



**wopereis** staalbouw bv



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Fabriekstraat 33  
7000 AL Doetinchem  
Postbus 463

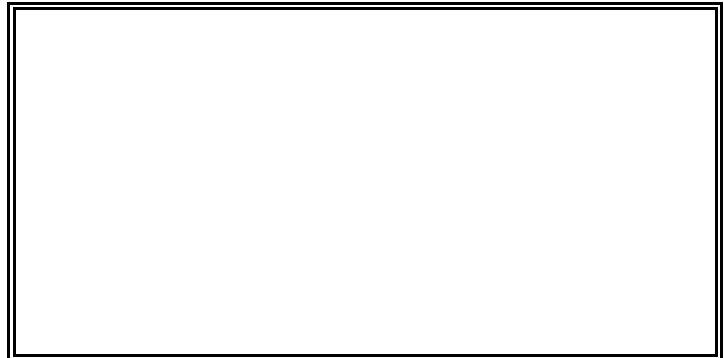
Order nr: \*A.7527\*  
Werk: Klein Wassink  
Datum: 5-10-2016

## Statische berekening

|              |                |
|--------------|----------------|
| Werk:        | Klein Wassink  |
| Order nr:    | *A.7527*       |
| Adres:       | Vrogteweg 7a   |
| Plaats:      | 7021 MJ Zelhem |
| Tel. klant:  |                |
| Email klant: |                |
| Land:        | Nederland      |

|               |  |
|---------------|--|
| Aannemer:     |  |
| Contactpers.: |  |
| Tel. aann.:   |  |
| Email aann.:  |  |

|               |                                                                                                      |
|---------------|------------------------------------------------------------------------------------------------------|
| Constructeur: | S. Kromkamp                                                                                          |
| Datum:        | 05-okt-16                                                                                            |
|               | <br>* A . 7 5 2 7 * |





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## Algemene informatie

### Aangehouden voorschriften, kwaliteitseisen:

De statische berekening is uitgevoerd volgens de constructie voorschriften uit de NEN-EN 1990 - serie.

Indien niet anders is aangegeven is uitgegaan van :

|                                  |                                     |                                        |
|----------------------------------|-------------------------------------|----------------------------------------|
| voor gewapende betonconstructies | : betonkwaliteit C20/25             | staalkwaliteit B500A                   |
| voor staalconstructies           | : staalkwaliteit S235               |                                        |
| voor houtconstructies            | : houtkwaliteit C24                 |                                        |
| voor steenconstructies           | : kalkzandsteenlijmelementen, CS12. |                                        |
|                                  | Product                             | Min. Drukst.: 12,0 N/mm <sup>2</sup> . |
|                                  | Mortel                              | Min. Drukst.: 7,5 N/mm <sup>2</sup> .  |

### Gebruikte eenheden:

Indien niet anders wordt aangegeven zijn de volgende eenheden aangehouden:

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| overspanningen | in m <sup>1</sup>                                                  |
| belastingen    | in kN/m <sup>2</sup> of in kN/m <sup>1</sup> of in kN              |
| afmetingen     | in mm <sup>1</sup>                                                 |
| spanningen     | in N/mm <sup>2</sup>                                               |
| wapening       | in mm <sup>2</sup> of mm <sup>2</sup> /m <sup>1</sup> plaatbreedte |

### Gevolgklasse, Betrouwbaarheidsklasse en ontwerplevensduur:

Het project is ingedeeld in CC 1 en RC1 met een ontwerplevensduur van 15 jaar.

### Tekeningen

Als uitgangspunt voor deze berekening is gebruik gemaakt van de volgende tekeningen(en):

\* tek. Wopereis - Nieuwbouw berging Klein Wassink VOF - tek. No. 1 d.d. 12-09-2016



