4,000  | -2,800  | -2,800  |
| 23 - X -            | 260,000         |         |         |         |         |
| 23 - Y -            | -2,800          |         |         |         |         |
| 22 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 22 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 22 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 22 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -33,400 |
| 22 - X -            | 162,000         | 162,000 | 162,000 | 225,000 | 225,000 |
| 22 - Y -            | -29,000         | -16,600 | -4,000  | -4,000  | -2,800  |
| 22 - X -            | 260,000         |         |         |         |         |
| 22 - Y -            | -2,800          |         |         |         |         |
| 21 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 21 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 21 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |

| Laagscheidingnummer | Coördinaten [m] |         |         |         |         |
|---------------------|-----------------|---------|---------|---------|---------|
| 21 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -33,400 |
| 21 - X -            | 162,000         | 162,000 | 225,000 | 225,000 | 225,000 |
| 21 - Y -            | -29,000         | -16,600 | -16,600 | -4,000  | -2,800  |
| 21 - X -            | 260,000         |         |         |         |         |
| 21 - Y -            | -2,800          |         |         |         |         |
| 20 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 20 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 20 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 20 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -33,400 |
| 20 - X -            | 162,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 20 - Y -            | -29,000         | -29,400 | -16,600 | -4,000  | -2,800  |
| 20 - X -            | 260,000         |         |         |         |         |
| 20 - Y -            | -2,800          |         |         |         |         |
| 19 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 19 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 19 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 162,000 |
| 19 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -33,400 |
| 19 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 19 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 19 - X -            | 260,000         |         |         |         |         |
| 19 - Y -            | -2,800          |         |         |         |         |
| 18 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 18 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 18 - X -            | 162,000         | 162,000 | 162,000 | 162,000 | 225,000 |
| 18 - Y -            | -52,300         | -48,400 | -44,000 | -35,300 | -36,500 |
| 18 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 18 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 18 - X -            | 260,000         |         |         |         |         |
| 18 - Y -            | -2,800          |         |         |         |         |
| 17 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 17 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 17 - X -            | 162,000         | 162,000 | 162,000 | 225,000 | 225,000 |
| 17 - Y -            | -52,300         | -48,400 | -44,000 | -43,500 | -36,500 |
| 17 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 17 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 17 - X -            | 260,000         |         |         |         |         |
| 17 - Y -            | -2,800          |         |         |         |         |
| 16 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 16 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 16 - X -            | 162,000         | 162,000 | 225,000 | 225,000 | 225,000 |
| 16 - Y -            | -52,300         | -48,400 | -49,000 | -43,500 | -36,500 |
| 16 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 16 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 16 - X -            | 260,000         |         |         |         |         |
| 16 - Y -            | -2,800          |         |         |         |         |
| 15 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 15 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 15 - X -            | 162,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 15 - Y -            | -52,300         | -52,300 | -49,000 | -43,500 | -36,500 |
| 15 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 15 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 15 - X -            | 260,000         |         |         |         |         |
| 15 - Y -            | -2,800          |         |         |         |         |
| 14 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 162,000 |
| 14 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -54,200 |
| 14 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 14 - Y -            | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 14 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 14 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 14 - X -            | 260,000         |         |         |         |         |
| 14 - Y -            | -2,800          |         |         |         |         |
| 13 - X -            | -20,000         | 160,000 | 162,000 | 162,000 | 225,000 |
| 13 - Y -            | -53,000         | -53,000 | -67,000 | -56,000 | -56,000 |
| 13 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 13 - Y -            | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 13 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |

| Laagscheidingnummer | Coördinaten [m] |         |         |         |         |
|---------------------|-----------------|---------|---------|---------|---------|
| 13 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 13 - X -            | 260,000         |         |         |         |         |
| 13 - Y -            | -2,800          |         |         |         |         |
| 12 - X -            | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 12 - Y -            | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 12 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 12 - Y -            | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 12 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 12 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -2,800  |
| 12 - X -            | 260,000         |         |         |         |         |
| 12 - Y -            | -2,800          |         |         |         |         |
| 11 - X -            | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 11 - Y -            | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 11 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 11 - Y -            | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 11 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 260,000 |
| 11 - Y -            | -34,300         | -29,400 | -16,600 | -4,000  | -4,000  |
| 10 - X -            | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 10 - Y -            | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 10 - X -            | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 10 - Y -            | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 10 - X -            | 225,000         | 225,000 | 225,000 | 260,000 |         |
| 10 - Y -            | -34,300         | -29,400 | -16,600 | -16,600 |         |
| 9 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 9 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 9 - X -             | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 9 - Y -             | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 9 - X -             | 225,000         | 225,000 | 260,000 |         |         |
| 9 - Y -             | -34,300         | -29,400 | -29,500 |         |         |
| 8 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 8 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 8 - X -             | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 8 - Y -             | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 8 - X -             | 225,000         | 260,000 |         |         |         |
| 8 - Y -             | -34,300         | -34,400 |         |         |         |
| 7 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 7 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 7 - X -             | 225,000         | 225,000 | 225,000 | 225,000 | 225,000 |
| 7 - Y -             | -54,200         | -52,300 | -49,000 | -43,500 | -36,500 |
| 7 - X -             | 260,000         |         |         |         |         |
| 7 - Y -             | -36,800         |         |         |         |         |
| 6 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 6 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 6 - X -             | 225,000         | 225,000 | 225,000 | 225,000 | 260,000 |
| 6 - Y -             | -54,200         | -52,300 | -49,000 | -43,500 | -44,000 |
| 5 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 5 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 5 - X -             | 225,000         | 225,000 | 225,000 | 260,000 |         |
| 5 - Y -             | -54,200         | -52,300 | -49,000 | -49,000 |         |
| 4 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 4 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 4 - X -             | 225,000         | 225,000 | 260,000 |         |         |
| 4 - Y -             | -54,200         | -52,300 | -51,000 |         |         |
| 3 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 3 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 3 - X -             | 225,000         | 260,000 |         |         |         |
| 3 - Y -             | -54,200         | -53,000 |         |         |         |
| 2 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 225,000 |
| 2 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -56,000 |
| 2 - X -             | 260,000         |         |         |         |         |
| 2 - Y -             | -53,000         |         |         |         |         |
| 1 - X -             | -20,000         | 160,000 | 162,000 | 225,000 | 260,000 |
| 1 - Y -             | -53,000         | -53,000 | -67,000 | -67,500 | -53,000 |
| 0 - X -             | -20,000         | 260,000 |         |         |         |
| 0 - Y -             | -85,000         | -85,000 |         |         |         |

## 2.2 PN-lijnen

| PN-lijnnummer | Coördinaten [m] |         |  |  |  |
|---------------|-----------------|---------|--|--|--|
| 1 - X -       | -20,000         | 260,000 |  |  |  |
| 1 - Y -       | 1,500           | 1,500   |  |  |  |
| 2 - X -       | -20,000         | 260,000 |  |  |  |
| 2 - Y -       | -0,500          | -0,500  |  |  |  |

## 2.3 Algemene Gegevens

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Grondmodel:                        | Koppejan                                                |
| Consolidatiemodel:                 | Terzaghi                                                |
| Rekmodel:                          | Natuurlijk                                              |
| Grondwaterniveau:                  | Initiëel bepaald door PN-lijnnummer 1                   |
| Volumiek gewicht grondwater:       | 10,00 [kN/m³]                                           |
| Dispersiecondities laagscheidingen |                                                         |
| - Boven:                           | gedraineerd                                             |
| - Onder:                           | gedraineerd                                             |
| Spanningsspreiding                 |                                                         |
| - Grond:                           | Buisman                                                 |
| - Belastingen:                     | Geen                                                    |
| Einde consolidatie:                | 10000,00 [dagen]                                        |
| Geen onderhouden hoogte            |                                                         |
| Pg (initiëel):                     | Variabel evenwijdig aan de initiële grondspanning       |
| Pg (Per stap):                     | Automatisch verhoogd tot de uiteindelijke grondspanning |
| Geen denkbeeldig maaiveld          |                                                         |
| Zonder onderwaterzakken            |                                                         |
| Breedte belastingkolom             |                                                         |
| - Niet-Uniforme Belastingen :      | 1,00 [m]                                                |
| - Trapeziumvormige Belastingen :   | 1,00 [m]                                                |

## 2.4 Grondprofielen

| Laag nummer | Materiaalnaam          | PN-lijn boven | PN-lijn onder |
|-------------|------------------------|---------------|---------------|
| 43          | 2. Klei, sltig, humeus | 1             | 1             |
| 42          | 3. Klei, st zandig     | 1             | 1             |
| 41          | 4. Zand, vast          | 2             | 2             |
| 40          | 5. Kedichem 11-44      | 2             | 2             |
| 39          | 6. Zand, zwak siltig   | 2             | 2             |
| 38          | 7. Kedichem 66-77      | 2             | 2             |
| 37          | 8. Zand, zw siltig     | 2             | 2             |
| 36          | 9. Kedichem 99 1010    | 2             | 2             |
| 35          | 10. Zand, zw silltig   | 2             | 2             |
| 34          | 2. Klei, sltig, humeus | 1             | 1             |
| 33          | 3. Klei, st zandig     | 1             | 1             |
| 32          | 4. Zand, vast          | 2             | 2             |
| 31          | 5. Kedichem 11-44      | 2             | 2             |
| 30          | 6. Zand, zwak siltig   | 2             | 2             |
| 29          | 7. Kedichem 66-77      | 2             | 2             |
| 28          | 8. Zand, zw siltig     | 2             | 2             |
| 27          | 9. Kedichem 99 1010    | 2             | 2             |
| 26          | 10. Zand, zw silltig   | 2             | 2             |
| 25          | 9. Kedichem 99 1010    | 2             | 2             |
| 24          | 10. Zand, zw silltig   | 2             | 2             |
| 23          | 2. Klei, sltig, humeus | 1             | 1             |
| 22          | 3. Klei, st zandig     | 1             | 1             |
| 21          | 4. Zand, vast          | 2             | 2             |
| 20          | 5. Kedichem 11-44      | 2             | 2             |
| 19          | 6. Zand, zwak siltig   | 2             | 2             |
| 18          | 7. Kedichem 66-77      | 2             | 2             |
| 17          | 8. Zand, zw siltig     | 2             | 2             |
| 16          | 9. Kedichem 99 1010    | 2             | 2             |
| 15          | 10. Zand, zw silltig   | 2             | 2             |
| 14          | 9. Kedichem 99 1010    | 2             | 2             |
| 13          | 10. Zand, zw silltig   | 2             | 2             |

| Laag nummer | Materiaalnaam          | PN-lijn boven | PN-lijn onder |
|-------------|------------------------|---------------|---------------|
| 12          | 2. Klei, sltig, humeus | 1             | 1             |
| 11          | 3. Klei, st zandig     | 1             | 1             |
| 10          | 4. Zand, vast          | 2             | 2             |
| 9           | 5. Kedichem 11-44      | 2             | 2             |
| 8           | 6. Zand, zwak siltig   | 2             | 2             |
| 7           | 7. Kedichem 66-77      | 2             | 2             |
| 6           | 8. Zand, zw siltig     | 2             | 2             |
| 5           | 9. Kedichem 99 1010    | 2             | 2             |
| 4           | 10. Zand, zw silltig   | 2             | 2             |
| 3           | 9. Kedichem 99 1010    | 2             | 2             |
| 2           | 10. Zand, zw silltig   | 2             | 2             |
| 1           | 11. Zand, zv           | 2             | 2             |

## 2.5 Grondeigenschappen

| Laag nummer | Gedraineerd | Volumiek gewicht                 |                                |
|-------------|-------------|----------------------------------|--------------------------------|
|             |             | Onverzadigd [kN/m <sup>3</sup> ] | Verzadigd [kN/m <sup>3</sup> ] |
| 43          | Nee         | 15,00                            | 15,00                          |
| 42          | Nee         | 18,00                            | 18,00                          |
| 41          | Ja          | 19,00                            | 21,00                          |
| 40          | Nee         | 19,50                            | 19,50                          |
| 39          | Ja          | 19,00                            | 20,00                          |
| 38          | Nee         | 21,00                            | 21,00                          |
| 37          | Ja          | 19,00                            | 21,00                          |
| 36          | Nee         | 19,00                            | 19,00                          |
| 35          | Ja          | 19,00                            | 21,00                          |
| 34          | Nee         | 15,00                            | 15,00                          |
| 33          | Nee         | 18,00                            | 18,00                          |
| 32          | Ja          | 19,00                            | 21,00                          |
| 31          | Nee         | 19,50                            | 19,50                          |
| 30          | Ja          | 19,00                            | 20,00                          |
| 29          | Nee         | 21,00                            | 21,00                          |
| 28          | Ja          | 19,00                            | 21,00                          |
| 27          | Nee         | 19,00                            | 19,00                          |
| 26          | Ja          | 19,00                            | 21,00                          |
| 25          | Nee         | 19,00                            | 19,00                          |
| 24          | Ja          | 19,00                            | 21,00                          |
| 23          | Nee         | 15,00                            | 15,00                          |
| 22          | Nee         | 18,00                            | 18,00                          |
| 21          | Ja          | 19,00                            | 21,00                          |
| 20          | Nee         | 19,50                            | 19,50                          |
| 19          | Ja          | 19,00                            | 20,00                          |
| 18          | Nee         | 21,00                            | 21,00                          |
| 17          | Ja          | 19,00                            | 21,00                          |
| 16          | Nee         | 19,00                            | 19,00                          |
| 15          | Ja          | 19,00                            | 21,00                          |
| 14          | Nee         | 19,00                            | 19,00                          |
| 13          | Ja          | 19,00                            | 21,00                          |
| 12          | Nee         | 15,00                            | 15,00                          |
| 11          | Nee         | 18,00                            | 18,00                          |
| 10          | Ja          | 19,00                            | 21,00                          |
| 9           | Nee         | 19,50                            | 19,50                          |
| 8           | Ja          | 19,00                            | 20,00                          |
| 7           | Nee         | 21,00                            | 21,00                          |
| 6           | Ja          | 19,00                            | 21,00                          |
| 5           | Nee         | 19,00                            | 19,00                          |
| 4           | Ja          | 19,00                            | 21,00                          |
| 3           | Nee         | 19,00                            | 19,00                          |
| 2           | Ja          | 19,00                            | 21,00                          |
| 1           | Ja          | 19,00                            | 21,00                          |

| Laag<br>nummer | Vert. consolid.<br>coëfficiënt $C_v$<br>[m <sup>2</sup> /s] |
|----------------|-------------------------------------------------------------|
| 43             | 6,00E-08                                                    |
| 42             | 6,00E-08                                                    |
| 41             | -                                                           |
| 40             | 5,00E-08                                                    |
| 39             | -                                                           |
| 38             | 5,00E-08                                                    |
| 37             | -                                                           |
| 36             | 5,00E-08                                                    |
| 35             | -                                                           |
| 34             | 6,00E-08                                                    |
| 33             | 6,00E-08                                                    |
| 32             | -                                                           |
| 31             | 5,00E-08                                                    |
| 30             | -                                                           |
| 29             | 5,00E-08                                                    |
| 28             | -                                                           |
| 27             | 5,00E-08                                                    |
| 26             | -                                                           |
| 25             | 5,00E-08                                                    |
| 24             | -                                                           |
| 23             | 6,00E-08                                                    |
| 22             | 6,00E-08                                                    |
| 21             | -                                                           |
| 20             | 5,00E-08                                                    |
| 19             | -                                                           |
| 18             | 5,00E-08                                                    |
| 17             | -                                                           |
| 16             | 5,00E-08                                                    |
| 15             | -                                                           |
| 14             | 5,00E-08                                                    |
| 13             | -                                                           |
| 12             | 6,00E-08                                                    |
| 11             | 6,00E-08                                                    |
| 10             | -                                                           |
| 9              | 5,00E-08                                                    |
| 8              | -                                                           |
| 7              | 5,00E-08                                                    |
| 6              | -                                                           |
| 5              | 5,00E-08                                                    |
| 4              | -                                                           |
| 3              | 5,00E-08                                                    |
| 2              | -                                                           |
| 1              | -                                                           |

| Laag<br>nummer | Grens-<br>spanning<br>[kN/m <sup>2</sup> ] | POP<br>[kN/m <sup>2</sup> ] | OCR<br>[-] |
|----------------|--------------------------------------------|-----------------------------|------------|
| 43             | -                                          | -                           | 1,00       |
| 42             | -                                          | -                           | 1,00       |
| 41             | -                                          | -                           | 2,00       |
| 40             | -                                          | -                           | 2,00       |
| 39             | -                                          | -                           | 2,00       |
| 38             | -                                          | -                           | 2,00       |
| 37             | -                                          | -                           | 2,00       |
| 36             | -                                          | -                           | 2,00       |
| 35             | -                                          | -                           | 2,00       |
| 34             | -                                          | -                           | 1,00       |
| 33             | -                                          | -                           | 1,00       |
| 32             | -                                          | -                           | 2,00       |
| 31             | -                                          | -                           | 2,00       |
| 30             | -                                          | -                           | 2,00       |
| 29             | -                                          | -                           | 2,00       |
| 28             | -                                          | -                           | 2,00       |

| Laag<br>nummer | Grens-<br>spanning<br>[kN/m <sup>2</sup> ] | POP<br>[kN/m <sup>2</sup> ] | OCR<br>[-] |
|----------------|--------------------------------------------|-----------------------------|------------|
| 27             | -                                          | -                           | 2,00       |
| 26             | -                                          | -                           | 2,00       |
| 25             | -                                          | -                           | 2,00       |
| 24             | -                                          | -                           | 2,00       |
| 23             | -                                          | -                           | 1,00       |
| 22             | -                                          | -                           | 1,00       |
| 21             | -                                          | -                           | 2,00       |
| 20             | -                                          | -                           | 2,00       |
| 19             | -                                          | -                           | 2,00       |
| 18             | -                                          | -                           | 2,00       |
| 17             | -                                          | -                           | 2,00       |
| 16             | -                                          | -                           | 2,00       |
| 15             | -                                          | -                           | 2,00       |
| 14             | -                                          | -                           | 2,00       |
| 13             | -                                          | -                           | 2,00       |
| 12             | -                                          | -                           | 1,00       |
| 11             | -                                          | -                           | 1,00       |
| 10             | -                                          | -                           | 2,00       |
| 9              | -                                          | -                           | 2,00       |
| 8              | -                                          | -                           | 2,00       |
| 7              | -                                          | -                           | 2,00       |
| 6              | -                                          | -                           | 2,00       |
| 5              | -                                          | -                           | 2,00       |
| 4              | -                                          | -                           | 2,00       |
| 3              | -                                          | -                           | 2,00       |
| 2              | -                                          | -                           | 2,00       |
| 1              | -                                          | -                           | 1,00       |

| Laag<br>nummer | Primaire compr. coeff. |          | Seculaire compr. coeff. |          | Zwelling constanten |          |
|----------------|------------------------|----------|-------------------------|----------|---------------------|----------|
|                | Cp [-]                 | Cp' [-]  | Cs [-]                  | Cs' [-]  | Ap [-]              | As [-]   |
| 43             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 42             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 41             | 1,10E+03               | 1,10E+03 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 40             | 7,85E+01               | 1,83E+01 | 1,08E+03                | 3,87E+02 | 1,00E+09            | 1,00E+09 |
| 39             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 38             | 1,04E+02               | 2,34E+01 | 1,27E+03                | 6,00E+02 | 1,00E+09            | 1,00E+09 |
| 37             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 36             | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 35             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 34             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 33             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 32             | 1,10E+03               | 1,10E+03 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 31             | 7,85E+01               | 1,83E+01 | 1,08E+03                | 3,87E+02 | 1,00E+09            | 1,00E+09 |
| 30             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 29             | 1,04E+02               | 2,34E+01 | 1,27E+03                | 6,00E+02 | 1,00E+09            | 1,00E+09 |
| 28             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 27             | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 26             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 25             | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 24             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 23             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 22             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 21             | 1,10E+03               | 1,10E+03 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 20             | 7,85E+01               | 1,83E+01 | 1,08E+03                | 3,87E+02 | 1,00E+09            | 1,00E+09 |
| 19             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 18             | 1,04E+02               | 2,34E+01 | 1,27E+03                | 6,00E+02 | 1,00E+09            | 1,00E+09 |
| 17             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 16             | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 15             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 14             | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 13             | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 12             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 11             | 3,60E+01               | 1,20E+01 | 1,44E+02                | 4,80E+01 | 1,00E+09            | 1,00E+09 |
| 10             | 1,10E+03               | 1,10E+03 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |

| Laag<br>nummer | Primaire compr. coeff. |          | Seculaire compr. coeff. |          | Zwelling constanten |          |
|----------------|------------------------|----------|-------------------------|----------|---------------------|----------|
|                | Cp [-]                 | Cp' [-]  | Cs [-]                  | Cs' [-]  | Ap [-]              | As [-]   |
| 9              | 7,85E+01               | 1,83E+01 | 1,08E+03                | 3,87E+02 | 1,00E+09            | 1,00E+09 |
| 8              | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 7              | 1,04E+02               | 2,34E+01 | 1,27E+03                | 6,00E+02 | 1,00E+09            | 1,00E+09 |
| 6              | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 5              | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 4              | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 3              | 6,00E+01               | 1,70E+01 | 9,20E+02                | 3,10E+02 | 1,00E+09            | 1,00E+09 |
| 2              | 1,80E+03               | 6,00E+02 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |
| 1              | 1,00E+09               | 1,00E+09 | 1,00E+09                | 1,00E+09 | 1,00E+09            | 1,00E+09 |

## 2.6 Rechthoekige Belastingen

| Belasting<br>nummer | Tijd<br>[dagen] | Grootte<br>[kN/m²] | Dimensie          |                   | Middelpunt |          |          | Vorm<br>factor<br>[-] |
|---------------------|-----------------|--------------------|-------------------|-------------------|------------|----------|----------|-----------------------|
|                     |                 |                    | Breedte(x)<br>[m] | Breedte(z)<br>[m] | X<br>[m]   | Y<br>[m] | Z<br>[m] |                       |
| 1                   | 1               | 186,00             | 7,80              | 18,07             | 27,60      | -22,50   | -9,04    | 1,00                  |
| 2                   | 1               | 36,00              | 7,80              | 18,07             | 27,60      | -22,50   | -27,11   | 1,00                  |
| 3                   | 1               | 178,00             | 7,80              | 18,07             | 35,40      | -22,50   | -9,04    | 1,00                  |
| 4                   | 1               | 40,00              | 7,80              | 18,07             | 35,40      | -22,50   | -27,11   | 1,00                  |
| 5                   | 1               | 158,00             | 7,80              | 18,07             | 43,20      | -22,50   | -9,04    | 1,00                  |
| 6                   | 1               | 69,00              | 7,80              | 18,07             | 43,20      | -22,50   | -27,11   | 1,00                  |
| 7                   | 1               | 111,00             | 7,80              | 18,07             | 51,00      | -22,50   | -9,04    | 1,00                  |
| 8                   | 1               | 69,00              | 7,80              | 18,07             | 51,00      | -22,50   | -27,11   | 1,00                  |
| 9                   | 1               | 111,00             | 7,80              | 18,07             | 58,80      | -22,50   | -9,04    | 1,00                  |
| 10                  | 1               | 69,00              | 7,80              | 18,07             | 58,80      | -22,50   | -27,11   | 1,00                  |
| 11                  | 1               | 184,00             | 7,80              | 18,07             | 66,60      | -23,50   | -9,04    | 1,00                  |
| 12                  | 1               | 77,00              | 7,80              | 18,07             | 66,60      | -22,50   | -27,11   | 1,00                  |
| 13                  | 1               | 148,00             | 7,80              | 18,07             | 74,40      | -23,50   | -9,04    | 1,00                  |
| 14                  | 1               | 91,00              | 7,80              | 18,07             | 74,40      | -22,50   | -27,11   | 1,00                  |
| 15                  | 1               | 148,00             | 7,80              | 18,07             | 82,20      | -23,50   | -9,04    | 1,00                  |
| 16                  | 1               | 63,00              | 7,80              | 18,07             | 82,20      | -22,50   | -27,11   | 1,00                  |
| 17                  | 1               | 165,00             | 7,80              | 18,07             | 90,00      | -23,50   | -9,04    | 1,00                  |
| 18                  | 1               | 67,00              | 7,80              | 18,07             | 90,00      | -22,50   | -27,11   | 1,00                  |
| 19                  | 1               | 166,00             | 7,80              | 18,07             | 97,80      | -23,50   | -9,04    | 1,00                  |
| 20                  | 1               | 55,00              | 7,80              | 18,07             | 97,80      | -22,50   | -27,11   | 1,00                  |
| 21                  | 1               | 158,00             | 7,80              | 18,07             | 105,60     | -23,50   | -9,04    | 1,00                  |
| 22                  | 1               | 57,00              | 7,80              | 18,07             | 105,60     | -22,50   | -27,11   | 1,00                  |
| 23                  | 1               | 177,00             | 7,80              | 18,07             | 113,40     | -23,50   | -9,04    | 1,00                  |
| 24                  | 1               | 62,00              | 7,80              | 18,07             | 113,40     | -23,50   | -27,11   | 1,00                  |
| 25                  | 1               | 110,00             | 7,80              | 18,07             | 121,20     | -23,50   | -9,04    | 1,00                  |
| 26                  | 1               | 32,00              | 7,80              | 18,07             | 121,20     | -23,50   | -27,11   | 1,00                  |
| 27                  | 1               | 19,00              | 9,60              | 18,07             | 129,90     | -23,50   | -9,04    | 1,00                  |
| 28                  | 1               | 10,00              | 9,60              | 18,07             | 129,90     | -23,50   | -27,11   | 1,00                  |
| 29                  | 1               | 19,00              | 7,80              | 18,07             | 138,60     | -23,50   | -9,04    | 1,00                  |
| 30                  | 1               | 10,00              | 7,80              | 18,07             | 138,60     | -23,50   | -27,11   | 1,00                  |
| 31                  | 365             | 77,00              | 7,80              | 18,07             | 146,40     | -23,50   | -9,04    | 1,00                  |
| 32                  | 365             | 7,00               | 7,80              | 18,07             | 146,40     | -23,50   | -27,11   | 1,00                  |
| 33                  | 365             | 124,00             | 7,80              | 18,07             | 154,20     | -23,50   | -9,04    | 1,00                  |
| 34                  | 365             | 6,00               | 7,80              | 18,07             | 154,20     | -23,50   | -27,11   | 1,00                  |
| 35                  | 365             | 158,00             | 7,80              | 18,07             | 162,00     | -23,50   | -9,04    | 1,00                  |
| 36                  | 365             | 74,00              | 7,80              | 18,07             | 162,00     | -23,50   | -27,11   | 1,00                  |
| 37                  | 365             | 161,00             | 7,80              | 18,07             | 169,80     | -23,50   | -9,04    | 1,00                  |
| 38                  | 365             | 51,00              | 7,80              | 18,07             | 169,80     | -23,50   | -27,11   | 1,00                  |
| 39                  | 365             | 135,00             | 7,80              | 18,07             | 177,60     | -23,50   | -9,04    | 1,00                  |
| 40                  | 365             | 75,00              | 7,80              | 18,07             | 177,60     | -24,00   | -27,11   | 1,00                  |
| 41                  | 365             | 146,00             | 7,80              | 18,07             | 185,40     | -23,50   | -9,04    | 1,00                  |
| 42                  | 365             | 51,00              | 7,80              | 18,07             | 185,40     | -24,00   | -27,11   | 1,00                  |
| 43                  | 365             | 134,00             | 7,80              | 18,07             | 193,20     | -23,50   | -9,04    | 1,00                  |
| 44                  | 365             | 75,00              | 7,80              | 18,07             | 193,20     | -24,00   | -27,11   | 1,00                  |
| 45                  | 365             | 153,00             | 7,80              | 18,07             | 201,00     | -23,50   | -9,04    | 1,00                  |
| 46                  | 365             | 51,00              | 7,80              | 18,07             | 201,00     | -24,00   | -27,11   | 1,00                  |
| 47                  | 365             | 134,00             | 7,80              | 18,07             | 208,80     | -23,50   | -9,04    | 1,00                  |
| 48                  | 365             | 75,00              | 7,80              | 18,07             | 208,80     | -23,50   | -27,11   | 1,00                  |
| 49                  | 365             | 131,00             | 7,80              | 18,07             | 216,60     | -23,50   | -9,04    | 1,00                  |
| 50                  | 365             | 51,00              | 7,80              | 18,07             | 216,60     | -24,00   | -27,11   | 1,00                  |

| Belasting<br>nummer | Tijd<br>[dagen] | Grootte<br>[kN/m²] | Dimensie          |                   | Middelpunt |          |          | Vorm<br>factor<br>[-] |
|---------------------|-----------------|--------------------|-------------------|-------------------|------------|----------|----------|-----------------------|
|                     |                 |                    | Breedte(x)<br>[m] | Breedte(z)<br>[m] | X<br>[m]   | Y<br>[m] | Z<br>[m] |                       |
| 51                  | 365             | 196,00             | 7,80              | 18,07             | 224,40     | -23,50   | -9,04    | 1,00                  |
| 52                  | 365             | 61,00              | 7,80              | 18,07             | 224,40     | -24,00   | -27,11   | 1,00                  |
| 53                  | 365             | 121,00             | 7,80              | 18,07             | 232,20     | -23,50   | -9,04    | 1,00                  |
| 54                  | 365             | 176,00             | 3,90              | 6,02              | 228,30     | -24,00   | -21,08   | 1,00                  |
| 55                  | 365             | 208,00             | 3,90              | 9,04              | 236,10     | -23,50   | -4,52    | 1,00                  |
| 56                  | -1              | 61,20              | 280,00            | 150,00            | 120,00     | -2,80    | -50,00   | 1,00                  |
| 57                  | 0               | -61,20             | 228,30            | 36,14             | 114,15     | -2,80    | -18,07   | 1,00                  |
| 58                  | 730             | -61,20             | 17,15             | 42,90             | 166,67     | -2,80    | -59,54   | 1,00                  |
| 59                  | 730             | -61,20             | 45,25             | 4,50              | 197,87     | -2,80    | -40,34   | 1,00                  |
| 60                  | 730             | -61,20             | 10,00             | 19,40             | 180,25     | -2,80    | -52,29   | 1,00                  |
| 61                  | 730             | -61,20             | 32,00             | 19,40             | 201,25     | -2,80    | -52,29   | 1,00                  |
| 62                  | 730             | -61,20             | 32,00             | 19,40             | 191,25     | -2,80    | -71,69   | 1,00                  |
| 63                  | 730             | 20,00              | 17,15             | 42,90             | 166,67     | -21,60   | -59,54   | 1,00                  |
| 64                  | 730             | 20,00              | 45,25             | 4,50              | 197,87     | -21,60   | -40,34   | 1,00                  |
| 65                  | 730             | 20,00              | 10,00             | 19,40             | 180,25     | -21,60   | -52,29   | 1,00                  |
| 66                  | 730             | 157,00             | 32,00             | 19,40             | 201,25     | -21,60   | -52,29   | 1,00                  |
| 67                  | 730             | 157,00             | 32,00             | 19,40             | 191,25     | -21,60   | -71,69   | 1,00                  |
| 68                  | 730             | 40,00              | 17,15             | 42,90             | 166,67     | -24,00   | -59,54   | 1,00                  |
| 69                  | 730             | 40,00              | 45,25             | 4,50              | 197,87     | -24,00   | -40,34   | 1,00                  |
| 70                  | 730             | 40,00              | 10,00             | 19,40             | 180,25     | -24,00   | -52,29   | 1,00                  |
| 71                  | 730             | 313,00             | 32,00             | 19,40             | 201,25     | -24,00   | -52,29   | 1,00                  |
| 72                  | 730             | 313,00             | 32,00             | 19,40             | 191,25     | -24,00   | -71,69   | 1,00                  |
| 73                  | 1               | 133,00             | 23,70             | 18,07             | 11,85      | -22,50   | -9,04    | 1,00                  |
| 74                  | 1               | 68,00              | 23,70             | 18,07             | 11,85      | -22,50   | -27,11   | 1,00                  |
| 75                  | 0               | -61,20             | 7,80              | 18,07             | 232,20     | -2,80    | -9,04    | 1,00                  |

## 2.7 Verticalen

| Verticaalnummer | X-coördinaten [m] |         |         |         |         |
|-----------------|-------------------|---------|---------|---------|---------|
| 1 - 5           | -20,000           | -5,000  | 0,000   | 4,050   | 12,000  |
| 6 - 10          | 19,800            | 27,600  | 35,400  | 43,200  | 47,100  |
| 11 - 15         | 51,000            | 54,900  | 58,800  | 62,700  | 66,600  |
| 16 - 20         | 70,500            | 74,400  | 82,200  | 90,000  | 97,800  |
| 21 - 25         | 105,600           | 113,400 | 117,300 | 121,200 | 125,100 |
| 26 - 30         | 129,900           | 134,700 | 138,600 | 142,500 | 146,400 |
| 31 - 35         | 150,300           | 154,200 | 158,100 | 162,000 | 165,900 |
| 36 - 40         | 169,800           | 173,700 | 177,600 | 181,500 | 185,400 |
| 41 - 45         | 189,300           | 193,200 | 197,100 | 201,000 | 204,900 |
| 46 - 50         | 208,800           | 212,700 | 216,600 | 220,500 | 224,400 |
| 51 - 55         | 228,300           | 232,200 | 236,100 | 240,000 | 243,900 |
| 56 - 57         | 248,900           | 260,000 |         |         |         |

### 3 Resultaat per Verticaal

#### 3.1 Resultaat voor Verticaal 1 (X = -20,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| Laag 43       |                                  |                                 |                                |                                  |                                 |                                |
| -2,80         | 73,600                           | 43,000                          | 30,600                         | 73,602                           | 43,002                          | 30,600                         |
| -2,90         | 75,100                           | 44,000                          | 31,100                         | 75,102                           | 44,002                          | 31,100                         |
| -3,00         | 76,600                           | 45,000                          | 31,600                         | 76,602                           | 45,002                          | 31,600                         |
| -3,10         | 78,100                           | 46,000                          | 32,100                         | 78,102                           | 46,002                          | 32,100                         |
| -3,20         | 79,600                           | 47,000                          | 32,600                         | 79,602                           | 47,002                          | 32,600                         |
| -3,30         | 81,100                           | 48,000                          | 33,100                         | 81,102                           | 48,002                          | 33,100                         |
| -3,40         | 82,600                           | 49,000                          | 33,600                         | 82,602                           | 49,002                          | 33,600                         |
| -3,50         | 84,100                           | 50,000                          | 34,100                         | 84,102                           | 50,002                          | 34,100                         |
| -3,60         | 85,600                           | 51,000                          | 34,600                         | 85,602                           | 51,002                          | 34,600                         |
| -3,70         | 87,100                           | 52,000                          | 35,100                         | 87,102                           | 52,002                          | 35,100                         |
| -3,80         | 88,600                           | 53,000                          | 35,600                         | 88,602                           | 53,002                          | 35,600                         |
| -4,00         | 91,600                           | 55,000                          | 36,600                         | 91,602                           | 55,002                          | 36,600                         |
| Laag 42       |                                  |                                 |                                |                                  |                                 |                                |
| -4,00         | 91,600                           | 55,000                          | 36,600                         | 91,602                           | 55,002                          | 36,600                         |
| -4,90         | 107,800                          | 64,000                          | 43,800                         | 107,802                          | 64,002                          | 43,800                         |
| -5,90         | 125,800                          | 74,000                          | 51,800                         | 125,801                          | 74,002                          | 51,800                         |
| -6,90         | 143,800                          | 84,000                          | 59,800                         | 143,801                          | 84,002                          | 59,799                         |
| -7,90         | 161,800                          | 94,000                          | 67,800                         | 161,799                          | 94,002                          | 67,798                         |
| -8,90         | 179,799                          | 104,000                         | 75,799                         | 179,797                          | 104,002                         | 75,795                         |
| -9,90         | 197,799                          | 114,000                         | 83,799                         | 197,793                          | 114,002                         | 83,792                         |
| -10,30        | 204,999                          | 118,000                         | 86,999                         | 204,991                          | 118,002                         | 86,990                         |
| -11,20        | 221,198                          | 127,000                         | 94,198                         | 221,186                          | 127,002                         | 94,184                         |
| -12,20        | 239,197                          | 137,000                         | 102,197                        | 239,178                          | 137,002                         | 102,176                        |
| -13,20        | 257,195                          | 147,000                         | 110,195                        | 257,166                          | 147,002                         | 110,165                        |
| -14,20        | 275,193                          | 157,000                         | 118,193                        | 275,152                          | 157,002                         | 118,151                        |
| -15,20        | 293,190                          | 167,000                         | 126,190                        | 293,134                          | 167,002                         | 126,133                        |
| -16,20        | 311,186                          | 177,000                         | 134,186                        | 311,113                          | 177,002                         | 134,111                        |
| -16,60        | 318,385                          | 181,000                         | 137,385                        | 318,303                          | 181,002                         | 137,301                        |
| Laag 41       |                                  |                                 |                                |                                  |                                 |                                |
| -16,60        | 318,385                          | 161,000                         | 157,385                        | 318,303                          | 161,002                         | 157,301                        |
| -17,35        | 334,131                          | 168,500                         | 165,631                        | 334,032                          | 168,502                         | 165,531                        |
| -18,35        | 355,126                          | 178,500                         | 176,626                        | 355,001                          | 178,502                         | 176,500                        |
| -19,35        | 376,119                          | 188,500                         | 187,619                        | 375,965                          | 188,502                         | 187,464                        |
| -20,35        | 397,111                          | 198,500                         | 198,611                        | 396,924                          | 198,502                         | 198,423                        |
| -21,35        | 418,102                          | 208,500                         | 209,602                        | 417,878                          | 208,502                         | 209,377                        |
| -22,35        | 439,092                          | 218,500                         | 220,592                        | 438,827                          | 218,502                         | 220,326                        |
| -22,75        | 447,487                          | 222,500                         | 224,987                        | 447,205                          | 222,502                         | 224,704                        |
| -24,40        | 482,116                          | 239,000                         | 243,116                        | 481,756                          | 239,002                         | 242,755                        |
| -26,40        | 524,083                          | 259,000                         | 265,083                        | 523,618                          | 259,002                         | 264,617                        |
| -28,40        | 566,044                          | 279,000                         | 287,044                        | 565,463                          | 279,002                         | 286,462                        |
| -28,90        | 576,533                          | 284,000                         | 292,533                        | 575,922                          | 284,002                         | 291,921                        |
| Laag 40       |                                  |                                 |                                |                                  |                                 |                                |
| -28,90        | 576,533                          | 284,000                         | 292,533                        | 575,922                          | 284,002                         | 291,921                        |
| -29,95        | 596,982                          | 294,500                         | 302,482                        | 596,309                          | 294,502                         | 301,807                        |
| -30,95        | 616,456                          | 304,500                         | 311,956                        | 615,722                          | 304,502                         | 311,221                        |
| -32,00        | 636,901                          | 315,000                         | 321,901                        | 636,105                          | 315,002                         | 321,103                        |
| -33,00        | 656,371                          | 325,000                         | 331,371                        | 655,516                          | 325,002                         | 330,514                        |
| Laag 39       |                                  |                                 |                                |                                  |                                 |                                |
| -33,00        | 656,371                          | 325,000                         | 331,371                        | 655,516                          | 325,002                         | 330,514                        |
| -33,90        | 674,341                          | 334,000                         | 340,341                        | 673,435                          | 334,002                         | 339,434                        |
| -34,80        | 692,309                          | 343,000                         | 349,309                        | 691,355                          | 343,002                         | 348,354                        |
| Laag 38       |                                  |                                 |                                |                                  |                                 |                                |
| -34,80        | 692,310                          | 343,000                         | 349,310                        | 691,356                          | 343,002                         | 348,354                        |
| -36,40        | 725,849                          | 359,000                         | 366,849                        | 724,815                          | 359,001                         | 365,813                        |
| -38,40        | 767,764                          | 379,000                         | 388,764                        | 766,645                          | 379,001                         | 387,643                        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -39,40        | 788,718             | 389,000            | 399,718           | 787,563             | 389,001            | 398,562           |
| -44,00        | 885,075             | 435,000            | 450,075           | 883,826             | 435,001            | 448,826           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 885,075             | 435,000            | 450,075           | 883,827             | 435,001            | 448,826           |
| -46,50        | 937,422             | 460,000            | 477,422           | 936,173             | 460,001            | 476,172           |
| -49,00        | 989,754             | 485,000            | 504,754           | 988,539             | 485,001            | 503,539           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 989,754             | 485,000            | 504,754           | 988,540             | 485,001            | 503,539           |
| -50,00        | 1008,683            | 495,000            | 513,683           | 1007,491            | 495,000            | 512,490           |
| -51,00        | 1027,610            | 505,000            | 522,610           | 1026,445            | 505,000            | 521,445           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1027,610            | 505,000            | 522,610           | 1026,445            | 505,000            | 521,445           |
| -52,00        | 1048,534            | 515,000            | 533,534           | 1047,402            | 515,000            | 532,402           |
| -53,00        | 1069,457            | 525,000            | 544,457           | 1068,361            | 525,000            | 543,361           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1069,457            | 525,000            | 544,457           | 1068,361            | 525,000            | 543,361           |
| -57,00        | 1153,128            | 565,000            | 588,128           | 1152,216            | 565,000            | 587,216           |
| -62,00        | 1257,676            | 615,000            | 642,676           | 1257,059            | 615,000            | 642,059           |
| -67,00        | 1362,187            | 665,000            | 697,187           | 1361,905            | 665,000            | 696,905           |
| -69,00        | 1403,983            | 685,000            | 718,983           | 1403,840            | 685,000            | 718,840           |
| -73,00        | 1487,562            | 725,000            | 762,562           | 1487,699            | 725,000            | 762,699           |
| -78,00        | 1592,017            | 775,000            | 817,017           | 1592,495            | 775,000            | 817,495           |
| -83,00        | 1696,457            | 825,000            | 871,457           | 1697,256            | 825,000            | 872,256           |
| -85,00        | 1738,230            | 845,000            | 893,230           | 1739,150            | 845,000            | 894,150           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -28,90     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -28,90     | -33,00     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,00     | -34,80     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -34,80     | -44,00     | 38             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0001                      | 0,0000                         | 0,0002                     |                                                  |

### 3.2 Resultaat voor Verticaal 2 (X = -5,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| Laag 43       |                                  |                                 |                                |                                  |                                 |                                |
| -2,80         | 104,200                          | 43,000                          | 61,200                         | 104,204                          | 43,004                          | 61,200                         |
| -2,90         | 105,700                          | 44,000                          | 61,700                         | 105,704                          | 44,004                          | 61,700                         |
| -3,00         | 107,200                          | 45,000                          | 62,200                         | 107,204                          | 45,004                          | 62,200                         |
| -3,10         | 108,700                          | 46,000                          | 62,700                         | 108,704                          | 46,004                          | 62,700                         |
| -3,20         | 110,200                          | 47,000                          | 63,200                         | 110,204                          | 47,004                          | 63,200                         |
| -3,30         | 111,700                          | 48,000                          | 63,700                         | 111,704                          | 48,004                          | 63,700                         |
| -3,40         | 113,200                          | 49,000                          | 64,200                         | 113,203                          | 49,004                          | 64,200                         |
| -3,50         | 114,700                          | 50,000                          | 64,700                         | 114,703                          | 50,004                          | 64,700                         |
| -3,60         | 116,200                          | 51,000                          | 65,200                         | 116,203                          | 51,004                          | 65,200                         |
| -3,70         | 117,700                          | 52,000                          | 65,700                         | 117,703                          | 52,004                          | 65,700                         |
| -3,80         | 119,200                          | 53,000                          | 66,200                         | 119,203                          | 53,004                          | 66,200                         |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,203                          | 55,004                          | 67,200                         |
| Laag 42       |                                  |                                 |                                |                                  |                                 |                                |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,203                          | 55,004                          | 67,200                         |
| -4,90         | 138,396                          | 64,000                          | 74,396                         | 138,399                          | 64,004                          | 74,396                         |
| -5,90         | 156,380                          | 74,000                          | 82,380                         | 156,383                          | 74,004                          | 82,380                         |
| -6,90         | 174,343                          | 84,000                          | 90,343                         | 174,344                          | 84,004                          | 90,340                         |
| -7,90         | 192,272                          | 94,000                          | 98,272                         | 192,269                          | 94,004                          | 98,266                         |
| -8,90         | 210,156                          | 104,000                         | 106,156                        | 210,147                          | 104,004                         | 106,144                        |
| -9,90         | 227,988                          | 114,000                         | 113,988                        | 227,969                          | 114,004                         | 113,965                        |
| -10,30        | 235,105                          | 118,000                         | 117,105                        | 235,081                          | 118,004                         | 117,077                        |
| -11,20        | 251,083                          | 127,000                         | 124,083                        | 251,044                          | 127,004                         | 124,041                        |
| -12,20        | 268,781                          | 137,000                         | 131,781                        | 268,721                          | 137,004                         | 131,717                        |
| -13,20        | 286,422                          | 147,000                         | 139,422                        | 286,335                          | 147,004                         | 139,331                        |
| -14,20        | 304,013                          | 157,000                         | 147,013                        | 303,891                          | 157,004                         | 146,888                        |
| -15,20        | 321,559                          | 167,000                         | 154,559                        | 321,395                          | 167,004                         | 154,392                        |
| -16,20        | 339,067                          | 177,000                         | 162,067                        | 338,854                          | 177,004                         | 161,850                        |
| -16,60        | 346,061                          | 181,000                         | 165,061                        | 345,826                          | 181,004                         | 164,823                        |
| Laag 41       |                                  |                                 |                                |                                  |                                 |                                |
| -16,60        | 346,061                          | 161,000                         | 185,061                        | 345,826                          | 161,004                         | 184,823                        |
| -17,37        | 361,743                          | 168,661                         | 193,082                        | 361,462                          | 168,664                         | 192,798                        |
| -18,37        | 382,194                          | 178,661                         | 203,533                        | 381,847                          | 178,664                         | 203,183                        |
| -19,37        | 402,629                          | 188,661                         | 213,969                        | 402,209                          | 188,664                         | 213,544                        |
| -20,37        | 423,055                          | 198,661                         | 224,394                        | 422,553                          | 198,664                         | 223,888                        |
| -21,37        | 443,475                          | 208,661                         | 234,814                        | 442,885                          | 208,664                         | 234,221                        |
| -22,37        | 463,894                          | 218,661                         | 245,233                        | 463,210                          | 218,664                         | 244,545                        |
| -22,77        | 472,062                          | 222,661                         | 249,401                        | 471,338                          | 222,664                         | 248,674                        |
| -24,43        | 506,091                          | 239,322                         | 266,770                        | 505,196                          | 239,325                         | 265,870                        |
| -26,43        | 546,969                          | 259,322                         | 287,647                        | 545,852                          | 259,325                         | 286,527                        |
| -28,43        | 587,887                          | 279,322                         | 308,566                        | 586,545                          | 279,325                         | 307,220                        |
| -28,93        | 598,124                          | 284,322                         | 313,802                        | 596,726                          | 284,325                         | 312,401                        |
| Laag 40       |                                  |                                 |                                |                                  |                                 |                                |
| -28,93        | 598,124                          | 284,322                         | 313,802                        | 596,726                          | 284,325                         | 312,401                        |
| -30,00        | 618,462                          | 295,036                         | 323,427                        | 616,948                          | 295,039                         | 321,909                        |
| -31,00        | 637,458                          | 305,036                         | 332,422                        | 635,839                          | 305,039                         | 330,800                        |
| -32,08        | 657,823                          | 315,750                         | 342,073                        | 656,100                          | 315,753                         | 340,347                        |
| -33,08        | 676,843                          | 325,750                         | 351,093                        | 675,031                          | 325,753                         | 349,278                        |
| Laag 39       |                                  |                                 |                                |                                  |                                 |                                |
| -33,08        | 676,843                          | 325,750                         | 351,093                        | 675,032                          | 325,754                         | 349,278                        |
| -33,99        | 694,735                          | 334,911                         | 359,824                        | 692,850                          | 334,914                         | 357,936                        |
| -34,91        | 712,637                          | 344,072                         | 368,565                        | 710,687                          | 344,075                         | 366,612                        |
| Laag 38       |                                  |                                 |                                |                                  |                                 |                                |
| -34,91        | 712,637                          | 344,072                         | 368,565                        | 710,687                          | 344,075                         | 366,612                        |
| -36,45        | 744,424                          | 359,536                         | 384,888                        | 742,384                          | 359,539                         | 382,845                        |
| -38,45        | 785,572                          | 379,536                         | 406,036                        | 783,457                          | 379,539                         | 403,919                        |
| -39,45        | 806,160                          | 389,536                         | 416,625                        | 804,027                          | 389,539                         | 414,488                        |
| -44,00        | 899,876                          | 435,000                         | 464,876                        | 897,798                          | 435,002                         | 462,797                        |
| Laag 37       |                                  |                                 |                                |                                  |                                 |                                |
| -44,00        | 899,876                          | 435,000                         | 464,876                        | 897,799                          | 435,002                         | 462,797                        |
| -46,50        | 951,476                          | 460,000                         | 491,476                        | 949,521                          | 460,002                         | 489,519                        |
| -49,00        | 1003,116                         | 485,000                         | 518,116                        | 1001,336                         | 485,002                         | 516,335                        |
| Laag 36       |                                  |                                 |                                |                                  |                                 |                                |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -49,00        | 1003,117            | 485,000            | 518,117           | 1001,336            | 485,002            | 516,335           |
| -50,00        | 1021,783            | 495,000            | 526,783           | 1020,084            | 495,001            | 525,083           |
| -51,00        | 1040,455            | 505,000            | 535,455           | 1038,843            | 505,000            | 533,843           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1040,455            | 505,000            | 535,455           | 1038,844            | 505,000            | 533,843           |
| -52,00        | 1061,133            | 515,000            | 546,133           | 1059,614            | 515,000            | 544,614           |
| -53,00        | 1081,815            | 525,000            | 556,815           | 1080,394            | 525,000            | 555,394           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1081,815            | 525,000            | 556,815           | 1080,394            | 525,000            | 555,394           |
| -57,00        | 1164,589            | 565,000            | 599,589           | 1163,595            | 565,000            | 598,595           |
| -62,00        | 1268,146            | 615,000            | 653,146           | 1267,724            | 615,000            | 652,724           |
| -67,00        | 1371,784            | 665,000            | 706,784           | 1371,935            | 665,000            | 706,935           |
| -69,00        | 1413,260            | 685,000            | 728,260           | 1413,632            | 685,000            | 728,632           |
| -73,00        | 1496,242            | 725,000            | 771,242           | 1497,036            | 725,000            | 772,036           |
| -78,00        | 1600,024            | 775,000            | 825,024           | 1601,298            | 775,000            | 826,298           |
| -83,00        | 1703,862            | 825,000            | 878,862           | 1705,556            | 825,000            | 880,556           |
| -85,00        | 1745,411            | 845,000            | 900,411           | 1747,257            | 845,000            | 902,257           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -28,93     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -28,93     | -33,08     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,08     | -34,91     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -34,91     | -44,00     | 38             | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0001                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0003                      | 0,0000                         | 0,0004                     |                                                  |

### 3.3 Resultaat voor Verticaal 3 (X = 0,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,205             | 43,004             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,704             | 44,004             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,204             | 45,004             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,704             | 46,004             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,204             | 47,004             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,704             | 48,004             | 63,700            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,204             | 49,004             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,704             | 50,004             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,204             | 51,004             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,704             | 52,004             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,204             | 53,004             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| -4,90         | 138,399             | 64,000             | 74,399            | 138,403             | 64,004             | 74,398            |
| -5,90         | 156,394             | 74,000             | 82,394            | 156,397             | 74,004             | 82,392            |
| -6,90         | 174,381             | 84,000             | 90,381            | 174,382             | 84,004             | 90,377            |
| -7,90         | 192,356             | 94,000             | 98,356            | 192,352             | 94,004             | 98,347            |
| -8,90         | 210,314             | 104,000            | 106,314           | 210,301             | 104,004            | 106,297           |
| -9,90         | 228,249             | 114,000            | 114,249           | 228,223             | 114,004            | 114,219           |
| -10,30        | 235,416             | 118,000            | 117,416           | 235,383             | 118,004            | 117,379           |
| -11,20        | 251,525             | 127,000            | 124,525           | 251,473             | 127,004            | 124,469           |
| -12,20        | 269,394             | 137,000            | 132,394           | 269,314             | 137,004            | 132,310           |
| -13,20        | 287,231             | 147,000            | 140,231           | 287,115             | 147,004            | 140,110           |
| -14,20        | 305,034             | 157,000            | 148,034           | 304,872             | 157,004            | 147,868           |
| -15,20        | 322,804             | 167,000            | 155,804           | 322,587             | 167,004            | 155,583           |
| -16,20        | 340,541             | 177,000            | 163,541           | 340,261             | 177,004            | 163,256           |
| -16,60        | 347,627             | 181,000            | 166,627           | 347,318             | 181,004            | 166,314           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 347,627             | 161,000            | 186,627           | 347,319             | 161,004            | 186,314           |
| -17,37        | 363,594             | 168,714            | 194,880           | 363,227             | 168,719            | 194,508           |
| -18,37        | 384,268             | 178,714            | 205,553           | 383,816             | 178,719            | 205,097           |
| -19,37        | 404,916             | 188,714            | 216,202           | 404,371             | 188,719            | 215,652           |
| -20,37        | 425,542             | 198,714            | 226,828           | 424,895             | 198,719            | 226,176           |
| -21,37        | 446,150             | 208,714            | 237,435           | 445,392             | 208,719            | 236,674           |
| -22,37        | 466,740             | 218,714            | 248,026           | 465,867             | 218,719            | 247,148           |
| -22,77        | 474,973             | 222,714            | 252,258           | 474,051             | 222,719            | 251,332           |
| -24,44        | 509,354             | 239,429            | 269,925           | 508,219             | 239,433            | 268,786           |
| -26,44        | 550,464             | 259,429            | 291,035           | 549,062             | 259,433            | 289,629           |
| -28,44        | 591,557             | 279,429            | 312,128           | 589,888             | 279,433            | 310,455           |
| -28,94        | 601,830             | 284,429            | 317,401           | 600,095             | 284,433            | 315,662           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -28,94        | 601,830             | 284,429            | 317,401           | 600,095             | 284,433            | 315,662           |
| -30,02        | 622,371             | 295,214            | 327,156           | 620,500             | 295,219            | 325,281           |
| -31,02        | 641,416             | 305,214            | 336,202           | 639,428             | 305,219            | 334,209           |
| -32,10        | 661,960             | 316,000            | 345,960           | 659,854             | 316,004            | 343,850           |
| -33,10        | 681,011             | 326,000            | 355,011           | 678,807             | 326,004            | 352,803           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,10        | 681,011             | 326,000            | 355,011           | 678,808             | 326,004            | 352,803           |
| -34,02        | 699,029             | 335,214            | 363,815           | 696,746             | 335,219            | 361,528           |
| -34,94        | 717,051             | 344,429            | 372,622           | 714,700             | 344,433            | 370,267           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -34,94        | 717,051             | 344,429            | 372,622           | 714,700             | 344,433            | 370,267           |
| -36,47        | 748,482             | 359,714            | 388,768           | 746,045             | 359,718            | 386,327           |
| -38,47        | 789,625             | 379,714            | 409,911           | 787,127             | 379,718            | 407,409           |
| -39,47        | 810,205             | 389,714            | 420,490           | 807,697             | 389,718            | 417,979           |
| -44,00        | 903,464             | 435,000            | 468,464           | 901,088             | 435,002            | 466,086           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 903,464             | 435,000            | 468,464           | 901,088             | 435,002            | 466,086           |
| -46,50        | 954,994             | 460,000            | 494,994           | 952,794             | 460,002            | 492,792           |
| -49,00        | 1006,554            | 485,000            | 521,554           | 1004,588            | 485,002            | 519,586           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1006,554            | 485,000            | 521,554           | 1004,588            | 485,002            | 519,586           |
| -50,00        | 1025,187            | 495,000            | 530,187           | 1023,325            | 495,001            | 528,324           |
| -51,00        | 1043,824            | 505,000            | 538,824           | 1042,073            | 505,000            | 537,073           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1043,824            | 505,000            | 538,824           | 1042,074            | 505,000            | 537,073           |
| -52,00        | 1064,465            | 515,000            | 549,465           | 1062,832            | 515,000            | 547,832           |
| -53,00        | 1085,111            | 525,000            | 560,111           | 1083,600            | 525,000            | 558,600           |
| Laag 1        |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| -53,00        | 1085,111                         | 525,000                         | 560,111                        | 1083,600                         | 525,000                         | 558,600                        |
| -57,00        | 1167,737                         | 565,000                         | 602,737                        | 1166,742                         | 565,000                         | 601,742                        |
| -62,00        | 1271,105                         | 615,000                         | 656,105                        | 1270,785                         | 615,000                         | 655,785                        |
| -67,00        | 1374,559                         | 665,000                         | 709,559                        | 1374,895                         | 665,000                         | 709,895                        |
| -69,00        | 1415,963                         | 685,000                         | 730,963                        | 1416,549                         | 685,000                         | 731,549                        |
| -73,00        | 1498,806                         | 725,000                         | 773,806                        | 1499,863                         | 725,000                         | 774,863                        |
| -78,00        | 1602,423                         | 775,000                         | 827,423                        | 1604,005                         | 775,000                         | 829,005                        |
| -83,00        | 1706,107                         | 825,000                         | 881,107                        | 1708,141                         | 825,000                         | 883,141                        |
| -85,00        | 1747,597                         | 845,000                         | 902,597                        | 1749,792                         | 845,000                         | 904,792                        |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -28,94     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -28,94     | -33,10     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,10     | -34,94     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -34,94     | -44,00     | 38             | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0003                      | 0,0000                         | 0,0004                     |                                                  |