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## Gewichten

| Hellend dak       | Golfplaten                                    | $\alpha = 20^\circ$                                  | (Nieuw)                                    |
|-------------------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------|
| $G_k$             | = Gordingen golfplaten                        |                                                      | = $0,25 \text{ kN/m}^2$                    |
|                   | in het grondvlak gemeten: $0,25 / \cos(20) =$ |                                                      | = $0,27 \text{ kN/m}^2$                    |
| $q_{k;sneeuw}$    | = $0,7 \times 0,80 \times 0,75$               |                                                      | = $0,42 \text{ kN/m}^2$ ( $\psi_0 = 0,0$ ) |
| $Q_k$             | =                                             |                                                      | = $1,50 \text{ kN}$ ( $\psi_0 = 0,0$ )     |
| <b>Wind</b>       | <b>Gebied: III</b>                            | <b>Onbebouwd</b>                                     |                                            |
| $q_{k;wind}$      | = Gebied III, Onbebouwd                       | $H \leq 7450 \text{ mm}$                             | = $0,63 \text{ kN/m}^2$                    |
| $C_{pe}$          | = Druk / Zuiging                              | Conform drukcoëfficiënten NEN-EN 1991-1-4            |                                            |
| $C_{pi}$          | = +0,2 en -0,3                                |                                                      |                                            |
| <b>Verdieping</b> | <b>Kanaalplaatvloer</b>                       |                                                      |                                            |
| $G_k$             | = Kanaalplaatvloer                            | $h = 200 \text{ mm}$                                 | = $3,20 \text{ kN/m}^2$                    |
|                   | Afwerking                                     | $h = 50 \text{ mm}$                                  | = $1,00 \text{ kN/m}^2$                    |
|                   |                                               |                                                      | = $4,20 \text{ kN/m}^2$                    |
| $q_k$             | = Woonfunctie                                 | $\psi_0 = 0,4 \quad \psi_1 = 0,5 \quad \psi_2 = 0,3$ | = $1,75 \text{ kN/m}^2$                    |
|                   | = Seperatie's                                 | e.g. $> 2,0 \leq 3,0 \text{ kN/m}^1$                 | = $1,20 \text{ kN/m}^2$                    |
|                   |                                               |                                                      | = $2,95 \text{ kN/m}^2$                    |



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## Algemene gegevens

### Staalconstructie:

- blijvend hemelwaterafschot min. 20mm/m
- bevestiging dak- en wandplaten volgens berekening leverancier
- bij alle randen en hoeken van dak-, en wandplaten rekening houden met verhoogde windbelasting
- aangegeven zegen zijn exclusief hemelwaterafschot
- voorzieningen t.b.v. valbeveiliging volgens opgaaf leverancier
- deze staalconstructieberekening omvat alleen de hoofddraagconstructie
- detailberekening staalconstructie volgens leverancier staalconstructie
- staalconstructie in een vochtige omgeving conserveren
- lichtstraten die haaks op de afschotrichting lopen niet langer dan twee stramienen
- in overleg met de plaatselijke brandweer de staalconstructie evt. brandwerend beschermen

### Wanden

- i.v.m. de verwachte krimpscheuren kalkzandsteen wanden pas na twee stookseizoenen voorzien van een eventueel harde afwerking
- geveldilataties aanbrengen volgens advies leverancier
- dragend metselwerk en metselwerk t.b.v. van stabiliteit (indien niet anders aangegeven) op de hoeken altijd in verband metselen
- aansluitingen bestaande buitenspouwbladen met nieuwe buitenspouwbladen indien niet anders aangegeven dilateren

### Vloeren

- bij scheurgevoelige wanden op de vloer:  $f_{bijk} = 1/500l$  met een maximum van 12mm
- vloeren zijn niet gecontroleerd op trilling tenzij anders aangegeven

### Fundering / vloeren op zand:

- bij niet vrijdragende betonvloeren zullen altijd zettingverschillen in de vloer ontstaan in overleg met opdrachtgever eventueel advies aanvragen bij een grondmechanisch adviseur
- beton dient gestort te worden op een voorbereide ondergrond (inclusief schraalbeton)

### Kelders:

- i.v.m. verhinderde krimp van de kelderwand is het raadzaam min. 2xR10(B500A) extra horizontaal in de kelderwand aan te brengen
- de keldervloer is gewapend op sterkte, waarmee scheurvorming niet is uit te sluiten en de kelder daarmee niet waterdicht is. Dit is toelaatbaar indien niet in een waterwinningsgebied wordt gebouwd.
- bovenstaande dient de aannemer na te gaan en evt. met Wopereis te overleggen
- wanden te storten in fasen met een lengte van max ca. 10,00 meter
- een stort met grotere lengte's vereist extra langswapening in de wanden.
- Storten in grotere lengtes vereisen bijzondere zorgvuldigheid tijdens de uitvoering om onbeheersbare krimp-scheurvorming te voorkomen.
- Een aangepast betonmengsel in overleg met de centrale en een zorgvuldige nabehandeling minimaliseert de kans op scheurvorming.
- Geadviseerd wordt, om onbeheersbare krimpscheur-vorming in de vloer te voorkomen, in de vloer een 1,2m brede krimpstrook aan te brengen, die na minimaal 2 weken uitharding van de beide vloer-velden afgestort wordt.
- De vloer-wapening mag niet van het ene veld naar het andere veld, door de krimpstrook heen, doorlopen omdat het dan het krimpen van de velden alsnog verhinderd wordt; in de wapening moet dus t.p.v. de krimpstrook een las met overlap van de netten worden aangebracht.
- Er dient een peilbuis geslagen te worden zodat de gebruiker de grondwaterstand na kan gaan voordat de kelder leeggepompt wordt.
- Langs de kelder dient voorzichtig te werk gegaan te worden bij het aanvullen met grond



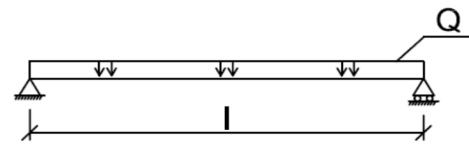
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## Houten gording

Onderdeel: **1**



Klimaatklasse: **1** Binnen

Houtsoort: **Hout / LVL**

Kwaliteit: **C24**

Ontwerplevensduur: **15** Jaar

Max doorbuiging: **1/250**

Hellingshoek dak: **20** graden

Overspanning I: **5,00** m.

h.o.h. gording: **1330** mm

Gewicht dak: **0,25** kN/m<sup>2</sup>

Sneeuwbelasting: **0,56** kN/m<sup>2</sup>  $\mu:1$

Winddruk:  $q_p \times C_f$  **0,63** x **0,67** = **0,42** kN/m<sup>2</sup>

| Breedte        | Hoogte     |
|----------------|------------|
| <b>96</b>      | <b>221</b> |
| I <sub>y</sub> | 8635,1     |
| W <sub>y</sub> | 781,5      |
| I <sub>z</sub> | 1629,4     |
| W <sub>z</sub> | 339,5      |

### Sterke as

$$Q = \text{Hellend dak} = 0,23 \quad 0,36 \quad \times \quad 1,33 = \begin{array}{c|c} G_k & Q_k \\ \hline 0,31 & 0,48 \\ \hline 0,31 & 0,48 \end{array} \quad \psi = 0,0 \quad \text{Combinatie wind} \quad \text{kN/m1}$$

|                      |                                           |                    |                                          |       |
|----------------------|-------------------------------------------|--------------------|------------------------------------------|-------|
| Q <sub>kruip</sub> = | 0,98 kN/m1                                | Q <sub>d</sub> =   | 0,98 kN/m1                               | 6,10b |
| M <sub>kruip</sub> = | 3,05 kNm                                  | M <sub>d</sub> =   | 3,07 kNm                                 |       |
| Doorb. Max =         | 20,0 mm                                   | W <sub>ben</sub> = | 184,63 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| I <sub>ben</sub> =   | 3614,39 x 10 <sup>4</sup> mm <sup>4</sup> |                    |                                          |       |
| Doorb. Werk. :       | 8,4 mm                                    |                    |                                          |       |

**UC Sterkte: 0,24**  
**UC Doorb.: 0,42**

### Zwakke as

steunen: **0**

$$Q = \text{Hellend dak} = 0,09 \quad 0,00 \quad \times \quad 1,33 = \begin{array}{c|c} G_k & Q_k \\ \hline 0,11 & \\ \hline 0,11 & \end{array} \quad 0,0 \quad \text{Combinatie wind is maatgevend} \quad \text{kN/m1}$$

|                      |                                          |                    |                                         |       |
|----------------------|------------------------------------------|--------------------|-----------------------------------------|-------|
| Q <sub>kruip</sub> = | 0,18 kN/m1                               | Q <sub>d</sub> =   | 0,14 kN/m1                              | 6,10a |
| M <sub>kruip</sub> = | 0,57 kNm                                 | M <sub>d</sub> =   | 0,43 kNm                                |       |
| Doorb. Max =         | 20,0 mm                                  | W <sub>ben</sub> = | 25,67 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| I <sub>ben</sub> =   | 673,07 x 10 <sup>4</sup> mm <sup>4</sup> |                    |                                         |       |
| Doorb. Werk. :       | 8,3 mm                                   |                    |                                         |       |