### 3.4 Resultaat voor Verticaal 4 (X = 4,05 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| Laag 43       |                                  |                                 |                                |                                  |                                 |                                |
| -2,80         | 104,200                          | 43,000                          | 61,200                         | 104,205                          | 43,005                          | 61,200                         |
| -2,90         | 105,700                          | 44,000                          | 61,700                         | 105,705                          | 44,005                          | 61,700                         |
| -3,00         | 107,200                          | 45,000                          | 62,200                         | 107,205                          | 45,005                          | 62,200                         |
| -3,10         | 108,700                          | 46,000                          | 62,700                         | 108,705                          | 46,005                          | 62,700                         |
| -3,20         | 110,200                          | 47,000                          | 63,200                         | 110,205                          | 47,005                          | 63,200                         |
| -3,30         | 111,700                          | 48,000                          | 63,700                         | 111,705                          | 48,005                          | 63,700                         |
| -3,40         | 113,200                          | 49,000                          | 64,200                         | 113,205                          | 49,005                          | 64,200                         |
| -3,50         | 114,700                          | 50,000                          | 64,700                         | 114,705                          | 50,005                          | 64,700                         |
| -3,60         | 116,200                          | 51,000                          | 65,200                         | 116,205                          | 51,005                          | 65,200                         |
| -3,70         | 117,700                          | 52,000                          | 65,700                         | 117,705                          | 52,005                          | 65,700                         |
| -3,80         | 119,200                          | 53,000                          | 66,200                         | 119,205                          | 53,005                          | 66,200                         |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,205                          | 55,005                          | 67,200                         |
| Laag 42       |                                  |                                 |                                |                                  |                                 |                                |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,205                          | 55,005                          | 67,200                         |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -4,90         | 138,399             | 64,000             | 74,399            | 138,404             | 64,005             | 74,399            |
| -5,90         | 156,397             | 74,000             | 82,397            | 156,400             | 74,005             | 82,395            |
| -6,90         | 174,391             | 84,000             | 90,391            | 174,391             | 84,005             | 90,386            |
| -7,90         | 192,378             | 94,000             | 98,378            | 192,373             | 94,005             | 98,368            |
| -8,90         | 210,356             | 104,000            | 106,356           | 210,341             | 104,005            | 106,336           |
| -9,90         | 228,323             | 114,000            | 114,323           | 228,291             | 114,005            | 114,286           |
| -10,30        | 235,505             | 118,000            | 117,505           | 235,465             | 118,005            | 117,460           |
| -11,20        | 251,656             | 127,000            | 124,656           | 251,593             | 127,005            | 124,588           |
| -12,20        | 269,584             | 137,000            | 132,584           | 269,487             | 137,005            | 132,482           |
| -13,20        | 287,491             | 147,000            | 140,491           | 287,351             | 147,005            | 140,346           |
| -14,20        | 305,377             | 157,000            | 148,377           | 305,183             | 157,005            | 148,178           |
| -15,20        | 323,239             | 167,000            | 156,239           | 322,980             | 167,005            | 155,975           |
| -16,20        | 341,077             | 177,000            | 164,077           | 340,742             | 177,005            | 163,737           |
| -16,60        | 348,206             | 181,000            | 167,206           | 347,838             | 181,005            | 166,833           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,206             | 161,000            | 187,206           | 347,838             | 161,005            | 186,833           |
| -17,38        | 364,348             | 168,758            | 195,590           | 363,910             | 168,763            | 195,147           |
| -18,38        | 385,135             | 178,758            | 206,377           | 384,597             | 178,763            | 205,835           |
| -19,38        | 405,899             | 188,758            | 217,141           | 405,252             | 188,763            | 216,489           |
| -20,38        | 426,642             | 198,758            | 227,884           | 425,876             | 198,763            | 227,113           |
| -21,38        | 447,365             | 208,758            | 238,607           | 446,471             | 208,763            | 237,708           |
| -22,38        | 468,069             | 218,758            | 249,311           | 467,040             | 218,763            | 248,277           |
| -22,78        | 476,346             | 222,758            | 253,588           | 475,261             | 222,763            | 252,498           |
| -24,45        | 510,994             | 239,516            | 271,478           | 509,665             | 239,521            | 270,144           |
| -26,45        | 552,297             | 259,516            | 292,781           | 550,663             | 259,521            | 291,142           |
| -28,45        | 593,558             | 279,516            | 314,043           | 591,622             | 279,521            | 312,102           |
| -28,95        | 603,869             | 284,516            | 319,353           | 601,860             | 284,521            | 317,339           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -28,95        | 603,869             | 284,516            | 319,353           | 601,860             | 284,521            | 317,339           |
| -30,04        | 624,597             | 295,359            | 329,237           | 622,436             | 295,364            | 327,072           |
| -31,04        | 643,707             | 305,359            | 338,347           | 641,415             | 305,364            | 336,051           |
| -32,12        | 664,423             | 316,202            | 348,221           | 662,004             | 316,207            | 345,796           |
| -33,12        | 683,525             | 326,202            | 357,323           | 681,001             | 326,207            | 354,794           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,12        | 683,526             | 326,203            | 357,323           | 681,001             | 326,207            | 354,794           |
| -34,05        | 701,671             | 335,460            | 366,210           | 699,063             | 335,465            | 363,598           |
| -34,97        | 719,815             | 344,718            | 375,096           | 717,137             | 344,723            | 372,413           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -34,97        | 719,815             | 344,718            | 375,097           | 717,137             | 344,723            | 372,414           |
| -36,49        | 751,001             | 359,859            | 391,142           | 748,239             | 359,864            | 388,375           |
| -38,49        | 792,196             | 379,859            | 412,337           | 789,383             | 379,863            | 409,520           |
| -39,49        | 812,795             | 389,859            | 422,936           | 809,982             | 389,863            | 420,118           |
| -44,00        | 905,801             | 435,000            | 470,801           | 903,178             | 435,002            | 468,175           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 905,801             | 435,000            | 470,801           | 903,178             | 435,003            | 468,176           |
| -46,50        | 957,330             | 460,000            | 497,330           | 954,927             | 460,002            | 494,924           |
| -49,00        | 1008,877            | 485,000            | 523,877           | 1006,753            | 485,002            | 521,751           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1008,877            | 485,000            | 523,877           | 1006,754            | 485,002            | 521,751           |
| -50,00        | 1027,501            | 495,000            | 532,501           | 1025,501            | 495,001            | 530,500           |
| -51,00        | 1046,128            | 505,000            | 541,128           | 1044,259            | 505,000            | 539,259           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1046,128            | 505,000            | 541,128           | 1044,259            | 505,000            | 539,259           |
| -52,00        | 1066,758            | 515,000            | 551,758           | 1065,025            | 515,000            | 550,025           |
| -53,00        | 1087,392            | 525,000            | 562,392           | 1085,799            | 525,000            | 560,799           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1087,392            | 525,000            | 562,392           | 1085,800            | 525,000            | 560,800           |
| -57,00        | 1169,956            | 565,000            | 604,956           | 1168,956            | 565,000            | 603,956           |
| -62,00        | 1273,232            | 615,000            | 658,232           | 1272,990            | 615,000            | 657,990           |
| -67,00        | 1376,585            | 665,000            | 711,585           | 1377,069            | 665,000            | 712,069           |
| -69,00        | 1417,947            | 685,000            | 732,947           | 1418,704            | 685,000            | 733,704           |
| -73,00        | 1500,707            | 725,000            | 775,707           | 1501,974            | 725,000            | 776,974           |
| -78,00        | 1604,220            | 775,000            | 829,220           | 1606,051            | 775,000            | 831,051           |
| -83,00        | 1707,802            | 825,000            | 882,802           | 1710,112            | 825,000            | 885,112           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -85,00        | 1749,253            | 845,000            | 904,253           | 1751,731            | 845,000            | 906,731           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -28,95     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -28,95     | -33,12     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,12     | -34,97     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -34,97     | -44,00     | 38             | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0004                      | 0,0000                         | 0,0005                     |                                                  |

### 3.5 Resultaat voor Verticaal 5 (X = 12,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,206             | 43,006             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,706             | 44,006             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,206             | 45,006             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,706             | 46,006             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,206             | 47,006             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,706             | 48,006             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,206             | 49,006             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,706             | 50,006             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,206             | 51,006             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,706             | 52,006             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,206             | 53,006             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,006             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,006             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,405             | 64,006             | 74,399            |
| -5,90         | 156,399             | 74,000             | 82,399            | 156,403             | 74,006             | 82,397            |
| -6,90         | 174,397             | 84,000             | 90,397            | 174,397             | 84,006             | 90,391            |
| -7,90         | 192,392             | 94,000             | 98,392            | 192,385             | 94,006             | 98,379            |
| -8,90         | 210,385             | 104,000            | 106,385           | 210,364             | 104,006            | 106,358           |
| -9,90         | 228,373             | 114,000            | 114,373           | 228,332             | 114,006            | 114,326           |
| -10,30        | 235,566             | 118,000            | 117,566           | 235,515             | 118,006            | 117,509           |
| -11,20        | 251,748             | 127,000            | 124,748           | 251,667             | 127,006            | 124,661           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,720             | 137,000            | 132,720           | 269,596             | 137,006            | 132,590           |
| -13,20        | 287,684             | 147,000            | 140,684           | 287,504             | 147,006            | 140,498           |
| -14,20        | 305,637             | 157,000            | 148,637           | 305,389             | 157,006            | 148,383           |
| -15,20        | 323,579             | 167,000            | 156,579           | 323,249             | 167,006            | 156,243           |
| -16,20        | 341,509             | 177,000            | 164,509           | 341,083             | 177,006            | 164,077           |
| -16,60        | 348,678             | 181,000            | 167,678           | 348,209             | 181,006            | 167,203           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,678             | 161,000            | 187,678           | 348,209             | 161,006            | 187,203           |
| -17,38        | 365,080             | 168,843            | 196,237           | 364,522             | 168,849            | 195,673           |
| -18,38        | 385,980             | 178,843            | 207,137           | 385,297             | 178,849            | 206,448           |
| -19,38        | 406,867             | 188,843            | 218,023           | 406,046             | 188,849            | 217,197           |
| -20,38        | 427,738             | 198,843            | 228,895           | 426,768             | 198,849            | 227,919           |
| -21,38        | 448,595             | 208,843            | 239,752           | 447,466             | 208,849            | 238,617           |
| -22,38        | 469,436             | 218,843            | 250,593           | 468,140             | 218,849            | 249,291           |
| -22,78        | 477,769             | 222,843            | 254,926           | 476,403             | 222,849            | 253,554           |
| -24,47        | 512,831             | 239,686            | 273,144           | 511,161             | 239,692            | 271,469           |
| -26,47        | 554,412             | 259,686            | 294,726           | 552,370             | 259,692            | 292,677           |
| -28,47        | 595,942             | 279,686            | 316,256           | 593,533             | 279,692            | 313,841           |
| -28,97        | 606,317             | 284,686            | 321,631           | 603,821             | 284,692            | 319,128           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -28,97        | 606,318             | 284,686            | 321,631           | 603,821             | 284,692            | 319,129           |
| -30,06        | 627,400             | 295,643            | 331,756           | 624,719             | 295,649            | 329,070           |
| -31,06        | 646,629             | 305,643            | 340,986           | 643,795             | 305,649            | 338,145           |
| -32,16        | 667,688             | 316,600            | 351,088           | 664,701             | 316,606            | 348,095           |
| -33,16        | 686,898             | 326,600            | 360,298           | 683,790             | 326,606            | 357,184           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,16        | 686,898             | 326,600            | 360,298           | 683,790             | 326,606            | 357,184           |
| -34,09        | 705,306             | 335,943            | 369,362           | 702,102             | 335,949            | 366,153           |
| -35,03        | 723,706             | 345,286            | 378,420           | 720,424             | 345,292            | 375,132           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,03        | 723,707             | 345,286            | 378,420           | 720,425             | 345,292            | 375,132           |
| -36,51        | 754,439             | 360,143            | 394,296           | 751,071             | 360,149            | 390,922           |
| -38,51        | 795,789             | 380,143            | 415,646           | 792,379             | 380,148            | 412,231           |
| -39,51        | 816,456             | 390,143            | 426,313           | 813,056             | 390,148            | 422,908           |
| -44,00        | 909,113             | 435,000            | 474,113           | 905,992             | 435,003            | 470,989           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 909,114             | 435,000            | 474,113           | 905,992             | 435,003            | 470,989           |
| -46,50        | 960,729             | 460,000            | 500,729           | 957,899             | 460,003            | 497,897           |
| -49,00        | 1012,336            | 485,000            | 527,336           | 1009,868            | 485,003            | 524,865           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1012,336            | 485,000            | 527,336           | 1009,868            | 485,003            | 524,865           |
| -50,00        | 1030,977            | 495,000            | 535,977           | 1028,667            | 495,001            | 533,666           |
| -51,00        | 1049,617            | 505,000            | 544,617           | 1047,473            | 505,000            | 542,473           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1049,617            | 505,000            | 544,617           | 1047,473            | 505,000            | 542,473           |
| -52,00        | 1070,257            | 515,000            | 555,257           | 1068,285            | 515,000            | 553,285           |
| -53,00        | 1090,897            | 525,000            | 565,897           | 1089,102            | 525,000            | 564,102           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1090,897            | 525,000            | 565,897           | 1089,103            | 525,000            | 564,103           |
| -57,00        | 1173,461            | 565,000            | 608,461           | 1172,401            | 565,000            | 607,401           |
| -62,00        | 1276,688            | 615,000            | 661,688           | 1276,551            | 615,000            | 661,551           |
| -67,00        | 1379,954            | 665,000            | 714,954           | 1380,683            | 665,000            | 715,683           |
| -69,00        | 1421,274            | 685,000            | 736,274           | 1422,325            | 685,000            | 737,325           |
| -73,00        | 1503,939            | 725,000            | 778,939           | 1505,585            | 725,000            | 780,585           |
| -78,00        | 1607,323            | 775,000            | 832,323           | 1609,613            | 775,000            | 834,613           |
| -83,00        | 1710,768            | 825,000            | 885,768           | 1713,594            | 825,000            | 888,594           |
| -85,00        | 1752,163            | 845,000            | 907,163           | 1755,176            | 845,000            | 910,176           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -28,97     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -28,97     | -33,16     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,16     | -35,03     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,03     | -44,00     | 38             | 0,0002                      | 0,0000                         | 0,0003                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0003                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0005                      | 0,0000                         | 0,0006                     |                                                  |

### 3.6 Resultaat voor Verticaal 6 (X = 19,80 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,207             | 43,007             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,707             | 44,007             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,207             | 45,007             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,707             | 46,007             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,207             | 47,007             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,707             | 48,007             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,207             | 49,007             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,707             | 50,007             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,207             | 51,007             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,707             | 52,007             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,207             | 53,007             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,207             | 55,007             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,207             | 55,007             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,406             | 64,007             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,404             | 74,007             | 82,397            |
| -6,90         | 174,399             | 84,000             | 90,399            | 174,399             | 84,007             | 90,392            |
| -7,90         | 192,396             | 94,000             | 98,396            | 192,388             | 94,007             | 98,381            |
| -8,90         | 210,393             | 104,000            | 106,393           | 210,370             | 104,007            | 106,363           |
| -9,90         | 228,387             | 114,000            | 114,387           | 228,341             | 114,007            | 114,334           |
| -10,30        | 235,584             | 118,000            | 117,584           | 235,526             | 118,007            | 117,519           |
| -11,20        | 251,775             | 127,000            | 124,775           | 251,683             | 127,007            | 124,676           |
| -12,20        | 269,762             | 137,000            | 132,762           | 269,620             | 137,007            | 132,614           |
| -13,20        | 287,744             | 147,000            | 140,744           | 287,539             | 147,007            | 140,532           |
| -14,20        | 305,720             | 157,000            | 148,720           | 305,438             | 157,007            | 148,431           |
| -15,20        | 323,691             | 167,000            | 156,691           | 323,314             | 167,007            | 156,307           |
| -16,20        | 341,654             | 177,000            | 164,654           | 341,168             | 177,007            | 164,161           |
| -16,60        | 348,838             | 181,000            | 167,838           | 348,303             | 181,007            | 167,296           |
| Laag 41       |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,60        | 348,838             | 161,000            | 187,838           | 348,303             | 161,007            | 187,297           |
| -17,39        | 365,447             | 168,927            | 196,520           | 364,810             | 168,934            | 195,876           |
| -18,39        | 386,393             | 178,927            | 207,466           | 385,612             | 178,934            | 206,679           |
| -19,39        | 407,330             | 188,927            | 218,403           | 406,392             | 188,934            | 217,458           |
| -20,39        | 428,257             | 198,927            | 229,331           | 427,149             | 198,934            | 228,215           |
| -21,39        | 449,175             | 208,927            | 240,248           | 447,884             | 208,934            | 238,951           |
| -22,39        | 470,082             | 218,927            | 251,155           | 468,599             | 218,934            | 249,665           |
| -22,79        | 478,442             | 222,927            | 255,515           | 476,879             | 222,934            | 253,946           |
| -24,49        | 513,799             | 239,853            | 273,946           | 511,887             | 239,860            | 272,027           |
| -26,49        | 555,535             | 259,853            | 295,682           | 553,195             | 259,860            | 293,335           |
| -28,49        | 597,227             | 279,853            | 317,374           | 594,467             | 279,860            | 314,606           |
| -28,99        | 607,643             | 284,853            | 322,790           | 604,782             | 284,860            | 319,922           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -28,99        | 607,643             | 284,854            | 322,790           | 604,782             | 284,860            | 319,922           |
| -29,99        | 627,099             | 294,922            | 332,177           | 624,043             | 294,928            | 329,115           |
| -31,09        | 648,343             | 305,922            | 342,421           | 645,090             | 305,928            | 339,162           |
| -32,10        | 667,777             | 315,990            | 351,787           | 664,362             | 315,997            | 348,365           |
| -33,20        | 688,997             | 326,990            | 362,007           | 685,427             | 326,997            | 358,430           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,20        | 688,997             | 326,990            | 362,007           | 685,427             | 326,997            | 358,431           |
| -34,14        | 707,644             | 336,417            | 371,228           | 703,962             | 336,423            | 367,539           |
| -35,08        | 726,283             | 345,843            | 380,440           | 722,510             | 345,850            | 376,660           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,08        | 726,283             | 345,844            | 380,440           | 722,510             | 345,850            | 376,660           |
| -36,54        | 756,550             | 360,422            | 396,128           | 752,677             | 360,428            | 392,249           |
| -38,54        | 798,044             | 380,422            | 417,622           | 794,120             | 380,427            | 413,693           |
| -39,54        | 818,779             | 390,422            | 428,357           | 814,866             | 390,427            | 424,439           |
| -44,00        | 911,129             | 435,000            | 476,129           | 907,532             | 435,003            | 472,529           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 911,129             | 435,000            | 476,129           | 907,533             | 435,003            | 472,529           |
| -46,50        | 962,870             | 460,000            | 502,870           | 959,611             | 460,003            | 499,608           |
| -49,00        | 1014,582            | 485,000            | 529,582           | 1011,746            | 485,003            | 526,742           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1014,582            | 485,000            | 529,582           | 1011,746            | 485,003            | 526,743           |
| -50,00        | 1033,260            | 495,000            | 538,260           | 1030,609            | 495,002            | 535,608           |
| -51,00        | 1051,935            | 505,000            | 546,935           | 1049,477            | 505,000            | 544,477           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1051,935            | 505,000            | 546,935           | 1049,478            | 505,000            | 544,477           |
| -52,00        | 1072,606            | 515,000            | 557,606           | 1070,351            | 515,000            | 555,351           |
| -53,00        | 1093,276            | 525,000            | 568,276           | 1091,227            | 525,000            | 566,227           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1093,276            | 525,000            | 568,276           | 1091,227            | 525,000            | 566,227           |
| -57,00        | 1175,931            | 565,000            | 610,931           | 1174,742            | 565,000            | 609,742           |
| -62,00        | 1279,222            | 615,000            | 664,222           | 1279,110            | 615,000            | 664,110           |
| -67,00        | 1382,507            | 665,000            | 717,507           | 1383,399            | 665,000            | 718,399           |
| -69,00        | 1423,824            | 685,000            | 738,824           | 1425,087            | 685,000            | 740,087           |
| -73,00        | 1506,471            | 725,000            | 781,471           | 1508,414            | 725,000            | 783,414           |
| -78,00        | 1609,809            | 775,000            | 834,809           | 1612,482            | 775,000            | 837,482           |
| -83,00        | 1713,192            | 825,000            | 888,192           | 1716,464            | 825,000            | 891,464           |
| -85,00        | 1754,559            | 845,000            | 909,559           | 1758,037            | 845,000            | 913,037           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 36             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 35             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |

| Laag nummer | Zwel    |           | Zetting b. Sp |                      | Zetting a. Sp |                      |
|-------------|---------|-----------|---------------|----------------------|---------------|----------------------|
|             | Primair | Secundair | Primair       | Secundair 10 [dagen] | Primair       | Secundair 10 [dagen] |
|             | [m]     | [m]       | [m]           | [m]                  | [m]           | [m]                  |
| 1           | 0,0000  | 0,0000    | 0,0000        | 0,0000               | 0,0000        | 0,0000               |
| Totaal      | 0,0000  | 0,0000    | 0,0005        | 0,0000               | 0,0000        | 0,0000               |

| Diepte |        | Laag nummer | Totale zetting (100% cons.) |                      |                  | Percentage van originele laaghoogte [%] |
|--------|--------|-------------|-----------------------------|----------------------|------------------|-----------------------------------------|
| Van    | Tot    |             | Primair                     | Secundair 10 [dagen] | Na 10000 [dagen] |                                         |
| [m]    | [m]    |             | [m]                         | [m]                  | [m]              |                                         |
| -2,80  | -4,00  | 43          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -4,00  | -16,60 | 42          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -16,60 | -28,99 | 41          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -28,99 | -33,20 | 40          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -33,20 | -35,08 | 39          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -35,08 | -44,00 | 38          | 0,0002                      | 0,0000               | 0,0003           | 0,00                                    |
| -44,00 | -49,00 | 37          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -49,00 | -51,00 | 36          | 0,0002                      | 0,0000               | 0,0003           | 0,02                                    |
| -51,00 | -53,00 | 35          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -53,00 | -85,00 | 1           | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| Totaal |        |             | 0,0005                      | 0,0000               | 0,0007           |                                         |

### 3.7 Resultaat voor Verticaal 7 (X = 27,60 m; Z = -61,49 m)

| Diepte  | Initiële spanning |         |         | Eindspanning |         |         |
|---------|-------------------|---------|---------|--------------|---------|---------|
|         | S-totaal          | S-water | S-eff.  | S-totaal     | S-water | S-eff.  |
| [m]     | [kN/m²]           | [kN/m²] | [kN/m²] | [kN/m²]      | [kN/m²] | [kN/m²] |
| Laag 43 |                   |         |         |              |         |         |
| -2,80   | 104,200           | 43,000  | 61,200  | 104,207      | 43,007  | 61,200  |
| -2,90   | 105,700           | 44,000  | 61,700  | 105,707      | 44,007  | 61,700  |
| -3,00   | 107,200           | 45,000  | 62,200  | 107,207      | 45,007  | 62,200  |
| -3,10   | 108,700           | 46,000  | 62,700  | 108,707      | 46,007  | 62,700  |
| -3,20   | 110,200           | 47,000  | 63,200  | 110,207      | 47,007  | 63,200  |
| -3,30   | 111,700           | 48,000  | 63,700  | 111,707      | 48,007  | 63,700  |
| -3,40   | 113,200           | 49,000  | 64,200  | 113,207      | 49,007  | 64,200  |
| -3,50   | 114,700           | 50,000  | 64,700  | 114,707      | 50,007  | 64,700  |
| -3,60   | 116,200           | 51,000  | 65,200  | 116,207      | 51,007  | 65,200  |
| -3,70   | 117,700           | 52,000  | 65,700  | 117,707      | 52,007  | 65,700  |
| -3,80   | 119,200           | 53,000  | 66,200  | 119,207      | 53,007  | 66,200  |
| -4,00   | 122,200           | 55,000  | 67,200  | 122,207      | 55,007  | 67,200  |
| Laag 42 |                   |         |         |              |         |         |
| -4,00   | 122,200           | 55,000  | 67,200  | 122,207      | 55,007  | 67,200  |
| -4,90   | 138,400           | 64,000  | 74,400  | 138,407      | 64,007  | 74,399  |
| -5,90   | 156,400           | 74,000  | 82,400  | 156,405      | 74,007  | 82,397  |
| -6,90   | 174,399           | 84,000  | 90,399  | 174,399      | 84,007  | 90,392  |
| -7,90   | 192,398           | 94,000  | 98,398  | 192,389      | 94,007  | 98,382  |
| -8,90   | 210,396           | 104,000 | 106,396 | 210,371      | 104,007 | 106,364 |
| -9,90   | 228,393           | 114,000 | 114,393 | 228,343      | 114,007 | 114,336 |
| -10,30  | 235,591           | 118,000 | 117,591 | 235,529      | 118,007 | 117,521 |
| -11,20  | 251,786           | 127,000 | 124,786 | 251,688      | 127,007 | 124,680 |
| -12,20  | 269,778           | 137,000 | 132,778 | 269,627      | 137,007 | 132,620 |
| -13,20  | 287,767           | 147,000 | 140,767 | 287,549      | 147,007 | 140,542 |
| -14,20  | 305,753           | 157,000 | 148,753 | 305,451      | 157,007 | 148,444 |
| -15,20  | 323,735           | 167,000 | 156,735 | 323,333      | 167,007 | 156,326 |
| -16,20  | 341,713           | 177,000 | 164,713 | 341,193      | 177,007 | 164,186 |
| -16,60  | 348,903           | 181,000 | 167,903 | 348,331      | 181,007 | 167,324 |
| Laag 41 |                   |         |         |              |         |         |
| -16,60  | 348,903           | 161,000 | 187,903 | 348,331      | 161,007 | 187,324 |
| -18,00  | 378,282           | 175,010 | 203,272 | 377,507      | 175,018 | 202,490 |
| -19,00  | 399,245           | 185,010 | 214,234 | 398,306      | 185,018 | 213,289 |
| -20,00  | 420,201           | 195,010 | 225,191 | 419,084      | 195,018 | 224,066 |
| -21,00  | 441,151           | 205,010 | 236,140 | 439,841      | 205,018 | 234,823 |
| -22,00  | 462,093           | 215,010 | 247,083 | 460,579      | 215,018 | 245,561 |
| -22,80  | 478,841           | 223,010 | 255,831 | 477,156      | 223,018 | 254,138 |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -24,20        | 508,160             | 237,021            | 271,140           | 506,162             | 237,028            | 269,134           |
| -26,20        | 549,985             | 257,021            | 292,964           | 547,521             | 257,028            | 290,493           |
| -28,20        | 591,775             | 277,021            | 314,754           | 588,846             | 277,028            | 311,818           |
| -29,00        | 608,480             | 285,021            | 323,459           | 605,373             | 285,028            | 320,345           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,00        | 608,480             | 285,021            | 323,459           | 605,373             | 285,028            | 320,345           |
| -30,02        | 628,202             | 295,200            | 333,001           | 624,877             | 295,208            | 329,669           |
| -31,12        | 649,502             | 306,200            | 343,301           | 645,959             | 306,207            | 339,751           |
| -32,14        | 669,203             | 316,380            | 352,823           | 665,477             | 316,387            | 349,090           |
| -33,24        | 690,482             | 327,380            | 363,102           | 686,581             | 327,387            | 359,194           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,24        | 690,482             | 327,380            | 363,102           | 686,581             | 327,387            | 359,194           |
| -34,19        | 709,346             | 336,890            | 372,455           | 705,317             | 336,897            | 368,419           |
| -35,14        | 728,201             | 346,401            | 381,800           | 724,066             | 346,408            | 377,659           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,14        | 728,201             | 346,401            | 381,800           | 724,066             | 346,408            | 377,659           |
| -36,57        | 757,966             | 360,700            | 397,266           | 753,717             | 360,707            | 393,010           |
| -38,57        | 799,568             | 380,700            | 418,867           | 795,249             | 380,706            | 414,543           |
| -39,57        | 820,356             | 390,700            | 429,655           | 816,043             | 390,706            | 425,337           |
| -44,00        | 912,353             | 435,000            | 477,353           | 908,361             | 435,004            | 473,358           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 912,353             | 435,000            | 477,353           | 908,361             | 435,004            | 473,358           |
| -46,50        | 964,209             | 460,000            | 504,209           | 960,581             | 460,003            | 500,578           |
| -49,00        | 1016,028            | 485,000            | 531,028           | 1012,860            | 485,003            | 527,857           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1016,028            | 485,000            | 531,028           | 1012,861            | 485,003            | 527,857           |
| -50,00        | 1034,746            | 495,000            | 539,746           | 1031,782            | 495,002            | 536,780           |
| -51,00        | 1053,459            | 505,000            | 548,459           | 1050,709            | 505,000            | 545,708           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1053,459            | 505,000            | 548,459           | 1050,709            | 505,000            | 545,709           |
| -52,00        | 1074,167            | 515,000            | 559,167           | 1071,640            | 515,000            | 556,640           |
| -53,00        | 1094,871            | 525,000            | 569,871           | 1092,573            | 525,000            | 567,573           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1094,871            | 525,000            | 569,871           | 1092,573            | 525,000            | 567,573           |
| -57,00        | 1177,648            | 565,000            | 612,648           | 1176,308            | 565,000            | 611,308           |
| -62,00        | 1281,054            | 615,000            | 666,054           | 1280,919            | 615,000            | 665,919           |
| -67,00        | 1384,416            | 665,000            | 719,416           | 1385,407            | 665,000            | 720,407           |
| -69,00        | 1425,755            | 685,000            | 740,755           | 1427,160            | 685,000            | 742,160           |
| -73,00        | 1508,429            | 725,000            | 783,429           | 1510,596            | 725,000            | 785,596           |
| -78,00        | 1611,781            | 775,000            | 836,781           | 1614,760            | 775,000            | 839,760           |
| -83,00        | 1715,155            | 825,000            | 890,155           | 1718,797            | 825,000            | 893,797           |
| -85,00        | 1756,514            | 845,000            | 911,514           | 1760,382            | 845,000            | 915,382           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 36             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 35             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 1              | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| Totaal         | 0,0000  | 0,0000    | 0,0006        | 0,0000                  | 0,0000        | 0,0000                  |

| Diepte |       | Laag<br>nummer | Totale zetting (100% cons.) |                         |                     | Percentage<br>van originele<br>laaghoogte<br>[%] |
|--------|-------|----------------|-----------------------------|-------------------------|---------------------|--------------------------------------------------|
| Van    | Tot   |                | Primair                     | Secundair<br>10 [dagen] | Na<br>10000 [dagen] |                                                  |
| [m]    | [m]   |                | [m]                         | [m]                     | [m]                 |                                                  |
| -2,80  | -4,00 | 43             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -4,00   | -16,60  | 42          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -16,60  | -29,00  | 41          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -29,00  | -33,24  | 40          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -33,24  | -35,14  | 39          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -35,14  | -44,00  | 38          | 0,0003                      | 0,0000                   | 0,0003               | 0,00                                    |
| -44,00  | -49,00  | 37          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -49,00  | -51,00  | 36          | 0,0003                      | 0,0000                   | 0,0003               | 0,02                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0006                      | 0,0000                   | 0,0007               |                                         |

### 3.8 Resultaat voor Verticaal 8 (X = 35,40 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,208          | 43,008          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,708          | 44,008          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,208          | 45,008          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,708          | 46,008          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,208          | 47,008          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,708          | 48,008          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,208          | 49,008          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,708          | 50,008          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,208          | 51,008          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,708          | 52,008          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,208          | 53,008          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,008          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,008          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,407          | 64,008          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,405          | 74,008          | 82,397         |
| -6,90      | 174,399           | 84,000          | 90,399         | 174,400          | 84,008          | 90,392         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,390          | 94,008          | 98,382         |
| -8,90      | 210,397           | 104,000         | 106,397        | 210,372          | 104,008         | 106,364        |
| -9,90      | 228,395           | 114,000         | 114,395        | 228,344          | 114,008         | 114,337        |
| -10,30     | 235,594           | 118,000         | 117,594        | 235,530          | 118,008         | 117,522        |
| -11,20     | 251,790           | 127,000         | 124,790        | 251,689          | 127,008         | 124,682        |
| -12,20     | 269,785           | 137,000         | 132,785        | 269,630          | 137,008         | 132,622        |
| -13,20     | 287,777           | 147,000         | 140,777        | 287,552          | 147,008         | 140,545        |
| -14,20     | 305,768           | 157,000         | 148,768        | 305,456          | 157,008         | 148,448        |
| -15,20     | 323,755           | 167,000         | 156,755        | 323,339          | 167,008         | 156,332        |
| -16,20     | 341,740           | 177,000         | 164,740        | 341,202          | 177,008         | 164,194        |
| -16,60     | 348,933           | 181,000         | 167,933        | 348,341          | 181,008         | 167,333        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,933           | 161,000         | 187,933        | 348,341          | 161,008         | 187,333        |
| -18,01     | 378,500           | 175,094         | 203,406        | 377,695          | 175,102         | 202,594        |
| -19,01     | 399,473           | 185,094         | 214,379        | 398,498          | 185,102         | 213,396        |
| -20,01     | 420,442           | 195,094         | 225,348        | 419,280          | 195,102         | 224,178        |
| -21,01     | 441,406           | 205,094         | 236,312        | 440,042          | 205,102         | 234,941        |
| -22,01     | 462,364           | 215,094         | 247,270        | 460,786          | 215,102         | 245,685        |
| -22,81     | 479,126           | 223,094         | 256,032        | 477,369          | 223,102         | 254,267        |
| -24,22     | 508,648           | 237,188         | 271,460        | 506,559          | 237,196         | 269,363        |
| -26,22     | 550,517           | 257,188         | 293,329        | 547,937          | 257,196         | 290,742        |
| -28,22     | 592,358           | 277,188         | 315,170        | 589,287          | 277,196         | 312,091        |
| -29,02     | 609,086           | 285,188         | 323,898        | 605,825          | 285,196         | 320,629        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,02     | 609,086           | 285,188         | 323,898        | 605,825          | 285,196         | 320,629        |
| -30,05     | 629,053           | 295,479         | 333,574        | 625,558          | 295,487         | 330,072        |
| -31,15     | 650,387           | 306,479         | 343,908        | 646,659          | 306,487         | 340,172        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -32,18        | 670,337             | 316,770            | 353,567           | 666,410             | 316,777            | 349,633           |
| -33,28        | 691,652             | 327,770            | 363,882           | 687,538             | 327,777            | 359,761           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,28        | 691,652             | 327,770            | 363,882           | 687,538             | 327,777            | 359,761           |
| -34,24        | 710,714             | 337,364            | 373,350           | 706,461             | 337,371            | 369,089           |
| -35,20        | 729,769             | 346,958            | 382,811           | 725,400             | 346,965            | 378,434           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,20        | 729,769             | 346,958            | 382,811           | 725,400             | 346,965            | 378,434           |
| -36,60        | 759,004             | 360,979            | 398,025           | 754,511             | 360,986            | 393,525           |
| -38,60        | 800,679             | 380,979            | 419,700           | 796,105             | 380,985            | 415,119           |
| -39,60        | 821,504             | 390,979            | 430,525           | 816,932             | 390,985            | 425,947           |
| -44,00        | 913,088             | 435,000            | 478,088           | 908,835             | 435,004            | 473,832           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,088             | 435,000            | 478,088           | 908,836             | 435,004            | 473,832           |
| -46,50        | 965,037             | 460,000            | 505,037           | 961,161             | 460,004            | 501,158           |
| -49,00        | 1016,945            | 485,000            | 531,945           | 1013,552            | 485,004            | 528,549           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1016,945            | 485,000            | 531,945           | 1013,552            | 485,004            | 528,549           |
| -50,00        | 1035,697            | 495,000            | 540,697           | 1032,520            | 495,002            | 537,518           |
| -51,00        | 1054,444            | 505,000            | 549,444           | 1051,492            | 505,000            | 546,492           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1054,444            | 505,000            | 549,444           | 1051,492            | 505,000            | 546,492           |
| -52,00        | 1075,185            | 515,000            | 560,185           | 1072,470            | 515,000            | 557,470           |
| -53,00        | 1095,921            | 525,000            | 570,921           | 1093,450            | 525,000            | 568,450           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1095,921            | 525,000            | 570,921           | 1093,450            | 525,000            | 568,450           |
| -57,00        | 1178,816            | 565,000            | 613,816           | 1177,368            | 565,000            | 612,368           |
| -62,00        | 1282,347            | 615,000            | 667,347           | 1282,194            | 615,000            | 667,194           |
| -67,00        | 1385,808            | 665,000            | 720,808           | 1386,870            | 665,000            | 721,870           |
| -69,00        | 1427,179            | 685,000            | 742,179           | 1428,691            | 685,000            | 743,691           |
| -73,00        | 1509,907            | 725,000            | 784,907           | 1512,243            | 725,000            | 787,243           |
| -78,00        | 1613,304            | 775,000            | 838,304           | 1616,522            | 775,000            | 841,522           |
| -83,00        | 1716,705            | 825,000            | 891,705           | 1720,643            | 825,000            | 895,643           |
| -85,00        | 1758,069            | 845,000            | 913,069           | 1762,254            | 845,000            | 917,254           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 36             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 35             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 1              | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| Totaal         | 0,0000  | 0,0000    | 0,0006        | 0,0000                  | 0,0000        | 0,0000                  |

| Diepte |        | Laag<br>nummer | Totale zetting (100% cons.) |                         |                     | Percentage<br>van originele<br>laaghoogte<br>[%] |
|--------|--------|----------------|-----------------------------|-------------------------|---------------------|--------------------------------------------------|
| Van    | Tot    |                | Primair                     | Secundair<br>10 [dagen] | Na<br>10000 [dagen] |                                                  |
| [m]    | [m]    |                | [m]                         | [m]                     | [m]                 |                                                  |
| -2,80  | -4,00  | 43             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -4,00  | -16,60 | 42             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -16,60 | -29,02 | 41             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -29,02 | -33,28 | 40             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -33,28 | -35,20 | 39             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -35,20 | -44,00 | 38             | 0,0003                      | 0,0000                  | 0,0004              | 0,00                                             |
| -44,00 | -49,00 | 37             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -49,00 | -51,00 | 36             | 0,0003                      | 0,0000                  | 0,0003              | 0,02                                             |
| -51,00 | -53,00 | 35             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0006                      | 0,0000                   | 0,0008               |                                         |

### 3.9 Resultaat voor Verticaal 9 (X = 43,20 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,208          | 43,008          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,708          | 44,008          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,208          | 45,008          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,708          | 46,008          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,208          | 47,008          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,708          | 48,008          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,208          | 49,008          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,708          | 50,008          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,208          | 51,008          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,708          | 52,008          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,208          | 53,008          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,008          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,008          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,407          | 64,008          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,405          | 74,008          | 82,397         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,400          | 84,008          | 90,392         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,390          | 94,008          | 98,382         |
| -8,90      | 210,398           | 104,000         | 106,398        | 210,373          | 104,008         | 106,365        |
| -9,90      | 228,396           | 114,000         | 114,396        | 228,345          | 114,008         | 114,337        |
| -10,30     | 235,595           | 118,000         | 117,595        | 235,531          | 118,008         | 117,523        |
| -11,20     | 251,792           | 127,000         | 124,792        | 251,690          | 127,008         | 124,682        |
| -12,20     | 269,788           | 137,000         | 132,788        | 269,631          | 137,008         | 132,623        |
| -13,20     | 287,783           | 147,000         | 140,783        | 287,554          | 147,008         | 140,546        |
| -14,20     | 305,775           | 157,000         | 148,775        | 305,458          | 157,008         | 148,450        |
| -15,20     | 323,765           | 167,000         | 156,765        | 323,342          | 167,008         | 156,334        |
| -16,20     | 341,753           | 177,000         | 164,753        | 341,205          | 177,008         | 164,197        |
| -16,60     | 348,948           | 181,000         | 167,948        | 348,345          | 181,008         | 167,337        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,948           | 161,000         | 187,948        | 348,345          | 161,008         | 187,337        |
| -18,02     | 378,697           | 175,178         | 203,519        | 377,876          | 175,186         | 202,690        |
| -19,02     | 399,676           | 185,178         | 214,499        | 398,680          | 185,186         | 213,494        |
| -20,02     | 420,652           | 195,178         | 225,474        | 419,464          | 195,186         | 224,278        |
| -21,02     | 441,623           | 205,178         | 236,445        | 440,228          | 205,186         | 235,043        |
| -22,02     | 462,590           | 215,178         | 247,412        | 460,975          | 215,186         | 245,789        |
| -22,82     | 479,360           | 223,178         | 256,182        | 477,560          | 223,186         | 254,374        |
| -24,24     | 509,071           | 237,355         | 271,716        | 506,928          | 237,363         | 269,565        |
| -26,24     | 550,966           | 257,355         | 293,611        | 548,316          | 257,363         | 290,953        |
| -28,24     | 592,836           | 277,355         | 315,481        | 589,678          | 277,363         | 312,315        |
| -29,04     | 609,578           | 285,355         | 324,222        | 606,223          | 285,363         | 320,860        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,04     | 609,578           | 285,355         | 324,222        | 606,223          | 285,363         | 320,860        |
| -30,08     | 629,779           | 295,758         | 334,021        | 626,180          | 295,766         | 330,414        |
| -31,18     | 651,133           | 306,758         | 344,375        | 647,292          | 306,766         | 340,527        |
| -32,22     | 671,319           | 317,160         | 354,159        | 667,271          | 317,168         | 350,103        |
| -33,32     | 692,657           | 328,160         | 364,497        | 688,416          | 328,168         | 360,248        |
| Laag 39    |                   |                 |                |                  |                 |                |
| -33,32     | 692,657           | 328,160         | 364,497        | 688,416          | 328,168         | 360,248        |
| -34,28     | 711,905           | 337,838         | 374,068        | 707,520          | 337,845         | 369,674        |
| -35,25     | 731,148           | 347,515         | 383,632        | 726,642          | 347,523         | 379,119        |
| Laag 38    |                   |                 |                |                  |                 |                |
| -35,25     | 731,148           | 347,515         | 383,632        | 726,642          | 347,523         | 379,119        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -36,63        | 759,834             | 361,258            | 398,576           | 755,203             | 361,265            | 393,938           |
| -38,63        | 801,557             | 381,258            | 420,300           | 796,843             | 381,264            | 415,579           |
| -39,63        | 822,408             | 391,258            | 431,150           | 817,696             | 391,264            | 426,432           |
| -44,00        | 913,528             | 435,000            | 478,528           | 909,143             | 435,004            | 474,139           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,528             | 435,000            | 478,528           | 909,143             | 435,004            | 474,139           |
| -46,50        | 965,545             | 460,000            | 505,545           | 961,548             | 460,004            | 501,544           |
| -49,00        | 1017,521            | 485,000            | 532,521           | 1014,022            | 485,004            | 529,018           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1017,521            | 485,000            | 532,521           | 1014,022            | 485,004            | 529,018           |
| -50,00        | 1036,300            | 495,000            | 541,300           | 1033,023            | 495,002            | 538,021           |
| -51,00        | 1055,074            | 505,000            | 550,074           | 1052,030            | 505,000            | 547,030           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,074            | 505,000            | 550,074           | 1052,030            | 505,000            | 547,030           |
| -52,00        | 1075,841            | 515,000            | 560,841           | 1073,042            | 515,000            | 558,042           |
| -53,00        | 1096,603            | 525,000            | 571,603           | 1094,057            | 525,000            | 569,057           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1096,604            | 525,000            | 571,604           | 1094,057            | 525,000            | 569,057           |
| -57,00        | 1179,600            | 565,000            | 614,600           | 1178,114            | 565,000            | 613,114           |
| -62,00        | 1283,245            | 615,000            | 668,245           | 1283,107            | 615,000            | 668,107           |
| -67,00        | 1386,805            | 665,000            | 721,805           | 1387,938            | 665,000            | 722,938           |
| -69,00        | 1428,211            | 685,000            | 743,211           | 1429,815            | 685,000            | 744,815           |
| -73,00        | 1511,000            | 725,000            | 786,000           | 1513,472            | 725,000            | 788,472           |
| -78,00        | 1614,459            | 775,000            | 839,459           | 1617,863            | 775,000            | 842,863           |
| -83,00        | 1717,904            | 825,000            | 892,904           | 1722,074            | 825,000            | 897,074           |
| -85,00        | 1759,283            | 845,000            | 914,283           | 1763,714            | 845,000            | 918,714           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,04     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,04     | -33,32     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,32     | -35,25     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,25     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0006                      | 0,0000                         | 0,0008                     |                                                  |

### 3.10 Resultaat voor Verticaal 10 (X = 47,10 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,208             | 43,008             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,708             | 44,008             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,208             | 45,008             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,708             | 46,008             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,208             | 47,008             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,708             | 48,008             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,208             | 49,008             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,708             | 50,008             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,208             | 51,008             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,708             | 52,008             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,208             | 53,008             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,008             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,008             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,008             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,390             | 94,008             | 98,382            |
| -8,90         | 210,398             | 104,000            | 106,398           | 210,373             | 104,008            | 106,365           |
| -9,90         | 228,396             | 114,000            | 114,396           | 228,345             | 114,008            | 114,337           |
| -10,30        | 235,596             | 118,000            | 117,596           | 235,531             | 118,008            | 117,523           |
| -11,20        | 251,793             | 127,000            | 124,793           | 251,691             | 127,008            | 124,682           |
| -12,20        | 269,789             | 137,000            | 132,789           | 269,631             | 137,008            | 132,623           |
| -13,20        | 287,784             | 147,000            | 140,784           | 287,554             | 147,008            | 140,546           |
| -14,20        | 305,777             | 157,000            | 148,777           | 305,459             | 157,008            | 148,451           |
| -15,20        | 323,769             | 167,000            | 156,769           | 323,343             | 167,008            | 156,335           |
| -16,20        | 341,758             | 177,000            | 164,758           | 341,207             | 177,008            | 164,198           |
| -16,60        | 348,952             | 181,000            | 167,952           | 348,346             | 181,008            | 167,338           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,953             | 161,000            | 187,953           | 348,346             | 161,008            | 187,338           |
| -18,02        | 378,792             | 175,219            | 203,572           | 377,965             | 175,228            | 202,737           |
| -19,02        | 399,772             | 185,219            | 214,553           | 398,769             | 185,228            | 213,541           |
| -20,02        | 420,750             | 195,219            | 225,530           | 419,553             | 195,228            | 224,326           |
| -21,02        | 441,724             | 205,219            | 236,504           | 440,319             | 205,228            | 235,091           |
| -22,02        | 462,693             | 215,219            | 247,474           | 461,066             | 215,228            | 245,838           |
| -22,82        | 479,466             | 223,219            | 256,246           | 477,652             | 223,228            | 254,424           |
| -24,24        | 509,270             | 237,439            | 271,831           | 507,108             | 237,447            | 269,661           |
| -26,24        | 551,173             | 257,439            | 293,734           | 548,499             | 257,447            | 291,052           |
| -28,24        | 593,053             | 277,439            | 315,614           | 589,865             | 277,447            | 312,418           |
| -29,04        | 609,799             | 285,439            | 324,360           | 606,412             | 285,447            | 320,965           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,04        | 609,799             | 285,439            | 324,360           | 606,412             | 285,447            | 320,965           |
| -30,09        | 630,115             | 295,897            | 334,218           | 626,479             | 295,905            | 330,574           |
| -31,19        | 651,476             | 306,897            | 344,579           | 647,597             | 306,905            | 340,691           |
| -32,24        | 671,777             | 317,355            | 354,422           | 667,688             | 317,363            | 350,325           |
| -33,34        | 693,122             | 328,355            | 364,767           | 688,838             | 328,363            | 360,475           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,34        | 693,122             | 328,355            | 364,767           | 688,839             | 328,363            | 360,476           |
| -34,31        | 712,461             | 338,074            | 374,387           | 708,031             | 338,082            | 369,949           |
| -35,28        | 731,794             | 347,794            | 384,000           | 727,244             | 347,802            | 379,442           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,28        | 731,794             | 347,794            | 384,000           | 727,244             | 347,802            | 379,442           |
| -36,64        | 760,201             | 361,397            | 398,804           | 755,527             | 361,405            | 394,123           |
| -38,64        | 801,942             | 381,397            | 420,545           | 797,187             | 381,404            | 415,783           |
| -39,64        | 822,802             | 391,397            | 431,405           | 818,050             | 391,404            | 426,646           |
| -44,00        | 913,675             | 435,000            | 478,675           | 909,257             | 435,004            | 474,253           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,675             | 435,000            | 478,675           | 909,257             | 435,004            | 474,253           |
| -46,50        | 965,719             | 460,000            | 505,719           | 961,694             | 460,004            | 501,690           |
| -49,00        | 1017,722            | 485,000            | 532,722           | 1014,201            | 485,004            | 529,197           |
| Laag 36       |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -49,00        | 1017,722            | 485,000            | 532,722           | 1014,201            | 485,004            | 529,198           |
| -50,00        | 1036,512            | 495,000            | 541,512           | 1033,216            | 495,002            | 538,214           |
| -51,00        | 1055,297            | 505,000            | 550,297           | 1052,236            | 505,000            | 547,236           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,297            | 505,000            | 550,297           | 1052,236            | 505,000            | 547,236           |
| -52,00        | 1076,075            | 515,000            | 561,075           | 1073,262            | 515,000            | 558,262           |
| -53,00        | 1096,848            | 525,000            | 571,848           | 1094,290            | 525,000            | 569,290           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1096,848            | 525,000            | 571,848           | 1094,291            | 525,000            | 569,290           |
| -57,00        | 1179,887            | 565,000            | 614,887           | 1178,402            | 565,000            | 613,402           |
| -62,00        | 1283,583            | 615,000            | 668,583           | 1283,461            | 615,000            | 668,461           |
| -67,00        | 1387,189            | 665,000            | 722,189           | 1388,355            | 665,000            | 723,355           |
| -69,00        | 1428,611            | 685,000            | 743,611           | 1430,256            | 685,000            | 745,256           |
| -73,00        | 1511,431            | 725,000            | 786,431           | 1513,958            | 725,000            | 788,958           |
| -78,00        | 1614,922            | 775,000            | 839,922           | 1618,399            | 775,000            | 843,399           |
| -83,00        | 1718,393            | 825,000            | 893,393           | 1722,654            | 825,000            | 897,654           |
| -85,00        | 1759,780            | 845,000            | 914,780           | 1764,311            | 845,000            | 919,311           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,04     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,04     | -33,34     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,34     | -35,28     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,28     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0006                      | 0,0000                         | 0,0008                     |                                                  |

### 3.11 Resultaat voor Verticaal 11 (X = 51,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,209             | 43,008             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,708             | 44,008             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,208             | 45,008             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,708             | 46,008             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,208             | 47,008             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,708             | 48,008             | 63,700            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,208             | 49,008             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,708             | 50,008             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,208             | 51,008             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,708             | 52,008             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,208             | 53,008             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,008             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,008             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,008             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,008             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,008             | 98,382            |
| -8,90         | 210,398             | 104,000            | 106,398           | 210,373             | 104,008            | 106,365           |
| -9,90         | 228,397             | 114,000            | 114,397           | 228,346             | 114,008            | 114,337           |
| -10,30        | 235,596             | 118,000            | 117,596           | 235,531             | 118,008            | 117,523           |
| -11,20        | 251,794             | 127,000            | 124,794           | 251,691             | 127,008            | 124,683           |
| -12,20        | 269,790             | 137,000            | 132,790           | 269,632             | 137,008            | 132,623           |
| -13,20        | 287,785             | 147,000            | 140,785           | 287,555             | 147,008            | 140,547           |
| -14,20        | 305,779             | 157,000            | 148,779           | 305,459             | 157,008            | 148,451           |
| -15,20        | 323,771             | 167,000            | 156,771           | 323,344             | 167,008            | 156,335           |
| -16,20        | 341,761             | 177,000            | 164,761           | 341,208             | 177,008            | 164,199           |
| -16,60        | 348,956             | 181,000            | 167,956           | 348,347             | 181,008            | 167,339           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,956             | 161,000            | 187,956           | 348,347             | 161,008            | 187,339           |
| -18,03        | 378,884             | 175,261            | 203,623           | 378,053             | 175,270            | 202,783           |
| -19,03        | 399,867             | 185,261            | 214,605           | 398,858             | 185,270            | 213,588           |
| -20,03        | 420,846             | 195,261            | 225,584           | 419,642             | 195,270            | 224,373           |
| -21,03        | 441,821             | 205,261            | 236,560           | 440,408             | 205,270            | 235,138           |
| -22,03        | 462,793             | 215,261            | 247,531           | 461,156             | 215,270            | 245,886           |
| -22,83        | 479,567             | 223,261            | 256,306           | 477,742             | 223,270            | 254,473           |
| -24,25        | 509,463             | 237,523            | 271,940           | 507,286             | 237,531            | 269,755           |
| -26,25        | 551,372             | 257,523            | 293,850           | 548,679             | 257,531            | 291,148           |
| -28,25        | 593,260             | 277,523            | 315,738           | 590,049             | 277,531            | 312,518           |
| -29,05        | 610,009             | 285,523            | 324,487           | 606,597             | 285,531            | 321,066           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,05        | 610,010             | 285,523            | 324,487           | 606,597             | 285,531            | 321,066           |
| -30,10        | 630,438             | 296,036            | 334,402           | 626,774             | 296,045            | 330,729           |
| -31,20        | 651,805             | 307,036            | 344,768           | 647,895             | 307,045            | 340,850           |
| -32,26        | 672,220             | 317,550            | 354,670           | 668,097             | 317,558            | 350,539           |
| -33,35        | 693,571             | 328,550            | 365,021           | 689,253             | 328,558            | 360,695           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,36        | 693,571             | 328,550            | 365,021           | 689,254             | 328,558            | 360,695           |
| -34,33        | 713,000             | 338,311            | 374,688           | 708,535             | 338,319            | 370,215           |
| -35,31        | 732,422             | 348,073            | 384,349           | 727,836             | 348,081            | 379,756           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,31        | 732,422             | 348,073            | 384,349           | 727,836             | 348,081            | 379,756           |
| -36,85        | 764,723             | 363,536            | 401,187           | 760,003             | 363,544            | 396,459           |
| -38,85        | 806,476             | 383,536            | 422,940           | 801,689             | 383,543            | 418,145           |
| -39,65        | 823,169             | 391,536            | 431,633           | 818,388             | 391,543            | 426,845           |
| -44,00        | 913,788             | 435,000            | 478,788           | 909,348             | 435,004            | 474,344           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,788             | 435,000            | 478,788           | 909,348             | 435,004            | 474,344           |
| -46,50        | 965,854             | 460,000            | 505,854           | 961,813             | 460,004            | 501,809           |
| -49,00        | 1017,880            | 485,000            | 532,880           | 1014,349            | 485,004            | 529,345           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1017,880            | 485,000            | 532,880           | 1014,349            | 485,004            | 529,345           |
| -50,00        | 1036,680            | 495,000            | 541,680           | 1033,375            | 495,002            | 538,373           |
| -51,00        | 1055,474            | 505,000            | 550,474           | 1052,407            | 505,000            | 547,407           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,474            | 505,000            | 550,474           | 1052,407            | 505,000            | 547,407           |
| -52,00        | 1076,262            | 515,000            | 561,262           | 1073,444            | 515,000            | 558,444           |
| -53,00        | 1097,044            | 525,000            | 572,044           | 1094,484            | 525,000            | 569,484           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,044            | 525,000            | 572,044           | 1094,484            | 525,000            | 569,484           |

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| -57,00        | 1180,121                         | 565,000                         | 615,121                        | 1178,641                         | 565,000                         | 613,641                        |
| -62,00        | 1283,863                         | 615,000                         | 668,863                        | 1283,757                         | 615,000                         | 668,757                        |
| -67,00        | 1387,511                         | 665,000                         | 722,511                        | 1388,706                         | 665,000                         | 723,706                        |
| -69,00        | 1428,949                         | 685,000                         | 743,949                        | 1430,628                         | 685,000                         | 745,628                        |
| -73,00        | 1511,798                         | 725,000                         | 786,798                        | 1514,369                         | 725,000                         | 789,369                        |
| -78,00        | 1615,320                         | 775,000                         | 840,320                        | 1618,858                         | 775,000                         | 843,858                        |
| -83,00        | 1718,818                         | 825,000                         | 893,818                        | 1723,155                         | 825,000                         | 898,155                        |
| -85,00        | 1760,214                         | 845,000                         | 915,214                        | 1764,827                         | 845,000                         | 919,827                        |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,05     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,05     | -33,35     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,35     | -35,31     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,31     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0007                      | 0,0000                         | 0,0008                     |                                                  |