**UC Sterkte: 0,08**  
**UC Doorb.: 0,41**

### Doorbuigings-controle (totaal Wind)

$$(20^2 + 20^2)^{0,5} = 28,3$$

$$(8,4^2 + 8,3^2)^{0,5} = 11,8$$

### Spannings-controle (totaal)

$$\sigma_{St} = \frac{3,07}{781,5} = 3,93 \quad \text{N/mm}^2$$

$$\sigma_{Zw} = \frac{0,43}{339,5} = 1,26 \quad \text{N/mm}^2$$

$$\sigma_{\text{uiterste vezel}} = 5,18 \quad \text{N/mm}^2$$

**Totaal Wind:**  
**UC Sterkte: 0,31**  
**UC Doorb.: 0,42**

### Sterke as

$$Q = \text{Hellend dak} = 0,23 \quad 0,37 \quad \times \quad 1,33 = \begin{array}{c|c} G_k & Q_k \\ \hline 0,31 & 0,49 \\ \hline 0,31 & 0,49 \end{array} \quad \psi = 0,0 \quad \text{Combinatie sneeuw} \quad \text{kN/m1}$$

|                      |                                           |                    |                                          |       |
|----------------------|-------------------------------------------|--------------------|------------------------------------------|-------|
| Q <sub>kruip</sub> = | 0,99 kN/m1                                | Q <sub>d</sub> =   | 1,00 kN/m1                               | 6,10b |
| M <sub>kruip</sub> = | 3,10 kNm                                  | M <sub>d</sub> =   | 3,14 kNm                                 |       |
| Doorb. Max =         | 20,0 mm                                   | W <sub>ben</sub> = | 188,71 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| I <sub>ben</sub> =   | 3673,85 x 10 <sup>4</sup> mm <sup>4</sup> |                    |                                          |       |
| Doorb. Werk. :       | 8,5 mm                                    |                    |                                          |       |

**UC Sterkte: 0,24**  
**UC Doorb.: 0,43**

Zwakke as                      **steunen:**                      **0**

$$Q = \text{Hellend dak} = 0,09 \quad 0,13 \quad \times \quad 1,33 = \begin{array}{c|c} G_k & Q_k \\ \hline 0,11 & 0,18 \\ \hline 0,11 & 0,18 \end{array} \quad \psi = 0,0 \quad \text{kN/m1}$$

Combinatie sneeuw

|                |                                           |        |                                         |       |
|----------------|-------------------------------------------|--------|-----------------------------------------|-------|
| Qkruip =       | 0,36 kN/m1                                | Qd =   | 0,37 kN/m1                              | 6,10b |
| Mkruip =       | 1,13 kNm                                  | Md =   | 1,14 kNm                                |       |
| Doorb. Max =   | 20,0 mm                                   | Wben = | 68,68 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| Iben =         | 1337,17 x 10 <sup>4</sup> mm <sup>4</sup> |        |                                         |       |
| Doorb. Werk. : | 16,4 mm                                   |        |                                         |       |

**UC Sterkte: 0,20**

**UC Doorb.: 0,82**

Doorbuigings-controle (totaal Sneeuw)

$$(20^2 + 20^2)^{0,5} = 28,3$$

$$(8,5^2 + 16,4^2)^{0,5} = 18,5$$

Spannings-controle (totaal)