### 3.12 Resultaat voor Verticaal 12 (X = 54,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| Laag 43       |                                  |                                 |                                |                                  |                                 |                                |
| -2,80         | 104,200                          | 43,000                          | 61,200                         | 104,209                          | 43,009                          | 61,200                         |
| -2,90         | 105,700                          | 44,000                          | 61,700                         | 105,709                          | 44,009                          | 61,700                         |
| -3,00         | 107,200                          | 45,000                          | 62,200                         | 107,209                          | 45,009                          | 62,200                         |
| -3,10         | 108,700                          | 46,000                          | 62,700                         | 108,709                          | 46,009                          | 62,700                         |
| -3,20         | 110,200                          | 47,000                          | 63,200                         | 110,209                          | 47,009                          | 63,200                         |
| -3,30         | 111,700                          | 48,000                          | 63,700                         | 111,709                          | 48,009                          | 63,700                         |
| -3,40         | 113,200                          | 49,000                          | 64,200                         | 113,209                          | 49,009                          | 64,200                         |
| -3,50         | 114,700                          | 50,000                          | 64,700                         | 114,709                          | 50,009                          | 64,700                         |
| -3,60         | 116,200                          | 51,000                          | 65,200                         | 116,209                          | 51,009                          | 65,200                         |
| -3,70         | 117,700                          | 52,000                          | 65,700                         | 117,709                          | 52,009                          | 65,700                         |
| -3,80         | 119,200                          | 53,000                          | 66,200                         | 119,209                          | 53,009                          | 66,200                         |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,209                          | 55,009                          | 67,200                         |
| Laag 42       |                                  |                                 |                                |                                  |                                 |                                |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,209                          | 55,009                          | 67,200                         |
| -4,90         | 138,400                          | 64,000                          | 74,400                         | 138,408                          | 64,009                          | 74,399                         |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,009             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,009             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,009             | 98,382            |
| -8,90         | 210,398             | 104,000            | 106,398           | 210,373             | 104,009            | 106,365           |
| -9,90         | 228,397             | 114,000            | 114,397           | 228,346             | 114,009            | 114,337           |
| -10,30        | 235,596             | 118,000            | 117,596           | 235,531             | 118,009            | 117,523           |
| -11,20        | 251,794             | 127,000            | 124,794           | 251,691             | 127,009            | 124,683           |
| -12,20        | 269,791             | 137,000            | 132,791           | 269,632             | 137,009            | 132,623           |
| -13,20        | 287,786             | 147,000            | 140,786           | 287,555             | 147,009            | 140,547           |
| -14,20        | 305,780             | 157,000            | 148,780           | 305,460             | 157,009            | 148,451           |
| -15,20        | 323,773             | 167,000            | 156,773           | 323,344             | 167,009            | 156,336           |
| -16,20        | 341,763             | 177,000            | 164,763           | 341,208             | 177,009            | 164,200           |
| -16,60        | 348,959             | 181,000            | 167,959           | 348,348             | 181,009            | 167,339           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,959             | 161,000            | 187,959           | 348,348             | 161,009            | 187,339           |
| -18,03        | 378,976             | 175,303            | 203,673           | 378,141             | 175,312            | 202,829           |
| -19,03        | 399,959             | 185,303            | 214,656           | 398,946             | 185,312            | 213,634           |
| -20,03        | 420,939             | 195,303            | 225,636           | 419,731             | 195,312            | 224,419           |
| -21,03        | 441,916             | 205,303            | 236,613           | 440,497             | 205,312            | 235,185           |
| -22,03        | 462,890             | 215,303            | 247,587           | 461,245             | 215,312            | 245,933           |
| -22,83        | 479,665             | 223,303            | 256,362           | 477,832             | 223,312            | 254,520           |
| -24,26        | 509,652             | 237,606            | 272,046           | 507,463             | 237,615            | 269,848           |
| -26,26        | 551,566             | 257,606            | 293,960           | 548,857             | 257,615            | 291,242           |
| -28,26        | 593,460             | 277,606            | 315,854           | 590,229             | 277,615            | 312,614           |
| -29,06        | 610,212             | 285,606            | 324,606           | 606,779             | 285,615            | 321,164           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,06        | 610,212             | 285,606            | 324,606           | 606,779             | 285,615            | 321,164           |
| -30,12        | 630,753             | 296,176            | 334,577           | 627,065             | 296,184            | 330,880           |
| -31,22        | 652,124             | 307,176            | 344,948           | 648,189             | 307,184            | 341,005           |
| -32,27        | 672,651             | 317,745            | 354,906           | 668,502             | 317,753            | 350,748           |
| -33,37        | 694,008             | 328,745            | 365,263           | 689,662             | 328,753            | 360,909           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,37        | 694,008             | 328,745            | 365,263           | 689,662             | 328,753            | 360,909           |
| -34,35        | 713,524             | 338,548            | 374,976           | 709,031             | 338,556            | 370,475           |
| -35,34        | 733,034             | 348,351            | 384,683           | 728,421             | 348,359            | 380,061           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,34        | 733,034             | 348,351            | 384,683           | 728,421             | 348,359            | 380,061           |
| -36,87        | 765,053             | 363,676            | 401,377           | 760,307             | 363,683            | 396,624           |
| -38,87        | 806,818             | 383,676            | 423,142           | 802,007             | 383,683            | 418,324           |
| -39,67        | 823,516             | 391,676            | 431,840           | 818,713             | 391,682            | 427,030           |
| -44,00        | 913,874             | 435,000            | 478,874           | 909,418             | 435,004            | 474,414           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,874             | 435,000            | 478,874           | 909,418             | 435,004            | 474,414           |
| -46,50        | 965,959             | 460,000            | 505,959           | 961,906             | 460,004            | 501,902           |
| -49,00        | 1018,004            | 485,000            | 533,004           | 1014,466            | 485,004            | 529,462           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,004            | 485,000            | 533,004           | 1014,466            | 485,004            | 529,462           |
| -50,00        | 1036,812            | 495,000            | 541,812           | 1033,502            | 495,002            | 538,500           |
| -51,00        | 1055,614            | 505,000            | 550,614           | 1052,543            | 505,000            | 547,543           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,614            | 505,000            | 550,614           | 1052,544            | 505,000            | 547,543           |
| -52,00        | 1076,410            | 515,000            | 561,410           | 1073,591            | 515,000            | 558,590           |
| -53,00        | 1097,200            | 525,000            | 572,200           | 1094,640            | 525,000            | 569,640           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,201            | 525,000            | 572,201           | 1094,640            | 525,000            | 569,640           |
| -57,00        | 1180,310            | 565,000            | 615,310           | 1178,836            | 565,000            | 613,836           |
| -62,00        | 1284,093            | 615,000            | 669,093           | 1284,000            | 615,000            | 669,000           |
| -67,00        | 1387,780            | 665,000            | 722,780           | 1388,994            | 665,000            | 723,994           |
| -69,00        | 1429,233            | 685,000            | 744,233           | 1430,935            | 685,000            | 745,935           |
| -73,00        | 1512,109            | 725,000            | 787,109           | 1514,713            | 725,000            | 789,713           |
| -78,00        | 1615,662            | 775,000            | 840,662           | 1619,244            | 775,000            | 844,244           |
| -83,00        | 1719,186            | 825,000            | 894,186           | 1723,582            | 825,000            | 898,582           |
| -85,00        | 1760,592            | 845,000            | 915,592           | 1765,269            | 845,000            | 920,269           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,06     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,06     | -33,37     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,37     | -35,34     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,34     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0007                      | 0,0000                         | 0,0009                     |                                                  |

### 3.13 Resultaat voor Verticaal 13 (X = 58,80 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,209             | 43,009             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,709             | 44,009             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,209             | 45,009             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,709             | 46,009             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,209             | 47,009             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,709             | 48,009             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,209             | 49,009             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,709             | 50,009             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,209             | 51,009             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,709             | 52,009             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,209             | 53,009             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,009             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,009             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,009             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,009             | 98,382            |
| -8,90         | 210,398             | 104,000            | 106,398           | 210,373             | 104,009            | 106,365           |
| -9,90         | 228,397             | 114,000            | 114,397           | 228,346             | 114,009            | 114,337           |
| -10,30        | 235,596             | 118,000            | 117,596           | 235,532             | 118,009            | 117,523           |
| -11,20        | 251,794             | 127,000            | 124,794           | 251,691             | 127,009            | 124,683           |
| -12,20        | 269,791             | 137,000            | 132,791           | 269,632             | 137,009            | 132,623           |
| -13,20        | 287,787             | 147,000            | 140,787           | 287,555             | 147,009            | 140,547           |
| -14,20        | 305,781             | 157,000            | 148,781           | 305,460             | 157,009            | 148,451           |
| -15,20        | 323,774             | 167,000            | 156,774           | 323,345             | 167,009            | 156,336           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,20        | 341,765             | 177,000            | 164,765           | 341,209             | 177,009            | 164,200           |
| -16,60        | 348,961             | 181,000            | 167,961           | 348,348             | 181,009            | 167,340           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,961             | 161,000            | 187,961           | 348,349             | 161,009            | 187,340           |
| -18,03        | 379,067             | 175,345            | 203,722           | 378,229             | 175,354            | 202,875           |
| -19,03        | 400,051             | 185,345            | 214,706           | 399,034             | 185,354            | 213,680           |
| -20,03        | 421,032             | 195,345            | 225,687           | 419,819             | 195,354            | 224,465           |
| -21,03        | 442,010             | 205,345            | 236,665           | 440,585             | 205,354            | 235,231           |
| -22,03        | 462,984             | 215,345            | 247,639           | 461,333             | 215,354            | 245,980           |
| -22,83        | 479,761             | 223,345            | 256,416           | 477,920             | 223,354            | 254,567           |
| -24,27        | 509,838             | 237,690            | 272,148           | 507,638             | 237,699            | 269,940           |
| -26,27        | 551,756             | 257,690            | 294,066           | 549,033             | 257,699            | 291,335           |
| -28,27        | 593,655             | 277,690            | 315,965           | 590,407             | 277,699            | 312,709           |
| -29,07        | 610,409             | 285,690            | 324,719           | 606,958             | 285,699            | 321,259           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,07        | 610,409             | 285,690            | 324,719           | 606,958             | 285,699            | 321,259           |
| -30,13        | 631,061             | 296,315            | 334,746           | 627,352             | 296,324            | 331,029           |
| -31,23        | 652,435             | 307,315            | 345,120           | 648,479             | 307,323            | 341,155           |
| -32,29        | 673,074             | 317,940            | 355,134           | 668,901             | 317,948            | 350,953           |
| -33,39        | 694,435             | 328,940            | 365,495           | 690,066             | 328,948            | 361,117           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,39        | 694,435             | 328,940            | 365,495           | 690,066             | 328,948            | 361,118           |
| -34,38        | 714,038             | 338,785            | 375,253           | 709,521             | 338,793            | 370,728           |
| -35,36        | 733,636             | 348,630            | 385,006           | 728,998             | 348,638            | 380,359           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,36        | 733,636             | 348,630            | 385,006           | 728,998             | 348,638            | 380,360           |
| -36,88        | 765,370             | 363,815            | 401,555           | 760,602             | 363,823            | 396,779           |
| -38,88        | 807,144             | 383,815            | 423,329           | 802,313             | 383,822            | 418,491           |
| -39,68        | 823,847             | 391,815            | 432,032           | 819,024             | 391,822            | 427,202           |
| -44,00        | 913,938             | 435,000            | 478,938           | 909,467             | 435,004            | 474,463           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,938             | 435,000            | 478,938           | 909,467             | 435,004            | 474,463           |
| -46,50        | 966,039             | 460,000            | 506,039           | 961,974             | 460,004            | 501,970           |
| -49,00        | 1018,101            | 485,000            | 533,101           | 1014,553            | 485,004            | 529,549           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,101            | 485,000            | 533,101           | 1014,553            | 485,004            | 529,549           |
| -50,00        | 1036,915            | 495,000            | 541,915           | 1033,597            | 495,002            | 538,595           |
| -51,00        | 1055,724            | 505,000            | 550,724           | 1052,646            | 505,000            | 547,646           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,724            | 505,000            | 550,724           | 1052,646            | 505,000            | 547,646           |
| -52,00        | 1076,527            | 515,000            | 561,527           | 1073,701            | 515,000            | 558,701           |
| -53,00        | 1097,325            | 525,000            | 572,325           | 1094,758            | 525,000            | 569,758           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,325            | 525,000            | 572,325           | 1094,759            | 525,000            | 569,758           |
| -57,00        | 1180,464            | 565,000            | 615,464           | 1178,986            | 565,000            | 613,986           |
| -62,00        | 1284,282            | 615,000            | 669,282           | 1284,189            | 615,000            | 669,189           |
| -67,00        | 1388,004            | 665,000            | 723,004           | 1389,224            | 665,000            | 724,224           |
| -69,00        | 1429,470            | 685,000            | 744,470           | 1431,181            | 685,000            | 746,181           |
| -73,00        | 1512,372            | 725,000            | 787,372           | 1514,991            | 725,000            | 789,991           |
| -78,00        | 1615,955            | 775,000            | 840,955           | 1619,563            | 775,000            | 844,563           |
| -83,00        | 1719,504            | 825,000            | 894,504           | 1723,941            | 825,000            | 898,941           |
| -85,00        | 1760,919            | 845,000            | 915,919           | 1765,643            | 845,000            | 920,643           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 36          | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 43          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 42          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,07     | 41          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,07     | -33,39     | 40          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -33,39     | -35,36     | 39          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -35,36     | -44,00     | 38          | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                    |
| -44,00     | -49,00     | 37          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -49,00     | -51,00     | 36          | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                    |
| -51,00     | -53,00     | 35          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,00     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0007                      | 0,0000                         | 0,0009                     |                                         |

### 3.14 Resultaat voor Verticaal 14 (X = 62,70 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,209             | 43,009             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,709             | 44,009             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,209             | 45,009             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,709             | 46,009             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,209             | 47,009             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,709             | 48,009             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,209             | 49,009             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,709             | 50,009             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,209             | 51,009             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,709             | 52,009             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,209             | 53,009             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,009             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,009             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,009             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,009             | 98,382            |
| -8,90         | 210,398             | 104,000            | 106,398           | 210,373             | 104,009            | 106,365           |
| -9,90         | 228,397             | 114,000            | 114,397           | 228,346             | 114,009            | 114,337           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,532             | 118,009            | 117,523           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,691             | 127,009            | 124,683           |
| -12,20        | 269,792             | 137,000            | 132,792           | 269,632             | 137,009            | 132,623           |
| -13,20        | 287,787             | 147,000            | 140,787           | 287,556             | 147,009            | 140,547           |
| -14,20        | 305,782             | 157,000            | 148,782           | 305,460             | 157,009            | 148,452           |
| -15,20        | 323,775             | 167,000            | 156,775           | 323,345             | 167,009            | 156,336           |
| -16,20        | 341,766             | 177,000            | 164,766           | 341,209             | 177,009            | 164,200           |
| -16,60        | 348,962             | 181,000            | 167,962           | 348,349             | 181,009            | 167,340           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,962             | 161,000            | 187,962           | 348,349             | 161,009            | 187,340           |
| -18,04        | 379,157             | 175,387            | 203,770           | 378,316             | 175,396            | 202,921           |
| -19,04        | 400,141             | 185,387            | 214,755           | 399,121             | 185,396            | 213,726           |
| -20,04        | 421,123             | 195,387            | 225,737           | 419,906             | 195,396            | 224,511           |
| -21,04        | 442,102             | 205,387            | 236,715           | 440,672             | 205,396            | 235,277           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -22,04        | 463,078             | 215,387            | 247,691           | 461,421             | 215,396            | 246,025           |
| -22,84        | 479,855             | 223,387            | 256,469           | 478,008             | 223,396            | 254,612           |
| -24,28        | 510,021             | 237,773            | 272,248           | 507,813             | 237,782            | 270,031           |
| -26,28        | 551,943             | 257,773            | 294,169           | 549,208             | 257,782            | 291,426           |
| -28,28        | 593,845             | 277,773            | 316,072           | 590,583             | 277,782            | 312,801           |
| -29,08        | 610,601             | 285,773            | 324,827           | 607,135             | 285,782            | 321,353           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,08        | 610,601             | 285,774            | 324,828           | 607,135             | 285,782            | 321,353           |
| -30,15        | 631,364             | 296,454            | 334,910           | 627,637             | 296,463            | 331,174           |
| -31,25        | 652,741             | 307,454            | 345,287           | 648,765             | 307,463            | 341,302           |
| -32,31        | 673,491             | 318,135            | 355,356           | 669,297             | 318,144            | 351,154           |
| -33,41        | 694,855             | 329,135            | 365,720           | 690,464             | 329,143            | 361,321           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,41        | 694,855             | 329,135            | 365,720           | 690,464             | 329,144            | 361,321           |
| -34,40        | 714,544             | 339,022            | 375,523           | 710,005             | 339,030            | 370,975           |
| -35,39        | 734,228             | 348,908            | 385,320           | 729,568             | 348,917            | 380,651           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,39        | 734,228             | 348,909            | 385,320           | 729,568             | 348,917            | 380,651           |
| -36,90        | 765,677             | 363,954            | 401,722           | 760,888             | 363,962            | 396,926           |
| -38,90        | 807,459             | 383,954            | 423,504           | 802,607             | 383,962            | 418,646           |
| -39,70        | 824,165             | 391,954            | 432,210           | 819,322             | 391,961            | 427,361           |
| -44,00        | 913,986             | 435,000            | 478,986           | 909,495             | 435,004            | 474,491           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,986             | 435,000            | 478,986           | 909,495             | 435,004            | 474,491           |
| -46,50        | 966,099             | 460,000            | 506,099           | 962,015             | 460,004            | 502,011           |
| -49,00        | 1018,175            | 485,000            | 533,175           | 1014,609            | 485,004            | 529,605           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,176            | 485,000            | 533,175           | 1014,609            | 485,004            | 529,605           |
| -50,00        | 1036,996            | 495,000            | 541,996           | 1033,659            | 495,002            | 538,657           |
| -51,00        | 1055,810            | 505,000            | 550,810           | 1052,714            | 505,000            | 547,714           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,810            | 505,000            | 550,810           | 1052,714            | 505,000            | 547,714           |
| -52,00        | 1076,619            | 515,000            | 561,619           | 1073,775            | 515,000            | 558,775           |
| -53,00        | 1097,423            | 525,000            | 572,423           | 1094,838            | 525,000            | 569,838           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,423            | 525,000            | 572,423           | 1094,839            | 525,000            | 569,839           |
| -57,00        | 1180,587            | 565,000            | 615,587           | 1179,091            | 565,000            | 614,091           |
| -62,00        | 1284,437            | 615,000            | 669,437           | 1284,328            | 615,000            | 669,328           |
| -67,00        | 1388,190            | 665,000            | 723,190           | 1389,397            | 665,000            | 724,397           |
| -69,00        | 1429,669            | 685,000            | 744,669           | 1431,369            | 685,000            | 746,369           |
| -73,00        | 1512,594            | 725,000            | 787,594           | 1515,209            | 725,000            | 790,209           |
| -78,00        | 1616,204            | 775,000            | 841,204           | 1619,819            | 775,000            | 844,819           |
| -83,00        | 1719,778            | 825,000            | 894,778           | 1724,235            | 825,000            | 899,235           |
| -85,00        | 1761,201            | 845,000            | 916,201           | 1765,953            | 845,000            | 920,953           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -2,80   | -4,00   | 43          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -4,00   | -16,60  | 42          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -16,60  | -29,08  | 41          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -29,08  | -33,41  | 40          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -33,41  | -35,39  | 39          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -35,39  | -44,00  | 38          | 0,0003                      | 0,0000                   | 0,0004               | 0,00                                    |
| -44,00  | -49,00  | 37          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -49,00  | -51,00  | 36          | 0,0003                      | 0,0000                   | 0,0004               | 0,02                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0007                      | 0,0000                   | 0,0009               |                                         |

### 3.15 Resultaat voor Verticaal 15 (X = 66,60 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,209          | 43,009          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,709          | 44,009          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,209          | 45,009          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,709          | 46,009          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,209          | 47,009          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,709          | 48,009          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,209          | 49,009          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,709          | 50,009          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,209          | 51,009          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,709          | 52,009          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,209          | 53,009          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,209          | 55,009          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,209          | 55,009          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,408          | 64,009          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,406          | 74,009          | 82,397         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,401          | 84,009          | 90,392         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,391          | 94,009          | 98,382         |
| -8,90      | 210,399           | 104,000         | 106,399        | 210,374          | 104,009         | 106,365        |
| -9,90      | 228,397           | 114,000         | 114,397        | 228,346          | 114,009         | 114,337        |
| -10,30     | 235,597           | 118,000         | 117,597        | 235,532          | 118,009         | 117,523        |
| -11,20     | 251,795           | 127,000         | 124,795        | 251,692          | 127,009         | 124,683        |
| -12,20     | 269,792           | 137,000         | 132,792        | 269,632          | 137,009         | 132,623        |
| -13,20     | 287,788           | 147,000         | 140,788        | 287,556          | 147,009         | 140,547        |
| -14,20     | 305,783           | 157,000         | 148,783        | 305,460          | 157,009         | 148,452        |
| -15,20     | 323,776           | 167,000         | 156,776        | 323,345          | 167,009         | 156,336        |
| -16,20     | 341,767           | 177,000         | 164,767        | 341,209          | 177,009         | 164,200        |
| -16,60     | 348,963           | 181,000         | 167,963        | 348,349          | 181,009         | 167,340        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,964           | 161,000         | 187,964        | 348,349          | 161,009         | 187,340        |
| -18,04     | 379,246           | 175,429         | 203,818        | 378,403          | 175,437         | 202,966        |
| -19,04     | 400,231           | 185,429         | 214,803        | 399,208          | 185,437         | 213,771        |
| -20,04     | 421,214           | 195,429         | 225,785        | 419,993          | 195,437         | 224,556        |
| -21,04     | 442,193           | 205,429         | 236,765        | 440,760          | 205,437         | 235,322        |
| -22,04     | 463,170           | 215,429         | 247,741        | 461,508          | 215,437         | 246,071        |
| -22,84     | 479,948           | 223,429         | 256,520        | 478,095          | 223,437         | 254,658        |
| -24,29     | 510,203           | 237,857         | 272,346        | 507,987          | 237,866         | 270,121        |
| -26,29     | 552,127           | 257,857         | 294,270        | 549,382          | 257,866         | 291,516        |
| -28,29     | 594,033           | 277,857         | 316,176        | 590,758          | 277,866         | 312,892        |
| -29,09     | 610,790           | 285,857         | 324,933        | 607,310          | 285,866         | 321,444        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,09     | 610,790           | 285,857         | 324,933        | 607,310          | 285,866         | 321,444        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -30,16        | 631,663             | 296,594            | 335,069           | 627,920             | 296,602            | 331,317           |
| -31,26        | 653,042             | 307,594            | 345,448           | 649,049             | 307,602            | 341,446           |
| -32,33        | 673,903             | 318,330            | 355,573           | 669,689             | 318,339            | 351,350           |
| -33,43        | 695,269             | 329,330            | 365,939           | 690,858             | 329,338            | 361,519           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,43        | 695,269             | 329,330            | 365,939           | 690,858             | 329,339            | 361,519           |
| -34,43        | 715,044             | 339,259            | 375,786           | 710,483             | 339,267            | 371,216           |
| -35,42        | 734,814             | 349,187            | 385,627           | 730,130             | 349,196            | 380,935           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,42        | 734,814             | 349,187            | 385,627           | 730,131             | 349,196            | 380,935           |
| -36,91        | 765,975             | 364,094            | 401,882           | 761,164             | 364,102            | 397,063           |
| -38,91        | 807,764             | 384,094            | 423,670           | 802,889             | 384,101            | 418,788           |
| -39,71        | 824,472             | 392,094            | 432,379           | 819,606             | 392,101            | 427,505           |
| -44,00        | 914,019             | 435,000            | 479,019           | 909,500             | 435,004            | 474,496           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,020             | 435,000            | 479,020           | 909,500             | 435,004            | 474,496           |
| -46,50        | 966,144             | 460,000            | 506,144           | 962,029             | 460,004            | 502,025           |
| -49,00        | 1018,232            | 485,000            | 533,232           | 1014,632            | 485,004            | 529,628           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,232            | 485,000            | 533,232           | 1014,633            | 485,004            | 529,628           |
| -50,00        | 1037,057            | 495,000            | 542,057           | 1033,686            | 495,002            | 538,684           |
| -51,00        | 1055,877            | 505,000            | 550,877           | 1052,745            | 505,000            | 547,745           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,877            | 505,000            | 550,877           | 1052,746            | 505,000            | 547,745           |
| -52,00        | 1076,691            | 515,000            | 561,691           | 1073,811            | 515,000            | 558,811           |
| -53,00        | 1097,500            | 525,000            | 572,500           | 1094,879            | 525,000            | 569,879           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,500            | 525,000            | 572,500           | 1094,879            | 525,000            | 569,879           |
| -57,00        | 1180,685            | 565,000            | 615,685           | 1179,151            | 565,000            | 614,151           |
| -62,00        | 1284,563            | 615,000            | 669,563           | 1284,414            | 615,000            | 669,414           |
| -67,00        | 1388,344            | 665,000            | 723,344           | 1389,515            | 665,000            | 724,515           |
| -69,00        | 1429,834            | 685,000            | 744,834           | 1431,499            | 685,000            | 746,499           |
| -73,00        | 1512,780            | 725,000            | 787,780           | 1515,367            | 725,000            | 790,367           |
| -78,00        | 1616,415            | 775,000            | 841,415           | 1620,015            | 775,000            | 845,015           |
| -83,00        | 1720,012            | 825,000            | 895,012           | 1724,471            | 825,000            | 899,471           |
| -85,00        | 1761,444            | 845,000            | 916,444           | 1766,205            | 845,000            | 921,205           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,09     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,09     | -33,43     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,43     | -35,42     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,42     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -49,00  | -51,00  | 36          | 0,0003                      | 0,0000                   | 0,0004               | 0,02                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0007                      | 0,0000                   | 0,0009               |                                         |

### 3.16 Resultaat voor Verticaal 16 (X = 70,50 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,209          | 43,009          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,709          | 44,009          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,209          | 45,009          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,709          | 46,009          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,209          | 47,009          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,709          | 48,009          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,209          | 49,009          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,709          | 50,009          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,209          | 51,009          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,709          | 52,009          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,209          | 53,009          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,209          | 55,009          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,209          | 55,009          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,408          | 64,009          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,406          | 74,009          | 82,397         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,401          | 84,009          | 90,392         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,391          | 94,009          | 98,382         |
| -8,90      | 210,399           | 104,000         | 106,399        | 210,373          | 104,009         | 106,365        |
| -9,90      | 228,397           | 114,000         | 114,397        | 228,346          | 114,009         | 114,337        |
| -10,30     | 235,597           | 118,000         | 117,597        | 235,532          | 118,009         | 117,523        |
| -11,20     | 251,795           | 127,000         | 124,795        | 251,691          | 127,009         | 124,683        |
| -12,20     | 269,792           | 137,000         | 132,792        | 269,632          | 137,009         | 132,623        |
| -13,20     | 287,788           | 147,000         | 140,788        | 287,556          | 147,009         | 140,547        |
| -14,20     | 305,783           | 157,000         | 148,783        | 305,460          | 157,009         | 148,452        |
| -15,20     | 323,777           | 167,000         | 156,777        | 323,345          | 167,009         | 156,336        |
| -16,20     | 341,768           | 177,000         | 164,768        | 341,209          | 177,009         | 164,200        |
| -16,60     | 348,964           | 181,000         | 167,964        | 348,349          | 181,009         | 167,340        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,965           | 161,000         | 187,965        | 348,349          | 161,009         | 187,340        |
| -18,05     | 379,335           | 175,470         | 203,865        | 378,490          | 175,479         | 203,011        |
| -19,05     | 400,321           | 185,470         | 214,851        | 399,295          | 185,479         | 213,816        |
| -20,05     | 421,304           | 195,470         | 225,834        | 420,080          | 195,479         | 224,601        |
| -21,05     | 442,284           | 205,470         | 236,814        | 440,846          | 205,479         | 235,367        |
| -22,05     | 463,261           | 215,470         | 247,790        | 461,595          | 215,479         | 246,115        |
| -22,85     | 480,040           | 223,470         | 256,570        | 478,181          | 223,479         | 254,702        |
| -24,29     | 510,384           | 237,941         | 272,443        | 508,160          | 237,950         | 270,210        |
| -26,29     | 552,309           | 257,941         | 294,369        | 549,555          | 257,950         | 291,605        |
| -28,29     | 594,218           | 277,941         | 316,277        | 590,930          | 277,950         | 312,981        |
| -29,09     | 610,976           | 285,941         | 325,035        | 607,482          | 285,950         | 321,533        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,09     | 610,976           | 285,941         | 325,035        | 607,482          | 285,950         | 321,533        |
| -30,17     | 631,959           | 296,733         | 335,226        | 628,199          | 296,742         | 331,457        |
| -31,27     | 653,340           | 307,733         | 345,607        | 649,328          | 307,742         | 341,587        |
| -32,35     | 674,310           | 318,525         | 355,785        | 670,076          | 318,534         | 351,542        |
| -33,45     | 695,678           | 329,525         | 366,153        | 691,245          | 329,533         | 361,712        |
| Laag 39    |                   |                 |                |                  |                 |                |
| -33,45     | 695,679           | 329,525         | 366,154        | 691,245          | 329,534         | 361,712        |
| -34,45     | 715,539           | 339,495         | 376,044        | 710,954          | 339,504         | 371,450        |
| -35,45     | 735,394           | 349,466         | 385,929        | 730,685          | 349,474         | 381,211        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,45        | 735,395             | 349,466            | 385,929           | 730,685             | 349,474            | 381,211           |
| -36,92        | 766,268             | 364,233            | 402,035           | 761,430             | 364,241            | 397,189           |
| -38,92        | 808,062             | 384,233            | 423,829           | 803,156             | 384,240            | 418,916           |
| -39,72        | 824,773             | 392,233            | 432,540           | 819,874             | 392,240            | 427,634           |
| -44,00        | 914,043             | 435,000            | 479,043           | 909,481             | 435,004            | 474,477           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,043             | 435,000            | 479,043           | 909,481             | 435,004            | 474,477           |
| -46,50        | 966,176             | 460,000            | 506,176           | 962,013             | 460,004            | 502,009           |
| -49,00        | 1018,274            | 485,000            | 533,274           | 1014,621            | 485,004            | 529,617           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,274            | 485,000            | 533,274           | 1014,621            | 485,004            | 529,617           |
| -50,00        | 1037,104            | 495,000            | 542,104           | 1033,677            | 495,002            | 538,675           |
| -51,00        | 1055,928            | 505,000            | 550,928           | 1052,739            | 505,000            | 547,739           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,928            | 505,000            | 550,928           | 1052,739            | 505,000            | 547,739           |
| -52,00        | 1076,746            | 515,000            | 561,746           | 1073,807            | 515,000            | 558,807           |
| -53,00        | 1097,560            | 525,000            | 572,560           | 1094,878            | 525,000            | 569,878           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,560            | 525,000            | 572,560           | 1094,878            | 525,000            | 569,878           |
| -57,00        | 1180,763            | 565,000            | 615,763           | 1179,163            | 565,000            | 614,163           |
| -62,00        | 1284,665            | 615,000            | 669,665           | 1284,449            | 615,000            | 669,449           |
| -67,00        | 1388,471            | 665,000            | 723,471           | 1389,577            | 665,000            | 724,577           |
| -69,00        | 1429,970            | 685,000            | 744,970           | 1431,574            | 685,000            | 746,574           |
| -73,00        | 1512,936            | 725,000            | 787,936           | 1515,470            | 725,000            | 790,470           |
| -78,00        | 1616,594            | 775,000            | 841,594           | 1620,156            | 775,000            | 845,156           |
| -83,00        | 1720,212            | 825,000            | 895,212           | 1724,652            | 825,000            | 899,652           |
| -85,00        | 1761,652            | 845,000            | 916,652           | 1766,403            | 845,000            | 921,403           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,09     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,09     | -33,45     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,45     | -35,45     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,45     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0007                      | 0,0000                         | 0,0009                     |                                                  |

### 3.17 Resultaat voor Verticaal 17 (X = 74,40 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,209             | 43,009             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,709             | 44,009             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,209             | 45,009             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,709             | 46,009             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,209             | 47,009             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,709             | 48,009             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,209             | 49,009             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,709             | 50,009             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,209             | 51,009             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,709             | 52,009             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,209             | 53,009             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,009             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,009             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,009             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,009             | 98,382            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,373             | 104,009            | 106,365           |
| -9,90         | 228,397             | 114,000            | 114,397           | 228,346             | 114,009            | 114,337           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,532             | 118,009            | 117,523           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,691             | 127,009            | 124,683           |
| -12,20        | 269,792             | 137,000            | 132,792           | 269,632             | 137,009            | 132,623           |
| -13,20        | 287,788             | 147,000            | 140,788           | 287,556             | 147,009            | 140,547           |
| -14,20        | 305,783             | 157,000            | 148,783           | 305,460             | 157,009            | 148,451           |
| -15,20        | 323,777             | 167,000            | 156,777           | 323,345             | 167,009            | 156,336           |
| -16,20        | 341,769             | 177,000            | 164,769           | 341,209             | 177,009            | 164,200           |
| -16,60        | 348,965             | 181,000            | 167,965           | 348,348             | 181,009            | 167,340           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,965             | 161,000            | 187,965           | 348,349             | 161,009            | 187,340           |
| -18,05        | 379,424             | 175,512            | 203,912           | 378,577             | 175,521            | 203,056           |
| -19,05        | 400,410             | 185,512            | 214,898           | 399,382             | 185,521            | 213,861           |
| -20,05        | 421,393             | 195,512            | 225,881           | 420,166             | 195,521            | 224,645           |
| -21,05        | 442,374             | 205,512            | 236,862           | 440,932             | 205,521            | 235,411           |
| -22,05        | 463,351             | 215,512            | 247,839           | 461,680             | 215,521            | 246,159           |
| -22,85        | 480,131             | 223,512            | 256,619           | 478,267             | 223,521            | 254,746           |
| -24,30        | 510,563             | 238,024            | 272,539           | 508,332             | 238,033            | 270,299           |
| -26,30        | 552,491             | 258,024            | 294,466           | 549,726             | 258,033            | 291,693           |
| -28,30        | 594,401             | 278,024            | 316,376           | 591,101             | 278,033            | 313,068           |
| -29,10        | 611,159             | 286,024            | 325,135           | 607,652             | 286,033            | 321,619           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,10        | 611,160             | 286,024            | 325,135           | 607,652             | 286,033            | 321,619           |
| -30,19        | 632,252             | 296,872            | 335,380           | 628,476             | 296,881            | 331,595           |
| -31,29        | 653,634             | 307,872            | 345,762           | 649,604             | 307,881            | 341,723           |
| -32,37        | 674,715             | 318,720            | 355,995           | 670,458             | 318,729            | 351,729           |
| -33,47        | 696,085             | 329,720            | 366,365           | 691,627             | 329,728            | 361,898           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,47        | 696,085             | 329,720            | 366,365           | 691,627             | 329,728            | 361,898           |
| -34,47        | 716,030             | 339,732            | 376,298           | 711,417             | 339,741            | 371,676           |
| -35,47        | 735,970             | 349,744            | 386,226           | 731,230             | 349,753            | 381,478           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,47        | 735,971             | 349,744            | 386,226           | 731,231             | 349,753            | 381,478           |
| -36,94        | 766,556             | 364,372            | 402,183           | 761,684             | 364,380            | 397,304           |
| -38,94        | 808,354             | 384,372            | 423,981           | 803,408             | 384,379            | 419,028           |
| -39,74        | 825,066             | 392,372            | 432,694           | 820,125             | 392,379            | 427,746           |
| -44,00        | 914,057             | 435,000            | 479,057           | 909,436             | 435,004            | 474,432           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,057             | 435,000            | 479,057           | 909,436             | 435,004            | 474,432           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -46,50        | 966,198             | 460,000            | 506,198           | 961,967             | 460,004            | 501,963           |
| -49,00        | 1018,305            | 485,000            | 533,305           | 1014,575            | 485,004            | 529,571           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,305            | 485,000            | 533,305           | 1014,575            | 485,004            | 529,571           |
| -50,00        | 1037,138            | 495,000            | 542,138           | 1033,631            | 495,002            | 538,629           |
| -51,00        | 1055,965            | 505,000            | 550,965           | 1052,694            | 505,000            | 547,693           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,965            | 505,000            | 550,965           | 1052,694            | 505,000            | 547,694           |
| -52,00        | 1076,787            | 515,000            | 561,787           | 1073,763            | 515,000            | 558,763           |
| -53,00        | 1097,605            | 525,000            | 572,605           | 1094,835            | 525,000            | 569,835           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,605            | 525,000            | 572,605           | 1094,835            | 525,000            | 569,835           |
| -57,00        | 1180,824            | 565,000            | 615,824           | 1179,129            | 565,000            | 614,129           |
| -62,00        | 1284,747            | 615,000            | 669,747           | 1284,432            | 615,000            | 669,432           |
| -67,00        | 1388,574            | 665,000            | 723,574           | 1389,586            | 665,000            | 724,586           |
| -69,00        | 1430,082            | 685,000            | 745,082           | 1431,596            | 685,000            | 746,596           |
| -73,00        | 1513,065            | 725,000            | 788,065           | 1515,519            | 725,000            | 790,519           |
| -78,00        | 1616,744            | 775,000            | 841,744           | 1620,244            | 775,000            | 845,244           |
| -83,00        | 1720,382            | 825,000            | 895,382           | 1724,784            | 825,000            | 899,784           |
| -85,00        | 1761,829            | 845,000            | 916,829           | 1766,553            | 845,000            | 921,553           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,10     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,10     | -33,47     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,47     | -35,47     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,47     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0007                      | 0,0000                         | 0,0009                     |                                                  |

### 3.18 Resultaat voor Verticaal 18 (X = 82,20 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,209             | 43,009             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,708             | 44,008             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,208             | 45,008             | 62,200            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,708             | 46,008             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,208             | 47,008             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,708             | 48,008             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,208             | 49,008             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,708             | 50,008             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,208             | 51,008             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,708             | 52,008             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,208             | 53,008             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,209             | 55,009             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,408             | 64,008             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,406             | 74,008             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,401             | 84,008             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,391             | 94,008             | 98,382            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,373             | 104,008            | 106,365           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,346             | 114,008            | 114,337           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,531             | 118,008            | 117,523           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,691             | 127,008            | 124,682           |
| -12,20        | 269,792             | 137,000            | 132,792           | 269,632             | 137,008            | 132,623           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,555             | 147,008            | 140,546           |
| -14,20        | 305,784             | 157,000            | 148,784           | 305,459             | 157,008            | 148,451           |
| -15,20        | 323,778             | 167,000            | 156,778           | 323,344             | 167,008            | 156,335           |
| -16,20        | 341,770             | 177,000            | 164,770           | 341,207             | 177,008            | 164,199           |
| -16,60        | 348,966             | 181,000            | 167,966           | 348,347             | 181,008            | 167,338           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,966             | 161,000            | 187,966           | 348,347             | 161,009            | 187,339           |
| -18,06        | 379,601             | 175,596            | 204,006           | 378,749             | 175,604            | 203,145           |
| -19,06        | 400,588             | 185,596            | 214,992           | 399,553             | 185,604            | 213,949           |
| -20,06        | 421,572             | 195,596            | 225,976           | 420,337             | 195,604            | 224,733           |
| -21,06        | 442,553             | 205,596            | 236,957           | 441,102             | 205,604            | 235,498           |
| -22,06        | 463,531             | 215,596            | 247,935           | 461,850             | 215,604            | 246,245           |
| -22,86        | 480,311             | 223,596            | 256,715           | 478,436             | 223,604            | 254,831           |
| -24,32        | 510,920             | 238,192            | 272,728           | 508,672             | 238,200            | 270,472           |
| -26,32        | 552,850             | 258,192            | 294,658           | 550,064             | 258,200            | 291,864           |
| -28,32        | 594,762             | 278,192            | 316,571           | 591,435             | 278,200            | 313,234           |
| -29,12        | 611,523             | 286,192            | 325,331           | 607,984             | 286,200            | 321,784           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,12        | 611,523             | 286,192            | 325,331           | 607,984             | 286,200            | 321,784           |
| -30,22        | 632,833             | 297,151            | 335,683           | 629,018             | 297,159            | 331,859           |
| -31,32        | 654,218             | 308,151            | 346,067           | 650,142             | 308,159            | 341,983           |
| -32,41        | 675,517             | 319,110            | 356,407           | 671,206             | 319,118            | 352,088           |
| -33,51        | 696,889             | 330,110            | 366,779           | 692,369             | 330,118            | 362,251           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,51        | 696,890             | 330,110            | 366,779           | 692,369             | 330,118            | 362,251           |
| -34,52        | 717,004             | 340,206            | 376,798           | 712,320             | 340,214            | 372,106           |
| -35,53        | 737,113             | 350,302            | 386,812           | 732,293             | 350,310            | 381,983           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,53        | 737,113             | 350,302            | 386,812           | 732,293             | 350,310            | 381,983           |
| -36,97        | 767,120             | 364,651            | 402,469           | 762,157             | 364,659            | 397,499           |
| -38,97        | 808,924             | 384,651            | 424,273           | 803,866             | 384,658            | 419,208           |
| -39,77        | 825,640             | 392,651            | 432,989           | 820,577             | 392,658            | 427,919           |
| -44,00        | 914,066             | 435,000            | 479,066           | 909,270             | 435,004            | 474,266           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,066             | 435,000            | 479,066           | 909,270             | 435,004            | 474,266           |
| -46,50        | 966,219             | 460,000            | 506,219           | 961,783             | 460,004            | 501,779           |
| -49,00        | 1018,338            | 485,000            | 533,338           | 1014,377            | 485,004            | 529,373           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,338            | 485,000            | 533,338           | 1014,378            | 485,004            | 529,373           |
| -50,00        | 1037,177            | 495,000            | 542,177           | 1033,430            | 495,002            | 538,428           |
| -51,00        | 1056,010            | 505,000            | 551,010           | 1052,489            | 505,000            | 547,489           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1056,010            | 505,000            | 551,010           | 1052,489            | 505,000            | 547,489           |
| -52,00        | 1076,838            | 515,000            | 561,838           | 1073,556            | 515,000            | 558,556           |

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| -53,00        | 1097,661                         | 525,000                         | 572,661                        | 1094,626                         | 525,000                         | 569,626                        |
| Laag 1        |                                  |                                 |                                |                                  |                                 |                                |
| -53,00        | 1097,661                         | 525,000                         | 572,661                        | 1094,627                         | 525,000                         | 569,626                        |
| -57,00        | 1180,905                         | 565,000                         | 615,905                        | 1178,924                         | 565,000                         | 613,924                        |
| -62,00        | 1284,862                         | 615,000                         | 669,862                        | 1284,254                         | 615,000                         | 669,254                        |
| -67,00        | 1388,724                         | 665,000                         | 723,724                        | 1389,457                         | 665,000                         | 724,457                        |
| -69,00        | 1430,247                         | 685,000                         | 745,247                        | 1431,492                         | 685,000                         | 746,492                        |
| -73,00        | 1513,258                         | 725,000                         | 788,258                        | 1515,474                         | 725,000                         | 790,474                        |
| -78,00        | 1616,972                         | 775,000                         | 841,972                        | 1620,287                         | 775,000                         | 845,287                        |
| -83,00        | 1720,643                         | 825,000                         | 895,643                        | 1724,925                         | 825,000                         | 899,925                        |
| -85,00        | 1762,103                         | 845,000                         | 917,103                        | 1766,735                         | 845,000                         | 921,735                        |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,12     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,12     | -33,51     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,51     | -35,53     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,53     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0007                      | 0,0000                         | 0,0008                     |                                                  |

### 3.19 Resultaat voor Verticaal 19 (X = 90,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| Laag 43       |                                  |                                 |                                |                                  |                                 |                                |
| -2,80         | 104,200                          | 43,000                          | 61,200                         | 104,208                          | 43,008                          | 61,200                         |
| -2,90         | 105,700                          | 44,000                          | 61,700                         | 105,708                          | 44,008                          | 61,700                         |
| -3,00         | 107,200                          | 45,000                          | 62,200                         | 107,208                          | 45,008                          | 62,200                         |
| -3,10         | 108,700                          | 46,000                          | 62,700                         | 108,708                          | 46,008                          | 62,700                         |
| -3,20         | 110,200                          | 47,000                          | 63,200                         | 110,208                          | 47,008                          | 63,200                         |
| -3,30         | 111,700                          | 48,000                          | 63,700                         | 111,708                          | 48,008                          | 63,700                         |
| -3,40         | 113,200                          | 49,000                          | 64,200                         | 113,208                          | 49,008                          | 64,200                         |
| -3,50         | 114,700                          | 50,000                          | 64,700                         | 114,708                          | 50,008                          | 64,700                         |
| -3,60         | 116,200                          | 51,000                          | 65,200                         | 116,208                          | 51,008                          | 65,200                         |
| -3,70         | 117,700                          | 52,000                          | 65,700                         | 117,708                          | 52,008                          | 65,700                         |
| -3,80         | 119,200                          | 53,000                          | 66,200                         | 119,208                          | 53,008                          | 66,200                         |
| -4,00         | 122,200                          | 55,000                          | 67,200                         | 122,208                          | 55,008                          | 67,200                         |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,407             | 64,008             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,405             | 74,008             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,400             | 84,008             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,390             | 94,008             | 98,382            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,373             | 104,008            | 106,365           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,345             | 114,008            | 114,337           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,531             | 118,008            | 117,523           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,690             | 127,008            | 124,682           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,631             | 137,008            | 132,622           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,554             | 147,008            | 140,546           |
| -14,20        | 305,784             | 157,000            | 148,784           | 305,458             | 157,008            | 148,450           |
| -15,20        | 323,778             | 167,000            | 156,778           | 323,342             | 167,008            | 156,334           |
| -16,20        | 341,771             | 177,000            | 164,771           | 341,205             | 177,008            | 164,197           |
| -16,60        | 348,967             | 181,000            | 167,967           | 348,344             | 181,008            | 167,336           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,967             | 161,000            | 187,967           | 348,344             | 161,008            | 187,336           |
| -18,07        | 379,778             | 175,679            | 204,099           | 378,919             | 175,687            | 203,232           |
| -19,07        | 400,765             | 185,679            | 215,085           | 399,722             | 185,687            | 214,034           |
| -20,07        | 421,749             | 195,679            | 226,069           | 420,505             | 195,687            | 224,817           |
| -21,07        | 442,730             | 205,679            | 237,051           | 441,268             | 205,687            | 235,581           |
| -22,07        | 463,709             | 215,679            | 248,029           | 462,014             | 215,687            | 246,327           |
| -22,87        | 480,489             | 223,679            | 256,810           | 478,599             | 223,687            | 254,911           |
| -24,34        | 511,275             | 238,359            | 272,916           | 509,005             | 238,367            | 270,638           |
| -26,34        | 553,206             | 258,359            | 294,847           | 550,392             | 258,367            | 292,025           |
| -28,34        | 595,120             | 278,359            | 316,761           | 591,755             | 278,367            | 313,388           |
| -29,14        | 611,881             | 286,359            | 325,522           | 608,301             | 286,367            | 321,934           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,14        | 611,881             | 286,359            | 325,522           | 608,301             | 286,367            | 321,934           |
| -30,24        | 633,410             | 297,429            | 335,981           | 629,542             | 297,437            | 332,105           |
| -31,34        | 654,796             | 308,429            | 346,366           | 650,660             | 308,437            | 342,223           |
| -32,45        | 676,313             | 319,500            | 356,813           | 671,929             | 319,508            | 352,421           |
| -33,55        | 697,687             | 330,500            | 367,187           | 693,083             | 330,508            | 362,575           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,55        | 697,687             | 330,500            | 367,187           | 693,083             | 330,508            | 362,575           |
| -34,57        | 717,969             | 340,679            | 377,290           | 713,188             | 340,687            | 372,501           |
| -35,59        | 738,247             | 350,859            | 387,388           | 733,316             | 350,867            | 382,450           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,59        | 738,247             | 350,859            | 387,388           | 733,316             | 350,867            | 382,450           |
| -36,99        | 767,673             | 364,929            | 402,744           | 762,584             | 364,937            | 397,647           |
| -38,99        | 809,482             | 384,929            | 424,553           | 804,265             | 384,936            | 419,329           |
| -39,79        | 826,199             | 392,929            | 433,270           | 820,964             | 392,936            | 428,029           |
| -44,00        | 914,055             | 435,000            | 479,055           | 909,012             | 435,004            | 474,008           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,055             | 435,000            | 479,055           | 909,012             | 435,004            | 474,008           |
| -46,50        | 966,217             | 460,000            | 506,217           | 961,490             | 460,004            | 501,486           |
| -49,00        | 1018,345            | 485,000            | 533,345           | 1014,055            | 485,004            | 529,051           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,345            | 485,000            | 533,345           | 1014,055            | 485,004            | 529,051           |
| -50,00        | 1037,187            | 495,000            | 542,187           | 1033,097            | 495,002            | 538,095           |
| -51,00        | 1056,024            | 505,000            | 551,024           | 1052,148            | 505,000            | 547,148           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1056,024            | 505,000            | 551,024           | 1052,148            | 505,000            | 547,148           |
| -52,00        | 1076,856            | 515,000            | 561,856           | 1073,207            | 515,000            | 558,207           |
| -53,00        | 1097,684            | 525,000            | 572,684           | 1094,272            | 525,000            | 569,272           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,684            | 525,000            | 572,684           | 1094,272            | 525,000            | 569,272           |
| -57,00        | 1180,946            | 565,000            | 615,946           | 1178,559            | 565,000            | 613,559           |
| -62,00        | 1284,927            | 615,000            | 669,927           | 1283,908            | 615,000            | 668,908           |
| -67,00        | 1388,816            | 665,000            | 723,816           | 1389,164            | 665,000            | 724,164           |
| -69,00        | 1430,349            | 685,000            | 745,349           | 1431,229            | 685,000            | 746,229           |
| -73,00        | 1513,382            | 725,000            | 788,382           | 1515,283            | 725,000            | 790,283           |
| -78,00        | 1617,123            | 775,000            | 842,123           | 1620,204            | 775,000            | 845,204           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -83,00        | 1720,821            | 825,000            | 895,821           | 1724,963            | 825,000            | 899,963           |
| -85,00        | 1762,291            | 845,000            | 917,291           | 1766,823            | 845,000            | 921,823           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,14     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,14     | -33,55     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,55     | -35,59     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,59     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0004                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0006                      | 0,0000                         | 0,0008                     |                                                  |

### 3.20 Resultaat voor Verticaal 20 (X = 97,80 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,208             | 43,008             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,707             | 44,007             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,207             | 45,007             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,707             | 46,007             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,207             | 47,007             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,707             | 48,007             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,207             | 49,007             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,707             | 50,007             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,207             | 51,007             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,707             | 52,007             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,207             | 53,007             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,207             | 55,007             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,208             | 55,008             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,407             | 64,007             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,405             | 74,007             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,400             | 84,007             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,389             | 94,007             | 98,382            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,372             | 104,007            | 106,364           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,344             | 114,007            | 114,337           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,529             | 118,007            | 117,522           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,689             | 127,007            | 124,681           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,629             | 137,007            | 132,621           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,551             | 147,007            | 140,544           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,455             | 157,007            | 148,447           |
| -15,20        | 323,779             | 167,000            | 156,779           | 323,338             | 167,007            | 156,330           |
| -16,20        | 341,771             | 177,000            | 164,771           | 341,200             | 177,007            | 164,192           |
| -16,60        | 348,967             | 181,000            | 167,967           | 348,338             | 181,007            | 167,331           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 348,338             | 161,008            | 187,331           |
| -18,08        | 379,954             | 175,763            | 204,191           | 379,085             | 175,770            | 203,315           |
| -19,08        | 400,941             | 185,763            | 215,178           | 399,886             | 185,770            | 214,115           |
| -20,08        | 421,925             | 195,763            | 226,162           | 420,666             | 195,770            | 224,896           |
| -21,08        | 442,907             | 205,763            | 237,144           | 441,427             | 205,770            | 235,657           |
| -22,08        | 463,886             | 215,763            | 248,123           | 462,170             | 215,770            | 246,399           |
| -22,88        | 480,667             | 223,763            | 256,904           | 478,752             | 223,770            | 254,981           |
| -24,35        | 511,628             | 238,526            | 273,102           | 509,326             | 238,534            | 270,792           |
| -26,35        | 553,560             | 258,526            | 295,034           | 550,703             | 258,534            | 292,169           |
| -28,35        | 595,476             | 278,526            | 316,949           | 592,054             | 278,534            | 313,520           |
| -29,15        | 612,237             | 286,526            | 325,711           | 608,593             | 286,534            | 322,060           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,15        | 612,237             | 286,526            | 325,711           | 608,594             | 286,534            | 322,060           |
| -30,27        | 633,983             | 297,708            | 336,275           | 630,039             | 297,715            | 332,323           |
| -31,37        | 655,370             | 308,708            | 346,662           | 651,145             | 308,715            | 342,430           |
| -32,49        | 677,104             | 319,890            | 357,214           | 672,615             | 319,897            | 352,718           |
| -33,59        | 698,479             | 330,890            | 367,589           | 693,755             | 330,897            | 362,858           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,59        | 698,479             | 330,890            | 367,589           | 693,755             | 330,897            | 362,858           |
| -34,62        | 718,929             | 341,153            | 377,776           | 714,011             | 341,160            | 372,851           |
| -35,64        | 739,374             | 351,416            | 387,958           | 734,289             | 351,423            | 382,866           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,64        | 739,375             | 351,416            | 387,958           | 734,289             | 351,423            | 382,866           |
| -37,02        | 768,220             | 365,208            | 403,012           | 762,954             | 365,215            | 397,739           |
| -39,02        | 810,031             | 385,208            | 424,823           | 804,598             | 385,214            | 419,384           |
| -39,82        | 826,750             | 393,208            | 433,542           | 821,282             | 393,214            | 428,068           |
| -44,00        | 914,031             | 435,000            | 479,031           | 908,662             | 435,004            | 473,658           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,031             | 435,000            | 479,031           | 908,662             | 435,004            | 473,658           |
| -46,50        | 966,198             | 460,000            | 506,198           | 961,093             | 460,004            | 501,090           |
| -49,00        | 1018,333            | 485,000            | 533,333           | 1013,618            | 485,004            | 528,614           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,333            | 485,000            | 533,333           | 1013,618            | 485,004            | 528,614           |
| -50,00        | 1037,177            | 495,000            | 542,177           | 1032,647            | 495,002            | 537,645           |
| -51,00        | 1056,017            | 505,000            | 551,017           | 1051,686            | 505,000            | 546,685           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1056,017            | 505,000            | 551,017           | 1051,686            | 505,000            | 546,686           |
| -52,00        | 1076,852            | 515,000            | 561,852           | 1072,735            | 515,000            | 557,734           |
| -53,00        | 1097,682            | 525,000            | 572,682           | 1093,791            | 525,000            | 568,791           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,683            | 525,000            | 572,683           | 1093,791            | 525,000            | 568,791           |
| -57,00        | 1180,957            | 565,000            | 615,957           | 1178,064            | 565,000            | 613,064           |
| -62,00        | 1284,956            | 615,000            | 669,956           | 1283,441            | 615,000            | 668,441           |
| -67,00        | 1388,863            | 665,000            | 723,863           | 1388,772            | 665,000            | 723,772           |
| -69,00        | 1430,404            | 685,000            | 745,404           | 1430,877            | 685,000            | 745,877           |
| -73,00        | 1513,453            | 725,000            | 788,453           | 1515,028            | 725,000            | 790,028           |
| -78,00        | 1617,213            | 775,000            | 842,213           | 1620,090            | 775,000            | 845,090           |
| -83,00        | 1720,931            | 825,000            | 895,931           | 1725,002            | 825,000            | 900,002           |
| -85,00        | 1762,408            | 845,000            | 917,408           | 1766,925            | 845,000            | 921,925           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,15     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,15     | -33,59     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,59     | -35,64     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,64     | -44,00     | 38             | 0,0003                      | 0,0000                         | 0,0003                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0006                      | 0,0000                         | 0,0007                     |                                                  |

### 3.21 Resultaat voor Verticaal 21 (X = 105,60 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,207             | 43,007             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,707             | 44,007             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,207             | 45,007             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,707             | 46,007             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,207             | 47,007             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,707             | 48,007             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,207             | 49,007             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,707             | 50,007             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,207             | 51,007             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,707             | 52,007             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,207             | 53,007             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,207             | 55,007             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,207             | 55,007             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,406             | 64,007             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,404             | 74,007             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,399             | 84,007             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,389             | 94,007             | 98,382            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,371             | 104,007            | 106,364           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,342             | 114,007            | 114,336           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,528             | 118,007            | 117,521           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,686             | 127,007            | 124,680           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,625             | 137,007            | 132,619           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,547             | 147,007            | 140,540           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,449             | 157,007            | 148,442           |
| -15,20        | 323,779             | 167,000            | 156,779           | 323,330             | 167,007            | 156,323           |
| -16,20        | 341,771             | 177,000            | 164,771           | 341,189             | 177,007            | 164,182           |
| -16,60        | 348,968             | 181,000            | 167,968           | 348,327             | 181,007            | 167,320           |
| Laag 41       |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,60        | 348,968             | 161,000            | 187,968           | 348,327             | 161,007            | 187,320           |
| -18,08        | 380,130             | 175,847            | 204,284           | 379,243             | 175,853            | 203,389           |
| -19,08        | 401,117             | 185,847            | 215,270           | 400,039             | 185,853            | 214,186           |
| -20,08        | 422,102             | 195,847            | 226,255           | 420,815             | 195,853            | 224,962           |
| -21,08        | 443,083             | 205,847            | 237,237           | 441,571             | 205,853            | 235,717           |
| -22,08        | 464,062             | 215,847            | 248,216           | 462,307             | 215,853            | 246,454           |
| -22,88        | 480,843             | 223,847            | 256,996           | 478,884             | 223,853            | 255,031           |
| -24,37        | 511,980             | 238,693            | 273,287           | 509,620             | 238,700            | 270,920           |
| -26,37        | 553,913             | 258,693            | 295,219           | 550,980             | 258,700            | 292,280           |
| -28,37        | 595,829             | 278,693            | 317,136           | 592,309             | 278,700            | 313,609           |
| -29,17        | 612,591             | 286,693            | 325,897           | 608,838             | 286,700            | 322,138           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,17        | 612,591             | 286,694            | 325,897           | 608,839             | 286,700            | 322,138           |
| -30,30        | 634,554             | 297,987            | 336,567           | 630,482             | 297,993            | 332,488           |
| -31,40        | 655,941             | 308,987            | 346,954           | 651,571             | 308,993            | 342,577           |
| -32,53        | 677,892             | 320,280            | 357,612           | 673,236             | 320,287            | 352,949           |
| -33,63        | 699,268             | 331,280            | 367,988           | 694,355             | 331,286            | 363,068           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,63        | 699,268             | 331,280            | 367,988           | 694,355             | 331,287            | 363,069           |
| -34,66        | 719,885             | 341,627            | 378,259           | 714,756             | 341,633            | 373,123           |
| -35,70        | 740,497             | 351,973            | 388,524           | 735,177             | 351,980            | 383,197           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,70        | 740,498             | 351,974            | 388,524           | 735,177             | 351,980            | 383,197           |
| -37,05        | 768,761             | 365,487            | 403,274           | 763,233             | 365,493            | 397,740           |
| -39,05        | 810,574             | 385,487            | 425,087           | 804,830             | 385,492            | 419,337           |
| -39,85        | 827,293             | 393,487            | 433,806           | 821,494             | 393,492            | 428,002           |
| -44,00        | 913,997             | 435,000            | 478,997           | 908,194             | 435,003            | 473,191           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,997             | 435,000            | 478,997           | 908,194             | 435,004            | 473,191           |
| -46,50        | 966,168             | 460,000            | 506,168           | 960,575             | 460,003            | 500,571           |
| -49,00        | 1018,306            | 485,000            | 533,306           | 1013,059            | 485,003            | 528,056           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,306            | 485,000            | 533,306           | 1013,060            | 485,003            | 528,056           |
| -50,00        | 1037,153            | 495,000            | 542,153           | 1032,077            | 495,002            | 537,075           |
| -51,00        | 1055,994            | 505,000            | 550,994           | 1051,106            | 505,000            | 546,106           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,995            | 505,000            | 550,994           | 1051,106            | 505,000            | 546,106           |
| -52,00        | 1076,831            | 515,000            | 561,831           | 1072,148            | 515,000            | 557,148           |
| -53,00        | 1097,663            | 525,000            | 572,663           | 1093,200            | 525,000            | 568,200           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,663            | 525,000            | 572,663           | 1093,200            | 525,000            | 568,200           |
| -57,00        | 1180,946            | 565,000            | 615,946           | 1177,483            | 565,000            | 612,483           |
| -62,00        | 1284,956            | 615,000            | 669,956           | 1282,931            | 615,000            | 667,931           |
| -67,00        | 1388,875            | 665,000            | 723,875           | 1388,388            | 665,000            | 723,388           |
| -69,00        | 1430,421            | 685,000            | 745,421           | 1430,556            | 685,000            | 745,556           |
| -73,00        | 1513,481            | 725,000            | 788,481           | 1514,847            | 725,000            | 789,847           |
| -78,00        | 1617,255            | 775,000            | 842,255           | 1620,098            | 775,000            | 845,098           |
| -83,00        | 1720,986            | 825,000            | 895,986           | 1725,202            | 825,000            | 900,202           |
| -85,00        | 1762,469            | 845,000            | 917,469           | 1767,200            | 845,000            | 922,200           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| Totaal         | 0,0000  | 0,0000    | 0,0005        | 0,0000                  | 0,0000        | 0,0000                  |

| Diepte |        | Laag<br>nummer | Totale zetting (100% cons.) |                         |                     | Percentage<br>van originele<br>laaghoogte<br>[%] |
|--------|--------|----------------|-----------------------------|-------------------------|---------------------|--------------------------------------------------|
| Van    | Tot    |                | Primair                     | Secundair<br>10 [dagen] | Na<br>10000 [dagen] |                                                  |
| [m]    | [m]    |                | [m]                         | [m]                     | [m]                 |                                                  |
| -2,80  | -4,00  | 43             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -4,00  | -16,60 | 42             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -16,60 | -29,17 | 41             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -29,17 | -33,63 | 40             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -33,63 | -35,70 | 39             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -35,70 | -44,00 | 38             | 0,0002                      | 0,0000                  | 0,0003              | 0,00                                             |
| -44,00 | -49,00 | 37             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -49,00 | -51,00 | 36             | 0,0002                      | 0,0000                  | 0,0003              | 0,02                                             |
| -51,00 | -53,00 | 35             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -53,00 | -85,00 | 1              | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| Totaal |        |                | 0,0005                      | 0,0000                  | 0,0007              |                                                  |

### 3.22 Resultaat voor Verticaal 22 (X = 113,40 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,206             | 43,006             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,706             | 44,006             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,206             | 45,006             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,706             | 46,006             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,206             | 47,006             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,706             | 48,006             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,206             | 49,006             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,706             | 50,006             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,206             | 51,006             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,706             | 52,006             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,206             | 53,006             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,006             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,006             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,405             | 64,006             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,403             | 74,006             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,398             | 84,006             | 90,392            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,387             | 94,006             | 98,381            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,369             | 104,006            | 106,363           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,339             | 114,006            | 114,334           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,524             | 118,006            | 117,518           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,682             | 127,006            | 124,676           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,619             | 137,006            | 132,613           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,537             | 147,006            | 140,531           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,435             | 157,006            | 148,430           |
| -15,20        | 323,779             | 167,000            | 156,779           | 323,312             | 167,006            | 156,306           |
| -16,20        | 341,771             | 177,000            | 164,771           | 341,166             | 177,006            | 164,160           |
| -16,60        | 348,968             | 181,000            | 167,968           | 348,301             | 181,006            | 167,295           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 348,302             | 161,006            | 187,296           |
| -18,09        | 380,306             | 175,930            | 204,376           | 379,381             | 175,936            | 203,444           |
| -19,09        | 401,293             | 185,930            | 215,363           | 400,169             | 185,936            | 214,232           |
| -20,09        | 422,277             | 195,930            | 226,347           | 420,934             | 195,936            | 224,998           |
| -21,09        | 443,259             | 205,930            | 237,329           | 441,679             | 205,936            | 235,743           |
| -22,09        | 464,238             | 215,930            | 248,308           | 462,403             | 215,936            | 246,467           |
| -22,89        | 481,019             | 223,930            | 257,089           | 478,969             | 223,936            | 255,033           |
| -24,39        | 512,332             | 238,861            | 273,471           | 509,857             | 238,867            | 270,990           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -26,39        | 554,264             | 258,861            | 295,404           | 551,183             | 258,867            | 292,317           |
| -28,39        | 596,181             | 278,861            | 317,320           | 592,473             | 278,867            | 313,607           |
| -29,19        | 612,943             | 286,861            | 326,082           | 608,986             | 286,867            | 322,119           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,19        | 612,943             | 286,861            | 326,082           | 608,986             | 286,867            | 322,119           |
| -30,33        | 635,123             | 298,265            | 336,858           | 630,816             | 298,271            | 332,545           |
| -31,43        | 656,510             | 309,265            | 347,245           | 651,879             | 309,271            | 342,608           |
| -32,57        | 678,678             | 320,670            | 358,008           | 673,728             | 320,676            | 353,052           |
| -33,67        | 700,054             | 331,670            | 368,384           | 694,818             | 331,676            | 363,142           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,67        | 700,054             | 331,670            | 368,384           | 694,818             | 331,676            | 363,143           |
| -34,71        | 720,838             | 342,100            | 378,738           | 715,355             | 342,106            | 373,249           |
| -35,75        | 741,617             | 352,531            | 389,086           | 735,913             | 352,536            | 383,376           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,75        | 741,617             | 352,531            | 389,086           | 735,913             | 352,536            | 383,376           |
| -37,08        | 769,298             | 365,765            | 403,533           | 763,353             | 365,771            | 397,582           |
| -39,08        | 811,112             | 385,765            | 425,346           | 804,894             | 385,770            | 419,124           |
| -39,88        | 827,831             | 393,765            | 434,066           | 821,537             | 393,770            | 427,767           |
| -44,00        | 913,956             | 435,000            | 478,956           | 907,564             | 435,003            | 472,561           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,956             | 435,000            | 478,956           | 907,564             | 435,003            | 472,561           |
| -46,50        | 966,128             | 460,000            | 506,128           | 959,910             | 460,003            | 499,907           |
| -49,00        | 1018,269            | 485,000            | 533,269           | 1012,381            | 485,003            | 527,378           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,269            | 485,000            | 533,269           | 1012,381            | 485,003            | 527,378           |
| -50,00        | 1037,116            | 495,000            | 542,116           | 1031,399            | 495,002            | 536,398           |
| -51,00        | 1055,959            | 505,000            | 550,959           | 1050,433            | 505,000            | 545,433           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,959            | 505,000            | 550,959           | 1050,434            | 505,000            | 545,433           |
| -52,00        | 1076,797            | 515,000            | 561,797           | 1071,484            | 515,000            | 556,484           |
| -53,00        | 1097,630            | 525,000            | 572,630           | 1092,548            | 525,000            | 567,548           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,630            | 525,000            | 572,630           | 1092,548            | 525,000            | 567,548           |
| -57,00        | 1180,917            | 565,000            | 615,917           | 1176,914            | 565,000            | 611,914           |
| -62,00        | 1284,933            | 615,000            | 669,933           | 1282,533            | 615,000            | 667,533           |
| -67,00        | 1388,859            | 665,000            | 723,859           | 1388,213            | 665,000            | 723,213           |
| -69,00        | 1430,408            | 685,000            | 745,408           | 1430,479            | 685,000            | 745,479           |
| -73,00        | 1513,473            | 725,000            | 788,473           | 1514,970            | 725,000            | 789,970           |
| -78,00        | 1617,255            | 775,000            | 842,255           | 1620,469            | 775,000            | 845,469           |
| -83,00        | 1720,993            | 825,000            | 895,993           | 1725,803            | 825,000            | 900,803           |
| -85,00        | 1762,479            | 845,000            | 917,479           | 1767,884            | 845,000            | 922,884           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 36             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 35             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 1              | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| Totaal         | 0,0000  | 0,0000    | 0,0005        | 0,0000                  | 0,0000        | 0,0000                  |

| Diepte |        | Laag<br>nummer | Totale zetting (100% cons.) |                         |                     | Percentage<br>van originele<br>laaghoogte<br>[%] |
|--------|--------|----------------|-----------------------------|-------------------------|---------------------|--------------------------------------------------|
| Van    | Tot    |                | Primair                     | Secundair<br>10 [dagen] | Na<br>10000 [dagen] |                                                  |
| [m]    | [m]    |                | [m]                         | [m]                     | [m]                 |                                                  |
| -2,80  | -4,00  | 43             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -4,00  | -16,60 | 42             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -16,60  | -29,19  | 41          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -29,19  | -33,67  | 40          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -33,67  | -35,75  | 39          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -35,75  | -44,00  | 38          | 0,0002                      | 0,0000                   | 0,0003               | 0,00                                    |
| -44,00  | -49,00  | 37          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -49,00  | -51,00  | 36          | 0,0002                      | 0,0000                   | 0,0003               | 0,01                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0005                      | 0,0000                   | 0,0006               |                                         |

### 3.23 Resultaat voor Verticaal 23 (X = 117,30 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,206          | 43,006          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,705          | 44,005          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,205          | 45,005          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,705          | 46,005          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,205          | 47,005          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,705          | 48,005          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,205          | 49,005          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,705          | 50,005          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,205          | 51,005          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,705          | 52,005          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,205          | 53,005          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,205          | 55,005          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,206          | 55,006          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,405          | 64,005          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,403          | 74,005          | 82,397         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,397          | 84,005          | 90,392         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,386          | 94,005          | 98,381         |
| -8,90      | 210,399           | 104,000         | 106,399        | 210,367          | 104,005         | 106,362        |
| -9,90      | 228,398           | 114,000         | 114,398        | 228,337          | 114,005         | 114,332        |
| -10,30     | 235,597           | 118,000         | 117,597        | 235,521          | 118,005         | 117,516        |
| -11,20     | 251,795           | 127,000         | 124,795        | 251,677          | 127,005         | 124,672        |
| -12,20     | 269,793           | 137,000         | 132,793        | 269,612          | 137,005         | 132,607        |
| -13,20     | 287,789           | 147,000         | 140,789        | 287,528          | 147,005         | 140,523        |
| -14,20     | 305,785           | 157,000         | 148,785        | 305,423          | 157,005         | 148,418        |
| -15,20     | 323,779           | 167,000         | 156,779        | 323,295          | 167,005         | 156,290        |
| -16,20     | 341,771           | 177,000         | 164,771        | 341,144          | 177,005         | 164,139        |
| -16,60     | 348,968           | 181,000         | 167,968        | 348,277          | 181,005         | 167,272        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,968           | 161,000         | 187,968        | 348,278          | 161,006         | 187,272        |
| -18,10     | 380,394           | 175,972         | 204,422        | 379,434          | 175,978         | 203,456        |
| -19,10     | 401,381           | 185,972         | 215,409        | 400,214          | 185,978         | 214,236        |
| -20,10     | 422,365           | 195,972         | 226,393        | 420,971          | 195,978         | 224,993        |
| -21,10     | 443,347           | 205,972         | 237,375        | 441,705          | 205,978         | 235,728        |
| -22,10     | 464,326           | 215,972         | 248,354        | 462,419          | 215,978         | 246,442        |
| -22,90     | 481,107           | 223,972         | 257,135        | 478,976          | 223,978         | 254,999        |
| -24,39     | 512,507           | 238,944         | 273,563        | 509,932          | 238,950         | 270,982        |
| -26,39     | 554,440           | 258,944         | 295,496        | 551,231          | 258,950         | 292,281        |
| -28,39     | 596,357           | 278,944         | 317,412        | 592,491          | 278,950         | 313,542        |
| -29,19     | 613,119           | 286,944         | 326,174        | 608,991          | 286,950         | 322,041        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,19     | 613,119           | 286,944         | 326,174        | 608,991          | 286,950         | 322,041        |
| -30,34     | 635,407           | 298,405         | 337,002        | 630,910          | 298,410         | 332,500        |
| -31,44     | 656,794           | 309,405         | 347,389        | 651,954          | 309,410         | 342,544        |
| -32,59     | 679,070           | 320,865         | 358,205        | 673,891          | 320,870         | 353,021        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -33,69        | 700,446             | 331,865            | 368,581           | 694,963             | 331,870            | 363,092           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,69        | 700,446             | 331,865            | 368,581           | 694,963             | 331,870            | 363,092           |
| -34,73        | 721,313             | 342,337            | 378,976           | 715,565             | 342,342            | 373,223           |
| -35,78        | 742,176             | 352,809            | 389,366           | 736,188             | 352,815            | 383,374           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,78        | 742,176             | 352,809            | 389,366           | 736,189             | 352,815            | 383,374           |
| -37,09        | 769,565             | 365,905            | 403,661           | 763,320             | 365,910            | 397,410           |
| -39,09        | 811,379             | 385,905            | 425,474           | 804,836             | 385,909            | 418,926           |
| -39,89        | 828,099             | 393,905            | 434,194           | 821,470             | 393,909            | 427,561           |
| -44,00        | 913,933             | 435,000            | 478,933           | 907,180             | 435,003            | 472,177           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,933             | 435,000            | 478,933           | 907,180             | 435,003            | 472,177           |
| -46,50        | 966,105             | 460,000            | 506,105           | 959,528             | 460,003            | 499,525           |
| -49,00        | 1018,246            | 485,000            | 533,246           | 1012,017            | 485,003            | 527,015           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,247            | 485,000            | 533,247           | 1012,018            | 485,003            | 527,015           |
| -50,00        | 1037,094            | 495,000            | 542,094           | 1031,047            | 495,001            | 536,046           |
| -51,00        | 1055,937            | 505,000            | 550,937           | 1050,095            | 505,000            | 545,095           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,937            | 505,000            | 550,937           | 1050,096            | 505,000            | 545,095           |
| -52,00        | 1076,775            | 515,000            | 561,775           | 1071,162            | 515,000            | 556,162           |
| -53,00        | 1097,608            | 525,000            | 572,608           | 1092,244            | 525,000            | 567,244           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,608            | 525,000            | 572,608           | 1092,244            | 525,000            | 567,244           |
| -57,00        | 1180,896            | 565,000            | 615,896           | 1176,702            | 565,000            | 611,702           |
| -62,00        | 1284,913            | 615,000            | 669,913           | 1282,467            | 615,000            | 667,467           |
| -67,00        | 1388,841            | 665,000            | 723,841           | 1388,309            | 665,000            | 723,309           |
| -69,00        | 1430,390            | 685,000            | 745,390           | 1430,640            | 685,000            | 745,640           |
| -73,00        | 1513,457            | 725,000            | 788,457           | 1515,257            | 725,000            | 790,257           |
| -78,00        | 1617,240            | 775,000            | 842,240           | 1620,900            | 775,000            | 845,900           |
| -83,00        | 1720,980            | 825,000            | 895,980           | 1726,355            | 825,000            | 901,355           |
| -85,00        | 1762,467            | 845,000            | 917,467           | 1768,478            | 845,000            | 923,478           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 36             | 0,0000  | 0,0000    | 0,0002        | 0,0000                  | 0,0000        | 0,0000                  |
| 35             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 1              | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| Totaal         | 0,0000  | 0,0000    | 0,0004        | 0,0000                  | 0,0000        | 0,0000                  |

| Diepte |        | Laag<br>nummer | Totale zetting (100% cons.) |                         |                     | Percentage<br>van originele<br>laaghoogte<br>[%] |
|--------|--------|----------------|-----------------------------|-------------------------|---------------------|--------------------------------------------------|
| Van    | Tot    |                | Primair                     | Secundair<br>10 [dagen] | Na<br>10000 [dagen] |                                                  |
| [m]    | [m]    |                | [m]                         | [m]                     | [m]                 |                                                  |
| -2,80  | -4,00  | 43             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -4,00  | -16,60 | 42             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -16,60 | -29,19 | 41             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -29,19 | -33,69 | 40             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -33,69 | -35,78 | 39             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -35,78 | -44,00 | 38             | 0,0002                      | 0,0000                  | 0,0002              | 0,00                                             |
| -44,00 | -49,00 | 37             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -49,00 | -51,00 | 36             | 0,0002                      | 0,0000                  | 0,0003              | 0,01                                             |
| -51,00 | -53,00 | 35             | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |
| -53,00 | -85,00 | 1              | 0,0000                      | 0,0000                  | 0,0000              | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| Totaal  |         |             | 0,0004                      | 0,0000                   | 0,0005               |                                         |

### 3.24 Resultaat voor Verticaal 24 (X = 121,20 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,205          | 43,005          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,705          | 44,005          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,205          | 45,005          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,705          | 46,005          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,205          | 47,005          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,705          | 48,005          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,205          | 49,005          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,705          | 50,005          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,205          | 51,005          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,705          | 52,005          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,205          | 53,005          | 66,200         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,205          | 55,005          | 67,200         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,205          | 55,005          | 67,200         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,404          | 64,005          | 74,399         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,402          | 74,005          | 82,397         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,396          | 84,005          | 90,391         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,385          | 94,005          | 98,380         |
| -8,90      | 210,399           | 104,000         | 106,399        | 210,365          | 104,005         | 106,360        |
| -9,90      | 228,398           | 114,000         | 114,398        | 228,333          | 114,005         | 114,328        |
| -10,30     | 235,597           | 118,000         | 117,597        | 235,517          | 118,005         | 117,512        |
| -11,20     | 251,795           | 127,000         | 124,795        | 251,670          | 127,005         | 124,665        |
| -12,20     | 269,793           | 137,000         | 132,793        | 269,602          | 137,005         | 132,597        |
| -13,20     | 287,789           | 147,000         | 140,789        | 287,513          | 147,005         | 140,508        |
| -14,20     | 305,785           | 157,000         | 148,785        | 305,403          | 157,005         | 148,398        |
| -15,20     | 323,779           | 167,000         | 156,779        | 323,268          | 167,005         | 156,263        |
| -16,20     | 341,771           | 177,000         | 164,771        | 341,109          | 177,005         | 164,104        |
| -16,60     | 348,968           | 181,000         | 167,968        | 348,239          | 181,005         | 167,234        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,968           | 161,000         | 187,968        | 348,239          | 161,005         | 187,234        |
| -18,10     | 380,482           | 176,014         | 204,468        | 379,466          | 176,019         | 203,447        |
| -19,10     | 401,468           | 186,014         | 215,454        | 400,234          | 186,019         | 214,215        |
| -20,10     | 422,453           | 196,014         | 226,439        | 420,978          | 196,019         | 224,959        |
| -21,10     | 443,435           | 206,014         | 237,421        | 441,698          | 206,019         | 235,679        |
| -22,10     | 464,414           | 216,014         | 248,400        | 462,396          | 216,019         | 246,377        |
| -22,90     | 481,195           | 224,014         | 257,181        | 478,939          | 224,019         | 254,920        |
| -24,40     | 512,683           | 239,028         | 273,655        | 509,955          | 239,033         | 270,922        |
| -26,40     | 554,615           | 259,028         | 295,587        | 551,215          | 259,033         | 292,182        |
| -28,40     | 596,532           | 279,028         | 317,504        | 592,436          | 279,033         | 313,403        |
| -29,20     | 613,294           | 287,028         | 326,266        | 608,920          | 287,033         | 321,887        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,20     | 613,294           | 287,028         | 326,266        | 608,920          | 287,033         | 321,887        |
| -30,35     | 635,690           | 298,544         | 337,146        | 630,922          | 298,549         | 332,373        |
| -31,45     | 657,078           | 309,544         | 347,534        | 651,944          | 309,549         | 342,395        |
| -32,61     | 679,462           | 321,060         | 358,402        | 673,966          | 321,065         | 352,901        |
| -33,71     | 700,837           | 332,060         | 368,777        | 695,018          | 332,065         | 362,953        |
| Laag 39    |                   |                 |                |                  |                 |                |
| -33,71     | 700,837           | 332,060         | 368,777        | 695,018          | 332,065         | 362,953        |
| -34,76     | 721,788           | 342,574         | 379,214        | 715,685          | 342,579         | 373,106        |
| -35,81     | 742,734           | 353,088         | 389,646        | 736,375          | 353,093         | 383,282        |
| Laag 38    |                   |                 |                |                  |                 |                |
| -35,81     | 742,734           | 353,088         | 389,646        | 736,375          | 353,093         | 383,282        |
| -37,10     | 769,832           | 366,044         | 403,788        | 763,202          | 366,049         | 397,153        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -39,10        | 811,645             | 386,044            | 425,601           | 804,699             | 386,048            | 418,651           |
| -39,90        | 828,365             | 394,044            | 434,321           | 821,329             | 394,048            | 427,281           |
| -44,00        | 913,908             | 435,000            | 478,908           | 906,755             | 435,003            | 471,752           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,908             | 435,000            | 478,908           | 906,755             | 435,003            | 471,752           |
| -46,50        | 966,081             | 460,000            | 506,081           | 959,133             | 460,003            | 499,130           |
| -49,00        | 1018,222            | 485,000            | 533,222           | 1011,670            | 485,003            | 526,667           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,222            | 485,000            | 533,222           | 1011,670            | 485,003            | 526,668           |
| -50,00        | 1037,069            | 495,000            | 542,069           | 1030,724            | 495,001            | 535,723           |
| -51,00        | 1055,912            | 505,000            | 550,912           | 1049,799            | 505,000            | 544,799           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,913            | 505,000            | 550,912           | 1049,799            | 505,000            | 544,799           |
| -52,00        | 1076,750            | 515,000            | 561,750           | 1070,894            | 515,000            | 555,894           |
| -53,00        | 1097,584            | 525,000            | 572,584           | 1092,007            | 525,000            | 567,007           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,584            | 525,000            | 572,584           | 1092,008            | 525,000            | 567,007           |
| -57,00        | 1180,872            | 565,000            | 615,872           | 1176,606            | 565,000            | 611,606           |
| -62,00        | 1284,889            | 615,000            | 669,889           | 1282,570            | 615,000            | 667,570           |
| -67,00        | 1388,817            | 665,000            | 723,817           | 1388,612            | 665,000            | 723,612           |
| -69,00        | 1430,367            | 685,000            | 745,367           | 1431,019            | 685,000            | 746,019           |
| -73,00        | 1513,434            | 725,000            | 788,434           | 1515,777            | 725,000            | 790,777           |
| -78,00        | 1617,217            | 775,000            | 842,217           | 1621,570            | 775,000            | 846,570           |
| -83,00        | 1720,957            | 825,000            | 895,957           | 1727,143            | 825,000            | 902,143           |
| -85,00        | 1762,444            | 845,000            | 917,444           | 1769,304            | 845,000            | 924,304           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,20     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,20     | -33,71     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,71     | -35,81     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,81     | -44,00     | 38             | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0004                      | 0,0000                         | 0,0005                     |                                                  |

### 3.25 Resultaat voor Verticaal 25 (X = 125,10 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,205             | 43,005             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,705             | 44,005             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,205             | 45,005             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,705             | 46,005             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,205             | 47,005             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,705             | 48,005             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,205             | 49,005             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,705             | 50,005             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,205             | 51,005             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,705             | 52,005             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,205             | 53,005             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,205             | 55,005             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,205             | 55,005             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,404             | 64,005             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,401             | 74,005             | 82,397            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,395             | 84,005             | 90,391            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,383             | 94,005             | 98,378            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,361             | 104,005            | 106,356           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,327             | 114,005            | 114,322           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,509             | 118,005            | 117,504           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,659             | 127,005            | 124,654           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,584             | 137,005            | 132,580           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,488             | 147,005            | 140,484           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,368             | 157,005            | 148,364           |
| -15,20        | 323,779             | 167,000            | 156,779           | 323,223             | 167,005            | 156,218           |
| -16,20        | 341,771             | 177,000            | 164,771           | 341,050             | 177,005            | 164,046           |
| -16,60        | 348,968             | 181,000            | 167,968           | 348,174             | 181,005            | 167,169           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 348,174             | 161,005            | 187,169           |
| -18,11        | 380,569             | 176,056            | 204,513           | 379,463             | 176,060            | 203,403           |
| -19,11        | 401,556             | 186,056            | 215,500           | 400,212             | 186,060            | 214,151           |
| -20,11        | 422,541             | 196,056            | 226,485           | 420,934             | 196,060            | 224,874           |
| -21,11        | 443,522             | 206,056            | 237,467           | 441,632             | 206,060            | 235,572           |
| -22,11        | 464,501             | 216,056            | 248,446           | 462,306             | 216,060            | 246,246           |
| -22,91        | 481,282             | 224,056            | 257,227           | 478,830             | 224,060            | 254,769           |
| -24,41        | 512,858             | 239,112            | 273,747           | 509,893             | 239,116            | 270,777           |
| -26,41        | 554,790             | 259,112            | 295,679           | 551,100             | 259,116            | 291,984           |
| -28,41        | 596,707             | 279,112            | 317,595           | 592,268             | 279,116            | 313,152           |
| -29,21        | 613,469             | 287,112            | 326,357           | 608,731             | 287,116            | 321,615           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,21        | 613,469             | 287,112            | 326,357           | 608,731             | 287,116            | 321,615           |
| -30,37        | 635,973             | 298,683            | 337,290           | 630,812             | 298,688            | 332,124           |
| -31,47        | 657,361             | 309,683            | 347,677           | 651,810             | 309,688            | 342,122           |
| -32,63        | 679,853             | 321,255            | 358,598           | 673,915             | 321,260            | 352,655           |
| -33,73        | 701,228             | 332,255            | 368,973           | 694,948             | 332,259            | 362,688           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,73        | 701,228             | 332,255            | 368,973           | 694,948             | 332,260            | 362,688           |
| -34,78        | 722,262             | 342,811            | 379,452           | 715,682             | 342,815            | 372,867           |
| -35,84        | 743,291             | 353,367            | 389,924           | 736,444             | 353,371            | 383,073           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,84        | 743,291             | 353,367            | 389,924           | 736,444             | 353,371            | 383,073           |
| -37,12        | 770,097             | 366,183            | 403,914           | 762,974             | 366,188            | 396,787           |
| -39,12        | 811,911             | 386,183            | 425,727           | 804,472             | 386,187            | 418,285           |
| -39,92        | 828,630             | 394,183            | 434,447           | 821,107             | 394,187            | 426,920           |
| -44,00        | 913,881             | 435,000            | 478,881           | 906,307             | 435,002            | 471,305           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,882             | 435,000            | 478,882           | 906,308             | 435,003            | 471,305           |
| -46,50        | 966,054             | 460,000            | 506,054           | 958,757             | 460,002            | 498,755           |
| -49,00        | 1018,195            | 485,000            | 533,195           | 1011,387            | 485,002            | 526,385           |
| Laag 36       |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -49,00        | 1018,195            | 485,000            | 533,195           | 1011,387            | 485,002            | 526,385           |
| -50,00        | 1037,042            | 495,000            | 542,042           | 1030,483            | 495,001            | 535,482           |
| -51,00        | 1055,885            | 505,000            | 550,885           | 1049,602            | 505,000            | 544,602           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,885            | 505,000            | 550,885           | 1049,603            | 505,000            | 544,602           |
| -52,00        | 1076,723            | 515,000            | 561,723           | 1070,744            | 515,000            | 555,744           |
| -53,00        | 1097,556            | 525,000            | 572,556           | 1091,905            | 525,000            | 566,905           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,556            | 525,000            | 572,556           | 1091,905            | 525,000            | 566,905           |
| -57,00        | 1180,844            | 565,000            | 615,844           | 1176,707            | 565,000            | 611,707           |
| -62,00        | 1284,860            | 615,000            | 669,860           | 1282,927            | 615,000            | 667,927           |
| -67,00        | 1388,787            | 665,000            | 723,787           | 1389,207            | 665,000            | 724,207           |
| -69,00        | 1430,336            | 685,000            | 745,336           | 1431,699            | 685,000            | 746,699           |
| -73,00        | 1513,402            | 725,000            | 788,402           | 1516,608            | 725,000            | 791,608           |
| -78,00        | 1617,185            | 775,000            | 842,185           | 1622,549            | 775,000            | 847,549           |
| -83,00        | 1720,924            | 825,000            | 895,924           | 1728,225            | 825,000            | 903,225           |
| -85,00        | 1762,410            | 845,000            | 917,410           | 1770,415            | 845,000            | 925,415           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,21     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,21     | -33,73     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,73     | -35,84     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,84     | -44,00     | 38             | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0004                      | 0,0000                         | 0,0005                     |                                                  |

### 3.26 Resultaat voor Verticaal 26 (X = 129,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,204             | 43,004             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,704             | 44,004             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,204             | 45,004             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,704             | 46,004             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,204             | 47,004             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,704             | 48,004             | 63,700            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,204             | 49,004             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,704             | 50,004             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,204             | 51,004             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,704             | 52,004             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,204             | 53,004             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,403             | 64,004             | 74,399            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,400             | 74,004             | 82,396            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,393             | 84,004             | 90,389            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,378             | 94,004             | 98,374            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,352             | 104,004            | 106,348           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,311             | 114,004            | 114,307           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,490             | 118,004            | 117,486           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,630             | 127,004            | 124,626           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,542             | 137,004            | 132,538           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,428             | 147,004            | 140,424           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,286             | 157,004            | 148,282           |
| -15,20        | 323,779             | 167,000            | 156,779           | 323,115             | 167,004            | 156,111           |
| -16,20        | 341,771             | 177,000            | 164,771           | 340,913             | 177,004            | 163,908           |
| -16,60        | 348,968             | 181,000            | 167,968           | 348,023             | 181,004            | 167,019           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 348,023             | 161,004            | 187,019           |
| -18,11        | 380,677             | 176,107            | 204,570           | 379,365             | 176,111            | 203,254           |
| -19,11        | 401,664             | 186,107            | 215,557           | 400,074             | 186,111            | 213,962           |
| -20,11        | 422,648             | 196,107            | 226,541           | 420,754             | 196,111            | 224,642           |
| -21,11        | 443,630             | 206,107            | 237,523           | 441,407             | 206,111            | 235,295           |
| -22,11        | 464,609             | 216,107            | 248,502           | 462,035             | 216,111            | 245,923           |
| -22,91        | 481,390             | 224,107            | 257,283           | 478,520             | 224,111            | 254,409           |
| -24,42        | 513,074             | 239,215            | 273,859           | 509,618             | 239,219            | 270,399           |
| -26,42        | 555,006             | 259,215            | 295,791           | 550,732             | 259,219            | 291,513           |
| -28,42        | 596,922             | 279,215            | 317,707           | 591,814             | 279,219            | 312,595           |
| -29,22        | 613,684             | 287,215            | 326,469           | 608,247             | 287,219            | 321,028           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,22        | 613,684             | 287,215            | 326,469           | 608,247             | 287,219            | 321,028           |
| -30,39        | 636,321             | 298,855            | 337,467           | 630,419             | 298,859            | 331,560           |
| -31,49        | 657,708             | 309,855            | 347,854           | 651,387             | 309,859            | 341,528           |
| -32,65        | 680,334             | 321,495            | 358,839           | 673,599             | 321,499            | 352,100           |
| -33,75        | 701,709             | 332,495            | 369,214           | 694,618             | 332,499            | 362,119           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,75        | 701,709             | 332,495            | 369,214           | 694,619             | 332,499            | 362,120           |
| -34,81        | 722,845             | 343,102            | 379,743           | 715,450             | 343,106            | 372,344           |
| -35,87        | 743,976             | 353,710            | 390,266           | 736,317             | 353,714            | 382,604           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,87        | 743,976             | 353,710            | 390,266           | 736,318             | 353,714            | 382,604           |
| -37,14        | 770,423             | 366,355            | 404,068           | 762,510             | 366,359            | 396,151           |
| -39,14        | 812,236             | 386,355            | 425,881           | 804,061             | 386,358            | 417,702           |
| -39,94        | 828,955             | 394,355            | 434,600           | 820,725             | 394,358            | 426,367           |
| -44,00        | 913,847             | 435,000            | 478,847           | 905,787             | 435,002            | 470,785           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,847             | 435,000            | 478,847           | 905,787             | 435,002            | 470,785           |
| -46,50        | 966,019             | 460,000            | 506,019           | 958,416             | 460,002            | 498,414           |
| -49,00        | 1018,159            | 485,000            | 533,159           | 1011,249            | 485,002            | 526,247           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,159            | 485,000            | 533,159           | 1011,249            | 485,002            | 526,247           |
| -50,00        | 1037,006            | 495,000            | 542,006           | 1030,431            | 495,001            | 535,430           |
| -51,00        | 1055,848            | 505,000            | 550,848           | 1049,637            | 505,000            | 544,637           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,848            | 505,000            | 550,848           | 1049,637            | 505,000            | 544,637           |
| -52,00        | 1076,685            | 515,000            | 561,685           | 1070,867            | 515,000            | 555,867           |
| -53,00        | 1097,518            | 525,000            | 572,518           | 1092,116            | 525,000            | 567,116           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,518            | 525,000            | 572,518           | 1092,116            | 525,000            | 567,116           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -57,00        | 1180,804            | 565,000            | 615,804           | 1177,268            | 565,000            | 612,268           |
| -62,00        | 1284,818            | 615,000            | 669,818           | 1283,888            | 615,000            | 668,888           |
| -67,00        | 1388,742            | 665,000            | 723,742           | 1390,500            | 665,000            | 725,500           |
| -69,00        | 1430,289            | 685,000            | 745,289           | 1433,103            | 685,000            | 748,103           |
| -73,00        | 1513,353            | 725,000            | 788,353           | 1518,195            | 725,000            | 793,195           |
| -78,00        | 1617,132            | 775,000            | 842,132           | 1624,292            | 775,000            | 849,292           |
| -83,00        | 1720,868            | 825,000            | 895,868           | 1730,054            | 825,000            | 905,054           |
| -85,00        | 1762,353            | 845,000            | 917,353           | 1772,262            | 845,000            | 927,262           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,22     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,22     | -33,75     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,75     | -35,87     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,87     | -44,00     | 38             | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0003                      | 0,0000                         | 0,0004                     |                                                  |

### 3.27 Resultaat voor Verticaal 27 (X = 134,70 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,204             | 43,004             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,704             | 44,004             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,204             | 45,004             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,704             | 46,004             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,204             | 47,004             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,704             | 48,004             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,204             | 49,004             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,704             | 50,004             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,204             | 51,004             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,704             | 52,004             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,204             | 53,004             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,204             | 55,004             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,403             | 64,004             | 74,399            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,399             | 74,004             | 82,395            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,388             | 84,004             | 90,384            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,367             | 94,004             | 98,363            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,331             | 104,004            | 106,327           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,274             | 114,004            | 114,270           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,445             | 118,004            | 117,441           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,563             | 127,004            | 124,559           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,444             | 137,004            | 132,440           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,292             | 147,004            | 140,288           |
| -14,20        | 305,785             | 157,000            | 148,785           | 305,104             | 157,004            | 148,100           |
| -15,20        | 323,779             | 167,000            | 156,779           | 322,879             | 167,004            | 155,875           |
| -16,20        | 341,771             | 177,000            | 164,771           | 340,618             | 177,004            | 163,614           |
| -16,60        | 348,968             | 181,000            | 167,968           | 347,703             | 181,004            | 166,699           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 347,703             | 161,004            | 186,699           |
| -18,12        | 380,785             | 176,159            | 204,626           | 379,050             | 176,163            | 202,887           |
| -19,12        | 401,772             | 186,159            | 215,613           | 399,687             | 186,163            | 213,524           |
| -20,12        | 422,756             | 196,159            | 226,597           | 420,293             | 196,163            | 224,130           |
| -21,12        | 443,738             | 206,159            | 237,579           | 440,871             | 206,163            | 234,708           |
| -22,12        | 464,717             | 216,159            | 248,558           | 461,424             | 216,163            | 245,261           |
| -22,92        | 481,498             | 224,159            | 257,339           | 477,851             | 224,163            | 253,688           |
| -24,43        | 513,289             | 239,317            | 273,971           | 508,946             | 239,321            | 269,625           |
| -26,43        | 555,221             | 259,317            | 295,903           | 549,932             | 259,321            | 290,610           |
| -28,43        | 597,137             | 279,317            | 317,819           | 590,912             | 279,321            | 311,591           |
| -29,23        | 613,898             | 287,317            | 326,581           | 607,314             | 287,321            | 319,993           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,23        | 613,898             | 287,318            | 326,581           | 607,314             | 287,322            | 319,993           |
| -30,40        | 636,669             | 299,026            | 337,643           | 629,585             | 299,030            | 330,554           |
| -31,50        | 658,055             | 310,026            | 348,029           | 650,538             | 310,030            | 340,508           |
| -32,67        | 680,814             | 321,735            | 359,079           | 672,883             | 321,739            | 351,144           |
| -33,77        | 702,188             | 332,735            | 369,453           | 693,923             | 332,739            | 361,184           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,77        | 702,188             | 332,735            | 369,453           | 693,923             | 332,739            | 361,184           |
| -34,84        | 723,426             | 343,394            | 380,033           | 714,892             | 343,398            | 371,494           |
| -35,91        | 744,659             | 354,052            | 390,607           | 735,912             | 354,056            | 381,856           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,91        | 744,659             | 354,053            | 390,607           | 735,913             | 354,056            | 381,856           |
| -37,35        | 774,929             | 368,526            | 406,403           | 765,993             | 368,530            | 397,463           |
| -39,35        | 816,739             | 388,526            | 428,213           | 807,731             | 388,530            | 419,201           |
| -39,95        | 829,278             | 394,526            | 434,752           | 820,291             | 394,530            | 425,762           |
| -44,00        | 913,810             | 435,000            | 478,810           | 905,466             | 435,002            | 470,463           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,810             | 435,000            | 478,810           | 905,466             | 435,002            | 470,464           |
| -46,50        | 965,980             | 460,000            | 505,980           | 958,422             | 460,002            | 498,420           |
| -49,00        | 1018,118            | 485,000            | 533,118           | 1011,590            | 485,002            | 526,588           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,119            | 485,000            | 533,119           | 1011,590            | 485,002            | 526,588           |
| -50,00        | 1036,965            | 495,000            | 541,965           | 1030,904            | 495,001            | 535,903           |
| -51,00        | 1055,807            | 505,000            | 550,807           | 1050,241            | 505,000            | 545,241           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,807            | 505,000            | 550,807           | 1050,242            | 505,000            | 545,241           |
| -52,00        | 1076,643            | 515,000            | 561,643           | 1071,600            | 515,000            | 556,600           |
| -53,00        | 1097,475            | 525,000            | 572,475           | 1092,975            | 525,000            | 567,975           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,475            | 525,000            | 572,475           | 1092,975            | 525,000            | 567,975           |
| -57,00        | 1180,758            | 565,000            | 615,758           | 1178,591            | 565,000            | 613,591           |
| -62,00        | 1284,767            | 615,000            | 669,767           | 1285,687            | 615,000            | 670,687           |
| -67,00        | 1388,686            | 665,000            | 723,686           | 1392,644            | 665,000            | 727,644           |
| -69,00        | 1430,232            | 685,000            | 745,232           | 1435,349            | 685,000            | 750,349           |
| -73,00        | 1513,291            | 725,000            | 788,291           | 1520,589            | 725,000            | 795,589           |
| -78,00        | 1617,065            | 775,000            | 842,065           | 1626,779            | 775,000            | 851,779           |
| -83,00        | 1720,795            | 825,000            | 895,795           | 1732,549            | 825,000            | 907,549           |
| -85,00        | 1762,278            | 845,000            | 917,278           | 1774,740            | 845,000            | 929,740           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38          | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 43          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 42          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,23     | 41          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,23     | -33,77     | 40          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -33,77     | -35,91     | 39          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -35,91     | -44,00     | 38          | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                    |
| -44,00     | -49,00     | 37          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -49,00     | -51,00     | 36          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -51,00     | -53,00     | 35          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,00     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0003                      | 0,0000                         | 0,0004                     |                                         |

### 3.28 Resultaat voor Verticaal 28 (X = 138,60 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,205             | 43,005             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,705             | 44,005             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,205             | 45,005             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,705             | 46,005             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,205             | 47,005             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,705             | 48,005             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,205             | 49,005             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,705             | 50,005             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,205             | 51,005             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,705             | 52,005             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,205             | 53,005             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,205             | 55,005             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,205             | 55,005             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,403             | 64,005             | 74,398            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,396             | 74,005             | 82,391            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,379             | 84,005             | 90,374            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,346             | 94,005             | 98,341            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,289             | 104,005            | 106,284           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,202             | 114,005            | 114,197           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,358             | 118,005            | 117,353           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,435             | 127,005            | 124,431           |
| -12,20        | 269,793             | 137,000            | 132,793           | 269,260             | 137,005            | 132,256           |
| -13,20        | 287,789             | 147,000            | 140,789           | 287,041             | 147,005            | 140,037           |
| -14,20        | 305,785             | 157,000            | 148,785           | 304,777             | 157,005            | 147,773           |
| -15,20        | 323,779             | 167,000            | 156,779           | 322,469             | 167,005            | 155,464           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,20        | 341,771             | 177,000            | 164,771           | 340,117             | 177,005            | 163,112           |
| -16,60        | 348,968             | 181,000            | 167,968           | 347,165             | 181,005            | 166,160           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 347,165             | 161,005            | 186,160           |
| -18,12        | 380,873             | 176,201            | 204,672           | 378,452             | 176,205            | 202,247           |
| -19,12        | 401,859             | 186,201            | 215,659           | 398,993             | 186,205            | 212,787           |
| -20,12        | 422,844             | 196,201            | 226,643           | 419,504             | 196,205            | 223,298           |
| -21,12        | 443,825             | 206,201            | 237,625           | 439,990             | 206,205            | 233,784           |
| -22,12        | 464,804             | 216,201            | 248,603           | 460,456             | 216,205            | 244,250           |
| -22,92        | 481,585             | 224,201            | 257,384           | 476,817             | 224,205            | 252,612           |
| -24,44        | 513,464             | 239,401            | 274,062           | 507,885             | 239,406            | 268,479           |
| -26,44        | 555,395             | 259,401            | 295,994           | 548,751             | 259,406            | 289,345           |
| -28,44        | 597,310             | 279,401            | 317,909           | 589,660             | 279,406            | 310,255           |
| -29,24        | 614,072             | 287,401            | 326,671           | 606,052             | 287,406            | 318,646           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,24        | 614,072             | 287,401            | 326,671           | 606,052             | 287,406            | 318,646           |
| -30,42        | 636,950             | 299,166            | 337,785           | 628,433             | 299,170            | 329,263           |
| -31,52        | 658,337             | 310,166            | 348,171           | 649,415             | 310,170            | 339,245           |
| -32,69        | 681,203             | 321,930            | 359,273           | 671,924             | 321,935            | 349,989           |
| -33,79        | 702,577             | 332,930            | 369,647           | 693,042             | 332,935            | 360,107           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,79        | 702,577             | 332,930            | 369,647           | 693,042             | 332,935            | 360,107           |
| -34,86        | 723,898             | 343,631            | 380,268           | 714,190             | 343,635            | 370,555           |
| -35,93        | 745,214             | 354,331            | 390,882           | 735,410             | 354,336            | 381,074           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,93        | 745,214             | 354,331            | 390,883           | 735,410             | 354,336            | 381,075           |
| -37,37        | 775,192             | 368,666            | 406,526           | 765,383             | 368,670            | 396,712           |
| -39,37        | 817,000             | 388,666            | 428,335           | 807,411             | 388,670            | 418,741           |
| -39,97        | 829,539             | 394,666            | 434,873           | 820,065             | 394,670            | 425,395           |
| -44,00        | 913,777             | 435,000            | 478,777           | 905,605             | 435,003            | 470,601           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,777             | 435,000            | 478,777           | 905,605             | 435,003            | 470,602           |
| -46,50        | 965,946             | 460,000            | 505,946           | 958,967             | 460,003            | 498,964           |
| -49,00        | 1018,083            | 485,000            | 533,083           | 1012,519            | 485,003            | 527,516           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,083            | 485,000            | 533,083           | 1012,520            | 485,003            | 527,516           |
| -50,00        | 1036,929            | 495,000            | 541,929           | 1031,979            | 495,002            | 536,977           |
| -51,00        | 1055,769            | 505,000            | 550,769           | 1051,455            | 505,000            | 546,455           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,770            | 505,000            | 550,769           | 1051,455            | 505,000            | 546,455           |
| -52,00        | 1076,605            | 515,000            | 561,605           | 1072,947            | 515,000            | 557,947           |
| -53,00        | 1097,436            | 525,000            | 572,436           | 1094,449            | 525,000            | 569,449           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,437            | 525,000            | 572,437           | 1094,449            | 525,000            | 569,449           |
| -57,00        | 1180,715            | 565,000            | 615,715           | 1180,508            | 565,000            | 615,508           |
| -62,00        | 1284,720            | 615,000            | 669,720           | 1288,007            | 615,000            | 673,007           |
| -67,00        | 1388,633            | 665,000            | 723,633           | 1395,211            | 665,000            | 730,211           |
| -69,00        | 1430,177            | 685,000            | 745,177           | 1437,977            | 685,000            | 752,977           |
| -73,00        | 1513,231            | 725,000            | 788,231           | 1523,280            | 725,000            | 798,280           |
| -78,00        | 1616,999            | 775,000            | 841,999           | 1629,460            | 775,000            | 854,460           |
| -83,00        | 1720,723            | 825,000            | 895,723           | 1735,147            | 825,000            | 910,147           |
| -85,00        | 1762,204            | 845,000            | 917,204           | 1777,291            | 845,000            | 932,291           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 43             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 42             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 41             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 40             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 39             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 38             | 0,0000  | 0,0000    | 0,0001        | 0,0000                  | 0,0000        | 0,0000                  |
| 37             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 36          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 35          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 43          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 42          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,24     | 41          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,24     | -33,79     | 40          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -33,79     | -35,93     | 39          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -35,93     | -44,00     | 38          | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                    |
| -44,00     | -49,00     | 37          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -49,00     | -51,00     | 36          | 0,0002                      | 0,0000                         | 0,0003                     | 0,01                                    |
| -51,00     | -53,00     | 35          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,00     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0004                      | 0,0000                         | 0,0005                     |                                         |

### 3.29 Resultaat voor Verticaal 29 (X = 142,50 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,207             | 43,007             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,706             | 44,006             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,206             | 45,006             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,706             | 46,006             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,206             | 47,006             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,706             | 48,006             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,206             | 49,006             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,706             | 50,006             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,206             | 51,006             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,706             | 52,006             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,206             | 53,006             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,006             | 67,200            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,206             | 55,007             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,403             | 64,006             | 74,396            |
| -5,90         | 156,400             | 74,000             | 82,400            | 156,389             | 74,006             | 82,382            |
| -6,90         | 174,400             | 84,000             | 90,400            | 174,354             | 84,006             | 90,347            |
| -7,90         | 192,399             | 94,000             | 98,399            | 192,288             | 94,006             | 98,281            |
| -8,90         | 210,399             | 104,000            | 106,399           | 210,179             | 104,006            | 106,172           |
| -9,90         | 228,398             | 114,000            | 114,398           | 228,018             | 114,006            | 114,012           |
| -10,30        | 235,597             | 118,000            | 117,597           | 235,138             | 118,006            | 117,132           |
| -11,20        | 251,795             | 127,000            | 124,795           | 251,123             | 127,006            | 124,117           |
| -12,20        | 269,793             | 137,000            | 132,793           | 268,827             | 137,006            | 131,821           |
| -13,20        | 287,789             | 147,000            | 140,789           | 286,471             | 147,006            | 139,465           |
| -14,20        | 305,785             | 157,000            | 148,785           | 304,059             | 157,006            | 147,053           |
| -15,20        | 323,778             | 167,000            | 156,778           | 321,596             | 167,006            | 154,590           |
| -16,20        | 341,771             | 177,000            | 164,771           | 339,088             | 177,006            | 162,082           |
| -16,60        | 348,967             | 181,000            | 167,967           | 346,074             | 181,006            | 165,067           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,968             | 161,000            | 187,968           | 346,074             | 161,007            | 185,067           |
| -18,12        | 380,960             | 176,242            | 204,718           | 377,218             | 176,249            | 200,969           |
| -19,12        | 401,947             | 186,242            | 215,704           | 397,618             | 186,249            | 211,369           |
| -20,12        | 422,931             | 196,242            | 226,689           | 418,000             | 196,249            | 221,751           |
| -21,12        | 443,913             | 206,242            | 237,670           | 438,369             | 206,249            | 232,120           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -22,12        | 464,891             | 216,242            | 248,649           | 458,731             | 216,249            | 242,482           |
| -22,92        | 481,672             | 224,242            | 257,429           | 475,019             | 224,249            | 250,770           |
| -24,45        | 513,638             | 239,485            | 274,153           | 506,058             | 239,491            | 266,566           |
| -26,45        | 555,569             | 259,485            | 296,084           | 546,834             | 259,491            | 287,343           |
| -28,45        | 597,484             | 279,485            | 317,999           | 587,747             | 279,491            | 308,255           |
| -29,25        | 614,245             | 287,485            | 326,760           | 604,172             | 287,491            | 316,681           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,25        | 614,245             | 287,485            | 326,760           | 604,172             | 287,491            | 316,681           |
| -30,43        | 637,232             | 299,305            | 337,927           | 626,748             | 299,311            | 327,437           |
| -31,53        | 658,617             | 310,305            | 348,313           | 647,854             | 310,311            | 337,543           |
| -32,71        | 681,591             | 322,125            | 359,466           | 670,645             | 322,131            | 348,514           |
| -33,81        | 702,965             | 333,125            | 369,840           | 691,961             | 333,131            | 358,830           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,81        | 702,965             | 333,125            | 369,840           | 691,961             | 333,131            | 358,830           |
| -34,89        | 724,369             | 343,867            | 380,501           | 713,412             | 343,874            | 369,538           |
| -35,96        | 745,767             | 354,610            | 391,157           | 734,955             | 354,616            | 380,339           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,96        | 745,767             | 354,610            | 391,157           | 734,955             | 354,616            | 380,339           |
| -37,38        | 775,453             | 368,805            | 406,648           | 764,974             | 368,811            | 396,163           |
| -39,38        | 817,260             | 388,805            | 428,455           | 807,497             | 388,811            | 418,687           |
| -39,98        | 829,798             | 394,805            | 434,993           | 820,300             | 394,811            | 425,490           |
| -44,00        | 913,743             | 435,000            | 478,743           | 906,503             | 435,005            | 471,499           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,743             | 435,000            | 478,743           | 906,504             | 435,005            | 471,499           |
| -46,50        | 965,910             | 460,000            | 505,910           | 960,399             | 460,005            | 500,394           |
| -49,00        | 1018,044            | 485,000            | 533,044           | 1014,422            | 485,005            | 529,417           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,044            | 485,000            | 533,044           | 1014,422            | 485,005            | 529,417           |
| -50,00        | 1036,889            | 495,000            | 541,889           | 1034,050            | 495,003            | 539,048           |
| -51,00        | 1055,729            | 505,000            | 550,729           | 1053,686            | 505,000            | 548,685           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,729            | 505,000            | 550,729           | 1053,686            | 505,000            | 548,685           |
| -52,00        | 1076,564            | 515,000            | 561,564           | 1075,327            | 515,000            | 560,326           |
| -53,00        | 1097,394            | 525,000            | 572,394           | 1096,968            | 525,000            | 571,968           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,394            | 525,000            | 572,394           | 1096,968            | 525,000            | 571,968           |
| -57,00        | 1180,668            | 565,000            | 615,668           | 1183,481            | 565,000            | 618,481           |
| -62,00        | 1284,666            | 615,000            | 669,666           | 1291,339            | 615,000            | 676,339           |
| -67,00        | 1388,572            | 665,000            | 723,572           | 1398,704            | 665,000            | 733,704           |
| -69,00        | 1430,113            | 685,000            | 745,113           | 1441,488            | 685,000            | 756,488           |
| -73,00        | 1513,162            | 725,000            | 788,162           | 1526,765            | 725,000            | 801,765           |
| -78,00        | 1616,922            | 775,000            | 841,922           | 1632,823            | 775,000            | 857,823           |
| -83,00        | 1720,638            | 825,000            | 895,638           | 1738,318            | 825,000            | 913,318           |
| -85,00        | 1762,116            | 845,000            | 917,116           | 1780,372            | 845,000            | 935,372           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -2,80   | -4,00   | 43          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -4,00   | -16,60  | 42          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -16,60  | -29,25  | 41          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -29,25  | -33,81  | 40          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -33,81  | -35,96  | 39          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -35,96  | -44,00  | 38          | 0,0001                      | 0,0000                   | 0,0002               | 0,00                                    |
| -44,00  | -49,00  | 37          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -49,00  | -51,00  | 36          | 0,0004                      | 0,0000                   | 0,0004               | 0,02                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0005                      | 0,0000                   | 0,0006               |                                         |

### 3.30 Resultaat voor Verticaal 30 (X = 146,40 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,210          | 43,010          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,710          | 44,010          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,210          | 45,010          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,710          | 46,010          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,210          | 47,010          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,709          | 48,010          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,209          | 49,010          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,709          | 50,010          | 64,700         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,209          | 51,010          | 65,200         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,709          | 52,010          | 65,700         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,209          | 53,010          | 66,199         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,010          | 67,199         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,208          | 55,010          | 67,199         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,398          | 64,010          | 74,389         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,358          | 74,010          | 82,349         |
| -6,90      | 174,400           | 84,000          | 90,400         | 174,265          | 84,010          | 90,256         |
| -7,90      | 192,399           | 94,000          | 98,399         | 192,096          | 94,010          | 98,086         |
| -8,90      | 210,399           | 104,000         | 106,399        | 209,834          | 104,010         | 105,825        |
| -9,90      | 228,398           | 114,000         | 114,398        | 227,475          | 114,010         | 113,466        |
| -10,30     | 235,597           | 118,000         | 117,597        | 234,504          | 118,010         | 116,495        |
| -11,20     | 251,795           | 127,000         | 124,795        | 250,267          | 127,010         | 123,257        |
| -12,20     | 269,793           | 137,000         | 132,793        | 267,703          | 137,010         | 130,693        |
| -13,20     | 287,789           | 147,000         | 140,789        | 285,070          | 147,010         | 138,061        |
| -14,20     | 305,784           | 157,000         | 148,784        | 302,385          | 157,010         | 145,375        |
| -15,20     | 323,778           | 167,000         | 156,778        | 319,661          | 167,010         | 152,652        |
| -16,20     | 341,771           | 177,000         | 164,771        | 336,913          | 177,010         | 159,904        |
| -16,60     | 348,967           | 181,000         | 167,967        | 343,810          | 181,010         | 162,800        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,967           | 161,000         | 187,967        | 343,810          | 161,010         | 182,801        |
| -18,13     | 381,048           | 176,284         | 204,763        | 374,739          | 176,294         | 198,445        |
| -19,13     | 402,034           | 186,284         | 215,750        | 394,978          | 186,294         | 208,685        |
| -20,13     | 423,018           | 196,284         | 226,734        | 415,227          | 196,294         | 218,933        |
| -21,13     | 444,000           | 206,284         | 237,715        | 435,490          | 206,294         | 229,197        |
| -22,13     | 464,978           | 216,284         | 248,694        | 455,771          | 216,294         | 239,478        |
| -22,93     | 481,759           | 224,284         | 257,474        | 472,011          | 224,294         | 247,718        |
| -24,46     | 513,812           | 239,568         | 274,244        | 503,088          | 239,578         | 263,510        |
| -26,46     | 555,743           | 259,568         | 296,174        | 543,910          | 259,578         | 284,332        |
| -28,46     | 597,657           | 279,568         | 318,089        | 585,056          | 279,578         | 305,478        |
| -29,26     | 614,418           | 287,568         | 326,849        | 601,639          | 287,578         | 314,061        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,26     | 614,418           | 287,568         | 326,850        | 601,639          | 287,578         | 314,061        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -30,44        | 637,512             | 299,444            | 338,068           | 624,623             | 299,454            | 325,170           |
| -31,54        | 658,897             | 310,444            | 348,453           | 646,072             | 310,454            | 335,618           |
| -32,73        | 681,979             | 322,320            | 359,659           | 669,391             | 322,329            | 347,061           |
| -33,83        | 703,352             | 333,320            | 370,032           | 691,126             | 333,329            | 357,797           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,83        | 703,352             | 333,320            | 370,032           | 691,127             | 333,330            | 357,797           |
| -34,91        | 724,838             | 344,104            | 380,734           | 713,086             | 344,114            | 368,973           |
| -35,99        | 746,319             | 354,888            | 391,431           | 735,140             | 354,898            | 380,243           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -35,99        | 746,319             | 354,888            | 391,431           | 735,141             | 354,898            | 380,243           |
| -37,39        | 775,713             | 368,944            | 406,768           | 765,409             | 368,953            | 396,456           |
| -39,39        | 817,518             | 388,944            | 428,574           | 808,660             | 388,953            | 419,707           |
| -39,99        | 830,056             | 394,944            | 435,112           | 821,669             | 394,953            | 426,715           |
| -44,00        | 913,706             | 435,000            | 478,706           | 908,772             | 435,008            | 473,764           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,706             | 435,000            | 478,706           | 908,772             | 435,008            | 473,764           |
| -46,50        | 965,870             | 460,000            | 505,870           | 963,269             | 460,008            | 503,262           |
| -49,00        | 1018,002            | 485,000            | 533,002           | 1017,791            | 485,007            | 532,784           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1018,002            | 485,000            | 533,002           | 1017,792            | 485,008            | 532,784           |
| -50,00        | 1036,845            | 495,000            | 541,845           | 1037,591            | 495,004            | 542,587           |
| -51,00        | 1055,684            | 505,000            | 550,684           | 1057,383            | 505,000            | 552,383           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,684            | 505,000            | 550,684           | 1057,383            | 505,000            | 552,383           |
| -52,00        | 1076,517            | 515,000            | 561,517           | 1079,168            | 515,000            | 564,168           |
| -53,00        | 1097,346            | 525,000            | 572,346           | 1100,939            | 525,000            | 575,939           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,346            | 525,000            | 572,346           | 1100,939            | 525,000            | 575,939           |
| -57,00        | 1180,615            | 565,000            | 615,615           | 1187,841            | 565,000            | 622,841           |
| -62,00        | 1284,605            | 615,000            | 669,605           | 1295,929            | 615,000            | 680,929           |
| -67,00        | 1388,503            | 665,000            | 723,503           | 1403,299            | 665,000            | 738,299           |
| -69,00        | 1430,040            | 685,000            | 745,040           | 1446,037            | 685,000            | 761,037           |
| -73,00        | 1513,081            | 725,000            | 788,081           | 1531,159            | 725,000            | 806,159           |
| -78,00        | 1616,832            | 775,000            | 841,832           | 1636,938            | 775,000            | 861,938           |
| -83,00        | 1720,540            | 825,000            | 895,540           | 1742,102            | 825,000            | 917,102           |
| -85,00        | 1762,014            | 845,000            | 917,014           | 1784,017            | 845,000            | 939,017           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0008         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,26     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,26     | -33,83     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,83     | -35,99     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -35,99     | -44,00     | 38             | 0,0001                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -44,00     | -49,00     | 37             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |

| Diepte  |         | Laag nummer | Totale zetting (100% cons.) |                          |                      | Percentage van originele laaghoogte [%] |
|---------|---------|-------------|-----------------------------|--------------------------|----------------------|-----------------------------------------|
| Van [m] | Tot [m] |             | Primair [m]                 | Secundair 10 [dagen] [m] | Na 10000 [dagen] [m] |                                         |
| -49,00  | -51,00  | 36          | 0,0006                      | 0,0000                   | 0,0007               | 0,04                                    |
| -51,00  | -53,00  | 35          | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| -53,00  | -85,00  | 1           | 0,0000                      | 0,0000                   | 0,0000               | 0,00                                    |
| Totaal  |         |             | 0,0008                      | 0,0000                   | 0,0010               |                                         |