$$\sigma_{St} = \frac{3,14}{781,5} = 4,01 \quad \text{N/mm}^2$$

$$\sigma_{Zw} = \frac{1,14}{339,5} = 3,36 \quad \text{N/mm}^2 \quad +$$

$$\sigma \text{ uiterste vezel} = 7,37 \quad \text{N/mm}^2$$

**Totaal Sneeuw:**

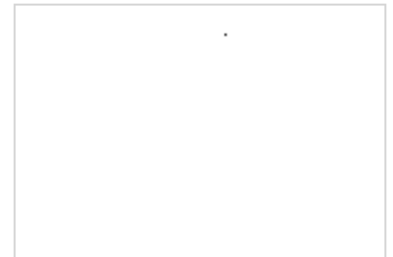
**UC Sterkte: 0,44**

**UC Doorb.: 0,65**

**Kies: Hout C24, 96 x 221mm h.o.h.: 1330 mm**

**Overige opmerkingen:**

\* Nokgordingen ALTIJD aan elkaar koppelen d.m.v. bandstaal





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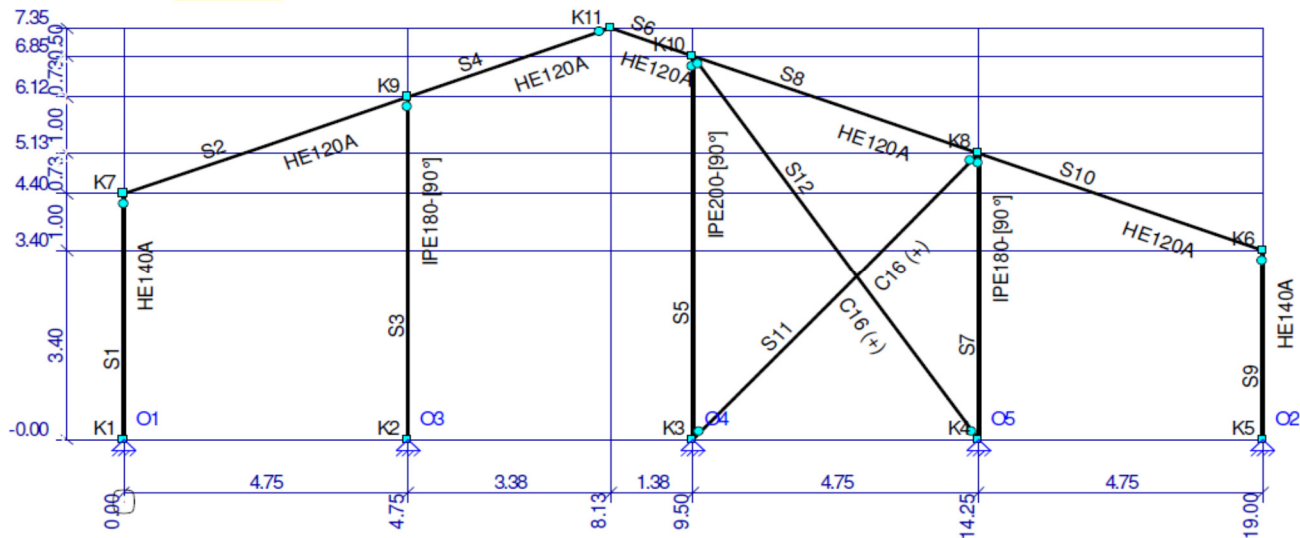
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## Stalen spant (As A)

Onderdeel:

2



|    |                |   |      |   |      |   |      |
|----|----------------|---|------|---|------|---|------|
| Q= | Hellend dak    | = | 0,25 | x | 1,00 | = | 0,25 |
|    | Sneeuw $\mu;1$ | = | 0,46 | x | 1,00 | = | 0,46 |
|    | Wind           | = | 0,63 | x | 1,00 | = | 0,63 |

| Gk   | Qk                |
|------|-------------------|
| 0,25 | 0,46 $\psi = 0,0$ |
|      | 0,63 $\psi = 0,0$ |

H.o.h. spant: 5,00 m

|                           |                        |
|---------------------------|------------------------|
| <b>Kies: Spantliggers</b> | <b>HE120A</b>          |
| <b>Spantbenen</b>         | <b>HE140A</b>          |
| <b>Tussenkolom</b>        | <b>IPE180 / IPE200</b> |
| <b>Windverband</b>        | <b>Ø 16</b>            |

### Overige opmerkingen:

- \* Gordingen over de spanten
- \* Voor berekening, overige lasten en combinatie's, zie bijlage blz. 101 t/m 150
- \* Spantbenen plaatsen op ankers: 2M20, tussenkolom 2M20
- \* Voetplaat kolom,  $t = 15\text{mm}$
- \* Strook onder windverband =  $500 \times 200\text{mm}^2 + \#08-150$  onder, poeren windverband voorzien van bovenwapening  $\#06-150$