### 3.31 Resultaat voor Verticaal 31 (X = 150,30 m; Z = -61,49 m)

| Diepte [m] | Initiële spanning |                 |                | Eindspanning     |                 |                |
|------------|-------------------|-----------------|----------------|------------------|-----------------|----------------|
|            | S-totaal [kN/m²]  | S-water [kN/m²] | S-eff. [kN/m²] | S-totaal [kN/m²] | S-water [kN/m²] | S-eff. [kN/m²] |
| Laag 43    |                   |                 |                |                  |                 |                |
| -2,80      | 104,200           | 43,000          | 61,200         | 104,218          | 43,018          | 61,200         |
| -2,90      | 105,700           | 44,000          | 61,700         | 105,718          | 44,018          | 61,700         |
| -3,00      | 107,200           | 45,000          | 62,200         | 107,218          | 45,018          | 62,200         |
| -3,10      | 108,700           | 46,000          | 62,700         | 108,718          | 46,018          | 62,700         |
| -3,20      | 110,200           | 47,000          | 63,200         | 110,218          | 47,018          | 63,200         |
| -3,30      | 111,700           | 48,000          | 63,700         | 111,718          | 48,018          | 63,700         |
| -3,40      | 113,200           | 49,000          | 64,200         | 113,217          | 49,018          | 64,200         |
| -3,50      | 114,700           | 50,000          | 64,700         | 114,717          | 50,018          | 64,699         |
| -3,60      | 116,200           | 51,000          | 65,200         | 116,217          | 51,018          | 65,199         |
| -3,70      | 117,700           | 52,000          | 65,700         | 117,716          | 52,018          | 65,698         |
| -3,80      | 119,200           | 53,000          | 66,200         | 119,215          | 53,018          | 66,197         |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,212          | 55,018          | 67,194         |
| Laag 42    |                   |                 |                |                  |                 |                |
| -4,00      | 122,200           | 55,000          | 67,200         | 122,212          | 55,018          | 67,194         |
| -4,90      | 138,400           | 64,000          | 74,400         | 138,364          | 64,018          | 74,346         |
| -5,90      | 156,400           | 74,000          | 82,400         | 156,194          | 74,018          | 82,176         |
| -6,90      | 174,400           | 84,000          | 90,400         | 173,835          | 84,018          | 89,818         |
| -7,90      | 192,399           | 94,000          | 98,399         | 191,264          | 94,018          | 97,246         |
| -8,90      | 210,399           | 104,000         | 106,399        | 208,497          | 104,018         | 104,479        |
| -9,90      | 228,398           | 114,000         | 114,398        | 225,576          | 114,018         | 111,558        |
| -10,30     | 235,597           | 118,000         | 117,597        | 232,377          | 118,018         | 114,359        |
| -11,20     | 251,795           | 127,000         | 124,795        | 247,636          | 127,018         | 120,618        |
| -12,20     | 269,793           | 137,000         | 132,793        | 264,554          | 137,018         | 127,536        |
| -13,20     | 287,789           | 147,000         | 140,789        | 281,468          | 147,018         | 134,450        |
| -14,20     | 305,784           | 157,000         | 148,784        | 298,402          | 157,018         | 141,384        |
| -15,20     | 323,778           | 167,000         | 156,778        | 315,374          | 167,018         | 148,356        |
| -16,20     | 341,771           | 177,000         | 164,771        | 332,392          | 177,018         | 155,374        |
| -16,60     | 348,967           | 181,000         | 167,967        | 339,214          | 181,018         | 158,196        |
| Laag 41    |                   |                 |                |                  |                 |                |
| -16,60     | 348,967           | 161,000         | 187,967        | 339,214          | 161,018         | 178,196        |
| -18,13     | 381,135           | 176,326         | 204,809        | 370,029          | 176,344         | 193,685        |
| -19,13     | 402,121           | 186,326         | 215,795        | 390,203          | 186,344         | 203,859        |
| -20,13     | 423,105           | 196,326         | 226,779        | 410,428          | 196,344         | 214,084        |
| -21,13     | 444,087           | 206,326         | 237,761        | 430,702          | 206,344         | 224,358        |
| -22,13     | 465,065           | 216,326         | 248,739        | 451,022          | 216,344         | 234,678        |
| -22,93     | 481,845           | 224,326         | 257,519        | 467,312          | 224,344         | 242,968        |
| -24,47     | 513,986           | 239,652         | 274,334        | 498,637          | 239,670         | 258,967        |
| -26,47     | 555,916           | 259,652         | 296,264        | 539,917          | 259,670         | 280,247        |
| -28,47     | 597,829           | 279,652         | 318,177        | 581,985          | 279,670         | 302,315        |
| -29,27     | 614,590           | 287,652         | 326,938        | 599,064          | 287,670         | 311,394        |
| Laag 40    |                   |                 |                |                  |                 |                |
| -29,27     | 614,590           | 287,652         | 326,938        | 599,064          | 287,670         | 311,394        |
| -30,46     | 637,792           | 299,583         | 338,208        | 622,976          | 299,601         | 323,374        |
| -31,56     | 659,177           | 310,583         | 348,593        | 645,211          | 310,601         | 334,610        |
| -32,75     | 682,365           | 322,515         | 359,850        | 669,473          | 322,533         | 346,940        |
| -33,85     | 703,737           | 333,515         | 370,222        | 691,928          | 333,533         | 358,395        |
| Laag 39    |                   |                 |                |                  |                 |                |
| -33,85     | 703,738           | 333,515         | 370,223        | 691,928          | 333,533         | 358,395        |
| -34,93     | 725,307           | 344,341         | 380,966        | 714,621          | 344,359         | 370,263        |
| -36,02     | 746,870           | 355,167         | 391,703        | 737,348          | 355,185         | 382,163        |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -36,02        | 746,870             | 355,167            | 391,703           | 737,348             | 355,185            | 382,163           |
| -38,01        | 788,514             | 375,083            | 413,431           | 781,199             | 375,101            | 406,098           |
| -40,01        | 830,312             | 395,083            | 435,228           | 825,266             | 395,101            | 430,165           |
| -44,00        | 913,666             | 435,000            | 478,666           | 913,226             | 435,012            | 478,213           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,666             | 435,000            | 478,666           | 913,226             | 435,013            | 478,213           |
| -46,50        | 965,827             | 460,000            | 505,827           | 968,267             | 460,012            | 508,255           |
| -49,00        | 1017,955            | 485,000            | 532,955           | 1023,216            | 485,012            | 538,204           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1017,956            | 485,000            | 532,956           | 1023,216            | 485,012            | 538,204           |
| -50,00        | 1036,798            | 495,000            | 541,798           | 1043,154            | 495,006            | 548,147           |
| -51,00        | 1055,635            | 505,000            | 550,635           | 1063,066            | 505,000            | 558,066           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,635            | 505,000            | 550,635           | 1063,067            | 505,000            | 558,066           |
| -52,00        | 1076,467            | 515,000            | 561,467           | 1084,958            | 515,000            | 569,958           |
| -53,00        | 1097,294            | 525,000            | 572,294           | 1106,821            | 525,000            | 581,821           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,294            | 525,000            | 572,294           | 1106,821            | 525,000            | 581,821           |
| -57,00        | 1180,556            | 565,000            | 615,556           | 1193,944            | 565,000            | 628,944           |
| -62,00        | 1284,536            | 615,000            | 669,536           | 1302,027            | 615,000            | 687,027           |
| -67,00        | 1388,424            | 665,000            | 723,424           | 1409,163            | 665,000            | 744,163           |
| -69,00        | 1429,956            | 685,000            | 744,956           | 1451,761            | 685,000            | 766,761           |
| -73,00        | 1512,989            | 725,000            | 787,989           | 1536,551            | 725,000            | 811,551           |
| -78,00        | 1616,729            | 775,000            | 841,729           | 1641,855            | 775,000            | 866,855           |
| -83,00        | 1720,426            | 825,000            | 895,426           | 1746,519            | 825,000            | 921,519           |
| -85,00        | 1761,895            | 845,000            | 916,895           | 1788,234            | 845,000            | 943,234           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0009         | 0,0001                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0014         | 0,0001                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,27     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,27     | -33,85     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,85     | -36,02     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -36,02     | -44,00     | 38             | 0,0004                      | 0,0000                         | 0,0005                     | 0,01                                             |
| -44,00     | -49,00     | 37             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0009                      | 0,0001                         | 0,0012                     | 0,06                                             |
| -51,00     | -53,00     | 35             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0014                      | 0,0001                         | 0,0018                     |                                                  |

### 3.32 Resultaat voor Verticaal 32 (X = 154,20 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,238             | 43,038             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,738             | 44,038             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,238             | 45,038             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,738             | 46,038             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,237             | 47,038             | 63,199            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,735             | 48,038             | 63,697            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,232             | 49,038             | 64,194            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,727             | 50,038             | 64,689            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,219             | 51,038             | 65,181            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,708             | 52,038             | 65,670            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,193             | 53,038             | 66,155            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,149             | 55,038             | 67,111            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,150             | 55,038             | 67,111            |
| -4,90         | 138,400             | 64,000             | 74,400            | 137,806             | 64,038             | 73,768            |
| -5,90         | 156,400             | 74,000             | 82,400            | 154,425             | 74,038             | 80,386            |
| -6,90         | 174,400             | 84,000             | 90,400            | 170,457             | 84,038             | 86,419            |
| -7,90         | 192,399             | 94,000             | 98,399            | 186,286             | 94,038             | 92,248            |
| -8,90         | 210,399             | 104,000            | 106,399           | 202,174             | 104,038            | 98,136            |
| -9,90         | 228,398             | 114,000            | 114,398           | 218,245             | 114,038            | 104,207           |
| -10,30        | 235,597             | 118,000            | 117,597           | 224,735             | 118,038            | 106,697           |
| -11,20        | 251,795             | 127,000            | 124,795           | 239,466             | 127,038            | 112,428           |
| -12,20        | 269,793             | 137,000            | 132,793           | 256,035             | 137,038            | 118,997           |
| -13,20        | 287,789             | 147,000            | 140,789           | 272,794             | 147,038            | 125,755           |
| -14,20        | 305,784             | 157,000            | 148,784           | 289,716             | 157,038            | 132,678           |
| -15,20        | 323,778             | 167,000            | 156,778           | 306,778             | 167,038            | 139,740           |
| -16,20        | 341,770             | 177,000            | 164,770           | 323,960             | 177,038            | 146,922           |
| -16,60        | 348,967             | 181,000            | 167,967           | 330,862             | 181,038            | 149,824           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,967             | 161,000            | 187,967           | 330,862             | 161,038            | 169,824           |
| -18,14        | 381,222             | 176,368            | 204,854           | 362,122             | 176,406            | 185,716           |
| -19,14        | 402,209             | 186,368            | 215,841           | 382,559             | 186,406            | 196,153           |
| -20,14        | 423,192             | 196,368            | 226,825           | 403,060             | 196,406            | 206,654           |
| -21,14        | 444,173             | 206,368            | 237,806           | 423,613             | 206,406            | 217,207           |
| -22,14        | 465,151             | 216,368            | 248,784           | 444,214             | 216,406            | 227,808           |
| -22,94        | 481,932             | 224,368            | 257,564           | 460,764             | 224,406            | 236,358           |
| -24,47        | 514,160             | 239,736            | 274,424           | 493,032             | 239,774            | 253,258           |
| -26,47        | 556,089             | 259,736            | 296,353           | 536,508             | 259,774            | 276,734           |
| -28,47        | 598,001             | 279,736            | 318,266           | 581,931             | 279,774            | 302,157           |
| -29,27        | 614,761             | 287,736            | 327,026           | 600,253             | 287,774            | 312,479           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,27        | 614,761             | 287,736            | 327,026           | 600,253             | 287,774            | 312,480           |
| -30,47        | 638,071             | 299,723            | 338,348           | 625,818             | 299,761            | 326,057           |
| -31,57        | 659,455             | 310,723            | 348,732           | 649,123             | 310,761            | 338,362           |
| -32,77        | 682,751             | 322,710            | 360,041           | 674,358             | 322,748            | 351,610           |
| -33,87        | 704,122             | 333,710            | 370,412           | 697,395             | 333,748            | 363,647           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,87        | 704,122             | 333,710            | 370,412           | 697,395             | 333,748            | 363,647           |
| -34,96        | 725,773             | 344,578            | 381,196           | 720,618             | 344,616            | 376,002           |
| -36,04        | 747,419             | 355,446            | 391,973           | 743,787             | 355,484            | 388,303           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -36,04        | 747,419             | 355,446            | 391,973           | 743,787             | 355,484            | 388,304           |
| -38,02        | 788,770             | 375,223            | 413,547           | 787,844             | 375,259            | 412,586           |
| -40,02        | 830,565             | 395,223            | 435,342           | 832,340             | 395,255            | 437,085           |
| -44,00        | 913,623             | 435,000            | 478,623           | 920,699             | 435,019            | 485,679           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,623             | 435,000            | 478,623           | 920,699             | 435,019            | 485,680           |
| -46,50        | 965,780             | 460,000            | 505,780           | 976,088             | 460,019            | 516,069           |
| -49,00        | 1017,904            | 485,000            | 532,904           | 1031,289            | 485,018            | 546,271           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1017,905            | 485,000            | 532,904           | 1031,290            | 485,018            | 546,271           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -50,00        | 1036,745            | 495,000            | 541,745           | 1051,297            | 495,010            | 556,287           |
| -51,00        | 1055,580            | 505,000            | 550,580           | 1071,262            | 505,001            | 566,262           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,580            | 505,000            | 550,580           | 1071,262            | 505,001            | 566,262           |
| -52,00        | 1076,410            | 515,000            | 561,410           | 1093,193            | 515,000            | 578,192           |
| -53,00        | 1097,235            | 525,000            | 572,235           | 1115,078            | 525,000            | 590,078           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,235            | 525,000            | 572,235           | 1115,078            | 525,000            | 590,078           |
| -57,00        | 1180,489            | 565,000            | 615,489           | 1202,139            | 565,000            | 637,139           |
| -62,00        | 1284,458            | 615,000            | 669,458           | 1309,864            | 615,000            | 694,864           |
| -67,00        | 1388,333            | 665,000            | 723,333           | 1416,431            | 665,000            | 751,431           |
| -69,00        | 1429,861            | 685,000            | 744,861           | 1458,766            | 685,000            | 773,766           |
| -73,00        | 1512,883            | 725,000            | 787,883           | 1542,998            | 725,000            | 817,998           |
| -78,00        | 1616,610            | 775,000            | 841,610           | 1647,586            | 775,000            | 872,586           |
| -83,00        | 1720,295            | 825,000            | 895,295           | 1751,556            | 825,000            | 926,556           |
| -85,00        | 1761,760            | 845,000            | 916,760           | 1793,005            | 845,000            | 948,005           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0014         | 0,0001                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0014         | 0,0001                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0030         | 0,0002                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,27     | 41             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,27     | -33,87     | 40             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -33,87     | -36,04     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -36,04     | -44,00     | 38             | 0,0014                      | 0,0001                         | 0,0019                     | 0,02                                             |
| -44,00     | -49,00     | 37             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0014                      | 0,0001                         | 0,0018                     | 0,09                                             |
| -51,00     | -53,00     | 35             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0030                      | 0,0002                         | 0,0038                     |                                                  |

### 3.33 Resultaat voor Verticaal 33 (X = 158,10 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 43       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,090              | 43,090             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 72,900              | 44,090             | 28,810            |
| -3,00         | 107,200             | 45,000             | 62,200            | 75,543              | 45,090             | 30,453            |
| -3,10         | 108,700             | 46,000             | 62,700            | 77,425              | 46,090             | 31,335            |
| -3,20         | 110,200             | 47,000             | 63,200            | 79,116              | 47,090             | 32,026            |
| -3,30         | 111,700             | 48,000             | 63,700            | 80,731              | 48,090             | 32,641            |
| -3,40         | 113,200             | 49,000             | 64,200            | 82,307              | 49,090             | 33,218            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -3,50         | 114,700             | 50,000             | 64,700            | 83,862              | 50,090             | 33,772            |
| -3,60         | 116,200             | 51,000             | 65,200            | 85,403              | 51,090             | 34,313            |
| -3,70         | 117,700             | 52,000             | 65,700            | 86,935              | 52,090             | 34,845            |
| -3,80         | 119,200             | 53,000             | 66,200            | 88,460              | 53,090             | 35,371            |
| -4,00         | 122,200             | 55,000             | 67,200            | 91,499              | 55,090             | 36,409            |
| Laag 42       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 91,499              | 55,090             | 36,409            |
| -4,90         | 138,400             | 64,000             | 74,400            | 107,781             | 64,090             | 43,691            |
| -5,90         | 156,400             | 74,000             | 82,400            | 125,819             | 74,090             | 51,729            |
| -6,90         | 174,400             | 84,000             | 90,400            | 143,842             | 84,090             | 59,752            |
| -7,90         | 192,399             | 94,000             | 98,399            | 161,863             | 94,090             | 67,774            |
| -8,90         | 210,399             | 104,000            | 106,399           | 179,888             | 104,090            | 75,799            |
| -9,90         | 228,398             | 114,000            | 114,398           | 197,920             | 114,090            | 83,830            |
| -10,30        | 235,597             | 118,000            | 117,597           | 205,135             | 118,090            | 87,045            |
| -11,20        | 251,795             | 127,000            | 124,795           | 221,374             | 127,090            | 94,285            |
| -12,20        | 269,792             | 137,000            | 132,792           | 239,428             | 137,090            | 102,338           |
| -13,20        | 287,789             | 147,000            | 140,789           | 257,492             | 147,090            | 110,402           |
| -14,20        | 305,784             | 157,000            | 148,784           | 275,566             | 157,090            | 118,477           |
| -15,20        | 323,778             | 167,000            | 156,778           | 293,650             | 167,090            | 126,560           |
| -16,20        | 341,770             | 177,000            | 164,770           | 311,742             | 177,090            | 134,652           |
| -16,60        | 348,966             | 181,000            | 167,966           | 318,981             | 181,090            | 137,891           |
| Laag 41       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,966             | 161,000            | 187,966           | 318,981             | 161,090            | 157,891           |
| -18,14        | 381,309             | 176,410            | 204,900           | 351,500             | 176,499            | 175,000           |
| -19,14        | 402,296             | 186,410            | 215,886           | 372,608             | 186,499            | 186,108           |
| -20,14        | 423,279             | 196,410            | 226,869           | 393,718             | 196,499            | 197,219           |
| -21,14        | 444,260             | 206,410            | 237,850           | 414,830             | 206,499            | 208,331           |
| -22,14        | 465,238             | 216,410            | 248,828           | 446,080             | 216,499            | 229,581           |
| -22,94        | 482,018             | 224,410            | 257,608           | 462,886             | 224,499            | 238,387           |
| -24,48        | 514,333             | 239,819            | 274,513           | 515,701             | 239,909            | 275,792           |
| -26,48        | 556,261             | 259,819            | 296,442           | 557,706             | 259,909            | 297,797           |
| -28,48        | 598,172             | 279,819            | 318,353           | 600,100             | 279,909            | 320,192           |
| -29,28        | 614,932             | 287,819            | 327,112           | 617,144             | 287,908            | 329,236           |
| Laag 40       |                     |                    |                   |                     |                    |                   |
| -29,28        | 614,932             | 287,819            | 327,113           | 617,144             | 287,908            | 329,236           |
| -30,39        | 636,404             | 298,862            | 337,542           | 639,114             | 298,948            | 340,166           |
| -31,59        | 659,732             | 310,862            | 348,869           | 663,138             | 310,944            | 352,194           |
| -32,69        | 681,192             | 321,905            | 359,287           | 685,395             | 321,983            | 363,412           |
| -33,89        | 704,505             | 333,905            | 370,600           | 709,741             | 333,978            | 375,763           |
| Laag 39       |                     |                    |                   |                     |                    |                   |
| -33,89        | 704,505             | 333,905            | 370,600           | 709,741             | 333,978            | 375,764           |
| -34,98        | 726,238             | 344,815            | 381,424           | 732,562             | 344,887            | 387,675           |
| -36,07        | 747,965             | 355,724            | 392,241           | 755,500             | 355,796            | 399,704           |
| Laag 38       |                     |                    |                   |                     |                    |                   |
| -36,07        | 747,966             | 355,724            | 392,241           | 755,500             | 355,797            | 399,704           |
| -38,04        | 789,023             | 375,362            | 413,660           | 798,981             | 375,425            | 423,555           |
| -40,04        | 830,815             | 395,362            | 435,453           | 843,468             | 395,415            | 448,053           |
| -44,00        | 913,576             | 435,000            | 478,576           | 931,776             | 435,028            | 496,748           |
| Laag 37       |                     |                    |                   |                     |                    |                   |
| -44,00        | 913,576             | 435,000            | 478,576           | 931,777             | 435,029            | 496,748           |
| -46,50        | 965,729             | 460,000            | 505,729           | 987,309             | 460,028            | 527,282           |
| -49,00        | 1017,848            | 485,000            | 532,848           | 1042,550            | 485,027            | 557,524           |
| Laag 36       |                     |                    |                   |                     |                    |                   |
| -49,00        | 1017,848            | 485,000            | 532,848           | 1042,551            | 485,027            | 557,524           |
| -50,00        | 1036,686            | 495,000            | 541,686           | 1062,535            | 495,014            | 567,521           |
| -51,00        | 1055,519            | 505,000            | 550,519           | 1082,459            | 505,001            | 577,458           |
| Laag 35       |                     |                    |                   |                     |                    |                   |
| -51,00        | 1055,519            | 505,000            | 550,519           | 1082,459            | 505,001            | 577,458           |
| -52,00        | 1076,347            | 515,000            | 561,347           | 1104,332            | 515,000            | 589,332           |
| -53,00        | 1097,170            | 525,000            | 572,170           | 1126,141            | 525,000            | 601,141           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -53,00        | 1097,170            | 525,000            | 572,170           | 1126,142            | 525,000            | 601,141           |
| -57,00        | 1180,413            | 565,000            | 615,413           | 1212,737            | 565,000            | 647,737           |
| -62,00        | 1284,369            | 615,000            | 669,369           | 1319,613            | 615,000            | 704,613           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -67,00        | 1388,230            | 665,000            | 723,230           | 1425,178            | 665,000            | 760,178           |
| -69,00        | 1429,752            | 685,000            | 744,752           | 1467,097            | 685,000            | 782,097           |
| -73,00        | 1512,763            | 725,000            | 787,763           | 1550,501            | 725,000            | 825,501           |
| -78,00        | 1616,475            | 775,000            | 841,475           | 1654,100            | 775,000            | 879,100           |
| -83,00        | 1720,145            | 825,000            | 895,145           | 1757,162            | 825,000            | 932,162           |
| -85,00        | 1761,605            | 845,000            | 916,605           | 1798,275            | 845,000            | 953,275           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 43             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 42             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 41             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 40             | 0,0000         | 0,0000           | 0,0013         | 0,0001                         | 0,0000         | 0,0000                         |
| 39             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 38             | 0,0000         | 0,0000           | 0,0033         | 0,0003                         | 0,0000         | 0,0000                         |
| 37             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 36             | 0,0000         | 0,0000           | 0,0021         | 0,0001                         | 0,0000         | 0,0000                         |
| 35             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0070         | 0,0005                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 43             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 42             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,28     | 41             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -29,28     | -33,89     | 40             | 0,0013                      | 0,0001                         | 0,0017                     | 0,04                                             |
| -33,89     | -36,07     | 39             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -36,07     | -44,00     | 38             | 0,0033                      | 0,0003                         | 0,0044                     | 0,06                                             |
| -44,00     | -49,00     | 37             | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                             |
| -49,00     | -51,00     | 36             | 0,0021                      | 0,0001                         | 0,0026                     | 0,13                                             |
| -51,00     | -53,00     | 35             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0070                      | 0,0005                         | 0,0090                     |                                                  |

### 3.34 Resultaat voor Verticaal 34 (X = 162,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,247              | 43,247             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 44,747              | 44,247             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 46,247              | 45,247             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 47,747              | 46,247             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 49,248              | 47,247             | 2,001             |
| -3,30         | 111,700             | 48,000             | 63,700            | 50,750              | 48,247             | 2,503             |
| -3,40         | 113,200             | 49,000             | 64,200            | 52,253              | 49,247             | 3,006             |
| -3,50         | 114,700             | 50,000             | 64,700            | 53,758              | 50,247             | 3,511             |
| -3,60         | 116,200             | 51,000             | 65,200            | 55,266              | 51,247             | 4,019             |
| -3,70         | 117,700             | 52,000             | 65,700            | 56,777              | 52,247             | 4,530             |
| -3,80         | 119,200             | 53,000             | 66,200            | 58,291              | 53,247             | 5,044             |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,335              | 55,247             | 6,088             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,335              | 55,247             | 6,088             |
| -4,90         | 138,400             | 64,000             | 74,400            | 78,075              | 64,247             | 13,828            |
| -5,90         | 156,400             | 74,000             | 82,400            | 97,452              | 74,247             | 23,205            |
| -6,90         | 174,400             | 84,000             | 90,400            | 117,422             | 84,247             | 33,175            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -7,90         | 192,399             | 94,000             | 98,399            | 137,608             | 94,247             | 43,361            |
| -8,90         | 210,399             | 104,000            | 106,399           | 157,751             | 104,247            | 53,505            |
| -9,90         | 228,397             | 114,000            | 114,397           | 177,732             | 114,247            | 63,485            |
| -10,30        | 235,597             | 118,000            | 117,597           | 185,669             | 118,247            | 67,422            |
| -11,20        | 251,795             | 127,000            | 124,795           | 203,410             | 127,247            | 76,163            |
| -12,20        | 269,792             | 137,000            | 132,792           | 222,943             | 137,247            | 85,696            |
| -13,20        | 287,789             | 147,000            | 140,789           | 242,310             | 147,247            | 95,063            |
| -14,20        | 305,784             | 157,000            | 148,784           | 261,534             | 157,247            | 104,287           |
| -15,20        | 323,777             | 167,000            | 156,777           | 280,637             | 167,247            | 113,390           |
| -16,20        | 341,769             | 177,000            | 164,769           | 299,639             | 177,247            | 122,392           |
| -16,60        | 348,966             | 181,000            | 167,966           | 307,214             | 181,247            | 125,967           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,966             | 161,000            | 187,966           | 307,214             | 161,247            | 145,967           |
| -17,40        | 365,757             | 169,000            | 196,757           | 324,727             | 169,247            | 155,480           |
| -18,40        | 386,745             | 179,000            | 207,745           | 346,553             | 179,247            | 167,306           |
| -19,40        | 407,730             | 189,000            | 218,730           | 368,316             | 189,247            | 179,069           |
| -20,40        | 428,713             | 199,000            | 229,713           | 390,023             | 199,247            | 190,776           |
| -21,40        | 449,693             | 209,000            | 240,693           | 411,680             | 209,247            | 202,433           |
| -22,40        | 470,669             | 219,000            | 251,669           | 453,287             | 219,247            | 234,040           |
| -22,80        | 479,059             | 223,000            | 256,059           | 461,899             | 223,247            | 238,652           |
| -24,50        | 514,709             | 240,000            | 274,709           | 538,030             | 240,247            | 297,783           |
| -26,50        | 556,636             | 260,000            | 296,636           | 579,150             | 260,245            | 318,905           |
| -28,50        | 598,546             | 280,000            | 318,546           | 618,839             | 280,244            | 338,595           |
| -29,00        | 609,020             | 285,000            | 324,020           | 628,792             | 285,243            | 343,548           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,00        | 609,020             | 285,000            | 324,020           | 628,792             | 285,244            | 343,548           |
| -30,10        | 630,410             | 296,000            | 334,410           | 649,295             | 296,231            | 353,064           |
| -31,20        | 651,794             | 307,000            | 344,794           | 670,256             | 307,220            | 363,036           |
| -32,30        | 673,172             | 318,000            | 355,172           | 691,688             | 318,208            | 373,480           |
| -33,40        | 694,544             | 329,000            | 365,544           | 713,553             | 329,197            | 384,356           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,40        | 694,544             | 329,000            | 365,544           | 713,553             | 329,197            | 384,356           |
| -34,35        | 713,471             | 338,500            | 374,971           | 733,217             | 338,696            | 394,521           |
| -35,30        | 732,393             | 348,000            | 384,393           | 753,107             | 348,196            | 404,911           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,30        | 732,393             | 348,000            | 384,393           | 753,108             | 348,196            | 404,911           |
| -36,85        | 764,805             | 363,500            | 401,305           | 787,459             | 363,683            | 423,776           |
| -38,85        | 806,608             | 383,500            | 423,108           | 832,189             | 383,665            | 448,524           |
| -39,65        | 823,322             | 391,500            | 431,822           | 850,142             | 391,657            | 458,485           |
| -44,00        | 914,144             | 435,000            | 479,144           | 947,615             | 435,114            | 512,501           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -44,00        | 914,144             | 435,000            | 479,144           | 947,615             | 435,114            | 512,502           |
| -46,20        | 960,035             | 457,000            | 503,035           | 996,534             | 457,113            | 539,422           |
| -48,40        | 1005,900            | 479,000            | 526,900           | 1045,056            | 479,112            | 565,944           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,40        | 1005,900            | 479,000            | 526,900           | 1045,056            | 479,112            | 565,944           |
| -50,35        | 1042,631            | 498,500            | 544,131           | 1083,771            | 498,576            | 585,195           |
| -52,30        | 1079,342            | 518,000            | 561,342           | 1122,147            | 518,039            | 604,108           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1079,342            | 518,000            | 561,342           | 1122,147            | 518,040            | 604,108           |
| -53,25        | 1099,120            | 527,500            | 571,620           | 1142,641            | 527,539            | 615,102           |
| -54,20        | 1118,893            | 537,000            | 581,893           | 1163,060            | 537,039            | 626,022           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,893            | 537,000            | 581,893           | 1163,061            | 537,039            | 626,022           |
| -55,10        | 1135,822            | 546,000            | 589,822           | 1180,521            | 546,022            | 634,499           |
| -56,00        | 1152,746            | 555,000            | 597,746           | 1197,919            | 555,005            | 642,914           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,747            | 555,000            | 597,747           | 1197,919            | 555,005            | 642,914           |
| -58,80        | 1210,978            | 583,000            | 627,978           | 1257,318            | 583,004            | 674,314           |
| -61,50        | 1267,098            | 610,000            | 657,098           | 1314,111            | 610,002            | 704,109           |
| -64,20        | 1323,190            | 637,000            | 686,190           | 1370,498            | 637,001            | 733,497           |
| -67,00        | 1381,332            | 665,000            | 716,332           | 1428,614            | 665,000            | 763,614           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,00        | 1381,332            | 665,000            | 716,332           | 1428,614            | 665,000            | 763,614           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -71,50        | 1474,725            | 710,000            | 764,725           | 1521,409            | 710,000            | 811,409           |
| -76,00        | 1568,068            | 755,000            | 813,068           | 1613,653            | 755,000            | 858,653           |
| -80,50        | 1661,371            | 800,000            | 861,371           | 1705,526            | 800,000            | 905,526           |
| -85,00        | 1754,647            | 845,000            | 909,647           | 1797,166            | 845,000            | 952,166           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -67,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0000                      | 0,0000                         | 0,0000                     |                                                  |

### 3.35 Resultaat voor Verticaal 35 (X = 165,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,343              | 43,343             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 44,843              | 44,343             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 46,343              | 45,343             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 47,843              | 46,343             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 49,343              | 47,343             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 50,843              | 48,343             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 52,343              | 49,343             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 53,843              | 50,343             | 3,501             |
| -3,60         | 116,200             | 51,000             | 65,200            | 55,344              | 51,343             | 4,001             |
| -3,70         | 117,700             | 52,000             | 65,700            | 56,845              | 52,343             | 4,502             |
| -3,80         | 119,200             | 53,000             | 66,200            | 58,346              | 53,343             | 5,003             |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,349              | 55,343             | 6,006             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,349              | 55,343             | 6,006             |
| -4,90         | 138,400             | 64,000             | 74,400            | 77,597              | 64,343             | 13,255            |
| -5,90         | 156,400             | 74,000             | 82,400            | 95,772              | 74,343             | 21,429            |
| -6,90         | 174,400             | 84,000             | 90,400            | 114,140             | 84,343             | 29,797            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,730             | 94,343             | 38,388            |
| -8,90         | 210,399             | 104,000            | 106,399           | 151,532             | 104,343            | 47,189            |
| -9,90         | 228,397             | 114,000            | 114,397           | 170,503             | 114,343            | 56,160            |
| -10,30        | 235,597             | 118,000            | 117,597           | 178,128             | 118,343            | 59,786            |
| -11,20        | 251,795             | 127,000            | 124,795           | 195,340             | 127,343            | 67,998            |
| -12,20        | 269,792             | 137,000            | 132,792           | 214,523             | 137,343            | 77,180            |
| -13,20        | 287,788             | 147,000            | 140,788           | 233,732             | 147,343            | 86,390            |
| -14,20        | 305,783             | 157,000            | 148,783           | 252,943             | 157,343            | 95,600            |
| -15,20        | 323,777             | 167,000            | 156,777           | 272,137             | 167,343            | 104,794           |
| -16,20        | 341,769             | 177,000            | 164,769           | 291,301             | 177,343            | 113,958           |
| -16,60        | 348,965             | 181,000            | 167,965           | 298,957             | 181,343            | 117,614           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,965             | 161,000            | 187,965           | 298,957             | 161,343            | 137,614           |
| -18,01        | 378,609             | 175,124            | 203,485           | 330,173             | 175,467            | 154,706           |
| -19,01        | 399,595             | 185,124            | 214,471           | 352,222             | 185,467            | 166,756           |
| -20,01        | 420,579             | 195,124            | 225,455           | 374,226             | 195,467            | 178,759           |
| -21,01        | 441,559             | 205,124            | 236,435           | 396,184             | 205,467            | 190,717           |
| -22,01        | 462,536             | 215,124            | 247,413           | 438,096             | 215,467            | 222,629           |
| -22,81        | 479,316             | 223,124            | 256,192           | 455,595             | 223,467            | 232,128           |
| -24,22        | 508,934             | 237,248            | 271,687           | 526,443             | 237,590            | 288,853           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -26,22        | 550,862             | 257,248            | 293,615           | 570,173             | 257,589            | 312,584           |
| -28,22        | 592,773             | 277,248            | 315,525           | 614,368             | 277,588            | 336,780           |
| -29,02        | 609,532             | 285,248            | 324,284           | 632,282             | 285,587            | 346,695           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,02        | 609,532             | 285,248            | 324,284           | 632,283             | 285,587            | 346,695           |
| -30,14        | 631,221             | 296,402            | 334,819           | 655,839             | 296,727            | 359,111           |
| -31,24        | 652,604             | 307,402            | 345,202           | 679,355             | 307,712            | 371,643           |
| -32,36        | 674,281             | 318,557            | 355,724           | 703,442             | 318,851            | 384,591           |
| -33,46        | 695,651             | 329,557            | 366,094           | 727,360             | 329,834            | 397,526           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,46        | 695,651             | 329,557            | 366,094           | 727,360             | 329,834            | 397,526           |
| -34,41        | 714,761             | 339,150            | 375,611           | 748,787             | 339,426            | 409,360           |
| -35,37        | 733,867             | 348,743            | 385,124           | 770,234             | 349,019            | 421,215           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,37        | 733,867             | 348,743            | 385,124           | 770,234             | 349,019            | 421,215           |
| -36,87        | 765,176             | 363,717            | 401,459           | 805,134             | 363,972            | 441,162           |
| -38,87        | 806,974             | 383,717            | 423,257           | 851,461             | 383,944            | 467,517           |
| -39,67        | 823,687             | 391,717            | 431,970           | 869,860             | 391,932            | 477,928           |
| -43,97        | 913,400             | 434,690            | 478,710           | 967,095             | 434,841            | 532,253           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,97        | 913,400             | 434,691            | 478,710           | 967,095             | 434,842            | 532,254           |
| -46,20        | 959,996             | 457,031            | 502,965           | 1016,559            | 457,180            | 559,379           |
| -48,44        | 1006,564            | 479,371            | 527,193           | 1065,297            | 479,519            | 585,777           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,44        | 1006,565            | 479,372            | 527,193           | 1065,297            | 479,520            | 585,777           |
| -50,37        | 1042,939            | 498,686            | 544,254           | 1102,987            | 498,785            | 604,202           |
| -52,30        | 1079,294            | 518,000            | 561,294           | 1140,233            | 518,051            | 622,182           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1079,295            | 518,000            | 561,295           | 1140,233            | 518,051            | 622,182           |
| -53,25        | 1099,069            | 527,500            | 571,569           | 1160,328            | 527,550            | 632,778           |
| -54,20        | 1118,839            | 537,000            | 581,839           | 1180,335            | 537,050            | 643,285           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,839            | 537,000            | 581,839           | 1180,335            | 537,050            | 643,285           |
| -55,10        | 1135,765            | 546,000            | 589,765           | 1197,390            | 546,028            | 651,362           |
| -56,00        | 1152,687            | 555,000            | 597,687           | 1214,376            | 555,006            | 659,370           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,687            | 555,000            | 597,687           | 1214,376            | 555,006            | 659,370           |
| -58,72        | 1209,151            | 582,155            | 626,996           | 1270,744            | 582,159            | 688,584           |
| -61,52        | 1267,340            | 610,155            | 657,185           | 1328,370            | 610,158            | 718,212           |
| -64,23        | 1323,742            | 637,310            | 686,433           | 1383,881            | 637,311            | 746,570           |
| -67,03        | 1381,874            | 665,310            | 716,564           | 1440,823            | 665,310            | 775,513           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,03        | 1381,874            | 665,310            | 716,564           | 1440,823            | 665,310            | 775,513           |
| -71,52        | 1474,928            | 710,155            | 764,773           | 1531,585            | 710,155            | 821,431           |
| -76,02        | 1568,253            | 755,155            | 813,099           | 1622,326            | 755,155            | 867,172           |
| -80,50        | 1661,220            | 800,000            | 861,220           | 1712,594            | 800,000            | 912,594           |
| -85,00        | 1754,480            | 845,000            | 909,480           | 1803,131            | 845,000            | 958,131           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0049         | 0,0004                         | 0,0000         | 0,0000                         |
| 19             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0095         | 0,0008                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0077         | 0,0005                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0034         | 0,0002                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Laag nummer | Zwel    |           | Zetting b. Sp |                      | Zetting a. Sp |                      |
|-------------|---------|-----------|---------------|----------------------|---------------|----------------------|
|             | Primair | Secundair | Primair       | Secundair 10 [dagen] | Primair       | Secundair 10 [dagen] |
|             | [m]     | [m]       | [m]           | [m]                  | [m]           | [m]                  |
| Totaal      | 0,0000  | 0,0000    | 0,0270        | 0,0019               | 0,0000        | 0,0000               |

| Diepte |        | Laag nummer | Totale zetting (100% cons.) |                      |                  | Percentage van originele laaghoogte [%] |
|--------|--------|-------------|-----------------------------|----------------------|------------------|-----------------------------------------|
| Van    | Tot    |             | Primair                     | Secundair 10 [dagen] | Na 10000 [dagen] |                                         |
| [m]    | [m]    |             | [m]                         | [m]                  | [m]              |                                         |
| -2,80  | -4,00  | 23          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -4,00  | -16,60 | 22          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -16,60 | -29,02 | 21          | 0,0003                      | 0,0000               | 0,0003           | 0,00                                    |
| -29,02 | -33,46 | 20          | 0,0049                      | 0,0004               | 0,0063           | 0,14                                    |
| -33,46 | -35,37 | 19          | 0,0001                      | 0,0000               | 0,0001           | 0,01                                    |
| -35,37 | -43,97 | 18          | 0,0095                      | 0,0008               | 0,0125           | 0,15                                    |
| -43,97 | -48,44 | 17          | 0,0003                      | 0,0000               | 0,0003           | 0,01                                    |
| -48,44 | -52,30 | 16          | 0,0077                      | 0,0005               | 0,0097           | 0,25                                    |
| -52,30 | -54,20 | 15          | 0,0001                      | 0,0000               | 0,0001           | 0,01                                    |
| -54,20 | -56,00 | 14          | 0,0034                      | 0,0002               | 0,0043           | 0,24                                    |
| -56,00 | -67,03 | 13          | 0,0006                      | 0,0000               | 0,0006           | 0,01                                    |
| -67,03 | -85,00 | 1           | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| Totaal |        |             | 0,0270                      | 0,0019               | 0,0343           |                                         |

### 3.36 Resultaat voor Verticaal 36 (X = 169,80 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,472              | 43,472             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 44,972              | 44,472             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 46,472              | 45,472             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 47,972              | 46,472             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 49,472              | 47,472             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 50,972              | 48,472             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 52,472              | 49,472             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 53,973              | 50,472             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 55,473              | 51,472             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 56,973              | 52,472             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 58,473              | 53,472             | 5,001             |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,474              | 55,472             | 6,001             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,474              | 55,472             | 6,002             |
| -4,90         | 138,400             | 64,000             | 74,400            | 77,686              | 64,472             | 13,213            |
| -5,90         | 156,400             | 74,000             | 82,400            | 95,731              | 74,472             | 21,259            |
| -6,90         | 174,400             | 84,000             | 90,400            | 113,837             | 84,472             | 29,365            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,029             | 94,472             | 37,557            |
| -8,90         | 210,399             | 104,000            | 106,399           | 150,327             | 104,472            | 45,855            |
| -9,90         | 228,397             | 114,000            | 114,397           | 168,740             | 114,472            | 54,268            |
| -10,30        | 235,597             | 118,000            | 117,597           | 176,138             | 118,472            | 57,665            |
| -11,20        | 251,795             | 127,000            | 124,795           | 192,848             | 127,472            | 65,375            |
| -12,20        | 269,792             | 137,000            | 132,792           | 211,514             | 137,472            | 74,041            |
| -13,20        | 287,788             | 147,000            | 140,788           | 230,270             | 147,472            | 82,798            |
| -14,20        | 305,783             | 157,000            | 148,783           | 249,102             | 157,472            | 91,629            |
| -15,20        | 323,776             | 167,000            | 156,776           | 267,992             | 167,472            | 100,520           |
| -16,20        | 341,768             | 177,000            | 164,768           | 286,925             | 177,472            | 109,452           |
| -16,60        | 348,964             | 181,000            | 167,964           | 294,507             | 181,472            | 113,034           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,965             | 161,000            | 187,964           | 294,507             | 161,472            | 133,035           |
| -18,02        | 378,868             | 175,248            | 203,620           | 325,812             | 175,720            | 150,092           |
| -19,02        | 399,853             | 185,248            | 214,606           | 347,795             | 185,720            | 162,075           |
| -20,02        | 420,836             | 195,248            | 225,589           | 369,775             | 195,720            | 174,055           |
| -21,02        | 441,816             | 205,248            | 236,569           | 391,746             | 205,720            | 186,026           |
| -22,02        | 462,793             | 215,248            | 247,546           | 433,700             | 215,720            | 217,980           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -22,82        | 479,572             | 223,248            | 256,325           | 451,275             | 223,720            | 227,555           |
| -24,25        | 509,449             | 237,495            | 271,954           | 522,906             | 237,968            | 284,939           |
| -26,25        | 551,375             | 257,495            | 293,880           | 569,104             | 257,966            | 311,138           |
| -28,25        | 593,284             | 277,495            | 315,788           | 619,048             | 277,965            | 341,083           |
| -29,05        | 610,042             | 285,495            | 324,547           | 639,889             | 285,964            | 353,925           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,05        | 610,042             | 285,495            | 324,547           | 639,890             | 285,964            | 353,925           |
| -30,18        | 632,031             | 296,805            | 335,226           | 667,975             | 297,254            | 370,721           |
| -31,28        | 653,411             | 307,805            | 345,607           | 695,293             | 308,233            | 387,060           |
| -32,41        | 675,387             | 319,114            | 356,273           | 723,097             | 319,518            | 403,578           |
| -33,51        | 696,755             | 330,114            | 366,641           | 749,717             | 330,493            | 419,224           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,51        | 696,755             | 330,114            | 366,641           | 749,717             | 330,493            | 419,225           |
| -34,48        | 716,048             | 339,800            | 376,248           | 773,268             | 340,177            | 433,090           |
| -35,45        | 735,336             | 349,486            | 385,851           | 796,434             | 349,862            | 446,572           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,45        | 735,336             | 349,486            | 385,851           | 796,434             | 349,862            | 446,572           |
| -36,89        | 765,542             | 363,933            | 401,608           | 831,700             | 364,280            | 467,420           |
| -38,89        | 807,335             | 383,933            | 423,402           | 879,200             | 384,237            | 494,963           |
| -39,69        | 824,046             | 391,933            | 432,113           | 897,801             | 392,220            | 505,581           |
| -43,94        | 912,649             | 434,381            | 478,269           | 993,223             | 434,575            | 558,648           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,94        | 912,650             | 434,381            | 478,269           | 993,223             | 434,575            | 558,648           |
| -46,21        | 959,949             | 457,062            | 502,887           | 1042,368            | 457,254            | 585,114           |
| -48,47        | 1007,219            | 479,743            | 527,476           | 1090,484            | 479,933            | 610,551           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,47        | 1007,219            | 479,743            | 527,476           | 1090,484            | 479,933            | 610,551           |
| -50,39        | 1043,237            | 498,871            | 544,366           | 1126,520            | 498,998            | 627,523           |
| -52,30        | 1079,235            | 518,000            | 561,235           | 1162,069            | 518,064            | 644,005           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1079,235            | 518,000            | 561,235           | 1162,069            | 518,064            | 644,005           |
| -53,25        | 1099,006            | 527,500            | 571,506           | 1181,500            | 527,563            | 653,937           |
| -54,20        | 1118,773            | 537,000            | 581,773           | 1200,842            | 537,062            | 663,780           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,773            | 537,000            | 581,773           | 1200,842            | 537,062            | 663,780           |
| -55,10        | 1135,695            | 546,000            | 589,695           | 1217,267            | 546,035            | 671,232           |
| -56,00        | 1152,613            | 555,000            | 597,613           | 1233,627            | 555,008            | 678,620           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,613            | 555,000            | 597,613           | 1233,628            | 555,008            | 678,620           |
| -58,73        | 1209,388            | 582,310            | 627,078           | 1288,488            | 582,315            | 706,172           |
| -61,53        | 1267,564            | 610,310            | 657,255           | 1344,349            | 610,313            | 734,036           |
| -64,26        | 1324,276            | 637,619            | 686,657           | 1398,584            | 637,621            | 760,963           |
| -67,06        | 1382,395            | 665,619            | 716,776           | 1454,033            | 665,619            | 788,414           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,06        | 1382,395            | 665,619            | 716,776           | 1454,033            | 665,619            | 788,414           |
| -71,53        | 1475,108            | 710,310            | 764,799           | 1542,392            | 710,310            | 832,083           |
| -76,03        | 1568,414            | 755,310            | 813,105           | 1631,363            | 755,310            | 876,054           |
| -80,50        | 1661,042            | 800,000            | 861,042           | 1719,854            | 800,000            | 919,854           |
| -85,00        | 1754,285            | 845,000            | 909,285           | 1809,165            | 845,000            | 964,165           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0071         | 0,0005                         | 0,0000         | 0,0000                         |
| 19             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0138         | 0,0011                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0100         | 0,0007                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0043         | 0,0003                         | 0,0000         | 0,0000                         |

| Laag nummer | Zwel    |           | Zetting b. Sp |                      | Zetting a. Sp |                      |
|-------------|---------|-----------|---------------|----------------------|---------------|----------------------|
|             | Primair | Secundair | Primair       | Secundair 10 [dagen] | Primair       | Secundair 10 [dagen] |
|             | [m]     | [m]       | [m]           | [m]                  | [m]           | [m]                  |
| 13          | 0,0000  | 0,0000    | 0,0008        | 0,0000               | 0,0000        | 0,0000               |
| 1           | 0,0000  | 0,0000    | 0,0000        | 0,0000               | 0,0000        | 0,0000               |
| Totaal      | 0,0000  | 0,0000    | 0,0371        | 0,0026               | 0,0000        | 0,0000               |

| Diepte |        | Laag nummer | Totale zetting (100% cons.) |                      |                  | Percentage van originele laaghoogte [%] |
|--------|--------|-------------|-----------------------------|----------------------|------------------|-----------------------------------------|
| Van    | Tot    |             | Primair                     | Secundair 10 [dagen] | Na 10000 [dagen] |                                         |
| [m]    | [m]    |             | [m]                         | [m]                  | [m]              |                                         |
| -2,80  | -4,00  | 23          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -4,00  | -16,60 | 22          | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| -16,60 | -29,05 | 21          | 0,0003                      | 0,0000               | 0,0003           | 0,00                                    |
| -29,05 | -33,51 | 20          | 0,0071                      | 0,0005               | 0,0091           | 0,20                                    |
| -33,51 | -35,45 | 19          | 0,0002                      | 0,0000               | 0,0002           | 0,01                                    |
| -35,45 | -43,94 | 18          | 0,0138                      | 0,0011               | 0,0182           | 0,21                                    |
| -43,94 | -48,47 | 17          | 0,0004                      | 0,0000               | 0,0004           | 0,01                                    |
| -48,47 | -52,30 | 16          | 0,0100                      | 0,0007               | 0,0126           | 0,33                                    |
| -52,30 | -54,20 | 15          | 0,0002                      | 0,0000               | 0,0002           | 0,01                                    |
| -54,20 | -56,00 | 14          | 0,0043                      | 0,0003               | 0,0055           | 0,30                                    |
| -56,00 | -67,06 | 13          | 0,0008                      | 0,0000               | 0,0008           | 0,01                                    |
| -67,06 | -85,00 | 1           | 0,0000                      | 0,0000               | 0,0000           | 0,00                                    |
| Totaal |        |             | 0,0371                      | 0,0026               | 0,0472           |                                         |

### 3.37 Resultaat voor Verticaal 37 (X = 173,70 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,681              | 43,681             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,180              | 44,680             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 46,681              | 45,680             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 48,181              | 46,680             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 49,681              | 47,680             | 2,001             |
| -3,30         | 111,700             | 48,000             | 63,700            | 51,182              | 48,680             | 2,501             |
| -3,40         | 113,200             | 49,000             | 64,200            | 52,683              | 49,680             | 3,002             |
| -3,50         | 114,700             | 50,000             | 64,700            | 54,184              | 50,680             | 3,504             |
| -3,60         | 116,200             | 51,000             | 65,200            | 55,686              | 51,680             | 4,006             |
| -3,70         | 117,700             | 52,000             | 65,700            | 57,189              | 52,680             | 4,508             |
| -3,80         | 119,200             | 53,000             | 66,200            | 58,692              | 53,680             | 5,011             |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,698              | 55,680             | 6,017             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,698              | 55,681             | 6,017             |
| -4,90         | 138,400             | 64,000             | 74,400            | 77,923              | 64,680             | 13,242            |
| -5,90         | 156,400             | 74,000             | 82,400            | 95,946              | 74,680             | 21,266            |
| -6,90         | 174,400             | 84,000             | 90,400            | 113,989             | 84,680             | 29,309            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,073             | 94,680             | 37,392            |
| -8,90         | 210,399             | 104,000            | 106,399           | 150,213             | 104,680            | 45,533            |
| -9,90         | 228,397             | 114,000            | 114,397           | 168,424             | 114,680            | 53,743            |
| -10,30        | 235,597             | 118,000            | 117,597           | 175,729             | 118,680            | 57,049            |
| -11,20        | 251,795             | 127,000            | 124,795           | 192,216             | 127,680            | 64,535            |
| -12,20        | 269,792             | 137,000            | 132,792           | 210,613             | 137,680            | 72,933            |
| -13,20        | 287,788             | 147,000            | 140,788           | 229,094             | 147,680            | 81,414            |
| -14,20        | 305,783             | 157,000            | 148,783           | 247,655             | 157,680            | 89,975            |
| -15,20        | 323,776             | 167,000            | 156,776           | 266,289             | 167,680            | 98,608            |
| -16,20        | 341,767             | 177,000            | 164,767           | 284,987             | 177,680            | 107,306           |
| -16,60        | 348,963             | 181,000            | 167,963           | 292,482             | 181,680            | 110,802           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,964             | 161,000            | 187,963           | 292,482             | 161,681            | 130,802           |
| -18,04        | 379,126             | 175,371            | 203,755           | 323,785             | 176,052            | 147,733           |
| -19,04        | 400,111             | 185,371            | 214,740           | 345,613             | 186,052            | 159,561           |
| -20,04        | 421,094             | 195,371            | 225,722           | 367,468             | 196,052            | 171,416           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -21,04        | 442,073             | 205,371            | 236,702           | 389,341             | 206,052            | 183,290           |
| -22,04        | 463,050             | 215,371            | 247,678           | 431,268             | 216,052            | 215,216           |
| -22,84        | 479,828             | 223,371            | 256,457           | 450,249             | 224,052            | 226,197           |
| -24,27        | 509,963             | 237,743            | 272,220           | 528,486             | 238,423            | 290,063           |
| -26,27        | 551,887             | 257,743            | 294,144           | 592,585             | 258,421            | 334,163           |
| -28,27        | 593,793             | 277,743            | 316,050           | 658,147             | 278,418            | 379,728           |
| -29,07        | 610,549             | 285,743            | 324,807           | 681,916             | 286,417            | 395,499           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,07        | 610,550             | 285,743            | 324,807           | 681,916             | 286,417            | 395,499           |
| -30,22        | 632,837             | 297,207            | 335,630           | 712,512             | 297,841            | 414,671           |
| -31,32        | 654,216             | 308,207            | 346,009           | 740,497             | 308,800            | 431,698           |
| -32,47        | 676,490             | 319,671            | 356,819           | 768,612             | 320,219            | 448,393           |
| -33,57        | 697,855             | 330,671            | 367,184           | 794,779             | 331,175            | 463,603           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,57        | 697,855             | 330,672            | 367,184           | 794,779             | 331,176            | 463,603           |
| -34,55        | 717,331             | 340,450            | 376,881           | 817,988             | 340,953            | 477,036           |
| -35,52        | 736,801             | 350,229            | 386,573           | 840,701             | 350,730            | 489,971           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,52        | 736,801             | 350,229            | 386,573           | 840,701             | 350,730            | 489,971           |
| -36,91        | 765,903             | 364,150            | 401,753           | 873,585             | 364,607            | 508,978           |
| -38,91        | 807,691             | 384,150            | 423,541           | 919,311             | 384,544            | 534,768           |
| -39,72        | 824,399             | 392,150            | 432,249           | 937,141             | 392,519            | 544,622           |
| -43,91        | 911,890             | 434,071            | 477,819           | 1026,941            | 434,314            | 592,627           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,91        | 911,890             | 434,072            | 477,819           | 1026,941            | 434,314            | 592,627           |
| -46,21        | 959,891             | 457,093            | 502,799           | 1074,241            | 457,332            | 616,908           |
| -48,51        | 1007,861            | 480,114            | 527,747           | 1120,477            | 480,351            | 640,126           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,51        | 1007,862            | 480,114            | 527,747           | 1120,477            | 480,351            | 640,126           |
| -50,41        | 1043,522            | 499,057            | 544,464           | 1154,052            | 499,213            | 654,840           |
| -52,30        | 1079,162            | 518,000            | 561,162           | 1187,226            | 518,078            | 669,147           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1079,162            | 518,000            | 561,162           | 1187,226            | 518,078            | 669,148           |
| -53,25        | 1098,929            | 527,500            | 571,429           | 1205,682            | 527,577            | 678,105           |
| -54,20        | 1118,691            | 537,000            | 581,691           | 1224,075            | 537,076            | 686,999           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,691            | 537,000            | 581,691           | 1224,075            | 537,076            | 686,999           |
| -55,10        | 1135,609            | 546,000            | 589,609           | 1239,618            | 546,042            | 693,576           |
| -56,00        | 1152,522            | 555,000            | 597,522           | 1255,123            | 555,009            | 700,114           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,523            | 555,000            | 597,523           | 1255,124            | 555,009            | 700,114           |
| -58,75        | 1209,606            | 582,464            | 627,141           | 1307,859            | 582,471            | 725,388           |
| -61,55        | 1267,768            | 610,464            | 657,304           | 1361,485            | 610,468            | 751,016           |
| -64,29        | 1324,788            | 637,929            | 686,859           | 1414,070            | 637,931            | 776,139           |
| -67,09        | 1382,892            | 665,929            | 716,964           | 1467,750            | 665,929            | 801,821           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,09        | 1382,893            | 665,929            | 716,964           | 1467,750            | 665,929            | 801,822           |
| -71,55        | 1475,263            | 710,464            | 764,798           | 1553,411            | 710,464            | 842,947           |
| -76,05        | 1568,547            | 755,464            | 813,083           | 1640,417            | 755,464            | 884,952           |
| -80,50        | 1660,834            | 800,000            | 860,834           | 1727,022            | 800,000            | 927,022           |
| -85,00        | 1754,059            | 845,000            | 909,059           | 1815,037            | 845,000            | 970,037           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 23             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 22             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 21             | 0,0000  | 0,0000    | 0,0006        | 0,0000                  | 0,0000        | 0,0000                  |
| 20             | 0,0000  | 0,0000    | 0,0132        | 0,0010                  | 0,0000        | 0,0000                  |
| 19             | 0,0000  | 0,0000    | 0,0003        | 0,0000                  | 0,0000        | 0,0000                  |
| 18             | 0,0000  | 0,0000    | 0,0196        | 0,0016                  | 0,0000        | 0,0000                  |
| 17             | 0,0000  | 0,0000    | 0,0006        | 0,0000                  | 0,0000        | 0,0000                  |
| 16             | 0,0000  | 0,0000    | 0,0126        | 0,0008                  | 0,0000        | 0,0000                  |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 15          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0053         | 0,0003                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0009         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0534         | 0,0037                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,07     | 21          | 0,0006                      | 0,0000                         | 0,0006                     | 0,01                                    |
| -29,07     | -33,57     | 20          | 0,0132                      | 0,0010                         | 0,0170                     | 0,38                                    |
| -33,57     | -35,52     | 19          | 0,0003                      | 0,0000                         | 0,0003                     | 0,01                                    |
| -35,52     | -43,91     | 18          | 0,0196                      | 0,0016                         | 0,0259                     | 0,31                                    |
| -43,91     | -48,51     | 17          | 0,0006                      | 0,0000                         | 0,0006                     | 0,01                                    |
| -48,51     | -52,30     | 16          | 0,0126                      | 0,0008                         | 0,0159                     | 0,42                                    |
| -52,30     | -54,20     | 15          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -54,20     | -56,00     | 14          | 0,0053                      | 0,0003                         | 0,0067                     | 0,37                                    |
| -56,00     | -67,09     | 13          | 0,0009                      | 0,0000                         | 0,0009                     | 0,01                                    |
| -67,09     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0534                      | 0,0037                         | 0,0680                     |                                         |

### 3.38 Resultaat voor Verticaal 38 (X = 177,60 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,945              | 43,945             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,445              | 44,945             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 46,945              | 45,945             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 48,445              | 46,945             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 49,945              | 47,945             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 51,445              | 48,945             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 52,946              | 49,945             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 54,446              | 50,945             | 3,501             |
| -3,60         | 116,200             | 51,000             | 65,200            | 55,946              | 51,945             | 4,001             |
| -3,70         | 117,700             | 52,000             | 65,700            | 57,447              | 52,945             | 4,502             |
| -3,80         | 119,200             | 53,000             | 66,200            | 58,947              | 53,945             | 5,002             |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,949              | 55,945             | 6,004             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 61,949              | 55,945             | 6,004             |
| -4,90         | 138,400             | 64,000             | 74,400            | 78,163              | 64,945             | 13,217            |
| -5,90         | 156,400             | 74,000             | 82,400            | 96,183              | 74,945             | 21,238            |
| -6,90         | 174,400             | 84,000             | 90,400            | 114,215             | 84,945             | 29,270            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,271             | 94,945             | 37,326            |
| -8,90         | 210,398             | 104,000            | 106,398           | 150,363             | 104,945            | 45,418            |
| -9,90         | 228,397             | 114,000            | 114,397           | 168,504             | 114,945            | 53,559            |
| -10,30        | 235,597             | 118,000            | 117,597           | 175,776             | 118,945            | 56,830            |
| -11,20        | 251,795             | 127,000            | 124,795           | 192,173             | 127,945            | 64,228            |
| -12,20        | 269,792             | 137,000            | 132,792           | 210,455             | 137,945            | 72,510            |
| -13,20        | 287,787             | 147,000            | 140,787           | 228,806             | 147,945            | 80,861            |
| -14,20        | 305,782             | 157,000            | 148,782           | 247,226             | 157,945            | 89,281            |
| -15,20        | 323,775             | 167,000            | 156,775           | 265,715             | 167,945            | 97,770            |
| -16,20        | 341,766             | 177,000            | 164,766           | 284,268             | 177,945            | 106,323           |
| -16,60        | 348,962             | 181,000            | 167,962           | 291,706             | 181,945            | 109,761           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,962             | 161,000            | 187,962           | 291,707             | 161,945            | 129,761           |
| -18,05        | 379,384             | 175,495            | 203,889           | 323,082             | 176,440            | 146,642           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -19,05        | 400,369             | 185,495            | 214,874           | 344,786             | 186,440            | 158,346           |
| -20,05        | 421,351             | 195,495            | 225,855           | 366,529             | 196,440            | 170,089           |
| -21,05        | 442,329             | 205,495            | 236,834           | 388,304             | 206,440            | 181,864           |
| -22,05        | 463,305             | 215,495            | 247,810           | 436,267             | 216,440            | 219,827           |
| -22,85        | 480,083             | 223,495            | 256,587           | 479,139             | 224,440            | 254,699           |
| -24,30        | 510,476             | 237,990            | 272,485           | 568,921             | 238,934            | 329,986           |
| -26,30        | 552,397             | 257,990            | 294,406           | 698,303             | 258,929            | 439,375           |
| -28,30        | 594,299             | 277,990            | 316,308           | 748,868             | 278,921            | 469,947           |
| -29,10        | 611,054             | 285,990            | 325,064           | 766,311             | 286,918            | 479,393           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,10        | 611,054             | 285,991            | 325,064           | 766,312             | 286,918            | 479,393           |
| -30,26        | 633,640             | 297,610            | 336,031           | 789,833             | 298,462            | 491,371           |
| -31,36        | 655,017             | 308,610            | 346,407           | 812,383             | 309,392            | 502,991           |
| -32,52        | 677,588             | 320,229            | 357,360           | 836,376             | 320,939            | 515,437           |
| -33,62        | 698,950             | 331,229            | 367,722           | 859,046             | 331,871            | 527,175           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,62        | 698,951             | 331,229            | 367,722           | 859,046             | 331,871            | 527,175           |
| -34,61        | 718,608             | 341,100            | 377,508           | 879,762             | 341,740            | 538,021           |
| -35,60        | 738,260             | 350,971            | 387,289           | 900,214             | 351,610            | 548,605           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,60        | 738,260             | 350,972            | 387,289           | 900,215             | 351,610            | 548,605           |
| -36,94        | 766,257             | 364,367            | 401,891           | 928,738             | 364,944            | 563,793           |
| -38,94        | 808,038             | 384,367            | 423,672           | 970,138             | 384,857            | 585,281           |
| -39,74        | 824,744             | 392,367            | 432,377           | 986,306             | 392,823            | 593,483           |
| -43,88        | 911,120             | 433,762            | 477,358           | 1066,920            | 434,054            | 632,867           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,88        | 911,121             | 433,762            | 477,359           | 1066,920            | 434,054            | 632,867           |
| -46,21        | 959,821             | 457,124            | 502,697           | 1110,785            | 457,412            | 653,373           |
| -48,55        | 1008,489            | 480,486            | 528,004           | 1153,867            | 480,770            | 673,097           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,55        | 1008,490            | 480,486            | 528,004           | 1153,867            | 480,770            | 673,097           |
| -50,42        | 1043,790            | 499,243            | 544,547           | 1184,248            | 499,429            | 684,819           |
| -52,30        | 1079,071            | 518,000            | 561,071           | 1214,450            | 518,093            | 696,357           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1079,072            | 518,000            | 561,072           | 1214,450            | 518,093            | 696,357           |
| -53,25        | 1098,833            | 527,500            | 571,333           | 1231,655            | 527,591            | 704,063           |
| -54,20        | 1118,590            | 537,000            | 581,590           | 1248,849            | 537,090            | 711,759           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,590            | 537,000            | 581,590           | 1248,849            | 537,090            | 711,759           |
| -55,10        | 1135,503            | 546,000            | 589,503           | 1263,298            | 546,050            | 717,248           |
| -56,00        | 1152,412            | 555,000            | 597,412           | 1277,753            | 555,011            | 722,743           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,412            | 555,000            | 597,412           | 1277,754            | 555,011            | 722,743           |
| -58,76        | 1209,801            | 582,619            | 627,182           | 1327,853            | 582,627            | 745,227           |
| -61,56        | 1267,948            | 610,619            | 657,329           | 1378,890            | 610,624            | 768,266           |
| -64,32        | 1325,273            | 638,238            | 687,035           | 1429,556            | 638,240            | 791,316           |
| -67,12        | 1383,362            | 666,238            | 717,124           | 1481,293            | 666,238            | 815,055           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,12        | 1383,362            | 666,238            | 717,124           | 1481,293            | 666,238            | 815,055           |
| -71,56        | 1475,387            | 710,619            | 764,767           | 1564,104            | 710,619            | 853,485           |
| -76,06        | 1568,648            | 755,619            | 813,029           | 1649,062            | 755,619            | 893,443           |
| -80,50        | 1660,592            | 800,000            | 860,592           | 1733,763            | 800,000            | 933,763           |
| -85,00        | 1753,798            | 845,000            | 908,798           | 1820,484            | 845,000            | 975,484           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0017         | 0,0000                         | 0,0000         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0222         | 0,0016                         | 0,0000         | 0,0000                         |
| 19             | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0263         | 0,0022                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 17             | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0153         | 0,0010                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0063         | 0,0004                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0011         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0743         | 0,0052                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,10     | 21             | 0,0017                      | 0,0000                         | 0,0017                     | 0,01                                             |
| -29,10     | -33,62     | 20             | 0,0222                      | 0,0016                         | 0,0285                     | 0,63                                             |
| -33,62     | -35,60     | 19             | 0,0004                      | 0,0000                         | 0,0004                     | 0,02                                             |
| -35,60     | -43,88     | 18             | 0,0263                      | 0,0022                         | 0,0347                     | 0,42                                             |
| -43,88     | -48,55     | 17             | 0,0007                      | 0,0000                         | 0,0007                     | 0,02                                             |
| -48,55     | -52,30     | 16             | 0,0153                      | 0,0010                         | 0,0192                     | 0,51                                             |
| -52,30     | -54,20     | 15             | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                             |
| -54,20     | -56,00     | 14             | 0,0063                      | 0,0004                         | 0,0080                     | 0,44                                             |
| -56,00     | -67,12     | 13             | 0,0011                      | 0,0000                         | 0,0011                     | 0,01                                             |
| -67,12     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0743                      | 0,0052                         | 0,0945                     |                                                  |

### 3.39 Resultaat voor Verticaal 39 (X = 181,50 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,171              | 44,170             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,670              | 45,170             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,170              | 46,170             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 48,670              | 47,170             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,170              | 48,170             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 51,670              | 49,170             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,170              | 50,170             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 54,670              | 51,170             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,170              | 52,170             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 57,670              | 53,170             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,171              | 54,170             | 5,000             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,171              | 56,170             | 6,000             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,171              | 56,170             | 6,000             |
| -4,90         | 138,400             | 64,000             | 74,400            | 78,373              | 65,170             | 13,203            |
| -5,90         | 156,400             | 74,000             | 82,400            | 96,383              | 75,170             | 21,213            |
| -6,90         | 174,400             | 84,000             | 90,400            | 114,407             | 85,170             | 29,237            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,454             | 95,170             | 37,283            |
| -8,90         | 210,398             | 104,000            | 106,398           | 150,531             | 105,170            | 45,361            |
| -9,90         | 228,397             | 114,000            | 114,397           | 168,649             | 115,170            | 53,479            |
| -10,30        | 235,596             | 118,000            | 117,596           | 175,909             | 119,170            | 56,739            |
| -11,20        | 251,794             | 127,000            | 124,794           | 192,275             | 128,170            | 64,105            |
| -12,20        | 269,791             | 137,000            | 132,791           | 210,513             | 138,170            | 72,343            |
| -13,20        | 287,787             | 147,000            | 140,787           | 228,812             | 148,170            | 80,641            |
| -14,20        | 305,781             | 157,000            | 148,781           | 247,173             | 158,170            | 89,002            |
| -15,20        | 323,774             | 167,000            | 156,774           | 265,596             | 168,170            | 97,426            |
| -16,20        | 341,765             | 177,000            | 164,765           | 284,080             | 178,170            | 105,910           |
| -16,60        | 348,961             | 181,000            | 167,961           | 291,490             | 182,170            | 109,320           |
| Laag 21       |                     |                    |                   |                     |                    |                   |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,60        | 348,961             | 161,000            | 187,961           | 291,491             | 162,170            | 129,320           |
| -18,06        | 379,642             | 175,619            | 204,023           | 323,032             | 176,789            | 146,242           |
| -19,06        | 400,626             | 185,619            | 215,007           | 344,667             | 186,789            | 157,878           |
| -20,06        | 421,607             | 195,619            | 225,988           | 366,346             | 196,789            | 169,556           |
| -21,06        | 442,585             | 205,619            | 236,965           | 388,060             | 206,789            | 181,271           |
| -22,06        | 463,559             | 215,619            | 247,940           | 436,407             | 216,789            | 219,618           |
| -22,86        | 480,336             | 223,619            | 256,717           | 479,721             | 224,789            | 254,932           |
| -24,32        | 510,986             | 238,238            | 272,748           | 575,899             | 239,407            | 336,492           |
| -26,32        | 552,904             | 258,238            | 294,666           | 721,852             | 259,401            | 462,452           |
| -28,32        | 594,802             | 278,238            | 316,564           | 796,811             | 279,392            | 517,419           |
| -29,12        | 611,555             | 286,238            | 325,317           | 821,497             | 287,388            | 534,109           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,12        | 611,556             | 286,238            | 325,317           | 821,497             | 287,388            | 534,109           |
| -30,30        | 634,439             | 298,012            | 336,427           | 852,468             | 299,064            | 553,404           |
| -31,40        | 655,812             | 309,012            | 346,800           | 878,496             | 309,973            | 568,523           |
| -32,58        | 678,681             | 320,786            | 357,895           | 904,032             | 321,650            | 582,382           |
| -33,68        | 700,039             | 331,786            | 368,254           | 926,245             | 332,561            | 593,684           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,68        | 700,039             | 331,786            | 368,254           | 926,245             | 332,561            | 593,684           |
| -34,67        | 719,878             | 341,750            | 378,128           | 945,875             | 342,523            | 603,353           |
| -35,67        | 739,711             | 351,714            | 387,997           | 964,691             | 352,484            | 612,207           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,67        | 739,711             | 351,714            | 387,997           | 964,691             | 352,484            | 612,207           |
| -36,96        | 766,603             | 364,583            | 402,020           | 989,233             | 365,278            | 623,955           |
| -38,96        | 808,376             | 384,583            | 423,793           | 1025,698            | 385,166            | 640,531           |
| -39,76        | 825,078             | 392,583            | 432,494           | 1039,838            | 393,124            | 646,714           |
| -43,85        | 910,337             | 433,452            | 476,885           | 1109,493            | 433,791            | 675,702           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,85        | 910,337             | 433,452            | 476,885           | 1109,493            | 433,791            | 675,702           |
| -46,22        | 959,735             | 457,155            | 502,581           | 1148,851            | 457,489            | 691,362           |
| -48,59        | 1009,099            | 480,857            | 528,242           | 1187,924            | 481,187            | 706,738           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,59        | 1009,099            | 480,857            | 528,242           | 1187,924            | 481,187            | 706,738           |
| -50,44        | 1044,039            | 499,429            | 544,611           | 1214,717            | 499,643            | 715,074           |
| -52,30        | 1078,960            | 518,000            | 560,960           | 1241,641            | 518,106            | 723,535           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1078,960            | 518,000            | 560,960           | 1241,641            | 518,106            | 723,535           |
| -53,25        | 1098,716            | 527,500            | 571,216           | 1257,442            | 527,605            | 729,837           |
| -54,20        | 1118,467            | 537,000            | 581,467           | 1273,304            | 537,104            | 736,200           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,467            | 537,000            | 581,467           | 1273,304            | 537,104            | 736,201           |
| -55,10        | 1135,374            | 546,000            | 589,374           | 1286,548            | 546,057            | 740,491           |
| -56,00        | 1152,277            | 555,000            | 597,277           | 1299,859            | 555,012            | 744,847           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,278            | 555,000            | 597,277           | 1299,860            | 555,012            | 744,848           |
| -58,78        | 1209,971            | 582,774            | 627,197           | 1347,073            | 582,782            | 764,291           |
| -61,58        | 1268,099            | 610,774            | 657,325           | 1395,395            | 610,779            | 784,615           |
| -64,35        | 1325,727            | 638,548            | 687,180           | 1444,057            | 638,550            | 805,507           |
| -67,15        | 1383,798            | 666,548            | 717,250           | 1493,836            | 666,548            | 827,288           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,15        | 1383,798            | 666,548            | 717,251           | 1493,836            | 666,548            | 827,289           |
| -71,58        | 1475,475            | 710,774            | 764,701           | 1573,848            | 710,774            | 863,074           |
| -76,08        | 1568,710            | 755,774            | 812,937           | 1656,826            | 755,774            | 901,052           |
| -80,50        | 1660,312            | 800,000            | 860,312           | 1739,717            | 800,000            | 939,717           |
| -85,00        | 1753,496            | 845,000            | 908,496           | 1825,228            | 845,000            | 980,228           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0020         | 0,0000                         | 0,0000         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0292         | 0,0021                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 19             | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0327         | 0,0027                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0009         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0178         | 0,0012                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0073         | 0,0005                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0012         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0919         | 0,0064                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,12     | 21             | 0,0020                      | 0,0000                         | 0,0020                     | 0,02                                             |
| -29,12     | -33,68     | 20             | 0,0292                      | 0,0021                         | 0,0375                     | 0,82                                             |
| -33,68     | -35,67     | 19             | 0,0005                      | 0,0000                         | 0,0005                     | 0,03                                             |
| -35,67     | -43,85     | 18             | 0,0327                      | 0,0027                         | 0,0432                     | 0,53                                             |
| -43,85     | -48,59     | 17             | 0,0009                      | 0,0000                         | 0,0009                     | 0,02                                             |
| -48,59     | -52,30     | 16             | 0,0178                      | 0,0012                         | 0,0223                     | 0,60                                             |
| -52,30     | -54,20     | 15             | 0,0003                      | 0,0000                         | 0,0003                     | 0,01                                             |
| -54,20     | -56,00     | 14             | 0,0073                      | 0,0005                         | 0,0092                     | 0,51                                             |
| -56,00     | -67,15     | 13             | 0,0012                      | 0,0000                         | 0,0012                     | 0,01                                             |
| -67,15     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0919                      | 0,0064                         | 0,1170                     |                                                  |

### 3.40 Resultaat voor Verticaal 40 (X = 185,40 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,408              | 44,408             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,908              | 45,408             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,408              | 46,408             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 48,908              | 47,408             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,408              | 48,408             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 51,908              | 49,408             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,408              | 50,408             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 54,908              | 51,408             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,408              | 52,408             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 57,908              | 53,408             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,408              | 54,408             | 5,000             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,408              | 56,408             | 6,000             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,408              | 56,408             | 6,000             |
| -4,90         | 138,400             | 64,000             | 74,400            | 78,610              | 65,408             | 13,202            |
| -5,90         | 156,400             | 74,000             | 82,400            | 96,619              | 75,408             | 21,211            |
| -6,90         | 174,400             | 84,000             | 90,400            | 114,641             | 85,408             | 29,233            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,685             | 95,408             | 37,277            |
| -8,90         | 210,398             | 104,000            | 106,398           | 150,759             | 105,408            | 45,351            |
| -9,90         | 228,397             | 114,000            | 114,397           | 168,872             | 115,408            | 53,464            |
| -10,30        | 235,596             | 118,000            | 117,596           | 176,131             | 119,408            | 56,723            |
| -11,20        | 251,794             | 127,000            | 124,794           | 192,491             | 128,408            | 64,083            |
| -12,20        | 269,791             | 137,000            | 132,791           | 210,721             | 138,408            | 72,313            |
| -13,20        | 287,786             | 147,000            | 140,786           | 229,011             | 148,408            | 80,603            |
| -14,20        | 305,780             | 157,000            | 148,780           | 247,361             | 158,408            | 88,953            |
| -15,20        | 323,773             | 167,000            | 156,773           | 265,772             | 168,408            | 97,364            |
| -16,20        | 341,763             | 177,000            | 164,763           | 284,243             | 178,408            | 105,835           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -16,60        | 348,958             | 181,000            | 167,958           | 291,648             | 182,408            | 109,240           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,959             | 161,000            | 187,959           | 291,648             | 162,408            | 129,240           |
| -18,07        | 379,899             | 175,743            | 204,156           | 323,434             | 177,151            | 146,283           |
| -19,07        | 400,882             | 185,743            | 215,139           | 345,055             | 187,151            | 157,904           |
| -20,07        | 421,862             | 195,743            | 226,119           | 366,717             | 197,151            | 169,566           |
| -21,07        | 442,838             | 205,743            | 237,095           | 388,416             | 207,151            | 181,265           |
| -22,07        | 463,811             | 215,743            | 248,068           | 531,185             | 217,151            | 314,034           |
| -22,87        | 480,587             | 223,743            | 256,844           | 541,796             | 225,149            | 316,647           |
| -24,35        | 511,495             | 238,486            | 273,009           | 832,163             | 239,885            | 592,279           |
| -26,35        | 553,408             | 258,486            | 294,922           | 854,353             | 259,871            | 594,482           |
| -28,35        | 595,301             | 278,486            | 316,815           | 901,652             | 279,858            | 621,793           |
| -29,15        | 612,052             | 286,486            | 325,566           | 918,920             | 287,853            | 631,067           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,15        | 612,052             | 286,486            | 325,566           | 918,921             | 287,853            | 631,067           |
| -30,34        | 635,233             | 298,414            | 336,818           | 941,441             | 299,653            | 641,789           |
| -31,44        | 656,602             | 309,414            | 347,187           | 960,989             | 310,536            | 650,452           |
| -32,63        | 679,766             | 321,343            | 358,423           | 981,028             | 322,342            | 658,686           |
| -33,73        | 701,120             | 332,343            | 368,777           | 998,574             | 333,232            | 665,342           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,73        | 701,120             | 332,343            | 368,777           | 998,574             | 333,232            | 665,342           |
| -34,74        | 721,139             | 342,400            | 378,739           | 1014,534            | 343,286            | 671,248           |
| -35,75        | 741,152             | 352,457            | 388,695           | 1029,933            | 353,340            | 676,593           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,75        | 741,152             | 352,457            | 388,695           | 1029,933            | 353,340            | 676,593           |
| -37,18        | 771,116             | 366,800            | 404,316           | 1052,424            | 367,582            | 684,842           |
| -39,18        | 812,876             | 386,800            | 426,076           | 1082,581            | 387,450            | 695,131           |
| -39,78        | 825,399             | 392,800            | 432,599           | 1091,426            | 393,412            | 698,014           |
| -43,81        | 909,537             | 433,143            | 476,394           | 1149,625            | 433,521            | 716,103           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,81        | 909,537             | 433,143            | 476,394           | 1149,625            | 433,521            | 716,104           |
| -46,22        | 959,630             | 457,186            | 502,444           | 1184,174            | 457,559            | 726,616           |
| -48,62        | 1009,686            | 481,229            | 528,458           | 1219,073            | 481,597            | 737,476           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,62        | 1009,687            | 481,229            | 528,458           | 1219,073            | 481,597            | 737,476           |
| -50,46        | 1044,264            | 499,614            | 544,650           | 1242,372            | 499,853            | 742,519           |
| -52,30        | 1078,822            | 518,000            | 560,822           | 1266,130            | 518,118            | 748,012           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1078,823            | 518,000            | 560,823           | 1266,131            | 518,118            | 748,012           |
| -53,25        | 1098,572            | 527,500            | 571,072           | 1280,562            | 527,617            | 752,945           |
| -54,20        | 1118,316            | 537,000            | 581,316           | 1295,131            | 537,115            | 758,016           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,316            | 537,000            | 581,316           | 1295,132            | 537,115            | 758,016           |
| -55,10        | 1135,216            | 546,000            | 589,216           | 1307,214            | 546,063            | 761,151           |
| -56,00        | 1152,113            | 555,000            | 597,113           | 1319,427            | 555,013            | 764,414           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1152,113            | 555,000            | 597,113           | 1319,427            | 555,013            | 764,414           |
| -58,79        | 1210,107            | 582,929            | 627,179           | 1363,882            | 582,938            | 780,944           |
| -61,59        | 1268,215            | 610,929            | 657,287           | 1409,667            | 610,934            | 798,733           |
| -64,39        | 1326,145            | 638,857            | 687,287           | 1456,485            | 638,860            | 817,625           |
| -67,19        | 1384,195            | 666,857            | 717,338           | 1504,490            | 666,857            | 837,633           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,19        | 1384,196            | 666,857            | 717,338           | 1504,490            | 666,857            | 837,633           |
| -71,59        | 1475,522            | 710,929            | 764,593           | 1581,988            | 710,929            | 871,059           |
| -76,09        | 1568,730            | 755,929            | 812,801           | 1663,228            | 755,929            | 907,299           |
| -80,50        | 1659,987            | 800,000            | 859,987           | 1744,522            | 800,000            | 944,522           |
| -85,00        | 1753,150            | 845,000            | 908,150           | 1828,999            | 845,000            | 983,999           |

| Laag<br>nummer | Zwel    |           | Zetting b. Sp |                         | Zetting a. Sp |                         |
|----------------|---------|-----------|---------------|-------------------------|---------------|-------------------------|
|                | Primair | Secundair | Primair       | Secundair<br>10 [dagen] | Primair       | Secundair<br>10 [dagen] |
|                | [m]     | [m]       | [m]           | [m]                     | [m]           | [m]                     |
| 23             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |
| 22             | 0,0000  | 0,0000    | 0,0000        | 0,0000                  | 0,0000        | 0,0000                  |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 21             | 0,0000         | 0,0000           | 0,0040         | 0,0000                         | 0,0001         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0373         | 0,0027                         | 0,0000         | 0,0000                         |
| 19             | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0383         | 0,0031                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0010         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0199         | 0,0013                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0081         | 0,0005                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0013         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,1109         | 0,0077                         | 0,0001         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,15     | 21             | 0,0040                      | 0,0000                         | 0,0040                     | 0,03                                             |
| -29,15     | -33,73     | 20             | 0,0373                      | 0,0027                         | 0,0478                     | 1,04                                             |
| -33,73     | -35,75     | 19             | 0,0007                      | 0,0000                         | 0,0007                     | 0,03                                             |
| -35,75     | -43,81     | 18             | 0,0383                      | 0,0031                         | 0,0505                     | 0,63                                             |
| -43,81     | -48,62     | 17             | 0,0010                      | 0,0000                         | 0,0010                     | 0,02                                             |
| -48,62     | -52,30     | 16             | 0,0199                      | 0,0013                         | 0,0250                     | 0,68                                             |
| -52,30     | -54,20     | 15             | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                             |
| -54,20     | -56,00     | 14             | 0,0081                      | 0,0005                         | 0,0102                     | 0,57                                             |
| -56,00     | -67,19     | 13             | 0,0013                      | 0,0000                         | 0,0013                     | 0,01                                             |
| -67,19     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,1110                      | 0,0077                         | 0,1408                     |                                                  |

### 3.41 Resultaat voor Verticaal 41 (X = 189,30 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,666              | 44,666             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 46,166              | 45,666             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,666              | 46,666             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,166              | 47,666             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,666              | 48,666             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 52,166              | 49,666             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,666              | 50,666             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 55,166              | 51,666             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,666              | 52,666             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 58,166              | 53,666             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,666              | 54,666             | 5,000             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,666              | 56,666             | 6,000             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,666              | 56,666             | 6,000             |
| -4,90         | 138,400             | 64,000             | 74,400            | 78,869              | 65,666             | 13,203            |
| -5,90         | 156,400             | 74,000             | 82,400            | 96,879              | 75,666             | 21,213            |
| -6,90         | 174,400             | 84,000             | 90,400            | 114,904             | 85,666             | 29,239            |
| -7,90         | 192,399             | 94,000             | 98,399            | 132,955             | 95,666             | 37,289            |
| -8,90         | 210,398             | 104,000            | 106,398           | 151,040             | 105,666            | 45,374            |
| -9,90         | 228,397             | 114,000            | 114,397           | 169,169             | 115,666            | 53,503            |
| -10,30        | 235,596             | 118,000            | 117,596           | 176,435             | 119,666            | 56,769            |
| -11,20        | 251,794             | 127,000            | 124,794           | 192,816             | 128,666            | 64,150            |
| -12,20        | 269,790             | 137,000            | 132,790           | 211,073             | 138,666            | 72,408            |
| -13,20        | 287,785             | 147,000            | 140,785           | 229,394             | 148,666            | 80,728            |
| -14,20        | 305,779             | 157,000            | 148,779           | 247,779             | 158,666            | 89,113            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -15,20        | 323,771             | 167,000            | 156,771           | 266,227             | 168,666            | 97,561            |
| -16,20        | 341,760             | 177,000            | 164,760           | 284,735             | 178,666            | 106,070           |
| -16,60        | 348,956             | 181,000            | 167,956           | 292,154             | 182,666            | 109,489           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,956             | 161,000            | 187,956           | 292,155             | 162,666            | 129,489           |
| -18,09        | 380,154             | 175,867            | 204,288           | 324,262             | 177,532            | 146,729           |
| -19,09        | 401,136             | 185,867            | 215,270           | 345,916             | 187,532            | 158,384           |
| -20,09        | 422,115             | 195,867            | 226,248           | 367,610             | 197,532            | 170,077           |
| -21,09        | 443,090             | 205,867            | 237,224           | 389,336             | 207,532            | 181,803           |
| -22,09        | 464,061             | 215,867            | 248,195           | 568,083             | 217,532            | 350,552           |
| -22,89        | 480,835             | 223,867            | 256,969           | 585,369             | 225,529            | 359,840           |
| -24,37        | 511,999             | 238,733            | 273,266           | 929,149             | 240,386            | 688,763           |
| -26,37        | 553,907             | 258,733            | 295,174           | 965,690             | 260,370            | 705,320           |
| -28,37        | 595,793             | 278,733            | 317,060           | 994,734             | 280,354            | 714,380           |
| -29,17        | 612,542             | 286,733            | 325,808           | 1005,427            | 288,349            | 717,078           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,17        | 612,542             | 286,733            | 325,808           | 1005,427            | 288,349            | 717,078           |
| -30,28        | 634,076             | 297,817            | 336,259           | 1018,284            | 299,247            | 719,037           |
| -31,48        | 657,383             | 309,817            | 347,566           | 1032,276            | 311,069            | 721,206           |
| -32,59        | 678,901             | 320,900            | 358,001           | 1045,239            | 322,009            | 723,230           |
| -33,79        | 702,190             | 332,900            | 369,290           | 1059,201            | 333,871            | 725,330           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,79        | 702,190             | 332,900            | 369,290           | 1059,201            | 333,871            | 725,330           |
| -34,80        | 722,389             | 343,050            | 379,339           | 1071,481            | 344,017            | 727,464           |
| -35,82        | 742,580             | 353,200            | 389,380           | 1083,585            | 354,164            | 729,421           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,82        | 742,580             | 353,200            | 389,380           | 1083,585            | 354,164            | 729,421           |
| -37,80        | 783,964             | 373,017            | 410,947           | 1108,525            | 373,825            | 734,700           |
| -39,80        | 825,702             | 393,017            | 432,686           | 1133,147            | 393,680            | 739,467           |
| -43,78        | 908,716             | 432,833            | 475,882           | 1181,736            | 433,241            | 748,495           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,78        | 908,716             | 432,833            | 475,883           | 1181,736            | 433,241            | 748,495           |
| -46,22        | 959,500             | 457,217            | 502,283           | 1212,191            | 457,618            | 754,573           |
| -48,66        | 1010,246            | 481,600            | 528,646           | 1243,579            | 481,996            | 761,583           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,66        | 1010,246            | 481,600            | 528,646           | 1243,579            | 481,996            | 761,583           |
| -50,48        | 1044,459            | 499,800            | 544,659           | 1263,997            | 500,057            | 763,941           |
| -52,30        | 1078,653            | 518,000            | 560,653           | 1285,147            | 518,127            | 767,020           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1078,653            | 518,000            | 560,653           | 1285,147            | 518,127            | 767,020           |
| -53,25        | 1098,394            | 527,500            | 570,894           | 1298,449            | 527,625            | 770,824           |
| -54,20        | 1118,131            | 537,000            | 581,131           | 1311,957            | 537,124            | 774,833           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1118,131            | 537,000            | 581,131           | 1311,957            | 537,124            | 774,833           |
| -55,10        | 1135,024            | 546,000            | 589,024           | 1323,089            | 546,068            | 777,021           |
| -56,00        | 1151,913            | 555,000            | 596,913           | 1334,405            | 555,014            | 779,391           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1151,913            | 555,000            | 596,913           | 1334,405            | 555,014            | 779,391           |
| -58,81        | 1210,205            | 583,083            | 627,122           | 1376,643            | 583,093            | 793,550           |
| -61,61        | 1268,290            | 611,083            | 657,207           | 1420,398            | 611,090            | 809,309           |
| -64,42        | 1326,518            | 639,167            | 687,351           | 1465,793            | 639,170            | 826,624           |
| -67,22        | 1384,547            | 667,167            | 717,380           | 1512,412            | 667,167            | 845,245           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,22        | 1384,547            | 667,167            | 717,380           | 1512,412            | 667,167            | 845,245           |
| -71,71        | 1477,592            | 712,083            | 765,509           | 1589,666            | 712,083            | 877,582           |
| -76,11        | 1568,700            | 756,083            | 812,617           | 1667,829            | 756,083            | 911,746           |
| -80,60        | 1661,681            | 801,000            | 860,681           | 1749,697            | 801,000            | 948,697           |
| -85,00        | 1752,752            | 845,000            | 907,752           | 1831,557            | 845,000            | 986,557           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0043         | 0,0000                         | 0,0007         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0414         | 0,0030                         | 0,0097         | 0,0005                         |
| 19             | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0422         | 0,0035                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0011         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0214         | 0,0014                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0087         | 0,0006                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0014         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,1217         | 0,0084                         | 0,0104         | 0,0005                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,17     | 21             | 0,0051                      | 0,0000                         | 0,0051                     | 0,04                                             |
| -29,17     | -33,79     | 20             | 0,0511                      | 0,0035                         | 0,0644                     | 1,39                                             |
| -33,79     | -35,82     | 19             | 0,0007                      | 0,0000                         | 0,0007                     | 0,04                                             |
| -35,82     | -43,78     | 18             | 0,0422                      | 0,0035                         | 0,0556                     | 0,70                                             |
| -43,78     | -48,66     | 17             | 0,0011                      | 0,0000                         | 0,0011                     | 0,02                                             |
| -48,66     | -52,30     | 16             | 0,0214                      | 0,0014                         | 0,0269                     | 0,74                                             |
| -52,30     | -54,20     | 15             | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                             |
| -54,20     | -56,00     | 14             | 0,0087                      | 0,0006                         | 0,0110                     | 0,61                                             |
| -56,00     | -67,22     | 13             | 0,0014                      | 0,0000                         | 0,0014                     | 0,01                                             |
| -67,22     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,1322                      | 0,0089                         | 0,1666                     |                                                  |

### 3.42 Resultaat voor Verticaal 42 (X = 193,20 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,818              | 44,818             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 46,318              | 45,818             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,818              | 46,818             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,318              | 47,818             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,818              | 48,818             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 52,318              | 49,818             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,818              | 50,818             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 55,318              | 51,818             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,818              | 52,818             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 58,318              | 53,818             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,819              | 54,818             | 5,000             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,819              | 56,818             | 6,000             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,819              | 56,818             | 6,001             |
| -4,90         | 138,400             | 64,000             | 74,400            | 79,023              | 65,818             | 13,204            |
| -5,90         | 156,400             | 74,000             | 82,400            | 97,039              | 75,818             | 21,220            |
| -6,90         | 174,400             | 84,000             | 90,400            | 115,078             | 85,818             | 29,259            |
| -7,90         | 192,399             | 94,000             | 98,399            | 133,153             | 95,818             | 37,334            |
| -8,90         | 210,398             | 104,000            | 106,398           | 151,276             | 105,818            | 45,458            |
| -9,90         | 228,396             | 114,000            | 114,396           | 169,459             | 115,818            | 53,640            |
| -10,30        | 235,596             | 118,000            | 117,596           | 176,750             | 119,818            | 56,931            |
| -11,20        | 251,793             | 127,000            | 124,793           | 193,195             | 128,818            | 64,377            |
| -12,20        | 269,789             | 137,000            | 132,789           | 211,536             | 138,818            | 72,718            |
| -13,20        | 287,784             | 147,000            | 140,784           | 229,949             | 148,818            | 81,130            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -14,20        | 305,777             | 157,000            | 148,777           | 248,430             | 158,818            | 89,612            |
| -15,20        | 323,768             | 167,000            | 156,768           | 266,976             | 168,818            | 98,158            |
| -16,20        | 341,757             | 177,000            | 164,757           | 285,581             | 178,818            | 106,762           |
| -16,60        | 348,952             | 181,000            | 167,952           | 293,037             | 182,818            | 110,219           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,952             | 161,000            | 187,952           | 293,038             | 162,818            | 130,219           |
| -18,10        | 380,409             | 175,990            | 204,418           | 325,545             | 177,809            | 147,736           |
| -19,10        | 401,389             | 185,990            | 215,399           | 347,279             | 187,809            | 159,470           |
| -20,10        | 422,366             | 195,990            | 226,376           | 369,043             | 197,809            | 171,234           |
| -21,10        | 443,340             | 205,990            | 237,349           | 390,829             | 207,809            | 183,021           |
| -22,10        | 464,309             | 215,990            | 248,318           | 569,631             | 217,808            | 351,824           |
| -22,90        | 481,081             | 223,990            | 257,090           | 587,067             | 225,805            | 361,262           |
| -24,40        | 512,500             | 238,981            | 273,519           | 932,552             | 240,786            | 691,766           |
| -26,40        | 554,401             | 258,981            | 295,420           | 974,671             | 260,770            | 713,901           |
| -28,40        | 596,278             | 278,981            | 317,298           | 1013,528            | 280,754            | 732,774           |
| -29,20        | 613,023             | 286,981            | 326,042           | 1027,828            | 288,748            | 739,080           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,20        | 613,023             | 286,981            | 326,042           | 1027,828            | 288,748            | 739,080           |
| -30,32        | 634,852             | 298,219            | 336,633           | 1044,797            | 299,776            | 745,021           |
| -31,52        | 658,152             | 310,219            | 347,933           | 1061,456            | 311,570            | 749,886           |
| -32,65        | 679,964             | 321,457            | 358,507           | 1075,855            | 322,635            | 753,221           |
| -33,85        | 703,246             | 333,457            | 369,789           | 1090,143            | 334,469            | 755,674           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,85        | 703,246             | 333,457            | 369,789           | 1090,143            | 334,469            | 755,674           |
| -34,87        | 723,622             | 343,700            | 379,922           | 1102,231            | 344,708            | 757,523           |
| -35,89        | 743,991             | 353,943            | 390,048           | 1113,748            | 354,947            | 758,801           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,89        | 743,991             | 353,943            | 390,048           | 1113,748            | 354,947            | 758,801           |
| -37,82        | 784,261             | 373,233            | 411,028           | 1136,051            | 374,077            | 761,973           |
| -39,82        | 825,984             | 393,233            | 432,751           | 1158,186            | 393,924            | 764,262           |
| -43,75        | 907,868             | 432,524            | 475,344           | 1201,082            | 432,946            | 768,136           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,75        | 907,868             | 432,524            | 475,344           | 1201,082            | 432,946            | 768,136           |
| -46,22        | 959,339             | 457,248            | 502,091           | 1229,062            | 457,664            | 771,398           |
| -48,70        | 1010,770            | 481,971            | 528,799           | 1258,329            | 482,382            | 775,947           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,70        | 1010,770            | 481,972            | 528,799           | 1258,329            | 482,382            | 775,947           |
| -50,50        | 1044,617            | 499,986            | 544,631           | 1276,887            | 500,252            | 776,635           |
| -52,30        | 1078,445            | 518,000            | 560,445           | 1296,340            | 518,132            | 778,208           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1078,445            | 518,000            | 560,445           | 1296,340            | 518,132            | 778,208           |
| -53,25        | 1098,177            | 527,500            | 570,677           | 1308,930            | 527,630            | 781,299           |
| -54,20        | 1117,904            | 537,000            | 580,904           | 1321,769            | 537,129            | 784,640           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1117,904            | 537,000            | 580,904           | 1321,769            | 537,129            | 784,640           |
| -55,10        | 1134,789            | 546,000            | 588,789           | 1332,304            | 546,071            | 786,233           |
| -56,00        | 1151,669            | 555,000            | 596,669           | 1343,060            | 555,014            | 788,045           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1151,669            | 555,000            | 596,669           | 1343,060            | 555,015            | 788,045           |
| -58,82        | 1210,256            | 583,238            | 627,018           | 1383,994            | 583,248            | 800,746           |
| -61,62        | 1268,315            | 611,238            | 657,077           | 1426,506            | 611,244            | 815,262           |
| -64,45        | 1326,839            | 639,476            | 687,362           | 1471,130            | 639,479            | 831,651           |
| -67,25        | 1384,844            | 667,476            | 717,368           | 1516,922            | 667,476            | 849,446           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,25        | 1384,845            | 667,476            | 717,368           | 1516,922            | 667,476            | 849,446           |
| -71,72        | 1477,534            | 712,238            | 765,296           | 1592,878            | 712,238            | 880,640           |
| -76,12        | 1568,613            | 756,238            | 812,374           | 1670,287            | 756,238            | 914,049           |
| -80,60        | 1661,247            | 801,000            | 860,247           | 1751,293            | 801,000            | 950,293           |
| -85,00        | 1752,298            | 845,000            | 907,298           | 1832,719            | 845,000            | 987,719           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0044         | 0,0000                         | 0,0008         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0417         | 0,0030                         | 0,0188         | 0,0009                         |
| 19             | 0,0000         | 0,0000           | 0,0008         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0441         | 0,0036                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0012         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0222         | 0,0014                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0091         | 0,0006                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0014         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,1253         | 0,0087                         | 0,0196         | 0,0009                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,20     | 21             | 0,0051                      | 0,0000                         | 0,0051                     | 0,04                                             |
| -29,20     | -33,85     | 20             | 0,0605                      | 0,0039                         | 0,0755                     | 1,62                                             |
| -33,85     | -35,89     | 19             | 0,0008                      | 0,0000                         | 0,0008                     | 0,04                                             |
| -35,89     | -43,75     | 18             | 0,0441                      | 0,0036                         | 0,0581                     | 0,74                                             |
| -43,75     | -48,70     | 17             | 0,0012                      | 0,0000                         | 0,0012                     | 0,02                                             |
| -48,70     | -52,30     | 16             | 0,0222                      | 0,0014                         | 0,0278                     | 0,77                                             |
| -52,30     | -54,20     | 15             | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                             |
| -54,20     | -56,00     | 14             | 0,0091                      | 0,0006                         | 0,0114                     | 0,63                                             |
| -56,00     | -67,25     | 13             | 0,0014                      | 0,0000                         | 0,0014                     | 0,01                                             |
| -67,25     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,1449                      | 0,0096                         | 0,1818                     |                                                  |

### 3.43 Resultaat voor Verticaal 43 (X = 197,10 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,845              | 44,845             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 46,345              | 45,845             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,845              | 46,845             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,345              | 47,845             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,845              | 48,845             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 52,345              | 49,845             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,845              | 50,845             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 55,345              | 51,845             | 3,500             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,845              | 52,845             | 4,000             |
| -3,70         | 117,700             | 52,000             | 65,700            | 58,345              | 53,845             | 4,500             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,845              | 54,845             | 5,001             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,846              | 56,845             | 6,001             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,846              | 56,845             | 6,001             |
| -4,90         | 138,400             | 64,000             | 74,400            | 79,056              | 65,845             | 13,211            |
| -5,90         | 156,400             | 74,000             | 82,400            | 97,094              | 75,845             | 21,249            |
| -6,90         | 174,400             | 84,000             | 90,400            | 115,183             | 85,845             | 29,339            |
| -7,90         | 192,399             | 94,000             | 98,399            | 133,343             | 95,845             | 37,499            |
| -8,90         | 210,398             | 104,000            | 106,398           | 151,588             | 105,845            | 45,743            |
| -9,90         | 228,396             | 114,000            | 114,396           | 169,923             | 115,845            | 54,078            |
| -10,30        | 235,595             | 118,000            | 117,595           | 177,282             | 119,845            | 57,437            |
| -11,20        | 251,792             | 127,000            | 124,792           | 193,891             | 128,845            | 65,047            |
| -12,20        | 269,788             | 137,000            | 132,788           | 212,423             | 138,845            | 73,578            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -13,20        | 287,782             | 147,000            | 140,782           | 231,027             | 148,845            | 82,182            |
| -14,20        | 305,775             | 157,000            | 148,775           | 249,694             | 158,845            | 90,849            |
| -15,20        | 323,765             | 167,000            | 156,765           | 268,413             | 168,845            | 99,568            |
| -16,20        | 341,753             | 177,000            | 164,753           | 287,174             | 178,845            | 108,329           |
| -16,60        | 348,947             | 181,000            | 167,947           | 294,688             | 182,845            | 111,844           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,948             | 161,000            | 187,947           | 294,689             | 162,845            | 131,844           |
| -18,11        | 380,662             | 176,114            | 204,547           | 327,655             | 177,959            | 149,696           |
| -19,11        | 401,640             | 186,114            | 215,526           | 349,491             | 187,959            | 161,532           |
| -20,11        | 422,615             | 196,114            | 226,501           | 371,338             | 197,959            | 173,379           |
| -21,11        | 443,586             | 206,114            | 237,471           | 393,190             | 207,959            | 185,231           |
| -22,11        | 464,552             | 216,114            | 248,437           | 572,041             | 217,958            | 354,083           |
| -22,91        | 481,321             | 224,114            | 257,207           | 589,509             | 225,956            | 363,554           |
| -24,42        | 512,994             | 239,229            | 273,766           | 935,371             | 241,060            | 694,311           |
| -26,42        | 554,886             | 259,229            | 295,657           | 977,956             | 261,044            | 716,912           |
| -28,42        | 596,753             | 279,229            | 317,525           | 1017,953            | 281,028            | 736,925           |
| -29,22        | 613,493             | 287,229            | 326,264           | 1032,845            | 289,022            | 743,823           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,22        | 613,493             | 287,229            | 326,264           | 1032,845            | 289,022            | 743,823           |
| -30,36        | 635,615             | 298,621            | 336,994           | 1050,873            | 300,197            | 750,676           |
| -31,56        | 658,907             | 310,621            | 348,286           | 1068,256            | 311,986            | 756,270           |
| -32,70        | 681,011             | 322,014            | 358,997           | 1083,319            | 323,197            | 760,122           |
| -33,90        | 704,283             | 334,014            | 370,269           | 1097,841            | 335,026            | 762,815           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -33,90        | 704,283             | 334,014            | 370,269           | 1097,841            | 335,026            | 762,815           |
| -34,94        | 724,835             | 344,350            | 380,485           | 1110,054            | 345,357            | 764,696           |
| -35,97        | 745,380             | 354,686            | 390,694           | 1121,543            | 355,689            | 765,854           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -35,97        | 745,380             | 354,686            | 390,694           | 1121,543            | 355,689            | 765,854           |
| -37,95        | 786,620             | 374,450            | 412,170           | 1143,847            | 375,288            | 768,559           |
| -39,84        | 826,238             | 393,450            | 432,788           | 1164,179            | 394,140            | 770,038           |
| -43,72        | 906,986             | 432,214            | 474,771           | 1204,997            | 432,637            | 772,360           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,72        | 906,986             | 432,214            | 474,771           | 1204,997            | 432,637            | 772,360           |
| -46,23        | 959,139             | 457,279            | 501,860           | 1232,482            | 457,695            | 774,787           |
| -48,73        | 1011,251            | 482,343            | 528,908           | 1261,416            | 482,753            | 778,662           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,73        | 1011,251            | 482,343            | 528,908           | 1261,416            | 482,753            | 778,662           |
| -50,52        | 1044,729            | 500,171            | 544,557           | 1279,341            | 500,438            | 778,903           |
| -52,30        | 1078,188            | 518,000            | 560,188           | 1298,205            | 518,133            | 780,072           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1078,188            | 518,000            | 560,188           | 1298,205            | 518,133            | 780,072           |
| -53,25        | 1097,910            | 527,500            | 570,410           | 1310,608            | 527,631            | 782,977           |
| -54,20        | 1117,626            | 537,000            | 580,626           | 1323,276            | 537,129            | 786,147           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1117,627            | 537,000            | 580,627           | 1323,276            | 537,130            | 786,147           |
| -55,10        | 1134,501            | 546,000            | 588,501           | 1333,661            | 546,071            | 787,590           |
| -56,00        | 1151,372            | 555,000            | 596,372           | 1344,279            | 555,015            | 789,264           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1151,372            | 555,000            | 596,372           | 1344,279            | 555,015            | 789,264           |
| -58,84        | 1210,250            | 583,393            | 626,857           | 1385,074            | 583,403            | 801,671           |
| -61,64        | 1268,281            | 611,393            | 656,888           | 1427,314            | 611,399            | 815,915           |
| -64,48        | 1327,098            | 639,786            | 687,312           | 1471,974            | 639,789            | 832,185           |
| -67,28        | 1385,078            | 667,786            | 717,293           | 1517,611            | 667,786            | 849,825           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,28        | 1385,079            | 667,786            | 717,293           | 1517,611            | 667,786            | 849,825           |
| -71,74        | 1477,412            | 712,393            | 765,019           | 1593,120            | 712,393            | 880,727           |
| -76,14        | 1568,460            | 756,393            | 812,067           | 1670,398            | 756,393            | 914,005           |
| -80,60        | 1660,749            | 801,000            | 859,749           | 1751,025            | 801,000            | 950,025           |
| -85,00        | 1751,780            | 845,000            | 906,780           | 1832,376            | 845,000            | 987,376           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0044         | 0,0000                         | 0,0008         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0420         | 0,0031                         | 0,0208         | 0,0010                         |
| 19          | 0,0000         | 0,0000           | 0,0008         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0440         | 0,0036                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0013         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0221         | 0,0014                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0092         | 0,0006                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0015         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,1255         | 0,0087                         | 0,0216         | 0,0010                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,22     | 21          | 0,0052                      | 0,0000                         | 0,0052                     | 0,04                                    |
| -29,22     | -33,90     | 20          | 0,0628                      | 0,0040                         | 0,0781                     | 1,67                                    |
| -33,90     | -35,97     | 19          | 0,0008                      | 0,0000                         | 0,0008                     | 0,04                                    |
| -35,97     | -43,72     | 18          | 0,0440                      | 0,0036                         | 0,0581                     | 0,75                                    |
| -43,72     | -48,73     | 17          | 0,0013                      | 0,0000                         | 0,0013                     | 0,02                                    |
| -48,73     | -52,30     | 16          | 0,0221                      | 0,0014                         | 0,0277                     | 0,78                                    |
| -52,30     | -54,20     | 15          | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                    |
| -54,20     | -56,00     | 14          | 0,0092                      | 0,0006                         | 0,0115                     | 0,64                                    |
| -56,00     | -67,28     | 13          | 0,0015                      | 0,0000                         | 0,0015                     | 0,01                                    |
| -67,28     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,1472                      | 0,0097                         | 0,1845                     |                                         |

### 3.44 Resultaat voor Verticaal 44 (X = 201,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,771              | 44,771             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 46,271              | 45,771             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,771              | 46,771             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,271              | 47,771             | 1,500             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,771              | 48,771             | 2,000             |
| -3,30         | 111,700             | 48,000             | 63,700            | 52,271              | 49,771             | 2,500             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,771              | 50,771             | 3,000             |
| -3,50         | 114,700             | 50,000             | 64,700            | 55,271              | 51,771             | 3,501             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,772              | 52,771             | 4,001             |
| -3,70         | 117,700             | 52,000             | 65,700            | 58,273              | 53,771             | 4,502             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,774              | 54,771             | 5,003             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,777              | 56,771             | 6,007             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,778              | 56,771             | 6,007             |
| -4,90         | 138,400             | 64,000             | 74,400            | 79,028              | 65,771             | 13,258            |
| -5,90         | 156,400             | 74,000             | 82,400            | 97,200              | 75,771             | 21,429            |
| -6,90         | 174,400             | 84,000             | 90,400            | 115,537             | 85,771             | 29,766            |
| -7,90         | 192,399             | 94,000             | 98,399            | 134,040             | 95,771             | 38,269            |
| -8,90         | 210,398             | 104,000            | 106,398           | 152,681             | 105,771            | 46,910            |
| -9,90         | 228,396             | 114,000            | 114,396           | 171,422             | 115,771            | 55,651            |
| -10,30        | 235,595             | 118,000            | 117,595           | 178,939             | 119,771            | 59,168            |
| -11,20        | 251,791             | 127,000            | 124,791           | 195,882             | 128,771            | 67,112            |

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| -12,20        | 269,787                          | 137,000                         | 132,787                        | 214,743                          | 138,771                         | 75,972                         |
| -13,20        | 287,780                          | 147,000                         | 140,780                        | 233,627                          | 148,771                         | 84,856                         |
| -14,20        | 305,772                          | 157,000                         | 148,772                        | 252,523                          | 158,771                         | 93,752                         |
| -15,20        | 323,761                          | 167,000                         | 156,761                        | 271,425                          | 168,771                         | 102,654                        |
| -16,20        | 341,747                          | 177,000                         | 164,747                        | 290,328                          | 178,771                         | 111,557                        |
| -16,60        | 348,941                          | 181,000                         | 167,941                        | 297,888                          | 182,771                         | 115,117                        |
| Laag 21       |                                  |                                 |                                |                                  |                                 |                                |
| -16,60        | 348,941                          | 161,000                         | 187,941                        | 297,888                          | 162,771                         | 135,118                        |
| -18,12        | 380,912                          | 176,238                         | 204,674                        | 331,252                          | 178,009                         | 153,244                        |
| -19,12        | 401,888                          | 186,238                         | 215,650                        | 353,136                          | 188,009                         | 165,128                        |
| -20,12        | 422,860                          | 196,238                         | 226,622                        | 375,007                          | 198,009                         | 176,999                        |
| -21,12        | 443,827                          | 206,238                         | 237,589                        | 396,863                          | 208,009                         | 188,854                        |
| -22,12        | 464,789                          | 216,238                         | 248,551                        | 575,699                          | 218,008                         | 357,691                        |
| -22,92        | 481,555                          | 224,238                         | 257,317                        | 593,126                          | 226,005                         | 367,121                        |
| -24,45        | 513,480                          | 239,476                         | 274,004                        | 938,889                          | 241,233                         | 697,655                        |
| -26,45        | 555,360                          | 259,476                         | 295,884                        | 979,733                          | 261,217                         | 718,516                        |
| -28,45        | 597,214                          | 279,476                         | 317,737                        | 1015,814                         | 281,201                         | 734,614                        |
| -29,25        | 613,947                          | 287,476                         | 326,471                        | 1028,772                         | 289,195                         | 739,577                        |
| Laag 20       |                                  |                                 |                                |                                  |                                 |                                |
| -29,25        | 613,947                          | 287,476                         | 326,471                        | 1028,772                         | 289,195                         | 739,577                        |
| -30,40        | 636,361                          | 299,024                         | 337,337                        | 1044,293                         | 300,528                         | 743,765                        |
| -31,60        | 659,642                          | 311,024                         | 348,618                        | 1059,179                         | 312,326                         | 746,852                        |
| -32,76        | 682,035                          | 322,571                         | 359,464                        | 1072,568                         | 323,701                         | 748,867                        |
| -33,96        | 705,295                          | 334,571                         | 370,724                        | 1085,712                         | 335,543                         | 750,170                        |
| Laag 19       |                                  |                                 |                                |                                  |                                 |                                |
| -33,96        | 705,295                          | 334,572                         | 370,724                        | 1085,713                         | 335,543                         | 750,170                        |
| -35,00        | 726,021                          | 345,000                         | 381,021                        | 1097,261                         | 345,967                         | 751,293                        |
| -36,04        | 746,739                          | 355,429                         | 391,310                        | 1108,412                         | 356,392                         | 752,020                        |
| Laag 18       |                                  |                                 |                                |                                  |                                 |                                |
| -36,04        | 746,739                          | 355,429                         | 391,310                        | 1108,412                         | 356,392                         | 752,020                        |
| -37,97        | 786,859                          | 374,667                         | 412,193                        | 1129,999                         | 375,474                         | 754,526                        |
| -39,87        | 826,455                          | 393,667                         | 432,788                        | 1150,778                         | 394,330                         | 756,448                        |
| -43,69        | 906,060                          | 431,905                         | 474,155                        | 1192,685                         | 432,312                         | 760,373                        |
| Laag 17       |                                  |                                 |                                |                                  |                                 |                                |
| -43,69        | 906,060                          | 431,905                         | 474,155                        | 1192,685                         | 432,313                         | 760,373                        |
| -46,23        | 958,890                          | 457,310                         | 501,580                        | 1221,786                         | 457,711                         | 764,076                        |
| -48,77        | 1011,676                         | 482,714                         | 528,962                        | 1252,344                         | 483,110                         | 769,235                        |
| Laag 16       |                                  |                                 |                                |                                  |                                 |                                |
| -48,77        | 1011,676                         | 482,714                         | 528,962                        | 1252,345                         | 483,110                         | 769,235                        |
| -50,54        | 1044,783                         | 500,357                         | 544,426                        | 1270,897                         | 500,615                         | 770,282                        |
| -52,30        | 1077,871                         | 518,000                         | 559,871                        | 1290,314                         | 518,129                         | 772,185                        |
| Laag 15       |                                  |                                 |                                |                                  |                                 |                                |
| -52,30        | 1077,871                         | 518,000                         | 559,871                        | 1290,314                         | 518,129                         | 772,185                        |
| -53,25        | 1097,581                         | 527,500                         | 570,081                        | 1303,094                         | 527,628                         | 775,467                        |
| -54,20        | 1117,286                         | 537,000                         | 580,286                        | 1316,122                         | 537,126                         | 778,996                        |
| Laag 14       |                                  |                                 |                                |                                  |                                 |                                |
| -54,20        | 1117,286                         | 537,000                         | 580,286                        | 1316,122                         | 537,126                         | 778,996                        |
| -55,10        | 1134,150                         | 546,000                         | 588,150                        | 1326,833                         | 546,069                         | 780,764                        |
| -56,00        | 1151,010                         | 555,000                         | 596,010                        | 1337,762                         | 555,014                         | 782,748                        |
| Laag 13       |                                  |                                 |                                |                                  |                                 |                                |
| -56,00        | 1151,010                         | 555,000                         | 596,010                        | 1337,762                         | 555,014                         | 782,748                        |
| -58,85        | 1210,176                         | 583,548                         | 626,628                        | 1379,675                         | 583,558                         | 796,117                        |
| -61,65        | 1268,176                         | 611,548                         | 656,628                        | 1422,667                         | 611,554                         | 811,113                        |
| -64,51        | 1327,284                         | 640,095                         | 687,189                        | 1468,223                         | 640,098                         | 828,124                        |
| -67,31        | 1385,238                         | 668,095                         | 717,143                        | 1514,402                         | 668,095                         | 846,307                        |
| Laag 1        |                                  |                                 |                                |                                  |                                 |                                |
| -67,31        | 1385,238                         | 668,095                         | 717,143                        | 1514,403                         | 668,095                         | 846,307                        |
| -71,75        | 1477,215                         | 712,548                         | 764,667                        | 1590,335                         | 712,548                         | 877,787                        |
| -76,15        | 1568,233                         | 756,548                         | 811,685                        | 1668,124                         | 756,548                         | 911,577                        |
| -80,60        | 1660,178                         | 801,000                         | 859,178                        | 1748,863                         | 801,000                         | 947,863                        |
| -85,00        | 1751,190                         | 845,000                         | 906,190                        | 1830,508                         | 845,000                         | 985,508                        |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0044         | 0,0000                         | 0,0008         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0422         | 0,0031                         | 0,0176         | 0,0008                         |
| 19          | 0,0000         | 0,0000           | 0,0008         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0421         | 0,0034                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0012         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0212         | 0,0014                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0089         | 0,0006                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0014         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,1227         | 0,0085                         | 0,0184         | 0,0008                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,25     | 21          | 0,0052                      | 0,0000                         | 0,0052                     | 0,04                                    |
| -29,25     | -33,96     | 20          | 0,0598                      | 0,0039                         | 0,0747                     | 1,59                                    |
| -33,96     | -36,04     | 19          | 0,0008                      | 0,0000                         | 0,0008                     | 0,04                                    |
| -36,04     | -43,69     | 18          | 0,0421                      | 0,0034                         | 0,0556                     | 0,73                                    |
| -43,69     | -48,77     | 17          | 0,0012                      | 0,0000                         | 0,0012                     | 0,02                                    |
| -48,77     | -52,30     | 16          | 0,0212                      | 0,0014                         | 0,0266                     | 0,75                                    |
| -52,30     | -54,20     | 15          | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                    |
| -54,20     | -56,00     | 14          | 0,0089                      | 0,0006                         | 0,0112                     | 0,62                                    |
| -56,00     | -67,31     | 13          | 0,0014                      | 0,0000                         | 0,0014                     | 0,01                                    |
| -67,31     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,1411                      | 0,0093                         | 0,1771                     |                                         |