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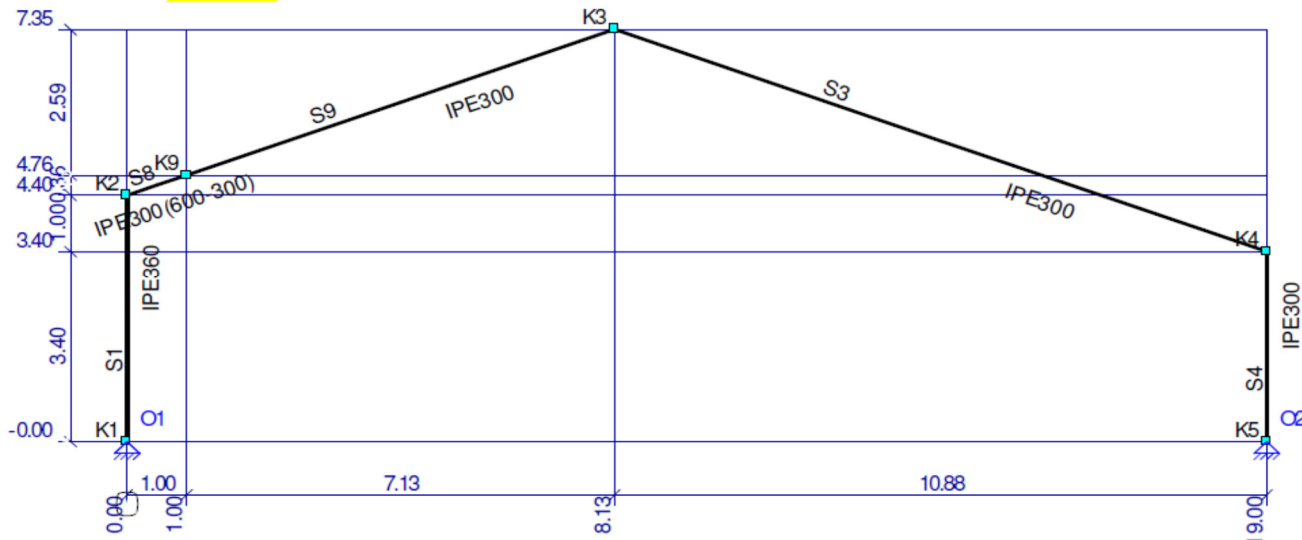
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## Stalen spant (As B)

Onderdeel:

3



|    |                 |   |      |   |      |   |      |              |  |
|----|-----------------|---|------|---|------|---|------|--------------|--|
| Q= | Hellend dak     | = | 0,25 | x | 1,00 | = | 0,25 |              |  |
|    | Sneeuw $\mu$ ;1 | = | 0,46 | x | 1,00 | = | 0,46 | $\psi = 0,0$ |  |
|    | Wind            | = | 0,63 | x | 1,00 | = | 0,63 | $\psi = 0,0$ |  |

H.o.h. spant: 5,00 m

**Kies: Spantliggers IPE300**

**Spantbenen IPE360 / IPE300**

### Overige opmerkingen:

- \* Gordingen over de spanten
- \* Voor berekening, overige lasten en combinatie's, zie bijlage blz. 151 t/m 193
- \* Spantbenen plaatsen op ankers: 4M20
- \* Voor details, zie bijlage blz. 362 t/m 364
- \* Spantbeen koppelen aan vloer d.m.v. haarspeld  $\varnothing$  12mm, plaat  $t = 15$ mm
- \* Ligger S3 voorzien van toeg á 20mm
- \* Voetplaat kolom,  $t = 15$ mm



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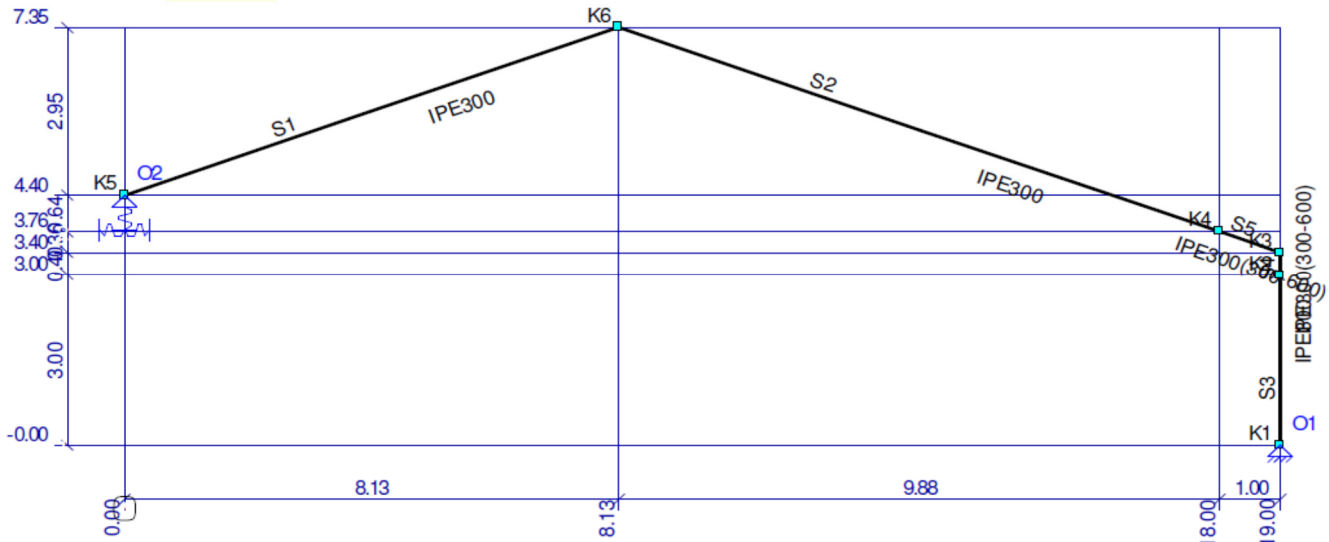
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## Stalen spant (As C)