### 3.45 Resultaat voor Verticaal 45 (X = 204,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,549              | 44,549             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 46,049              | 45,549             | 0,500             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,549              | 46,549             | 1,000             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,050              | 47,549             | 1,501             |
| -3,20         | 110,200             | 47,000             | 63,200            | 50,552              | 48,549             | 2,003             |
| -3,30         | 111,700             | 48,000             | 63,700            | 52,057              | 49,549             | 2,508             |
| -3,40         | 113,200             | 49,000             | 64,200            | 53,565              | 50,549             | 3,016             |
| -3,50         | 114,700             | 50,000             | 64,700            | 55,078              | 51,549             | 3,529             |
| -3,60         | 116,200             | 51,000             | 65,200            | 56,596              | 52,549             | 4,047             |
| -3,70         | 117,700             | 52,000             | 65,700            | 58,121              | 53,549             | 4,573             |
| -3,80         | 119,200             | 53,000             | 66,200            | 59,655              | 54,549             | 5,106             |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,747              | 56,549             | 6,198             |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 62,748              | 56,549             | 6,199             |
| -4,90         | 138,400             | 64,000             | 74,400            | 79,822              | 65,549             | 14,273            |
| -5,90         | 156,400             | 74,000             | 82,400            | 99,345              | 75,549             | 23,796            |
| -6,90         | 174,399             | 84,000             | 90,399            | 118,939             | 85,549             | 33,391            |
| -7,90         | 192,399             | 94,000             | 98,399            | 138,384             | 95,549             | 42,835            |
| -8,90         | 210,397             | 104,000            | 106,397           | 157,654             | 105,549            | 52,105            |
| -9,90         | 228,395             | 114,000            | 114,395           | 176,781             | 115,549            | 61,232            |
| -10,30        | 235,594             | 118,000            | 117,594           | 184,401             | 119,549            | 64,852            |
| -11,20        | 251,790             | 127,000            | 124,790           | 201,499             | 128,549            | 72,950            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,785             | 137,000            | 132,785           | 220,437             | 138,549            | 81,888            |
| -13,20        | 287,777             | 147,000            | 140,777           | 239,333             | 148,549            | 90,784            |
| -14,20        | 305,767             | 157,000            | 148,767           | 258,197             | 158,549            | 99,648            |
| -15,20        | 323,755             | 167,000            | 156,755           | 277,038             | 168,549            | 108,489           |
| -16,20        | 341,739             | 177,000            | 164,739           | 295,858             | 178,549            | 117,309           |
| -16,60        | 348,932             | 181,000            | 167,932           | 303,381             | 182,549            | 120,832           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,932             | 161,000            | 187,932           | 303,381             | 162,549            | 140,832           |
| -18,14        | 381,158             | 176,362            | 204,796           | 336,853             | 177,911            | 158,942           |
| -19,14        | 402,131             | 186,362            | 215,769           | 358,617             | 187,911            | 170,706           |
| -20,14        | 423,099             | 196,362            | 226,737           | 380,360             | 197,911            | 182,449           |
| -21,14        | 444,061             | 206,362            | 237,699           | 402,081             | 207,911            | 194,171           |
| -22,14        | 465,018             | 216,362            | 248,656           | 580,752             | 217,910            | 362,843           |
| -22,94        | 481,780             | 224,362            | 257,418           | 597,391             | 225,907            | 371,484           |
| -24,47        | 513,954             | 239,724            | 274,230           | 938,598             | 241,259            | 697,339           |
| -26,47        | 555,819             | 259,724            | 296,095           | 965,555             | 261,242            | 704,312           |
| -28,47        | 597,654             | 279,724            | 317,930           | 985,745             | 281,227            | 704,518           |
| -29,27        | 614,380             | 287,724            | 326,656           | 994,705             | 289,221            | 705,483           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,27        | 614,380             | 287,724            | 326,656           | 994,705             | 289,221            | 705,483           |
| -30,44        | 637,082             | 299,426            | 337,656           | 1006,832            | 300,744            | 706,088           |
| -31,64        | 660,350             | 311,426            | 348,923           | 1020,021            | 312,584            | 707,437           |
| -32,81        | 683,029             | 323,129            | 359,900           | 1033,205            | 324,152            | 709,052           |
| -34,01        | 706,274             | 335,129            | 371,145           | 1046,762            | 336,020            | 710,742           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,01        | 706,274             | 335,129            | 371,145           | 1046,762            | 336,020            | 710,742           |
| -35,06        | 727,171             | 345,650            | 381,521           | 1059,196            | 346,538            | 712,658           |
| -36,12        | 748,058             | 356,171            | 391,887           | 1071,501            | 357,055            | 714,445           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,12        | 748,059             | 356,172            | 391,887           | 1071,501            | 357,055            | 714,445           |
| -37,99        | 787,055             | 374,883            | 412,172           | 1094,812            | 375,627            | 719,185           |
| -39,89        | 826,624             | 393,883            | 432,740           | 1118,236            | 394,495            | 723,741           |
| -43,66        | 905,078             | 431,595            | 473,482           | 1164,967            | 431,974            | 732,994           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,66        | 905,078             | 431,595            | 473,482           | 1164,967            | 431,974            | 732,994           |
| -46,23        | 958,577             | 457,340            | 501,237           | 1197,927            | 457,713            | 740,214           |
| -48,81        | 1012,033            | 483,086            | 528,947           | 1232,073            | 483,453            | 748,620           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,81        | 1012,033            | 483,086            | 528,947           | 1232,073            | 483,453            | 748,620           |
| -50,55        | 1044,765            | 500,543            | 544,222           | 1252,396            | 500,783            | 751,614           |
| -52,30        | 1077,481            | 518,000            | 559,481           | 1273,399            | 518,121            | 755,278           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1077,481            | 518,000            | 559,481           | 1273,399            | 518,122            | 755,278           |
| -53,25        | 1097,177            | 527,500            | 569,677           | 1287,077            | 527,620            | 759,457           |
| -54,20        | 1116,869            | 537,000            | 579,869           | 1300,954            | 537,118            | 763,836           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1116,869            | 537,000            | 579,869           | 1300,954            | 537,118            | 763,836           |
| -55,10        | 1133,721            | 546,000            | 587,721           | 1312,432            | 546,065            | 766,367           |
| -56,00        | 1150,569            | 555,000            | 595,569           | 1324,087            | 555,013            | 769,074           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1150,569            | 555,000            | 595,569           | 1324,088            | 555,014            | 769,074           |
| -58,87        | 1210,019            | 583,702            | 626,317           | 1368,288            | 583,712            | 784,576           |
| -61,67        | 1267,986            | 611,702            | 656,284           | 1412,967            | 611,708            | 801,258           |
| -64,54        | 1327,384            | 640,405            | 686,980           | 1460,215            | 640,408            | 819,807           |
| -67,34        | 1385,312            | 668,405            | 716,907           | 1507,572            | 668,405            | 839,168           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,34        | 1385,312            | 668,405            | 716,907           | 1507,572            | 668,405            | 839,168           |
| -71,77        | 1476,932            | 712,702            | 764,230           | 1584,714            | 712,702            | 872,012           |
| -76,17        | 1567,922            | 756,702            | 811,219           | 1663,605            | 756,702            | 906,903           |
| -80,60        | 1659,525            | 801,000            | 858,525           | 1744,902            | 801,000            | 943,902           |
| -85,00        | 1750,522            | 845,000            | 905,522           | 1827,183            | 845,000            | 982,183           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0044         | 0,0000                         | 0,0007         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0420         | 0,0031                         | 0,0058         | 0,0003                         |
| 19          | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0383         | 0,0031                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0012         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0196         | 0,0013                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0083         | 0,0005                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0013         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,1163         | 0,0080                         | 0,0065         | 0,0003                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,27     | 21          | 0,0051                      | 0,0000                         | 0,0051                     | 0,04                                    |
| -29,27     | -34,01     | 20          | 0,0478                      | 0,0033                         | 0,0606                     | 1,28                                    |
| -34,01     | -36,12     | 19          | 0,0007                      | 0,0000                         | 0,0007                     | 0,04                                    |
| -36,12     | -43,66     | 18          | 0,0383                      | 0,0031                         | 0,0506                     | 0,67                                    |
| -43,66     | -48,81     | 17          | 0,0012                      | 0,0000                         | 0,0012                     | 0,02                                    |
| -48,81     | -52,30     | 16          | 0,0196                      | 0,0013                         | 0,0245                     | 0,70                                    |
| -52,30     | -54,20     | 15          | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                    |
| -54,20     | -56,00     | 14          | 0,0083                      | 0,0005                         | 0,0105                     | 0,58                                    |
| -56,00     | -67,34     | 13          | 0,0013                      | 0,0000                         | 0,0013                     | 0,01                                    |
| -67,34     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,1227                      | 0,0083                         | 0,1549                     |                                         |

### 3.46 Resultaat voor Verticaal 46 (X = 208,80 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,291              | 44,291             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,808              | 45,291             | 0,517             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,520              | 46,291             | 1,228             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,675              | 47,291             | 2,383             |
| -3,20         | 110,200             | 47,000             | 63,200            | 52,321              | 48,291             | 4,029             |
| -3,30         | 111,700             | 48,000             | 63,700            | 55,313              | 49,291             | 6,021             |
| -3,40         | 113,200             | 49,000             | 64,200            | 58,459              | 50,291             | 8,167             |
| -3,50         | 114,700             | 50,000             | 64,700            | 61,608              | 51,291             | 10,317            |
| -3,60         | 116,200             | 51,000             | 65,200            | 64,670              | 52,291             | 12,379            |
| -3,70         | 117,700             | 52,000             | 65,700            | 67,598              | 53,291             | 14,306            |
| -3,80         | 119,200             | 53,000             | 66,200            | 70,375              | 54,291             | 16,084            |
| -4,00         | 122,200             | 55,000             | 67,200            | 75,488              | 56,291             | 19,197            |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 75,489              | 56,291             | 19,197            |
| -4,90         | 138,400             | 64,000             | 74,400            | 96,249              | 65,291             | 30,958            |
| -5,90         | 156,400             | 74,000             | 82,400            | 115,363             | 75,291             | 40,071            |
| -6,90         | 174,399             | 84,000             | 90,399            | 133,497             | 85,291             | 48,205            |
| -7,90         | 192,398             | 94,000             | 98,398            | 151,492             | 95,291             | 56,201            |
| -8,90         | 210,397             | 104,000            | 106,397           | 169,558             | 105,291            | 64,266            |
| -9,90         | 228,394             | 114,000            | 114,394           | 187,732             | 115,291            | 72,441            |
| -10,30        | 235,592             | 118,000            | 117,592           | 195,032             | 119,291            | 75,740            |
| -11,20        | 251,788             | 127,000            | 124,788           | 211,507             | 128,291            | 83,215            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,782             | 137,000            | 132,782           | 229,880             | 138,291            | 91,589            |
| -13,20        | 287,773             | 147,000            | 140,773           | 248,304             | 148,291            | 100,013           |
| -14,20        | 305,761             | 157,000            | 148,761           | 266,761             | 158,291            | 108,470           |
| -15,20        | 323,746             | 167,000            | 156,746           | 285,237             | 168,291            | 116,946           |
| -16,20        | 341,728             | 177,000            | 164,728           | 303,722             | 178,291            | 125,430           |
| -16,60        | 348,919             | 181,000            | 167,919           | 311,116             | 182,291            | 128,825           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,919             | 161,000            | 187,919           | 311,117             | 162,291            | 148,825           |
| -18,15        | 381,399             | 176,486            | 204,914           | 344,385             | 177,777            | 166,608           |
| -19,15        | 402,367             | 186,486            | 215,881           | 365,859             | 187,777            | 178,082           |
| -20,15        | 423,329             | 196,486            | 226,844           | 387,322             | 197,777            | 189,545           |
| -21,15        | 444,286             | 206,486            | 237,800           | 408,772             | 207,777            | 200,995           |
| -22,15        | 465,236             | 216,486            | 248,750           | 576,144             | 217,776            | 358,368           |
| -22,95        | 481,991             | 224,486            | 257,505           | 567,328             | 225,773            | 341,554           |
| -24,50        | 514,411             | 239,971            | 274,440           | 884,518             | 241,250            | 643,268           |
| -26,50        | 556,255             | 259,971            | 296,284           | 850,062             | 261,236            | 588,826           |
| -28,50        | 598,067             | 279,971            | 318,096           | 888,909             | 281,224            | 607,686           |
| -29,30        | 614,783             | 287,971            | 326,811           | 905,122             | 289,219            | 615,903           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,30        | 614,783             | 287,972            | 326,811           | 905,122             | 289,219            | 615,903           |
| -30,48        | 637,769             | 299,829            | 337,940           | 926,215             | 300,954            | 625,261           |
| -31,68        | 661,019             | 311,829            | 349,191           | 946,228             | 312,833            | 633,395           |
| -32,87        | 683,981             | 323,686            | 360,295           | 964,875             | 324,575            | 640,300           |
| -34,07        | 707,206             | 335,686            | 371,521           | 982,847             | 336,462            | 646,385           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,07        | 707,207             | 335,686            | 371,521           | 982,848             | 336,462            | 646,385           |
| -35,13        | 728,270             | 346,300            | 381,970           | 998,788             | 347,073            | 651,715           |
| -36,19        | 749,325             | 356,914            | 392,410           | 1014,309            | 357,684            | 656,625           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,19        | 749,325             | 356,914            | 392,410           | 1014,310            | 357,684            | 656,625           |
| -38,01        | 787,194             | 375,100            | 412,094           | 1041,911            | 375,752            | 666,159           |
| -39,91        | 826,729             | 394,100            | 432,629           | 1070,164            | 394,638            | 675,526           |
| -43,63        | 904,023             | 431,286            | 472,738           | 1124,886            | 431,623            | 693,264           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,63        | 904,023             | 431,286            | 472,738           | 1124,887            | 431,623            | 693,264           |
| -46,24        | 958,185             | 457,371            | 500,814           | 1163,641            | 457,703            | 705,938           |
| -48,85        | 1012,303            | 483,457            | 528,846           | 1203,004            | 483,784            | 719,220           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,85        | 1012,304            | 483,457            | 528,846           | 1203,004            | 483,784            | 719,220           |
| -50,57        | 1044,659            | 500,729            | 543,930           | 1225,945            | 500,943            | 725,002           |
| -52,30        | 1076,999            | 518,000            | 558,999           | 1249,290            | 518,110            | 731,180           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1076,999            | 518,000            | 558,999           | 1249,290            | 518,110            | 731,180           |
| -53,25        | 1096,681            | 527,500            | 569,181           | 1264,264            | 527,609            | 736,656           |
| -54,20        | 1116,358            | 537,000            | 579,358           | 1279,367            | 537,107            | 742,260           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1116,359            | 537,000            | 579,358           | 1279,367            | 537,107            | 742,260           |
| -55,10        | 1133,197            | 546,000            | 587,197           | 1291,946            | 546,059            | 745,887           |
| -56,00        | 1150,032            | 555,000            | 595,032           | 1304,643            | 555,012            | 749,631           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1150,033            | 555,000            | 595,032           | 1304,643            | 555,012            | 749,631           |
| -58,89        | 1209,764            | 583,857            | 625,907           | 1352,043            | 583,866            | 768,177           |
| -61,69        | 1267,697            | 611,857            | 655,840           | 1399,120            | 611,863            | 787,257           |
| -64,57        | 1327,385            | 640,714            | 686,670           | 1448,684            | 640,717            | 807,967           |
| -67,37        | 1385,285            | 668,714            | 716,571           | 1497,710            | 668,714            | 828,996           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,37        | 1385,286            | 668,714            | 716,571           | 1497,710            | 668,714            | 828,996           |
| -71,79        | 1476,552            | 712,857            | 763,695           | 1576,671            | 712,857            | 863,813           |
| -76,19        | 1567,516            | 756,857            | 810,659           | 1657,135            | 756,857            | 900,278           |
| -80,60        | 1658,782            | 801,000            | 857,782           | 1739,352            | 801,000            | 938,352           |
| -85,00        | 1749,768            | 845,000            | 904,768           | 1822,555            | 845,000            | 977,555           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0042         | 0,0000                         | 0,0001         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0368         | 0,0027                         | 0,0000         | 0,0000                         |
| 19          | 0,0000         | 0,0000           | 0,0006         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0328         | 0,0027                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0010         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0173         | 0,0011                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0075         | 0,0005                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0012         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,1018         | 0,0070                         | 0,0001         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,30     | 21          | 0,0044                      | 0,0000                         | 0,0044                     | 0,03                                    |
| -29,30     | -34,07     | 20          | 0,0368                      | 0,0027                         | 0,0471                     | 0,99                                    |
| -34,07     | -36,19     | 19          | 0,0006                      | 0,0000                         | 0,0006                     | 0,03                                    |
| -36,19     | -43,63     | 18          | 0,0328                      | 0,0027                         | 0,0433                     | 0,58                                    |
| -43,63     | -48,85     | 17          | 0,0010                      | 0,0000                         | 0,0010                     | 0,02                                    |
| -48,85     | -52,30     | 16          | 0,0173                      | 0,0011                         | 0,0217                     | 0,63                                    |
| -52,30     | -54,20     | 15          | 0,0003                      | 0,0000                         | 0,0003                     | 0,02                                    |
| -54,20     | -56,00     | 14          | 0,0075                      | 0,0005                         | 0,0095                     | 0,53                                    |
| -56,00     | -67,37     | 13          | 0,0012                      | 0,0000                         | 0,0012                     | 0,01                                    |
| -67,37     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,1019                      | 0,0070                         | 0,1291                     |                                         |

### 3.47 Resultaat voor Verticaal 47 (X = 212,70 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 44,061              | 44,061             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,578              | 45,060             | 0,517             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,290              | 46,060             | 1,229             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,448              | 47,060             | 2,388             |
| -3,20         | 110,200             | 47,000             | 63,200            | 52,104              | 48,060             | 4,043             |
| -3,30         | 111,700             | 48,000             | 63,700            | 55,114              | 49,060             | 6,054             |
| -3,40         | 113,200             | 49,000             | 64,200            | 58,291              | 50,060             | 8,231             |
| -3,50         | 114,700             | 50,000             | 64,700            | 61,488              | 51,060             | 10,428            |
| -3,60         | 116,200             | 51,000             | 65,200            | 64,615              | 52,060             | 12,555            |
| -3,70         | 117,700             | 52,000             | 65,700            | 67,628              | 53,060             | 14,567            |
| -3,80         | 119,200             | 53,000             | 66,200            | 70,511              | 54,060             | 16,450            |
| -4,00         | 122,200             | 55,000             | 67,200            | 75,895              | 56,060             | 19,834            |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 75,895              | 56,061             | 19,834            |
| -4,90         | 138,400             | 64,000             | 74,400            | 98,545              | 65,060             | 33,484            |
| -5,90         | 156,400             | 74,000             | 82,400            | 120,012             | 75,060             | 44,952            |
| -6,90         | 174,399             | 84,000             | 90,399            | 140,101             | 85,060             | 55,040            |
| -7,90         | 192,398             | 94,000             | 98,398            | 159,535             | 95,060             | 64,474            |
| -8,90         | 210,396             | 104,000            | 106,396           | 178,566             | 105,060            | 73,506            |
| -9,90         | 228,392             | 114,000            | 114,392           | 197,321             | 115,060            | 82,261            |
| -10,30        | 235,591             | 118,000            | 117,591           | 204,765             | 119,060            | 85,704            |
| -11,20        | 251,785             | 127,000            | 124,785           | 221,420             | 128,060            | 93,359            |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,777             | 137,000            | 132,777           | 239,810             | 138,060            | 101,749           |
| -13,20        | 287,766             | 147,000            | 140,766           | 258,113             | 148,060            | 110,052           |
| -14,20        | 305,752             | 157,000            | 148,752           | 276,355             | 158,060            | 118,295           |
| -15,20        | 323,734             | 167,000            | 156,734           | 294,556             | 168,060            | 126,496           |
| -16,20        | 341,711             | 177,000            | 164,711           | 312,728             | 178,060            | 134,667           |
| -16,60        | 348,901             | 181,000            | 167,901           | 319,990             | 182,060            | 137,930           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,901             | 161,000            | 187,901           | 319,990             | 162,061            | 157,930           |
| -18,16        | 381,632             | 176,610            | 205,023           | 352,990             | 177,670            | 175,320           |
| -19,16        | 402,593             | 186,610            | 215,984           | 374,117             | 187,670            | 186,447           |
| -20,16        | 423,548             | 196,610            | 226,938           | 395,236             | 197,670            | 197,566           |
| -21,16        | 444,496             | 206,610            | 237,886           | 416,348             | 207,670            | 208,678           |
| -22,16        | 465,436             | 216,610            | 248,826           | 582,737             | 217,668            | 365,069           |
| -22,96        | 482,183             | 224,610            | 257,573           | 571,757             | 225,666            | 346,091           |
| -24,52        | 514,843             | 240,219            | 274,624           | 877,529             | 241,267            | 636,262           |
| -26,52        | 556,660             | 260,219            | 296,441           | 817,347             | 261,253            | 556,094           |
| -28,52        | 598,441             | 280,219            | 318,222           | 831,295             | 281,242            | 550,052           |
| -29,32        | 615,143             | 288,219            | 326,924           | 841,385             | 289,238            | 552,146           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,32        | 615,143             | 288,219            | 326,924           | 841,385             | 289,238            | 552,146           |
| -30,52        | 638,408             | 300,231            | 338,177           | 857,059             | 301,148            | 555,911           |
| -31,72        | 661,637             | 312,231            | 349,406           | 874,602             | 313,051            | 561,550           |
| -32,92        | 684,875             | 324,243            | 360,632           | 893,276             | 324,970            | 568,306           |
| -34,12        | 708,077             | 336,243            | 371,834           | 912,538             | 336,880            | 575,657           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,12        | 708,077             | 336,243            | 371,834           | 912,538             | 336,881            | 575,657           |
| -35,20        | 729,303             | 346,950            | 382,353           | 930,574             | 347,585            | 582,989           |
| -36,27        | 750,519             | 357,657            | 392,862           | 948,680             | 358,290            | 590,390           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,27        | 750,519             | 357,657            | 392,862           | 948,680             | 358,290            | 590,390           |
| -38,13        | 789,335             | 376,317            | 413,018           | 981,917             | 376,853            | 605,064           |
| -39,93        | 826,751             | 394,317            | 432,434           | 1013,712            | 394,766            | 618,946           |
| -43,60        | 902,876             | 430,976            | 471,899           | 1077,570            | 431,264            | 646,306           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,60        | 902,876             | 430,976            | 471,899           | 1077,570            | 431,264            | 646,306           |
| -46,24        | 957,692             | 457,402            | 500,290           | 1123,198            | 457,685            | 665,513           |
| -48,88        | 1012,466            | 483,829            | 528,637           | 1168,689            | 484,107            | 684,582           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,88        | 1012,466            | 483,829            | 528,637           | 1168,689            | 484,107            | 684,582           |
| -50,59        | 1044,442            | 500,914            | 543,528           | 1194,630            | 501,099            | 693,531           |
| -52,30        | 1076,404            | 518,000            | 558,404           | 1220,664            | 518,096            | 702,568           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1076,405            | 518,000            | 558,405           | 1220,664            | 518,096            | 702,568           |
| -53,25        | 1096,071            | 527,500            | 568,571           | 1237,141            | 527,595            | 709,546           |
| -54,20        | 1115,733            | 537,000            | 578,733           | 1253,662            | 537,093            | 716,569           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1115,734            | 537,000            | 578,733           | 1253,663            | 537,094            | 716,569           |
| -55,10        | 1132,558            | 546,000            | 586,558           | 1267,519            | 546,052            | 721,468           |
| -56,00        | 1149,380            | 555,000            | 594,380           | 1281,425            | 555,011            | 726,414           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1149,380            | 555,000            | 594,380           | 1281,425            | 555,011            | 726,414           |
| -58,80        | 1207,324            | 583,012            | 624,312           | 1330,761            | 583,020            | 747,741           |
| -61,70        | 1267,291            | 612,012            | 655,279           | 1382,400            | 612,017            | 770,383           |
| -64,50        | 1325,201            | 640,024            | 685,177           | 1432,841            | 640,026            | 792,814           |
| -67,40        | 1385,145            | 669,024            | 716,121           | 1485,635            | 669,024            | 816,611           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,40        | 1385,145            | 669,024            | 716,121           | 1485,635            | 669,024            | 816,611           |
| -71,80        | 1476,061            | 713,012            | 763,049           | 1566,781            | 713,012            | 853,769           |
| -76,20        | 1567,005            | 757,012            | 809,993           | 1649,130            | 757,012            | 892,118           |
| -80,60        | 1657,939            | 801,000            | 856,939           | 1732,510            | 801,000            | 931,510           |
| -85,00        | 1748,921            | 845,000            | 903,921           | 1816,842            | 845,000            | 971,842           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0040         | 0,0000                         | 0,0001         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0297         | 0,0022                         | 0,0000         | 0,0000                         |
| 19          | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0261         | 0,0021                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0009         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0146         | 0,0009                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0066         | 0,0004                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0011         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0838         | 0,0057                         | 0,0001         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,32     | 21          | 0,0041                      | 0,0000                         | 0,0041                     | 0,03                                    |
| -29,32     | -34,12     | 20          | 0,0297                      | 0,0022                         | 0,0382                     | 0,79                                    |
| -34,12     | -36,27     | 19          | 0,0005                      | 0,0000                         | 0,0005                     | 0,02                                    |
| -36,27     | -43,60     | 18          | 0,0261                      | 0,0021                         | 0,0345                     | 0,47                                    |
| -43,60     | -48,88     | 17          | 0,0009                      | 0,0000                         | 0,0009                     | 0,02                                    |
| -48,88     | -52,30     | 16          | 0,0146                      | 0,0009                         | 0,0183                     | 0,53                                    |
| -52,30     | -54,20     | 15          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -54,20     | -56,00     | 14          | 0,0066                      | 0,0004                         | 0,0082                     | 0,46                                    |
| -56,00     | -67,40     | 13          | 0,0011                      | 0,0000                         | 0,0011                     | 0,01                                    |
| -67,40     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0838                      | 0,0057                         | 0,1060                     |                                         |

### 3.48 Resultaat voor Verticaal 48 (X = 216,60 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 43,779              | 43,779             | 0,000             |
| -2,90         | 105,700             | 44,000             | 61,700            | 45,301              | 44,779             | 0,523             |
| -3,00         | 107,200             | 45,000             | 62,200            | 47,085              | 45,779             | 1,306             |
| -3,10         | 108,700             | 46,000             | 62,700            | 49,491              | 46,779             | 2,712             |
| -3,20         | 110,200             | 47,000             | 63,200            | 52,637              | 47,779             | 4,858             |
| -3,30         | 111,700             | 48,000             | 63,700            | 56,366              | 48,779             | 7,587             |
| -3,40         | 113,200             | 49,000             | 64,200            | 60,421              | 49,779             | 10,642            |
| -3,50         | 114,700             | 50,000             | 64,700            | 64,572              | 50,779             | 13,793            |
| -3,60         | 116,200             | 51,000             | 65,200            | 68,663              | 51,779             | 16,884            |
| -3,70         | 117,700             | 52,000             | 65,700            | 72,602              | 52,779             | 19,823            |
| -3,80         | 119,200             | 53,000             | 66,200            | 76,348              | 53,779             | 22,569            |
| -4,00         | 122,200             | 55,000             | 67,200            | 83,228              | 55,779             | 27,449            |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 83,228              | 55,779             | 27,449            |
| -4,90         | 138,400             | 64,000             | 74,400            | 109,569             | 64,779             | 44,790            |
| -5,90         | 156,400             | 74,000             | 82,400            | 132,327             | 74,779             | 57,548            |
| -6,90         | 174,399             | 84,000             | 90,399            | 152,680             | 84,779             | 67,901            |
| -7,90         | 192,397             | 94,000             | 98,397            | 171,982             | 94,779             | 77,203            |
| -8,90         | 210,395             | 104,000            | 106,395           | 190,720             | 104,779            | 85,941            |
| -9,90         | 228,390             | 114,000            | 114,390           | 209,111             | 114,779            | 94,333            |
| -10,30        | 235,588             | 118,000            | 117,588           | 216,400             | 118,779            | 97,621            |
| -11,20        | 251,781             | 127,000            | 124,781           | 232,692             | 127,779            | 104,913           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,771             | 137,000            | 132,771           | 250,666             | 137,779            | 112,887           |
| -13,20        | 287,757             | 147,000            | 140,757           | 268,547             | 147,779            | 120,769           |
| -14,20        | 305,739             | 157,000            | 148,739           | 286,367             | 157,779            | 128,588           |
| -15,20        | 323,716             | 167,000            | 156,716           | 304,148             | 167,779            | 136,369           |
| -16,20        | 341,687             | 177,000            | 164,687           | 321,906             | 177,779            | 144,127           |
| -16,60        | 348,874             | 181,000            | 167,874           | 329,006             | 181,779            | 147,227           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,874             | 161,000            | 187,874           | 329,006             | 161,779            | 167,227           |
| -18,17        | 381,853             | 176,733            | 205,119           | 361,644             | 177,512            | 184,132           |
| -19,17        | 402,804             | 186,733            | 216,071           | 382,390             | 187,512            | 194,878           |
| -20,17        | 423,748             | 196,733            | 227,015           | 403,142             | 197,512            | 205,629           |
| -21,17        | 444,683             | 206,733            | 237,950           | 423,900             | 207,512            | 216,388           |
| -22,17        | 465,610             | 216,733            | 248,877           | 583,855             | 217,510            | 366,345           |
| -22,97        | 482,345             | 224,733            | 257,612           | 556,187             | 225,508            | 330,679           |
| -24,55        | 515,239             | 240,467            | 274,773           | 840,060             | 241,233            | 598,827           |
| -26,55        | 557,019             | 260,467            | 296,553           | 728,445             | 261,222            | 467,223           |
| -28,55        | 598,759             | 280,467            | 318,292           | 740,008             | 281,214            | 458,794           |
| -29,35        | 615,444             | 288,467            | 326,977           | 751,634             | 289,212            | 462,422           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,35        | 615,444             | 288,467            | 326,977           | 751,634             | 289,212            | 462,422           |
| -30,56        | 638,981             | 300,633            | 338,347           | 770,693             | 301,310            | 469,384           |
| -31,76        | 662,181             | 312,633            | 349,547           | 791,810             | 313,245            | 478,565           |
| -32,98        | 685,689             | 324,800            | 360,889           | 814,547             | 325,348            | 489,198           |
| -34,18        | 708,861             | 336,800            | 372,061           | 837,666             | 337,287            | 500,379           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,18        | 708,861             | 336,800            | 372,061           | 837,667             | 337,287            | 500,379           |
| -35,26        | 730,244             | 347,600            | 382,644           | 859,327             | 348,086            | 511,242           |
| -36,34        | 751,616             | 358,400            | 393,216           | 881,036             | 358,884            | 522,152           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,34        | 751,616             | 358,400            | 393,216           | 881,036             | 358,884            | 522,152           |
| -38,15        | 789,291             | 376,533            | 412,758           | 919,022             | 376,951            | 542,071           |
| -39,95        | 826,662             | 394,533            | 432,129           | 956,215             | 394,887            | 561,328           |
| -43,57        | 901,608             | 430,667            | 470,941           | 1029,010            | 430,901            | 598,109           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,57        | 901,608             | 430,667            | 470,941           | 1029,010            | 430,901            | 598,109           |
| -46,24        | 957,070             | 457,433            | 499,637           | 1081,561            | 457,664            | 623,898           |
| -48,92        | 1012,493            | 484,200            | 528,293           | 1133,182            | 484,427            | 648,755           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,92        | 1012,494            | 484,200            | 528,293           | 1133,182            | 484,427            | 648,755           |
| -50,61        | 1044,089            | 501,100            | 542,989           | 1161,974            | 501,252            | 660,722           |
| -52,30        | 1075,673            | 518,000            | 557,673           | 1190,581            | 518,080            | 672,500           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1075,674            | 518,000            | 557,673           | 1190,581            | 518,080            | 672,500           |
| -53,25        | 1095,323            | 527,500            | 567,823           | 1208,539            | 527,579            | 680,959           |
| -54,20        | 1114,970            | 537,000            | 577,970           | 1226,464            | 537,078            | 689,386           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1114,970            | 537,000            | 577,970           | 1226,464            | 537,078            | 689,386           |
| -55,10        | 1131,781            | 546,000            | 585,781           | 1241,588            | 546,044            | 695,545           |
| -56,00        | 1148,589            | 555,000            | 593,589           | 1256,698            | 555,010            | 701,688           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1148,589            | 555,000            | 593,589           | 1256,698            | 555,010            | 701,688           |
| -58,82        | 1206,815            | 583,167            | 623,648           | 1309,673            | 583,174            | 726,500           |
| -61,72        | 1266,748            | 612,167            | 654,582           | 1364,247            | 612,171            | 752,076           |
| -64,53        | 1324,952            | 640,333            | 684,618           | 1417,377            | 640,335            | 777,042           |
| -67,43        | 1384,873            | 669,333            | 715,540           | 1472,273            | 669,333            | 802,940           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,43        | 1384,873            | 669,333            | 715,540           | 1472,274            | 669,333            | 802,940           |
| -71,82        | 1475,447            | 713,167            | 762,280           | 1555,710            | 713,167            | 842,543           |
| -76,22        | 1566,378            | 757,167            | 809,211           | 1640,071            | 757,167            | 882,904           |
| -80,60        | 1656,988            | 801,000            | 855,988           | 1724,728            | 801,000            | 923,728           |
| -85,00        | 1747,973            | 845,000            | 902,973           | 1810,304            | 845,000            | 965,304           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0034         | 0,0000                         | 0,0000         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0201         | 0,0015                         | 0,0000         | 0,0000                         |
| 19          | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0189         | 0,0015                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0117         | 0,0008                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0055         | 0,0004                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0010         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0617         | 0,0041                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,35     | 21          | 0,0034                      | 0,0000                         | 0,0034                     | 0,03                                    |
| -29,35     | -34,18     | 20          | 0,0201                      | 0,0015                         | 0,0258                     | 0,53                                    |
| -34,18     | -36,34     | 19          | 0,0004                      | 0,0000                         | 0,0004                     | 0,02                                    |
| -36,34     | -43,57     | 18          | 0,0189                      | 0,0015                         | 0,0250                     | 0,35                                    |
| -43,57     | -48,92     | 17          | 0,0007                      | 0,0000                         | 0,0007                     | 0,01                                    |
| -48,92     | -52,30     | 16          | 0,0117                      | 0,0008                         | 0,0147                     | 0,43                                    |
| -52,30     | -54,20     | 15          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -54,20     | -56,00     | 14          | 0,0055                      | 0,0004                         | 0,0069                     | 0,38                                    |
| -56,00     | -67,43     | 13          | 0,0010                      | 0,0000                         | 0,0010                     | 0,01                                    |
| -67,43     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0617                      | 0,0041                         | 0,0779                     |                                         |

### 3.49 Resultaat voor Verticaal 49 (X = 220,50 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,649             | 43,449             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 106,149             | 44,449             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,649             | 45,449             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 109,148             | 46,449             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,647             | 47,449             | 63,198            |
| -3,30         | 111,700             | 48,000             | 63,700            | 112,145             | 48,449             | 63,696            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,641             | 49,449             | 64,192            |
| -3,50         | 114,700             | 50,000             | 64,700            | 115,135             | 50,449             | 64,686            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,626             | 51,449             | 65,177            |
| -3,70         | 117,700             | 52,000             | 65,700            | 118,113             | 52,449             | 65,664            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,596             | 53,449             | 66,147            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,546             | 55,449             | 67,097            |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,546             | 55,449             | 67,097            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,191             | 64,449             | 73,743            |
| -5,90         | 156,400             | 74,000             | 82,400            | 155,000             | 74,449             | 80,551            |
| -6,90         | 174,398             | 84,000             | 90,398            | 171,548             | 84,449             | 87,099            |
| -7,90         | 192,396             | 94,000             | 98,396            | 188,119             | 94,449             | 93,671            |
| -8,90         | 210,393             | 104,000            | 106,393           | 204,824             | 104,449            | 100,375           |
| -9,90         | 228,387             | 114,000            | 114,387           | 221,677             | 114,449            | 107,228           |
| -10,30        | 235,584             | 118,000            | 117,584           | 228,455             | 118,449            | 110,006           |
| -11,20        | 251,775             | 127,000            | 124,775           | 243,773             | 127,449            | 116,324           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,761             | 137,000            | 132,761           | 260,882             | 137,449            | 123,433           |
| -13,20        | 287,742             | 147,000            | 140,742           | 278,065             | 147,449            | 130,617           |
| -14,20        | 305,718             | 157,000            | 148,718           | 295,307             | 157,449            | 137,858           |
| -15,20        | 323,688             | 167,000            | 156,688           | 312,597             | 167,449            | 145,148           |
| -16,20        | 341,651             | 177,000            | 164,651           | 329,926             | 177,449            | 152,477           |
| -16,60        | 348,834             | 181,000            | 167,834           | 336,867             | 181,449            | 155,418           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,834             | 161,000            | 187,834           | 336,867             | 161,449            | 175,418           |
| -18,19        | 382,053             | 176,857            | 205,196           | 369,191             | 177,306            | 191,885           |
| -19,19        | 402,991             | 186,857            | 216,134           | 389,612             | 187,306            | 202,307           |
| -20,19        | 423,919             | 196,857            | 227,062           | 410,059             | 197,306            | 212,753           |
| -21,19        | 444,837             | 206,857            | 237,980           | 430,529             | 207,306            | 223,223           |
| -22,19        | 465,744             | 216,857            | 248,887           | 451,038             | 217,306            | 233,733           |
| -22,99        | 482,463             | 224,857            | 257,606           | 467,868             | 225,306            | 242,562           |
| -24,57        | 515,580             | 240,714            | 274,866           | 504,303             | 241,163            | 263,140           |
| -26,57        | 557,310             | 260,714            | 296,596           | 558,653             | 261,163            | 297,490           |
| -28,57        | 598,995             | 280,714            | 318,281           | 620,386             | 281,162            | 339,223           |
| -29,37        | 615,657             | 288,714            | 326,943           | 644,489             | 289,162            | 355,328           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,37        | 615,657             | 288,714            | 326,943           | 644,490             | 289,162            | 355,328           |
| -30,60        | 639,457             | 301,036            | 338,421           | 678,333             | 301,462            | 376,871           |
| -31,80        | 662,621             | 313,036            | 349,586           | 709,753             | 313,438            | 396,315           |
| -33,04        | 686,390             | 325,357            | 361,033           | 740,709             | 325,731            | 414,978           |
| -34,24        | 709,525             | 337,357            | 372,168           | 769,826             | 337,701            | 432,126           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,24        | 709,525             | 337,357            | 372,168           | 769,826             | 337,701            | 432,126           |
| -35,33        | 731,059             | 348,250            | 382,809           | 796,096             | 348,592            | 447,503           |
| -36,41        | 752,581             | 359,143            | 393,438           | 821,762             | 359,484            | 462,278           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,41        | 752,581             | 359,143            | 393,438           | 821,762             | 359,484            | 462,278           |
| -38,17        | 789,110             | 376,750            | 412,360           | 863,857             | 377,053            | 486,804           |
| -39,98        | 826,428             | 394,750            | 431,678           | 905,636             | 395,012            | 510,624           |
| -43,54        | 900,186             | 430,357            | 469,828           | 985,148             | 430,539            | 554,609           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,54        | 900,186             | 430,357            | 469,828           | 985,148             | 430,539            | 554,609           |
| -46,25        | 956,287             | 457,464            | 498,823           | 1043,459            | 457,644            | 585,815           |
| -48,96        | 1012,355            | 484,571            | 527,783           | 1100,248            | 484,748            | 615,500           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,96        | 1012,355            | 484,572            | 527,783           | 1100,248            | 484,748            | 615,500           |
| -50,63        | 1043,570            | 501,286            | 542,284           | 1131,263            | 501,406            | 629,857           |
| -52,30        | 1074,776            | 518,000            | 556,776           | 1161,907            | 518,065            | 643,843           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1074,776            | 518,000            | 556,776           | 1161,908            | 518,065            | 643,843           |
| -53,25        | 1094,410            | 527,500            | 566,910           | 1181,115            | 527,564            | 653,551           |
| -54,20        | 1114,042            | 537,000            | 577,042           | 1200,234            | 537,063            | 663,170           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1114,042            | 537,000            | 577,042           | 1200,234            | 537,063            | 663,171           |
| -55,10        | 1130,839            | 546,000            | 584,839           | 1216,447            | 546,035            | 670,411           |
| -56,00        | 1147,634            | 555,000            | 592,634           | 1232,597            | 555,008            | 677,589           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1147,634            | 555,000            | 592,634           | 1232,597            | 555,008            | 677,589           |
| -58,83        | 1206,144            | 583,321            | 622,822           | 1288,833            | 583,327            | 705,506           |
| -61,73        | 1266,049            | 612,321            | 653,727           | 1346,037            | 612,325            | 733,712           |
| -64,56        | 1324,550            | 640,643            | 683,907           | 1401,677            | 640,645            | 761,032           |
| -67,46        | 1384,456            | 669,643            | 714,813           | 1458,532            | 669,643            | 788,889           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,46        | 1384,456            | 669,643            | 714,813           | 1458,532            | 669,643            | 788,889           |
| -71,83        | 1474,696            | 713,321            | 761,375           | 1544,121            | 713,321            | 830,800           |
| -76,23        | 1565,624            | 757,321            | 808,303           | 1630,451            | 757,321            | 873,129           |
| -80,60        | 1655,921            | 801,000            | 854,921           | 1716,374            | 801,000            | 915,374           |
| -85,00        | 1746,919            | 845,000            | 901,919           | 1803,218            | 845,000            | 958,218           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21          | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 20          | 0,0000         | 0,0000           | 0,0081         | 0,0006                         | 0,0000         | 0,0000                         |
| 19          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 18          | 0,0000         | 0,0000           | 0,0120         | 0,0010                         | 0,0000         | 0,0000                         |
| 17          | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |
| 16          | 0,0000         | 0,0000           | 0,0089         | 0,0006                         | 0,0000         | 0,0000                         |
| 15          | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 14          | 0,0000         | 0,0000           | 0,0044         | 0,0003                         | 0,0000         | 0,0000                         |
| 13          | 0,0000         | 0,0000           | 0,0008         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0352         | 0,0024                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 23          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 22          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,37     | 21          | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -29,37     | -34,24     | 20          | 0,0081                      | 0,0006                         | 0,0104                     | 0,21                                    |
| -34,24     | -36,41     | 19          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -36,41     | -43,54     | 18          | 0,0120                      | 0,0010                         | 0,0159                     | 0,22                                    |
| -43,54     | -48,96     | 17          | 0,0005                      | 0,0000                         | 0,0005                     | 0,01                                    |
| -48,96     | -52,30     | 16          | 0,0089                      | 0,0006                         | 0,0112                     | 0,33                                    |
| -52,30     | -54,20     | 15          | 0,0002                      | 0,0000                         | 0,0002                     | 0,01                                    |
| -54,20     | -56,00     | 14          | 0,0044                      | 0,0003                         | 0,0055                     | 0,31                                    |
| -56,00     | -67,46     | 13          | 0,0008                      | 0,0000                         | 0,0008                     | 0,01                                    |
| -67,46     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0352                      | 0,0024                         | 0,0449                     |                                         |

### 3.50 Resultaat voor Verticaal 50 (X = 224,40 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 23       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,452             | 43,252             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,952             | 44,252             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,452             | 45,252             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,952             | 46,252             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,452             | 47,252             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,952             | 48,252             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,452             | 49,252             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,952             | 50,252             | 64,699            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,451             | 51,252             | 65,199            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,951             | 52,252             | 65,698            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,450             | 53,252             | 66,198            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,447             | 55,252             | 67,195            |
| Laag 22       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,447             | 55,252             | 67,195            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,610             | 64,252             | 74,358            |
| -5,90         | 156,399             | 74,000             | 82,399            | 156,480             | 74,252             | 82,228            |
| -6,90         | 174,398             | 84,000             | 90,398            | 174,216             | 84,252             | 89,964            |
| -7,90         | 192,395             | 94,000             | 98,395            | 191,806             | 94,252             | 97,554            |
| -8,90         | 210,390             | 104,000            | 106,390           | 209,270             | 104,252            | 105,018           |
| -9,90         | 228,381             | 114,000            | 114,381           | 226,637             | 114,252            | 112,385           |
| -10,30        | 235,577             | 118,000            | 117,577           | 233,565             | 118,252            | 115,313           |
| -11,20        | 251,764             | 127,000            | 124,764           | 249,124             | 127,252            | 121,872           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,745             | 137,000            | 132,745           | 266,384             | 137,252            | 129,132           |
| -13,20        | 287,719             | 147,000            | 140,719           | 283,631             | 147,252            | 136,379           |
| -14,20        | 305,686             | 157,000            | 148,686           | 300,877             | 157,252            | 143,624           |
| -15,20        | 323,644             | 167,000            | 156,644           | 318,129             | 167,252            | 150,877           |
| -16,20        | 341,593             | 177,000            | 164,593           | 335,392             | 177,252            | 158,140           |
| -16,60        | 348,770             | 181,000            | 167,770           | 342,301             | 181,252            | 161,049           |
| Laag 21       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,771             | 161,000            | 187,771           | 342,301             | 161,252            | 181,049           |
| -18,20        | 382,221             | 176,981            | 205,240           | 374,721             | 177,233            | 197,488           |
| -19,20        | 403,138             | 186,981            | 216,157           | 395,029             | 187,233            | 207,795           |
| -20,20        | 424,043             | 196,981            | 227,062           | 415,352             | 197,233            | 218,119           |
| -21,20        | 444,936             | 206,981            | 237,955           | 435,691             | 207,233            | 228,458           |
| -22,20        | 465,816             | 216,981            | 248,835           | 456,047             | 217,233            | 238,814           |
| -23,00        | 482,511             | 224,981            | 257,530           | 472,364             | 225,233            | 247,131           |
| -24,60        | 515,837             | 240,962            | 274,875           | 505,307             | 241,214            | 264,093           |
| -26,60        | 557,499             | 260,962            | 296,537           | 548,192             | 261,214            | 286,978           |
| -28,60        | 599,112             | 280,962            | 318,150           | 594,506             | 281,214            | 313,292           |
| -29,40        | 615,744             | 288,962            | 326,782           | 614,003             | 289,214            | 324,789           |
| Laag 20       |                     |                    |                   |                     |                    |                   |
| -29,40        | 615,744             | 288,962            | 326,782           | 614,004             | 289,214            | 324,789           |
| -30,64        | 639,796             | 301,438            | 338,358           | 643,297             | 301,689            | 341,609           |
| -31,84        | 662,915             | 313,438            | 349,477           | 671,964             | 313,684            | 358,280           |
| -33,09        | 686,935             | 325,914            | 361,021           | 701,903             | 326,152            | 375,751           |
| -34,29        | 710,025             | 337,914            | 372,111           | 730,581             | 338,141            | 392,440           |
| Laag 19       |                     |                    |                   |                     |                    |                   |
| -34,29        | 710,025             | 337,914            | 372,111           | 730,582             | 338,141            | 392,441           |
| -35,39        | 731,701             | 348,900            | 382,801           | 757,165             | 349,126            | 408,039           |
| -36,49        | 753,367             | 359,886            | 393,482           | 783,459             | 360,111            | 423,347           |
| Laag 18       |                     |                    |                   |                     |                    |                   |
| -36,49        | 753,367             | 359,886            | 393,482           | 783,459             | 360,112            | 423,347           |
| -38,20        | 788,744             | 376,967            | 411,778           | 825,377             | 377,173            | 448,204           |
| -40,00        | 826,003             | 394,967            | 431,037           | 868,646             | 395,151            | 473,495           |
| -43,50        | 898,566             | 430,048            | 468,519           | 950,396             | 430,183            | 520,213           |
| Laag 17       |                     |                    |                   |                     |                    |                   |
| -43,50        | 898,567             | 430,048            | 468,519           | 950,397             | 430,183            | 520,213           |
| -46,25        | 955,302             | 457,495            | 497,807           | 1012,264            | 457,629            | 554,635           |
| -48,99        | 1012,013            | 484,943            | 527,070           | 1072,555            | 485,075            | 587,480           |
| Laag 16       |                     |                    |                   |                     |                    |                   |
| -48,99        | 1012,013            | 484,943            | 527,070           | 1072,555            | 485,075            | 587,480           |
| -50,65        | 1042,849            | 501,471            | 541,378           | 1104,869            | 501,563            | 603,306           |
| -52,30        | 1073,680            | 518,000            | 555,680           | 1136,766            | 518,051            | 618,715           |
| Laag 15       |                     |                    |                   |                     |                    |                   |
| -52,30        | 1073,681            | 518,000            | 555,680           | 1136,766            | 518,051            | 618,715           |
| -53,25        | 1093,299            | 527,500            | 565,799           | 1156,853            | 527,550            | 629,303           |
| -54,20        | 1112,917            | 537,000            | 575,917           | 1176,830            | 537,049            | 639,781           |
| Laag 14       |                     |                    |                   |                     |                    |                   |
| -54,20        | 1112,918            | 537,000            | 575,918           | 1176,830            | 537,049            | 639,781           |
| -55,10        | 1129,702            | 546,000            | 583,702           | 1193,839            | 546,028            | 647,812           |
| -56,00        | 1146,487            | 555,000            | 591,487           | 1210,764            | 555,007            | 655,758           |
| Laag 13       |                     |                    |                   |                     |                    |                   |
| -56,00        | 1146,487            | 555,000            | 591,487           | 1210,765            | 555,007            | 655,758           |
| -58,85        | 1205,287            | 583,476            | 621,811           | 1269,591            | 583,481            | 686,110           |
| -61,75        | 1265,171            | 612,476            | 652,695           | 1328,888            | 612,479            | 716,409           |
| -64,60        | 1323,979            | 640,952            | 683,026           | 1386,668            | 640,954            | 745,714           |
| -67,50        | 1383,877            | 669,952            | 713,925           | 1445,183            | 669,952            | 775,231           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -67,50        | 1383,877            | 669,952            | 713,925           | 1445,183            | 669,952            | 775,231           |
| -71,85        | 1473,797            | 713,476            | 760,321           | 1532,605            | 713,476            | 819,129           |
| -76,25        | 1564,736            | 757,476            | 807,260           | 1620,719            | 757,476            | 863,243           |
| -80,60        | 1654,730            | 801,000            | 853,730           | 1707,794            | 801,000            | 906,794           |
| -85,00        | 1745,753            | 845,000            | 900,753           | 1795,853            | 845,000            | 950,853           |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 23             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 22             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 21             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 20             | 0,0000         | 0,0000           | 0,0020         | 0,0001                         | 0,0000         | 0,0000                         |
| 19             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 18             | 0,0000         | 0,0000           | 0,0068         | 0,0006                         | 0,0000         | 0,0000                         |
| 17             | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 16             | 0,0000         | 0,0000           | 0,0065         | 0,0004                         | 0,0000         | 0,0000                         |
| 15             | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 14             | 0,0000         | 0,0000           | 0,0034         | 0,0002                         | 0,0000         | 0,0000                         |
| 13             | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0199         | 0,0013                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 23             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 22             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,40     | 21             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,40     | -34,29     | 20             | 0,0020                      | 0,0001                         | 0,0026                     | 0,05                                             |
| -34,29     | -36,49     | 19             | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                             |
| -36,49     | -43,50     | 18             | 0,0068                      | 0,0006                         | 0,0090                     | 0,13                                             |
| -43,50     | -48,99     | 17             | 0,0004                      | 0,0000                         | 0,0004                     | 0,01                                             |
| -48,99     | -52,30     | 16             | 0,0065                      | 0,0004                         | 0,0081                     | 0,25                                             |
| -52,30     | -54,20     | 15             | 0,0001                      | 0,0000                         | 0,0001                     | 0,01                                             |
| -54,20     | -56,00     | 14             | 0,0034                      | 0,0002                         | 0,0043                     | 0,24                                             |
| -56,00     | -67,50     | 13             | 0,0007                      | 0,0000                         | 0,0007                     | 0,01                                             |
| -67,50     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0199                      | 0,0013                         | 0,0252                     |                                                  |

### 3.51 Resultaat voor Verticaal 51 (X = 228,30 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,344             | 43,144             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,844             | 44,144             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,344             | 45,144             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,844             | 46,144             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,344             | 47,144             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,844             | 48,144             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,344             | 49,144             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,844             | 50,144             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,344             | 51,144             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,844             | 52,144             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,343             | 53,144             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,343             | 55,144             | 67,199            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,343             | 55,144             | 67,199            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,535             | 64,144             | 74,392            |
| -5,90         | 156,399             | 74,000             | 82,399            | 156,507             | 74,144             | 82,363            |
| -6,90         | 174,397             | 84,000             | 90,397            | 174,439             | 84,144             | 90,295            |
| -7,90         | 192,392             | 94,000             | 98,392            | 192,317             | 94,144             | 98,173            |
| -8,90         | 210,384             | 104,000            | 106,384           | 210,130             | 104,144            | 105,986           |
| -9,90         | 228,372             | 114,000            | 114,372           | 227,872             | 114,144            | 113,729           |
| -10,30        | 235,565             | 118,000            | 117,565           | 234,950             | 118,144            | 116,806           |
| -11,20        | 251,746             | 127,000            | 124,746           | 250,835             | 127,144            | 123,691           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,718             | 137,000            | 132,718           | 268,425             | 137,144            | 131,282           |
| -13,20        | 287,680             | 147,000            | 140,680           | 285,961             | 147,144            | 138,818           |
| -14,20        | 305,632             | 157,000            | 148,632           | 303,451             | 157,144            | 146,307           |
| -15,20        | 323,572             | 167,000            | 156,572           | 320,903             | 167,144            | 153,759           |
| -16,20        | 341,500             | 177,000            | 164,500           | 338,323             | 177,144            | 161,179           |
| -16,60        | 348,668             | 181,000            | 167,668           | 345,284             | 181,144            | 164,140           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,668             | 161,000            | 187,668           | 345,284             | 161,144            | 184,140           |
| -18,20        | 382,214             | 177,047            | 205,167           | 377,992             | 177,191            | 200,801           |
| -19,20        | 403,100             | 187,047            | 216,053           | 398,355             | 187,191            | 211,165           |
| -20,20        | 423,971             | 197,047            | 226,924           | 418,708             | 197,191            | 221,518           |
| -21,20        | 444,827             | 207,047            | 237,780           | 439,055             | 207,191            | 231,864           |
| -22,20        | 465,668             | 217,047            | 248,620           | 459,398             | 217,191            | 242,207           |
| -23,00        | 482,330             | 225,047            | 257,282           | 475,675             | 225,191            | 250,484           |
| -24,61        | 515,724             | 241,094            | 274,629           | 508,392             | 241,238            | 267,154           |
| -26,61        | 557,294             | 261,094            | 296,199           | 549,592             | 261,238            | 288,354           |
| -28,61        | 598,812             | 281,094            | 317,718           | 591,927             | 281,238            | 310,689           |
| -29,41        | 615,406             | 289,094            | 326,312           | 609,311             | 289,238            | 320,073           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,41        | 615,407             | 289,094            | 326,312           | 609,311             | 289,238            | 320,073           |
| -30,66        | 639,446             | 301,594            | 337,851           | 635,145             | 301,738            | 333,407           |
| -31,86        | 662,509             | 313,594            | 348,914           | 660,525             | 313,738            | 346,787           |
| -33,11        | 686,518             | 326,094            | 360,424           | 687,454             | 326,237            | 361,216           |
| -34,31        | 709,555             | 338,094            | 371,461           | 713,647             | 338,234            | 375,413           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,31        | 709,556             | 338,094            | 371,461           | 713,648             | 338,235            | 375,413           |
| -35,42        | 731,399             | 349,189            | 382,210           | 738,611             | 349,329            | 389,282           |
| -36,53        | 753,233             | 360,283            | 392,951           | 763,665             | 360,423            | 403,243           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,53        | 753,234             | 360,283            | 392,951           | 763,666             | 360,423            | 403,243           |
| -38,24        | 788,572             | 377,377            | 411,195           | 803,980             | 377,508            | 426,471           |
| -40,04        | 825,767             | 395,377            | 430,390           | 846,246             | 395,497            | 450,749           |
| -43,55        | 898,249             | 430,471            | 467,778           | 927,582             | 430,564            | 497,018           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,55        | 898,249             | 430,472            | 467,778           | 927,582             | 430,564            | 497,019           |
| -46,27        | 954,537             | 457,736            | 496,801           | 989,579             | 457,827            | 531,752           |
| -49,00        | 1010,814            | 485,000            | 525,814           | 1050,477            | 485,090            | 565,387           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 1010,814            | 485,000            | 525,814           | 1050,477            | 485,090            | 565,387           |
| -50,59        | 1040,427            | 500,887            | 539,540           | 1082,277            | 500,950            | 581,327           |
| -52,18        | 1070,039            | 516,774            | 553,265           | 1113,747            | 516,809            | 596,938           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -52,18        | 1070,039            | 516,774            | 553,265           | 1113,748            | 516,809            | 596,938           |
| -53,13        | 1089,744            | 526,321            | 563,422           | 1134,437            | 526,356            | 608,081           |
| -54,09        | 1109,449            | 535,869            | 573,580           | 1155,021            | 535,902            | 619,119           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -54,09        | 1109,449            | 535,869            | 573,580           | 1155,021            | 535,902            | 619,119           |
| -54,90        | 1124,643            | 544,020            | 580,623           | 1170,873            | 544,039            | 626,834           |
| -55,72        | 1139,838            | 552,171            | 587,666           | 1186,657            | 552,176            | 634,480           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -55,72        | 1139,838            | 552,172            | 587,667           | 1186,657            | 552,176            | 634,481           |
| -58,33        | 1193,670            | 578,250            | 615,420           | 1241,990            | 578,254            | 663,736           |
| -60,92        | 1247,348            | 604,250            | 643,098           | 1296,595            | 604,252            | 692,343           |
| -63,53        | 1301,198            | 630,329            | 670,869           | 1350,900            | 630,330            | 720,570           |
| -66,13        | 1354,898            | 656,329            | 698,569           | 1404,664            | 656,329            | 748,335           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -66,13        | 1354,898            | 656,329            | 698,570           | 1404,664            | 656,329            | 748,335           |
| -70,87        | 1452,700            | 703,664            | 749,036           | 1501,816            | 703,664            | 798,152           |
| -75,57        | 1549,858            | 750,664            | 799,194           | 1597,638            | 750,664            | 846,973           |
| -80,30        | 1647,764            | 798,000            | 849,764           | 1693,760            | 798,000            | 895,760           |
| -85,00        | 1745,031            | 845,000            | 900,031           | 1789,005            | 845,000            | 944,005           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0036         | 0,0003                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0044         | 0,0003                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0023         | 0,0002                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0114         | 0,0008                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,41     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,41     | -34,31     | 9           | 0,0003                      | 0,0000                         | 0,0004                     | 0,01                                    |
| -34,31     | -36,53     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,53     | -43,55     | 7           | 0,0036                      | 0,0003                         | 0,0048                     | 0,07                                    |
| -43,55     | -49,00     | 6           | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                    |
| -49,00     | -52,18     | 5           | 0,0044                      | 0,0003                         | 0,0055                     | 0,17                                    |
| -52,18     | -54,09     | 4           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -54,09     | -55,72     | 3           | 0,0023                      | 0,0002                         | 0,0029                     | 0,18                                    |
| -55,72     | -66,13     | 2           | 0,0005                      | 0,0000                         | 0,0005                     | 0,00                                    |
| -66,13     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0114                      | 0,0008                         | 0,0144                     |                                         |

### 3.52 Resultaat voor Verticaal 52 (X = 232,20 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,284             | 43,084             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,784             | 44,084             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,284             | 45,084             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,784             | 46,084             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,284             | 47,084             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,784             | 48,084             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,284             | 49,084             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,784             | 50,084             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,284             | 51,084             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,784             | 52,084             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,284             | 53,084             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,284             | 55,084             | 67,200            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,284             | 55,084             | 67,200            |
| -4,90         | 138,400             | 64,000             | 74,400            | 138,481             | 64,084             | 74,397            |
| -5,90         | 156,398             | 74,000             | 82,398            | 156,470             | 74,084             | 82,386            |
| -6,90         | 174,395             | 84,000             | 90,395            | 174,444             | 84,084             | 90,360            |
| -7,90         | 192,387             | 94,000             | 98,387            | 192,392             | 94,084             | 98,308            |
| -8,90         | 210,374             | 104,000            | 106,374           | 210,308             | 104,084            | 106,224           |
| -9,90         | 228,354             | 114,000            | 114,354           | 228,183             | 114,084            | 114,099           |
| -10,30        | 235,544             | 118,000            | 117,544           | 235,320             | 118,084            | 117,236           |
| -11,20        | 251,714             | 127,000            | 124,714           | 251,350             | 127,084            | 124,266           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,670             | 137,000            | 132,670           | 269,113             | 137,084            | 132,029           |
| -13,20        | 287,612             | 147,000            | 140,612           | 286,824             | 147,084            | 139,740           |
| -14,20        | 305,539             | 157,000            | 148,539           | 304,485             | 157,084            | 147,401           |
| -15,20        | 323,450             | 167,000            | 156,450           | 322,097             | 167,084            | 155,013           |
| -16,20        | 341,343             | 177,000            | 164,343           | 339,664             | 177,084            | 162,580           |
| -16,60        | 348,495             | 181,000            | 167,495           | 346,678             | 181,084            | 165,594           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,495             | 161,000            | 187,495           | 346,678             | 161,084            | 185,594           |
| -18,21        | 382,089             | 177,103            | 204,987           | 379,685             | 177,187            | 202,498           |
| -19,21        | 402,927             | 187,103            | 215,825           | 400,138             | 187,187            | 212,951           |
| -20,21        | 423,747             | 197,103            | 226,644           | 420,562             | 197,187            | 223,375           |
| -21,21        | 444,549             | 207,103            | 237,446           | 440,960             | 207,187            | 233,773           |
| -22,21        | 465,333             | 217,103            | 248,230           | 461,338             | 217,187            | 244,151           |
| -23,01        | 481,948             | 225,103            | 256,845           | 477,629             | 225,187            | 252,442           |
| -24,62        | 515,362             | 241,206            | 274,156           | 510,414             | 241,290            | 269,124           |
| -26,62        | 556,810             | 261,206            | 295,604           | 551,243             | 261,290            | 289,953           |
| -28,62        | 598,208             | 281,206            | 317,002           | 592,480             | 281,290            | 311,191           |
| -29,42        | 614,755             | 289,206            | 325,549           | 609,167             | 289,290            | 319,877           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,42        | 614,755             | 289,206            | 325,549           | 609,167             | 289,290            | 319,877           |
| -30,67        | 638,723             | 301,706            | 337,017           | 633,639             | 301,790            | 331,849           |
| -31,87        | 661,720             | 313,706            | 348,015           | 657,472             | 313,790            | 343,683           |
| -33,12        | 685,665             | 326,206            | 359,459           | 682,653             | 326,290            | 356,364           |
| -34,32        | 708,643             | 338,206            | 370,437           | 707,143             | 338,290            | 368,853           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,32        | 708,643             | 338,206            | 370,437           | 707,143             | 338,290            | 368,853           |
| -35,44        | 730,653             | 349,411            | 381,242           | 730,815             | 349,495            | 381,319           |
| -36,56        | 752,659             | 360,617            | 392,041           | 754,679             | 360,701            | 393,978           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,56        | 752,659             | 360,617            | 392,042           | 754,679             | 360,701            | 393,978           |
| -38,28        | 788,159             | 377,823            | 410,336           | 793,311             | 377,903            | 415,407           |
| -40,08        | 825,290             | 395,823            | 429,467           | 833,930             | 395,898            | 438,032           |
| -43,60        | 897,901             | 431,029            | 466,872           | 913,430             | 431,089            | 482,341           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,60        | 897,901             | 431,029            | 466,872           | 913,430             | 431,089            | 482,341           |
| -46,30        | 953,556             | 458,014            | 495,542           | 974,034             | 458,074            | 515,961           |
| -49,00        | 1009,216            | 485,000            | 524,216           | 1034,117            | 485,059            | 549,059           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 1009,216            | 485,000            | 524,216           | 1034,118            | 485,059            | 549,059           |
| -50,52        | 1037,461            | 500,163            | 537,298           | 1064,563            | 500,204            | 564,359           |
| -52,03        | 1065,710            | 515,326            | 550,384           | 1094,810            | 515,348            | 579,462           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -52,03        | 1065,710            | 515,326            | 550,384           | 1094,810            | 515,348            | 579,462           |
| -52,99        | 1085,523            | 524,929            | 560,594           | 1115,795            | 524,951            | 590,844           |
| -53,95        | 1105,337            | 534,531            | 570,806           | 1136,702            | 534,553            | 602,149           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -53,95        | 1105,338            | 534,532            | 570,806           | 1136,702            | 534,553            | 602,149           |
| -54,67        | 1118,659            | 541,680            | 576,979           | 1150,777            | 541,693            | 609,084           |
| -55,38        | 1131,982            | 548,829            | 583,153           | 1164,810            | 548,832            | 615,978           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -55,38        | 1131,982            | 548,829            | 583,153           | 1164,810            | 548,832            | 615,978           |
| -59,95        | 1226,260            | 594,500            | 631,760           | 1262,731            | 594,502            | 668,230           |
| -64,52        | 1320,586            | 640,171            | 680,415           | 1359,263            | 640,171            | 719,092           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -64,52        | 1320,587            | 640,172            | 680,415           | 1359,263            | 640,172            | 719,092           |
| -67,96        | 1391,698            | 674,586            | 717,112           | 1431,270            | 674,586            | 756,684           |
| -72,96        | 1495,071            | 724,586            | 770,485           | 1535,035            | 724,586            | 810,449           |
| -74,76        | 1532,302            | 742,586            | 789,716           | 1572,197            | 742,586            | 829,612           |
| -78,20        | 1603,507            | 777,000            | 826,507           | 1643,033            | 777,000            | 866,033           |
| -83,20        | 1707,017            | 827,000            | 880,017           | 1745,574            | 827,000            | 918,574           |
| -85,00        | 1744,297            | 845,000            | 899,297           | 1782,412            | 845,000            | 937,412           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0018         | 0,0001                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0029         | 0,0002                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0015         | 0,0001                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0067         | 0,0004                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,42     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,42     | -34,32     | 9           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -34,32     | -36,56     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,56     | -43,60     | 7           | 0,0018                      | 0,0001                         | 0,0024                     | 0,03                                    |
| -43,60     | -49,00     | 6           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -49,00     | -52,03     | 5           | 0,0029                      | 0,0002                         | 0,0036                     | 0,12                                    |
| -52,03     | -53,95     | 4           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -53,95     | -55,38     | 3           | 0,0015                      | 0,0001                         | 0,0019                     | 0,13                                    |
| -55,38     | -64,52     | 2           | 0,0003                      | 0,0000                         | 0,0003                     | 0,00                                    |
| -64,52     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0067                      | 0,0004                         | 0,0084                     |                                         |

### 3.53 Resultaat voor Verticaal 53 (X = 236,10 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,249             | 43,049             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,749             | 44,049             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,249             | 45,049             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,749             | 46,049             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,249             | 47,049             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,749             | 48,049             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,249             | 49,049             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,749             | 50,049             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,249             | 51,049             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,749             | 52,049             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,249             | 53,049             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,249             | 55,049             | 67,200            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,249             | 55,049             | 67,200            |
| -4,90         | 138,399             | 64,000             | 74,399            | 138,448             | 64,049             | 74,398            |
| -5,90         | 156,397             | 74,000             | 82,397            | 156,441             | 74,049             | 82,392            |
| -6,90         | 174,390             | 84,000             | 90,390            | 174,424             | 84,049             | 90,375            |
| -7,90         | 192,377             | 94,000             | 98,377            | 192,391             | 94,049             | 98,342            |
| -8,90         | 210,355             | 104,000            | 106,355           | 210,335             | 104,049            | 106,286           |
| -9,90         | 228,321             | 114,000            | 114,321           | 228,250             | 114,049            | 114,200           |
| -10,30        | 235,503             | 118,000            | 117,503           | 235,405             | 118,049            | 117,356           |
| -11,20        | 251,653             | 127,000            | 124,653           | 251,483             | 127,049            | 124,434           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,579             | 137,000            | 132,579           | 269,307             | 137,049            | 132,257           |
| -13,20        | 287,485             | 147,000            | 140,485           | 287,084             | 147,049            | 140,035           |
| -14,20        | 305,368             | 157,000            | 148,368           | 304,813             | 157,049            | 147,763           |
| -15,20        | 323,228             | 167,000            | 156,228           | 322,492             | 167,049            | 155,443           |
| -16,20        | 341,063             | 177,000            | 164,063           | 340,123             | 177,049            | 163,074           |
| -16,60        | 348,191             | 181,000            | 167,191           | 347,162             | 181,049            | 166,113           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 348,191             | 161,000            | 187,191           | 347,162             | 161,049            | 186,113           |
| -18,22        | 381,792             | 177,159            | 204,633           | 380,372             | 177,208            | 203,164           |
| -19,22        | 402,556             | 187,159            | 215,397           | 400,869             | 187,208            | 213,661           |
| -20,22        | 423,298             | 197,159            | 226,140           | 421,328             | 197,208            | 224,120           |
| -21,22        | 444,021             | 207,159            | 236,862           | 441,753             | 207,208            | 234,546           |
| -22,22        | 464,724             | 217,159            | 247,565           | 462,149             | 217,208            | 244,942           |
| -23,02        | 481,274             | 225,159            | 256,116           | 478,448             | 225,208            | 253,240           |
| -24,63        | 514,673             | 241,317            | 273,356           | 511,336             | 241,366            | 269,970           |
| -26,63        | 555,965             | 261,317            | 294,648           | 552,045             | 261,366            | 290,679           |
| -28,63        | 597,217             | 281,317            | 315,900           | 592,904             | 281,366            | 311,538           |
| -29,43        | 613,710             | 289,317            | 324,393           | 609,333             | 289,366            | 319,967           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,43        | 613,710             | 289,317            | 324,393           | 609,333             | 289,367            | 319,967           |
| -30,68        | 637,597             | 301,817            | 335,780           | 633,265             | 301,866            | 331,398           |
| -31,88        | 660,522             | 313,817            | 346,705           | 656,424             | 313,866            | 342,558           |
| -33,13        | 684,398             | 326,317            | 358,081           | 680,763             | 326,366            | 354,397           |
| -34,33        | 707,315             | 338,317            | 368,998           | 704,343             | 338,366            | 365,977           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,33        | 707,315             | 338,317            | 368,998           | 704,343             | 338,366            | 365,977           |
| -35,46        | 729,493             | 349,634            | 379,858           | 727,336             | 349,683            | 377,652           |
| -36,60        | 751,669             | 360,951            | 390,718           | 750,501             | 361,001            | 389,501           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,60        | 751,670             | 360,952            | 390,718           | 750,501             | 361,001            | 389,501           |
| -38,33        | 787,336             | 378,269            | 409,068           | 787,974             | 378,317            | 409,657           |
| -40,13        | 824,413             | 396,269            | 428,145           | 827,228             | 396,314            | 430,914           |
| -43,66        | 897,177             | 431,586            | 465,592           | 904,797             | 431,623            | 473,174           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,66        | 897,178             | 431,586            | 465,592           | 904,797             | 431,624            | 473,174           |
| -46,33        | 952,223             | 458,293            | 493,930           | 963,627             | 458,330            | 505,296           |
| -49,00        | 1007,289            | 485,000            | 522,289           | 1022,360            | 485,037            | 537,323           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 1007,289            | 485,000            | 522,289           | 1022,360            | 485,037            | 537,323           |
| -50,44        | 1034,180            | 499,439            | 534,741           | 1051,121            | 499,464            | 551,657           |
| -51,89        | 1061,078            | 513,877            | 547,201           | 1079,795            | 513,891            | 565,904           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -51,89        | 1061,078            | 513,877            | 547,201           | 1079,795            | 513,891            | 565,904           |
| -52,85        | 1081,007            | 523,536            | 557,471           | 1100,862            | 523,549            | 577,312           |
| -53,82        | 1100,938            | 533,194            | 567,744           | 1121,882            | 533,208            | 588,674           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -53,82        | 1100,938            | 533,194            | 567,744           | 1121,882            | 533,208            | 588,674           |
| -54,43        | 1112,393            | 539,340            | 573,053           | 1133,998            | 539,348            | 594,650           |
| -55,05        | 1123,849            | 545,486            | 578,363           | 1146,094            | 545,488            | 600,606           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -55,05        | 1123,849            | 545,486            | 578,363           | 1146,094            | 545,488            | 600,606           |
| -58,98        | 1204,921            | 584,750            | 620,171           | 1230,787            | 584,751            | 646,036           |
| -62,90        | 1286,042            | 624,014            | 662,028           | 1314,675            | 624,014            | 690,661           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -62,90        | 1286,042            | 624,014            | 662,028           | 1314,676            | 624,014            | 690,661           |
| -66,55        | 1361,480            | 660,507            | 700,973           | 1391,983            | 660,507            | 731,475           |
| -71,55        | 1464,904            | 710,507            | 754,397           | 1497,024            | 710,507            | 786,517           |
| -73,95        | 1514,573            | 734,507            | 780,066           | 1547,142            | 734,507            | 812,635           |
| -77,60        | 1590,128            | 771,000            | 819,128           | 1623,045            | 771,000            | 852,045           |
| -82,60        | 1693,708            | 821,000            | 872,708           | 1726,572            | 821,000            | 905,572           |
| -85,00        | 1743,450            | 845,000            | 898,450           | 1776,118            | 845,000            | 931,118           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0009         | 0,0001                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0018         | 0,0001                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0009         | 0,0001                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0039         | 0,0002                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,43     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,43     | -34,33     | 9           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -34,33     | -36,60     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,60     | -43,66     | 7           | 0,0009                      | 0,0001                         | 0,0011                     | 0,02                                    |
| -43,66     | -49,00     | 6           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -49,00     | -51,89     | 5           | 0,0018                      | 0,0001                         | 0,0023                     | 0,08                                    |
| -51,89     | -53,82     | 4           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,82     | -55,05     | 3           | 0,0009                      | 0,0001                         | 0,0011                     | 0,09                                    |
| -55,05     | -62,90     | 2           | 0,0002                      | 0,0000                         | 0,0002                     | 0,00                                    |
| -62,90     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0039                      | 0,0002                         | 0,0049                     |                                         |

### 3.54 Resultaat voor Verticaal 54 (X = 240,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,229             | 43,029             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,729             | 44,029             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,229             | 45,029             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,729             | 46,029             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,229             | 47,029             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,729             | 48,029             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,229             | 49,029             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,728             | 50,029             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,228             | 51,029             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,728             | 52,029             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,228             | 53,029             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,228             | 55,029             | 67,200            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,228             | 55,029             | 67,200            |
| -4,90         | 138,399             | 64,000             | 74,399            | 138,427             | 64,029             | 74,398            |
| -5,90         | 156,394             | 74,000             | 82,394            | 156,419             | 74,029             | 82,391            |
| -6,90         | 174,381             | 84,000             | 90,381            | 174,402             | 84,029             | 90,373            |
| -7,90         | 192,356             | 94,000             | 98,356            | 192,366             | 94,029             | 98,338            |
| -8,90         | 210,314             | 104,000            | 106,314           | 210,306             | 104,029            | 106,277           |
| -9,90         | 228,249             | 114,000            | 114,249           | 228,213             | 114,029            | 114,185           |
| -10,30        | 235,416             | 118,000            | 117,416           | 235,366             | 118,029            | 117,337           |
| -11,20        | 251,525             | 127,000            | 124,525           | 251,434             | 127,029            | 124,406           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 269,394             | 137,000            | 132,394           | 269,245             | 137,029            | 132,216           |
| -13,20        | 287,231             | 147,000            | 140,231           | 287,006             | 147,029            | 139,978           |
| -14,20        | 305,034             | 157,000            | 148,034           | 304,716             | 157,029            | 147,688           |
| -15,20        | 322,804             | 167,000            | 155,804           | 322,375             | 167,029            | 155,346           |
| -16,20        | 340,541             | 177,000            | 163,541           | 339,982             | 177,029            | 162,954           |
| -16,60        | 347,627             | 181,000            | 166,627           | 347,011             | 181,029            | 165,983           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 347,627             | 161,000            | 186,627           | 347,012             | 161,029            | 185,983           |
| -18,22        | 381,168             | 177,214            | 203,954           | 380,292             | 177,243            | 203,050           |
| -19,22        | 401,820             | 187,214            | 214,606           | 400,762             | 187,243            | 213,519           |
| -20,22        | 422,449             | 197,214            | 225,235           | 421,193             | 197,243            | 223,950           |
| -21,22        | 443,059             | 207,214            | 235,845           | 441,591             | 207,243            | 234,348           |
| -22,22        | 463,652             | 217,214            | 246,438           | 461,959             | 217,243            | 244,716           |
| -23,02        | 480,117             | 225,214            | 254,903           | 478,236             | 225,243            | 252,993           |
| -24,64        | 513,465             | 241,429            | 272,037           | 511,191             | 241,457            | 269,734           |
| -26,64        | 554,573             | 261,429            | 293,144           | 551,816             | 261,457            | 290,359           |
| -28,64        | 595,666             | 281,429            | 314,237           | 592,503             | 281,457            | 311,046           |
| -29,44        | 612,101             | 289,429            | 322,673           | 608,820             | 289,457            | 319,363           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,44        | 612,102             | 289,429            | 322,673           | 608,820             | 289,457            | 319,363           |
| -30,69        | 635,908             | 301,929            | 333,979           | 632,516             | 301,957            | 330,559           |
| -31,89        | 658,765             | 313,929            | 344,836           | 655,370             | 313,957            | 341,413           |
| -33,14        | 682,578             | 326,429            | 356,149           | 679,308             | 326,457            | 352,851           |
| -34,34        | 705,443             | 338,429            | 367,015           | 702,427             | 338,457            | 363,970           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,34        | 705,444             | 338,429            | 367,015           | 702,428             | 338,457            | 363,971           |
| -35,49        | 727,797             | 349,857            | 377,940           | 725,152             | 349,886            | 375,266           |
| -36,63        | 750,157             | 361,286            | 388,871           | 748,009             | 361,314            | 386,695           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,63        | 750,157             | 361,286            | 388,871           | 748,009             | 361,314            | 386,695           |
| -38,37        | 786,010             | 378,714            | 407,296           | 784,855             | 378,743            | 406,112           |
| -40,17        | 823,056             | 396,714            | 426,341           | 823,194             | 396,742            | 426,452           |
| -43,71        | 896,020             | 432,143            | 463,877           | 899,322             | 432,166            | 467,156           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,71        | 896,020             | 432,143            | 463,877           | 899,323             | 432,166            | 467,156           |
| -46,36        | 950,491             | 458,571            | 491,920           | 956,492             | 458,594            | 497,897           |
| -49,00        | 1004,997            | 485,000            | 519,997           | 1013,800            | 485,023            | 528,778           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 1004,997            | 485,000            | 519,997           | 1013,801            | 485,023            | 528,778           |
| -50,37        | 1030,551            | 498,714            | 531,837           | 1040,798            | 498,730            | 542,068           |
| -51,74        | 1056,114            | 512,429            | 543,686           | 1067,780            | 512,437            | 555,343           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -51,74        | 1056,114            | 512,429            | 543,686           | 1067,780            | 512,437            | 555,344           |
| -52,71        | 1076,169            | 522,143            | 554,026           | 1088,824            | 522,151            | 566,673           |
| -53,69        | 1096,228            | 531,857            | 564,371           | 1109,850            | 531,865            | 577,985           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -53,69        | 1096,228            | 531,857            | 564,371           | 1109,850            | 531,865            | 577,985           |
| -54,20        | 1105,821            | 537,000            | 568,821           | 1119,941            | 537,005            | 582,936           |
| -54,71        | 1115,414            | 542,143            | 573,271           | 1130,025            | 542,144            | 587,881           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -54,71        | 1115,414            | 542,143            | 573,271           | 1130,025            | 542,144            | 587,881           |
| -58,00        | 1183,303            | 575,000            | 608,303           | 1200,869            | 575,001            | 625,868           |
| -61,29        | 1251,232            | 607,857            | 643,375           | 1271,361            | 607,857            | 663,504           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -61,29        | 1251,232            | 607,857            | 643,375           | 1271,362            | 607,857            | 663,504           |
| -65,14        | 1331,023            | 646,429            | 684,595           | 1353,632            | 646,429            | 707,203           |
| -70,14        | 1434,527            | 696,429            | 738,099           | 1459,523            | 696,429            | 763,095           |
| -73,14        | 1496,666            | 726,429            | 770,237           | 1522,686            | 726,429            | 796,257           |
| -77,00        | 1576,595            | 765,000            | 811,595           | 1603,539            | 765,000            | 838,539           |
| -82,00        | 1680,265            | 815,000            | 865,265           | 1707,851            | 815,000            | 892,851           |
| -85,00        | 1742,497            | 845,000            | 897,497           | 1770,220            | 845,000            | 925,220           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0011         | 0,0001                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0005         | 0,0000                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0023         | 0,0001                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,44     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,44     | -34,34     | 9           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -34,34     | -36,63     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,63     | -43,71     | 7           | 0,0004                      | 0,0000                         | 0,0005                     | 0,01                                    |
| -43,71     | -49,00     | 6           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -49,00     | -51,74     | 5           | 0,0011                      | 0,0001                         | 0,0014                     | 0,05                                    |
| -51,74     | -53,69     | 4           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,69     | -54,71     | 3           | 0,0005                      | 0,0000                         | 0,0007                     | 0,06                                    |
| -54,71     | -61,29     | 2           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -61,29     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0023                      | 0,0001                         | 0,0029                     |                                         |

### 3.55 Resultaat voor Verticaal 55 (X = 243,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,217             | 43,017             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,717             | 44,017             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,217             | 45,017             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,717             | 46,017             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,217             | 47,017             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,717             | 48,017             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,216             | 49,017             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,716             | 50,017             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,216             | 51,017             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,716             | 52,017             | 65,700            |
| -3,80         | 119,200             | 53,000             | 66,200            | 119,216             | 53,017             | 66,200            |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,216             | 55,017             | 67,200            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,200             | 55,000             | 67,200            | 122,216             | 55,017             | 67,200            |
| -4,90         | 138,397             | 64,000             | 74,397            | 138,413             | 64,017             | 74,396            |
| -5,90         | 156,385             | 74,000             | 82,385            | 156,400             | 74,017             | 82,384            |
| -6,90         | 174,356             | 84,000             | 90,356            | 174,368             | 84,017             | 90,352            |
| -7,90         | 192,301             | 94,000             | 98,301            | 192,307             | 94,017             | 98,291            |
| -8,90         | 210,210             | 104,000            | 106,210           | 210,206             | 104,017            | 106,189           |
| -9,90         | 228,076             | 114,000            | 114,076           | 228,055             | 114,017            | 114,039           |
| -10,30        | 235,209             | 118,000            | 117,209           | 235,180             | 118,017            | 117,163           |
| -11,20        | 251,229             | 127,000            | 124,229           | 251,176             | 127,017            | 124,159           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 268,980             | 137,000            | 131,980           | 268,891             | 137,017            | 131,874           |
| -13,20        | 286,681             | 147,000            | 139,681           | 286,545             | 147,017            | 139,529           |
| -14,20        | 304,334             | 157,000            | 147,334           | 304,140             | 157,017            | 147,123           |
| -15,20        | 321,943             | 167,000            | 154,943           | 321,678             | 167,017            | 154,661           |
| -16,20        | 339,514             | 177,000            | 162,514           | 339,165             | 177,017            | 162,148           |
| -16,60        | 346,533             | 181,000            | 165,533           | 346,146             | 181,017            | 165,130           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 346,533             | 161,000            | 185,533           | 346,146             | 161,017            | 185,130           |
| -18,23        | 379,918             | 177,270            | 202,648           | 379,356             | 177,287            | 202,070           |
| -19,23        | 400,409             | 187,270            | 213,139           | 399,722             | 187,287            | 212,435           |
| -20,23        | 420,884             | 197,270            | 223,614           | 420,059             | 197,287            | 222,772           |
| -21,23        | 441,349             | 207,270            | 234,079           | 440,372             | 207,287            | 233,086           |
| -22,23        | 461,807             | 217,270            | 244,537           | 460,668             | 217,287            | 243,381           |
| -23,03        | 478,171             | 225,270            | 252,901           | 476,894             | 225,287            | 251,608           |
| -24,65        | 511,452             | 241,540            | 269,912           | 509,879             | 241,557            | 268,322           |
| -26,65        | 552,377             | 261,540            | 290,837           | 550,423             | 261,557            | 288,867           |
| -28,65        | 593,328             | 281,540            | 311,788           | 591,021             | 281,557            | 309,464           |
| -29,45        | 609,718             | 289,540            | 320,178           | 607,289             | 289,557            | 317,733           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,45        | 609,719             | 289,540            | 320,178           | 607,290             | 289,557            | 317,733           |
| -30,70        | 633,465             | 302,040            | 331,425           | 630,885             | 302,057            | 328,828           |
| -31,90        | 656,276             | 314,040            | 342,236           | 653,607             | 314,057            | 339,551           |
| -33,15        | 680,052             | 326,540            | 353,512           | 677,365             | 326,556            | 350,809           |
| -34,35        | 702,892             | 338,540            | 364,352           | 700,269             | 338,556            | 361,713           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,35        | 702,893             | 338,540            | 364,353           | 700,269             | 338,557            | 361,713           |
| -35,51        | 725,447             | 350,080            | 375,367           | 722,969             | 350,096            | 372,873           |
| -36,66        | 748,015             | 361,620            | 386,395           | 745,769             | 361,636            | 384,133           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,66        | 748,015             | 361,620            | 386,395           | 745,769             | 361,637            | 384,133           |
| -38,42        | 784,094             | 379,160            | 404,934           | 782,371             | 379,176            | 403,195           |
| -40,22        | 821,148             | 397,160            | 423,988           | 820,170             | 397,176            | 422,993           |
| -43,77        | 894,386             | 432,700            | 461,686           | 895,426             | 432,714            | 462,712           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,77        | 894,386             | 432,700            | 461,686           | 895,426             | 432,714            | 462,712           |
| -46,38        | 948,332             | 458,850            | 489,482           | 951,221             | 458,864            | 492,357           |
| -49,00        | 1002,322            | 485,000            | 517,322           | 1007,252            | 485,014            | 522,238           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 1002,322            | 485,000            | 517,322           | 1007,252            | 485,014            | 522,238           |
| -50,30        | 1026,558            | 497,990            | 528,568           | 1032,538            | 497,999            | 534,538           |
| -51,60        | 1050,803            | 510,980            | 539,823           | 1057,844            | 510,985            | 546,859           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -51,60        | 1050,803            | 510,980            | 539,823           | 1057,844            | 510,985            | 546,859           |
| -52,58        | 1070,998            | 520,750            | 550,248           | 1078,842            | 520,755            | 558,087           |
| -53,55        | 1091,197            | 530,520            | 560,677           | 1099,841            | 530,524            | 569,317           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -53,55        | 1091,198            | 530,520            | 560,677           | 1099,841            | 530,525            | 569,317           |
| -53,97        | 1098,930            | 534,660            | 564,270           | 1107,909            | 534,663            | 573,246           |
| -54,38        | 1106,664            | 538,800            | 567,864           | 1115,976            | 538,801            | 577,176           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -54,38        | 1106,664            | 538,800            | 567,864           | 1115,977            | 538,801            | 577,176           |
| -57,02        | 1161,380            | 565,250            | 596,130           | 1172,787            | 565,250            | 607,536           |
| -59,67        | 1216,124            | 591,700            | 624,424           | 1229,503            | 591,700            | 637,803           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -59,67        | 1216,124            | 591,700            | 624,424           | 1229,503            | 591,700            | 637,803           |
| -63,94        | 1304,451            | 634,350            | 670,101           | 1320,667            | 634,350            | 686,317           |
| -68,94        | 1408,073            | 684,350            | 723,723           | 1426,993            | 684,350            | 742,643           |
| -72,33        | 1478,576            | 718,350            | 760,226           | 1498,944            | 718,350            | 780,594           |
| -76,60        | 1567,057            | 761,000            | 806,057           | 1588,820            | 761,000            | 827,820           |
| -81,60        | 1670,842            | 811,000            | 859,842           | 1693,704            | 811,000            | 882,704           |
| -85,00        | 1741,448            | 845,000            | 896,448           | 1764,773            | 845,000            | 919,773           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0002         | 0,0000                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0003         | 0,0000                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0013         | 0,0001                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,45     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,45     | -34,35     | 9           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -34,35     | -36,66     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,66     | -43,77     | 7           | 0,0002                      | 0,0000                         | 0,0003                     | 0,00                                    |
| -43,77     | -49,00     | 6           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -49,00     | -51,60     | 5           | 0,0007                      | 0,0000                         | 0,0009                     | 0,03                                    |
| -51,60     | -53,55     | 4           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,55     | -54,38     | 3           | 0,0003                      | 0,0000                         | 0,0004                     | 0,04                                    |
| -54,38     | -59,67     | 2           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -59,67     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0013                      | 0,0001                         | 0,0017                     |                                         |

### 3.56 Resultaat voor Verticaal 56 (X = 248,90 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 104,200             | 43,000             | 61,200            | 104,208             | 43,008             | 61,200            |
| -2,90         | 105,700             | 44,000             | 61,700            | 105,708             | 44,008             | 61,700            |
| -3,00         | 107,200             | 45,000             | 62,200            | 107,208             | 45,008             | 62,200            |
| -3,10         | 108,700             | 46,000             | 62,700            | 108,708             | 46,008             | 62,700            |
| -3,20         | 110,200             | 47,000             | 63,200            | 110,208             | 47,008             | 63,200            |
| -3,30         | 111,700             | 48,000             | 63,700            | 111,708             | 48,008             | 63,700            |
| -3,40         | 113,200             | 49,000             | 64,200            | 113,208             | 49,008             | 64,200            |
| -3,50         | 114,700             | 50,000             | 64,700            | 114,708             | 50,008             | 64,700            |
| -3,60         | 116,200             | 51,000             | 65,200            | 116,208             | 51,008             | 65,200            |
| -3,70         | 117,700             | 52,000             | 65,700            | 117,708             | 52,008             | 65,700            |
| -3,80         | 119,199             | 53,000             | 66,199            | 119,207             | 53,008             | 66,199            |
| -4,00         | 122,198             | 55,000             | 67,198            | 122,207             | 55,008             | 67,198            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 122,199             | 55,000             | 67,199            | 122,207             | 55,008             | 67,199            |
| -4,90         | 138,386             | 64,000             | 74,386            | 138,394             | 64,008             | 74,386            |
| -5,90         | 156,338             | 74,000             | 82,338            | 156,346             | 74,008             | 82,338            |
| -6,90         | 174,227             | 84,000             | 90,227            | 174,233             | 84,008             | 90,225            |
| -7,90         | 192,028             | 94,000             | 98,028            | 192,031             | 94,008             | 98,023            |
| -8,90         | 209,727             | 104,000            | 105,727           | 209,724             | 104,008            | 105,715           |
| -9,90         | 227,319             | 114,000            | 113,319           | 227,306             | 114,008            | 113,298           |
| -10,30        | 234,327             | 118,000            | 116,327           | 234,310             | 118,008            | 116,302           |
| -11,20        | 250,041             | 127,000            | 123,041           | 250,010             | 127,008            | 123,002           |

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| -12,20        | 267,424             | 137,000            | 130,424           | 267,373             | 137,008            | 130,365           |
| -13,20        | 284,743             | 147,000            | 137,743           | 284,666             | 147,008            | 137,658           |
| -14,20        | 302,017             | 157,000            | 145,017           | 301,906             | 157,008            | 144,898           |
| -15,20        | 319,262             | 167,000            | 152,262           | 319,109             | 167,008            | 152,101           |
| -16,20        | 336,492             | 177,000            | 159,492           | 336,289             | 177,008            | 159,281           |
| -16,60        | 343,383             | 181,000            | 162,383           | 343,157             | 181,008            | 162,149           |
| Laag 10       |                     |                    |                   |                     |                    |                   |
| -16,60        | 343,383             | 161,000            | 182,383           | 343,157             | 161,008            | 182,149           |
| -18,23        | 376,442             | 177,341            | 199,101           | 376,108             | 177,350            | 198,759           |
| -19,23        | 396,688             | 187,341            | 209,347           | 396,276             | 187,350            | 208,926           |
| -20,23        | 416,952             | 197,341            | 219,611           | 416,451             | 197,350            | 219,101           |
| -21,23        | 437,238             | 207,341            | 229,896           | 436,638             | 207,350            | 229,289           |
| -22,23        | 457,546             | 217,341            | 240,205           | 456,839             | 217,350            | 239,490           |
| -23,03        | 473,811             | 225,341            | 248,469           | 473,012             | 225,350            | 247,662           |
| -24,67        | 507,084             | 241,683            | 265,401           | 506,080             | 241,691            | 264,389           |
| -26,67        | 547,896             | 261,683            | 286,213           | 546,620             | 261,691            | 284,929           |
| -28,67        | 588,800             | 281,683            | 307,117           | 587,251             | 281,691            | 305,560           |
| -29,47        | 605,186             | 289,683            | 315,503           | 603,535             | 289,691            | 313,844           |
| Laag 9        |                     |                    |                   |                     |                    |                   |
| -29,47        | 605,186             | 289,683            | 315,503           | 603,535             | 289,691            | 313,844           |
| -30,72        | 628,940             | 302,183            | 326,757           | 627,145             | 302,191            | 324,954           |
| -31,92        | 651,771             | 314,183            | 337,589           | 649,864             | 314,191            | 335,673           |
| -33,17        | 675,581             | 326,683            | 348,898           | 673,593             | 326,691            | 346,902           |
| -34,37        | 698,461             | 338,683            | 359,779           | 696,440             | 338,691            | 357,749           |
| Laag 8        |                     |                    |                   |                     |                    |                   |
| -34,37        | 698,462             | 338,683            | 359,779           | 696,440             | 338,691            | 357,749           |
| -35,54        | 721,342             | 350,366            | 370,976           | 719,335             | 350,374            | 368,961           |
| -36,70        | 744,241             | 362,049            | 382,193           | 742,301             | 362,057            | 380,244           |
| Laag 7        |                     |                    |                   |                     |                    |                   |
| -36,70        | 744,242             | 362,049            | 382,193           | 742,301             | 362,057            | 380,244           |
| -38,47        | 780,702             | 379,731            | 400,970           | 778,968             | 379,739            | 399,229           |
| -40,27        | 817,851             | 397,731            | 420,120           | 816,468             | 397,739            | 418,729           |
| -43,84        | 891,586             | 433,414            | 458,172           | 891,305             | 433,421            | 457,884           |
| Laag 6        |                     |                    |                   |                     |                    |                   |
| -43,84        | 891,586             | 433,414            | 458,172           | 891,306             | 433,421            | 457,884           |
| -46,42        | 944,945             | 459,207            | 485,738           | 945,766             | 459,214            | 486,552           |
| -49,00        | 998,347             | 485,000            | 513,347           | 1000,472            | 485,007            | 515,465           |
| Laag 5        |                     |                    |                   |                     |                    |                   |
| -49,00        | 998,347             | 485,000            | 513,347           | 1000,472            | 485,007            | 515,465           |
| -50,21        | 1020,919            | 497,061            | 523,858           | 1023,706            | 497,066            | 526,640           |
| -51,41        | 1043,499            | 509,123            | 534,376           | 1046,972            | 509,125            | 537,847           |
| Laag 4        |                     |                    |                   |                     |                    |                   |
| -51,41        | 1043,499            | 509,123            | 534,376           | 1046,972            | 509,125            | 537,847           |
| -52,40        | 1063,895            | 518,964            | 544,931           | 1067,947            | 518,966            | 548,980           |
| -53,38        | 1084,296            | 528,806            | 555,491           | 1088,936            | 528,808            | 560,128           |
| Laag 3        |                     |                    |                   |                     |                    |                   |
| -53,38        | 1084,297            | 528,806            | 555,491           | 1088,936            | 528,808            | 560,128           |
| -53,67        | 1089,643            | 531,660            | 557,983           | 1094,454            | 531,661            | 562,792           |
| -53,95        | 1094,990            | 534,514            | 560,476           | 1099,972            | 534,515            | 565,458           |
| Laag 2        |                     |                    |                   |                     |                    |                   |
| -53,95        | 1094,990            | 534,514            | 560,476           | 1099,973            | 534,515            | 565,458           |
| -55,77        | 1132,806            | 552,750            | 580,056           | 1138,899            | 552,750            | 586,149           |
| -57,60        | 1170,633            | 570,986            | 599,648           | 1177,840            | 570,986            | 606,854           |
| Laag 1        |                     |                    |                   |                     |                    |                   |
| -57,60        | 1170,634            | 570,986            | 599,648           | 1177,840            | 570,986            | 606,854           |
| -62,10        | 1264,038            | 615,993            | 648,045           | 1273,912            | 615,993            | 657,919           |
| -67,10        | 1367,866            | 665,993            | 701,873           | 1380,415            | 665,993            | 714,422           |
| -71,30        | 1455,123            | 707,993            | 747,130           | 1469,594            | 707,993            | 761,601           |
| -75,80        | 1548,665            | 753,000            | 795,665           | 1564,831            | 753,000            | 811,831           |
| -80,80        | 1652,625            | 803,000            | 849,625           | 1670,236            | 803,000            | 867,236           |
| -85,00        | 1739,983            | 845,000            | 894,983           | 1758,479            | 845,000            | 913,479           |

| Laag nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|-------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|             | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10          | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 8           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 6           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 5           | 0,0000         | 0,0000           | 0,0004         | 0,0000                         | 0,0000         | 0,0000                         |
| 4           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 3           | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 2           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1           | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal      | 0,0000         | 0,0000           | 0,0007         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag nummer | Totale zetting (100% cons.) |                                |                            | Percentage van originele laaghoogte [%] |
|------------|------------|-------------|-----------------------------|--------------------------------|----------------------------|-----------------------------------------|
| Van<br>[m] | Tot<br>[m] |             | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                         |
| -2,80      | -4,00      | 12          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -4,00      | -16,60     | 11          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -16,60     | -29,47     | 10          | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -29,47     | -34,37     | 9           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -34,37     | -36,70     | 8           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -36,70     | -43,84     | 7           | 0,0001                      | 0,0000                         | 0,0001                     | 0,00                                    |
| -43,84     | -49,00     | 6           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -49,00     | -51,41     | 5           | 0,0004                      | 0,0000                         | 0,0005                     | 0,02                                    |
| -51,41     | -53,38     | 4           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -53,38     | -53,95     | 3           | 0,0001                      | 0,0000                         | 0,0002                     | 0,03                                    |
| -53,95     | -57,60     | 2           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| -57,60     | -85,00     | 1           | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                    |
| Totaal     |            |             | 0,0007                      | 0,0000                         | 0,0008                     |                                         |

### 3.57 Resultaat voor Verticaal 57 (X = 260,00 m; Z = -61,49 m)

| Diepte<br>[m] | Initiële spanning   |                    |                   | Eindspanning        |                    |                   |
|---------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
|               | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] | S-totaal<br>[kN/m²] | S-water<br>[kN/m²] | S-eff.<br>[kN/m²] |
| Laag 12       |                     |                    |                   |                     |                    |                   |
| -2,80         | 73,600              | 43,000             | 30,600            | 73,602              | 43,002             | 30,600            |
| -2,90         | 75,100              | 44,000             | 31,100            | 75,102              | 44,002             | 31,100            |
| -3,00         | 76,600              | 45,000             | 31,600            | 76,602              | 45,002             | 31,600            |
| -3,10         | 78,100              | 46,000             | 32,100            | 78,102              | 46,002             | 32,100            |
| -3,20         | 79,600              | 47,000             | 32,600            | 79,602              | 47,002             | 32,600            |
| -3,30         | 81,100              | 48,000             | 33,100            | 81,102              | 48,002             | 33,100            |
| -3,40         | 82,600              | 49,000             | 33,600            | 82,602              | 49,002             | 33,600            |
| -3,50         | 84,100              | 50,000             | 34,100            | 84,102              | 50,002             | 34,100            |
| -3,60         | 85,600              | 51,000             | 34,600            | 85,602              | 51,002             | 34,600            |
| -3,70         | 87,100              | 52,000             | 35,100            | 87,102              | 52,002             | 35,100            |
| -3,80         | 88,600              | 53,000             | 35,600            | 88,602              | 53,002             | 35,600            |
| -4,00         | 91,600              | 55,000             | 36,600            | 91,602              | 55,002             | 36,600            |
| Laag 11       |                     |                    |                   |                     |                    |                   |
| -4,00         | 91,600              | 55,000             | 36,600            | 91,602              | 55,002             | 36,600            |
| -4,90         | 107,800             | 64,000             | 43,800            | 107,802             | 64,002             | 43,800            |
| -5,90         | 125,800             | 74,000             | 51,800            | 125,801             | 74,002             | 51,800            |
| -6,90         | 143,800             | 84,000             | 59,800            | 143,801             | 84,002             | 59,799            |
| -7,90         | 161,800             | 94,000             | 67,800            | 161,800             | 94,002             | 67,798            |
| -8,90         | 179,799             | 104,000            | 75,799            | 179,797             | 104,002            | 75,796            |
| -9,90         | 197,799             | 114,000            | 83,799            | 197,794             | 114,002            | 83,792            |
| -10,30        | 204,999             | 118,000            | 86,999            | 204,992             | 118,002            | 86,990            |
| -11,20        | 221,198             | 127,000            | 94,198            | 221,187             | 127,002            | 94,185            |

| Diepte<br>[m] | Initiële spanning                |                                 |                                | Eindspanning                     |                                 |                                |
|---------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
|               | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] | S-totaal<br>[kN/m <sup>2</sup> ] | S-water<br>[kN/m <sup>2</sup> ] | S-eff.<br>[kN/m <sup>2</sup> ] |
| -12,20        | 239,197                          | 137,000                         | 102,197                        | 239,179                          | 137,002                         | 102,177                        |
| -13,20        | 257,195                          | 147,000                         | 110,195                        | 257,168                          | 147,002                         | 110,166                        |
| -14,20        | 275,193                          | 157,000                         | 118,193                        | 275,154                          | 157,002                         | 118,152                        |
| -15,20        | 293,190                          | 167,000                         | 126,190                        | 293,136                          | 167,002                         | 126,134                        |
| -16,20        | 311,186                          | 177,000                         | 134,186                        | 311,114                          | 177,002                         | 134,112                        |
| -16,60        | 318,385                          | 181,000                         | 137,385                        | 318,304                          | 181,002                         | 137,302                        |
| Laag 10       |                                  |                                 |                                |                                  |                                 |                                |
| -16,60        | 318,385                          | 161,000                         | 157,385                        | 318,304                          | 161,002                         | 157,302                        |
| -18,25        | 353,026                          | 177,500                         | 175,526                        | 352,904                          | 177,502                         | 175,403                        |
| -19,25        | 374,020                          | 187,500                         | 186,520                        | 373,867                          | 187,502                         | 186,365                        |
| -20,25        | 395,012                          | 197,500                         | 197,512                        | 394,824                          | 197,502                         | 197,322                        |
| -21,25        | 416,003                          | 207,500                         | 208,503                        | 415,775                          | 207,502                         | 208,273                        |
| -22,25        | 436,993                          | 217,500                         | 219,493                        | 436,720                          | 217,502                         | 219,218                        |
| -23,05        | 453,784                          | 225,500                         | 228,284                        | 453,471                          | 225,502                         | 227,969                        |
| -24,70        | 488,411                          | 242,000                         | 246,411                        | 488,008                          | 242,002                         | 246,006                        |
| -26,70        | 530,378                          | 262,000                         | 268,378                        | 529,848                          | 262,002                         | 267,846                        |
| -28,70        | 572,337                          | 282,000                         | 290,337                        | 571,668                          | 282,002                         | 289,666                        |
| -29,50        | 589,118                          | 290,000                         | 299,118                        | 588,393                          | 290,002                         | 298,391                        |
| Laag 9        |                                  |                                 |                                |                                  |                                 |                                |
| -29,50        | 589,119                          | 290,000                         | 299,118                        | 588,393                          | 290,002                         | 298,391                        |
| -30,75        | 613,462                          | 302,500                         | 310,962                        | 612,648                          | 302,502                         | 310,146                        |
| -31,95        | 636,828                          | 314,500                         | 322,328                        | 635,934                          | 314,502                         | 321,433                        |
| -33,20        | 661,164                          | 327,000                         | 334,164                        | 660,195                          | 327,002                         | 333,193                        |
| -34,40        | 684,524                          | 339,000                         | 345,524                        | 683,491                          | 339,002                         | 344,490                        |
| Laag 8        |                                  |                                 |                                |                                  |                                 |                                |
| -34,40        | 684,524                          | 339,000                         | 345,524                        | 683,492                          | 339,002                         | 344,490                        |
| -35,60        | 708,480                          | 351,000                         | 357,480                        | 707,398                          | 351,002                         | 356,397                        |
| -36,80        | 732,432                          | 363,000                         | 369,432                        | 731,318                          | 363,002                         | 368,317                        |
| Laag 7        |                                  |                                 |                                |                                  |                                 |                                |
| -36,80        | 732,433                          | 363,000                         | 369,433                        | 731,318                          | 363,002                         | 368,317                        |
| -38,60        | 770,155                          | 381,000                         | 389,155                        | 769,028                          | 381,002                         | 388,027                        |
| -40,40        | 807,870                          | 399,000                         | 408,870                        | 806,782                          | 399,002                         | 407,780                        |
| -44,00        | 883,275                          | 435,000                         | 448,275                        | 882,442                          | 435,001                         | 447,441                        |
| Laag 6        |                                  |                                 |                                |                                  |                                 |                                |
| -44,00        | 883,275                          | 435,000                         | 448,275                        | 882,443                          | 435,001                         | 447,441                        |
| -46,50        | 935,622                          | 460,000                         | 475,622                        | 935,115                          | 460,001                         | 475,113                        |
| -49,00        | 987,954                          | 485,000                         | 502,954                        | 987,893                          | 485,001                         | 502,891                        |
| Laag 5        |                                  |                                 |                                |                                  |                                 |                                |
| -49,00        | 987,954                          | 485,000                         | 502,954                        | 987,893                          | 485,001                         | 502,891                        |
| -50,00        | 1006,883                         | 495,000                         | 511,883                        | 1007,031                         | 495,001                         | 512,031                        |
| -51,00        | 1025,810                         | 505,000                         | 520,810                        | 1026,185                         | 505,000                         | 521,185                        |
| Laag 4        |                                  |                                 |                                |                                  |                                 |                                |
| -51,00        | 1025,810                         | 505,000                         | 520,810                        | 1026,185                         | 505,000                         | 521,185                        |
| -52,00        | 1046,734                         | 515,000                         | 531,734                        | 1047,353                         | 515,000                         | 532,353                        |
| -53,00        | 1067,657                         | 525,000                         | 542,657                        | 1068,535                         | 525,000                         | 543,535                        |
| Laag 1        |                                  |                                 |                                |                                  |                                 |                                |
| -53,00        | 1067,657                         | 525,000                         | 542,657                        | 1068,535                         | 525,000                         | 543,535                        |
| -57,00        | 1151,328                         | 565,000                         | 586,328                        | 1153,370                         | 565,000                         | 588,370                        |
| -62,00        | 1255,876                         | 615,000                         | 640,876                        | 1259,572                         | 615,000                         | 644,572                        |
| -67,00        | 1360,387                         | 665,000                         | 695,387                        | 1365,815                         | 665,000                         | 700,815                        |
| -69,00        | 1402,183                         | 685,000                         | 717,183                        | 1408,296                         | 685,000                         | 723,296                        |
| -73,00        | 1485,762                         | 725,000                         | 760,762                        | 1493,196                         | 725,000                         | 768,196                        |
| -78,00        | 1590,217                         | 775,000                         | 815,217                        | 1599,162                         | 775,000                         | 824,162                        |
| -83,00        | 1694,657                         | 825,000                         | 869,657                        | 1704,911                         | 825,000                         | 879,911                        |
| -85,00        | 1736,430                         | 845,000                         | 891,430                        | 1747,147                         | 845,000                         | 902,147                        |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 12             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 11             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 10             | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 9              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |

| Laag<br>nummer | Zwel           |                  | Zetting b. Sp  |                                | Zetting a. Sp  |                                |
|----------------|----------------|------------------|----------------|--------------------------------|----------------|--------------------------------|
|                | Primair<br>[m] | Secundair<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] | Primair<br>[m] | Secundair<br>10 [dagen]<br>[m] |
| 8              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 7              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 6              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 5              | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |
| 4              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| 1              | 0,0000         | 0,0000           | 0,0000         | 0,0000                         | 0,0000         | 0,0000                         |
| Totaal         | 0,0000         | 0,0000           | 0,0001         | 0,0000                         | 0,0000         | 0,0000                         |

| Diepte     |            | Laag<br>nummer | Totale zetting (100% cons.) |                                |                            | Percentage<br>van originele<br>laaghoogte<br>[%] |
|------------|------------|----------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------------------|
| Van<br>[m] | Tot<br>[m] |                | Primair<br>[m]              | Secundair<br>10 [dagen]<br>[m] | Na<br>10000 [dagen]<br>[m] |                                                  |
| -2,80      | -4,00      | 12             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -4,00      | -16,60     | 11             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -16,60     | -29,50     | 10             | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -29,50     | -34,40     | 9              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -34,40     | -36,80     | 8              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -36,80     | -44,00     | 7              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -44,00     | -49,00     | 6              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -49,00     | -51,00     | 5              | 0,0001                      | 0,0000                         | 0,0001                     | 0,01                                             |
| -51,00     | -53,00     | 4              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| -53,00     | -85,00     | 1              | 0,0000                      | 0,0000                         | 0,0000                     | 0,00                                             |
| Totaal     |            |                | 0,0001                      | 0,0000                         | 0,0002                     |                                                  |

## 4 Zettingen

### 4.1 Zettingen

| Verticaal nummer | X-coördinaat [m] | Z-coördinaat [m] | Maaiveld [m] | Zetting [m] |
|------------------|------------------|------------------|--------------|-------------|
| 1                | -20,00           | -61,49           | -2,80        | 0,000       |
| 2                | -5,00            | -61,49           | -2,80        | 0,000       |
| 3                | 0,00             | -61,49           | -2,80        | 0,000       |
| 4                | 4,05             | -61,49           | -2,80        | 0,001       |
| 5                | 12,00            | -61,49           | -2,80        | 0,001       |
| 6                | 19,80            | -61,49           | -2,80        | 0,001       |
| 7                | 27,60            | -61,49           | -2,80        | 0,001       |
| 8                | 35,40            | -61,49           | -2,80        | 0,001       |
| 9                | 43,20            | -61,49           | -2,80        | 0,001       |
| 10               | 47,10            | -61,49           | -2,80        | 0,001       |
| 11               | 51,00            | -61,49           | -2,80        | 0,001       |
| 12               | 54,90            | -61,49           | -2,80        | 0,001       |
| 13               | 58,80            | -61,49           | -2,80        | 0,001       |
| 14               | 62,70            | -61,49           | -2,80        | 0,001       |
| 15               | 66,60            | -61,49           | -2,80        | 0,001       |
| 16               | 70,50            | -61,49           | -2,80        | 0,001       |
| 17               | 74,40            | -61,49           | -2,80        | 0,001       |
| 18               | 82,20            | -61,49           | -2,80        | 0,001       |
| 19               | 90,00            | -61,49           | -2,80        | 0,001       |
| 20               | 97,80            | -61,49           | -2,80        | 0,001       |
| 21               | 105,60           | -61,49           | -2,80        | 0,001       |
| 22               | 113,40           | -61,49           | -2,80        | 0,001       |
| 23               | 117,30           | -61,49           | -2,80        | 0,001       |
| 24               | 121,20           | -61,49           | -2,80        | 0,000       |
| 25               | 125,10           | -61,49           | -2,80        | 0,000       |
| 26               | 129,90           | -61,49           | -2,80        | 0,000       |
| 27               | 134,70           | -61,49           | -2,80        | 0,000       |
| 28               | 138,60           | -61,49           | -2,80        | 0,000       |
| 29               | 142,50           | -61,49           | -2,80        | 0,001       |
| 30               | 146,40           | -61,49           | -2,80        | 0,001       |
| 31               | 150,30           | -61,49           | -2,80        | 0,002       |
| 32               | 154,20           | -61,49           | -2,80        | 0,004       |
| 33               | 158,10           | -61,49           | -2,80        | 0,009       |
| 34               | 162,00           | -61,49           | -2,80        | 0,025       |
| 35               | 165,90           | -61,49           | -2,80        | 0,034       |
| 36               | 169,80           | -61,49           | -2,80        | 0,047       |
| 37               | 173,70           | -61,49           | -2,80        | 0,068       |
| 38               | 177,60           | -61,49           | -2,80        | 0,095       |
| 39               | 181,50           | -61,49           | -2,80        | 0,117       |
| 40               | 185,40           | -61,49           | -2,80        | 0,141       |
| 41               | 189,30           | -61,49           | -2,80        | 0,167       |
| 42               | 193,20           | -61,49           | -2,80        | 0,182       |
| 43               | 197,10           | -61,49           | -2,80        | 0,184       |
| 44               | 201,00           | -61,49           | -2,80        | 0,177       |
| 45               | 204,90           | -61,49           | -2,80        | 0,155       |
| 46               | 208,80           | -61,49           | -2,80        | 0,129       |
| 47               | 212,70           | -61,49           | -2,80        | 0,106       |
| 48               | 216,60           | -61,49           | -2,80        | 0,078       |
| 49               | 220,50           | -61,49           | -2,80        | 0,045       |
| 50               | 224,40           | -61,49           | -2,80        | 0,025       |
| 51               | 228,30           | -61,49           | -2,80        | 0,014       |
| 52               | 232,20           | -61,49           | -2,80        | 0,008       |
| 53               | 236,10           | -61,49           | -2,80        | 0,005       |
| 54               | 240,00           | -61,49           | -2,80        | 0,003       |
| 55               | 243,90           | -61,49           | -2,80        | 0,002       |
| 56               | 248,90           | -61,49           | -2,80        | 0,001       |
| 57               | 260,00           | -61,49           | -2,80        | 0,000       |

## 5 Waarschuwingen en fouten

Lijst met niet fatale waarschuwingen en/of fouten gegenereerd tijdens de berekening.

- 1 The Terzaghi model uses one consolidation coefficient for loading/unloading. This can underestimate residual settlements after unloading. Switch to Darcy for, more accurate calculations of the consolidation stage.

## Einde Rapport

# MOS GRONDMECHANICA B.V.

Hieronder treft u de dienstverlening van Mos Grondmechanica b.v. aan. Voor specifieke diensten die niet direct in het overzicht terug zijn te vinden kunt u uiteraard vrijblijvend contact met ons opnemen.



## VELDWERK

Sonderen op land, water en in beperkte ruimte, elektrisch, waterspanning, dissipatie, seismisch, magnetisch, geleidbaarheid, Bolconus, T-bar en slagsonderen

Geotechnisch boren en (on)geroerde monsternamen  
Peilbuizen en waterspanningsmeters plaatsen  
X, Y en Z metingen en Lintvoegmetingen  
Plaatdruk-, CBR- en CPM proeven  
In situ doorlatenheidspoeven

## LABORATORIUM

Classificatie proeven (o.a. vol. gewicht, KVD, PI)  
Samendrukkingsproeven (Oedometer en CRS)  
Triaxiaalproeven  
DS en DSS-proeven  
Doorlatenheidspoeven  
Dichtheidsbepaling (Proctor en CBR)  
Cementbentoniet onderzoek

## GEOMONITORING

Deformatiemeting (inclino- en extensometing)  
(Grond)waterspanningsmeting  
Zettingsmonitoring  
Trillingsmonitoring (SBR)  
Akoestisch doormeten van palen (CUR 109)  
Online meetgegevens via portal

## MILIEU (MOS MILIEU B.V.)

Verkennd-, nader- en saneringsonderzoek  
Partijkeuringen besluit bodemkwaliteit (Bbk)  
Saneringsbegeleiding. Waterbodemonderzoek.  
Vergunning aanvragen.  
2nd Opinion / Contra-Expertise Bodemonderzoeken.

## GEOTECHNISCH ADVIES

Paalfundering  
Fundering op staal  
Grondkerende constructies  
Bouwputontwerp  
Omgevingsbeïnvloeding (Plaxis)  
Zettingsanalyse (bouwrijp maken, opslagtanks)  
Taludstabiliteit  
Tankbouwadvies  
Trillingsprognose  
Schade expertise  
Review en 2nd Opinion

## GEOHYDROLOGISCH ADVIES

Bemalingen (incl. retourbemalingen)  
Vergunningsaanvragen  
Pompproeven  
Omgekeerde Osmose  
Barrièrewerking  
Drainage  
Infiltratie hemelwater

## BEMALINGEN (MOS GRONDWATERTECHNIEK)

Bronbemaling  
Ondergrondse energie-opslag  
Pomp- en leidingsystemen  
Brandputten

## OVERIG

Uitvoeringsbegeleiding

Meer weten? Bezoek onze website [www.mosgeo.com](http://www.mosgeo.com)  
Vragen? Mail ons op [info@mosgeo.com](mailto:info@mosgeo.com)  
Offerte aanvragen? Mail ons op [offerte@mosgeo.com](mailto:offerte@mosgeo.com)

Mos Grondmechanica opereert structureel vanuit 5 vestigingen in Nederland en in Suriname. Via het zusterbedrijf Mosgeo b.v. worden wereldwijd projecten uitgevoerd, daar waar onze specifieke kennis en ervaring wordt gevraagd.

## MOS GRONDMECHANICA B.V.

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| Vestiging Helmond   | Vossenbeemd 90B              | 5705 CL         | Helmond   |
| Vestiging Almelo    | Het Wendelgoor 13            | 7604 PJ         | Almelo    |
| Vestiging Amsterdam | Pleimuiden 8B                | 1046 AG         | Amsterdam |
| Mosgeo B.V.         | Albert Plesmanweg 47         | 3088 GB         | Rotterdam |
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