Onderdeel:

4



|    |                |   |      |   |      |   |      |              |  |
|----|----------------|---|------|---|------|---|------|--------------|--|
| Q= | Hellend dak    | = | 0,25 | x | 1,00 | = | 0,25 |              |  |
|    | Sneeuw $\mu;1$ | = | 0,46 | x | 1,00 | = | 0,46 | $\psi = 0,0$ |  |
|    | Wind           | = | 0,63 | x | 1,00 | = | 0,63 | $\psi = 0,0$ |  |

H.o.h. spant: 5,00 m

**Kies: Spantliggers IPE300**

**Spantbenen IPE300**

### Overige opmerkingen:

- \* Gordingen over de spanten
- \* Voor berekening, overige lasten en combinatie's, zie bijlage blz. 194 t/m 236
- \* Spantbenen plaatsen op ankers: 4M20
- \* Voor detail, zie bijlage blz. 365
- \* Spantbeen koppelen aan vloer d.m.v. haarspeld  $\varnothing$  12mm, plaat  $t=15$ mm
- \* Voetplaat kolom,  $t=15$ mm



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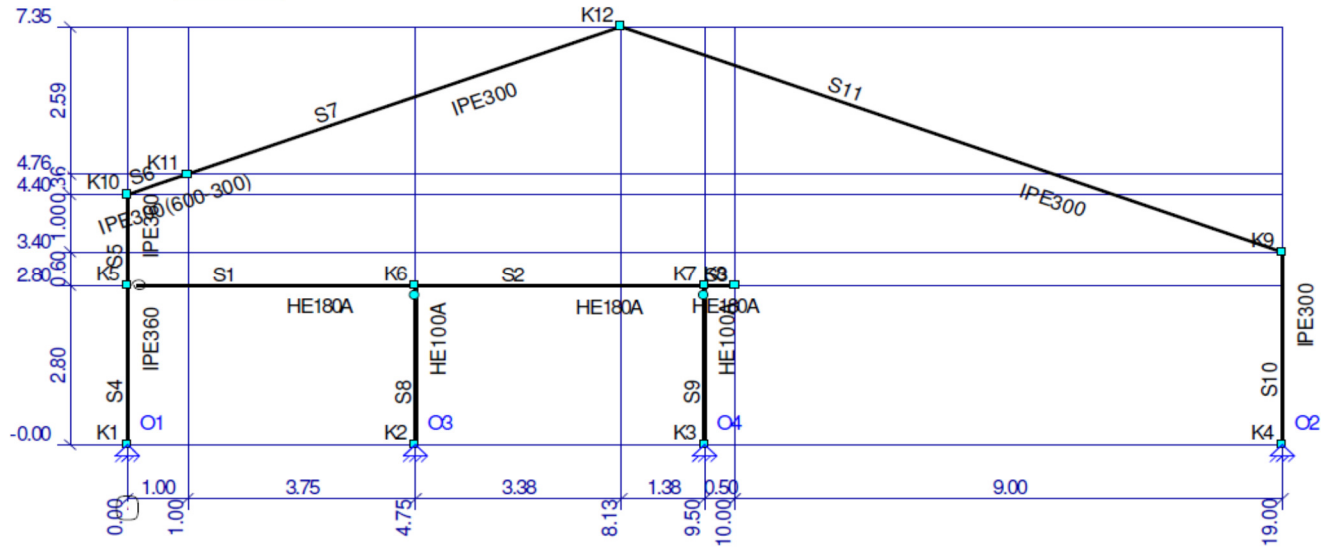
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## Stalen spant (As D)

Onderdeel:

5



|    |                |   |      |   |      |   |
|----|----------------|---|------|---|------|---|
| Q= | Hellend dak    | = | 0,25 | x | 1,00 | = |
|    | Sneeuw $\mu;1$ | = | 0,46 | x | 1,00 | = |
|    | Wind           | = | 0,63 | x | 1,00 | = |

| Gk   | Qk                |
|------|-------------------|
| 0,25 |                   |
|      | 0,46 $\psi = 0,0$ |
|      | 0,63 $\psi = 0,0$ |

H.o.h. spant: 5,00 m

|                           |                        |
|---------------------------|------------------------|
| <b>Kies: Spantliggers</b> | <b>IPE300</b>          |
| <b>Spantbenen</b>         | <b>IPE360 / IPE300</b> |
| <b>Vloerligger</b>        | <b>HE180A</b>          |
| <b>Tussenkolom</b>        | <b>HE100A</b>          |

### Overige opmerkingen:

- \* Gordingen over de spanten
- \* Voor berekening, overige lasten en combinatie's, zie bijlage blz. 237 t/m 294
- \* Spantbenen plaatsen op ankers: 4M20, tussenkolom 2M20
- \* Voor details, zie bijlage blz. 362 t/m 364
- \* Spantbeen koppelen aan vloer d.m.v. haarspeld  $\varnothing$  12mm, plaat  $t=15$ mm
- \* Liggen S11 voorzien van toeg á 20mm
- \* Voetplaat kolom,  $t=15$ mm



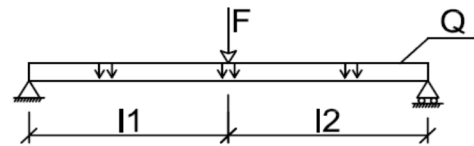
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 Werk: Klein Wassink  
 Datum: 5-10-2016

## Stalen Onderslagbalk

Onderdeel: **7**



Max doorbuiging: 1/ **250**  
 Max bijkomend: 1/ **250**  
 Overspanning I1: **5,00** m.  
 Overspanning I2: **5,00** m.  
 Overspanning totaal: **10,00** m.

| Profiel:      |         |
|---------------|---------|
| <b>HE260A</b> |         |
| Iy            | 10450,0 |
| Wy;el         | 836,4   |
| Iz            | 3668,0  |
| Wz;el         | 282,1   |

### Sterke as

|    |                      |   |      |      |   |      |
|----|----------------------|---|------|------|---|------|
| Q= | Hellend dak          | = | 0,25 | 0,00 | x | 1,00 |
|    | Eigen gewicht ligger | = | 0,68 | 0,00 | x | 1,00 |

| Gk   | Qk   |         |
|------|------|---------|
| 0,25 | 0,00 | ψ = 0,0 |
| 0,68 | 0,00 | ψ = 0,0 |
| 0,93 | 0,00 | 0,0     |
|      |      | kN/m1   |

|                |                                           |        |                                         |       |
|----------------|-------------------------------------------|--------|-----------------------------------------|-------|
| Qk =           | 0,93 kN/m1                                | Qd =   | 1,12 kN/m1                              | 6,10a |
| Mk =           | 11,65 kNm                                 | Md =   | 13,98 kNm                               |       |
| Iben =         | 1445,00 x 10 <sup>4</sup> mm <sup>4</sup> | Wben = | 59,49 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| W1 =           | 5,5 mm < 1/ 250                           | =      | 40,0 mm                                 |       |
| W3 =           | 0,0 mm < 1/ 250                           | =      | 40,0 mm                                 |       |
| Wtot =         | 5,5 mm                                    |        |                                         |       |
| Doorb. Werk. : | 5,5 mm < 1/ 250                           | =      | 40,0 mm                                 |       |

**UC Sterkte: 0,07**  
**UC Doorb.: 0,14**

### Sterke as

|    |           |   |       |       |   |      |
|----|-----------|---|-------|-------|---|------|
| F= | Uit Pos 5 | = | 13,47 | 21,19 | x | 1,00 |
|    |           |   |       | 0,00  | x | 0,00 |

| Gk    | Qk    |         |
|-------|-------|---------|
| 13,47 | 21,19 | ψ = 0,0 |
|       | 0,00  | ψ = 0,0 |
| 13,47 | 21,19 | 0,0     |
|       |       | kN      |

|                |                                           |        |                                          |       |
|----------------|-------------------------------------------|--------|------------------------------------------|-------|
| Fk =           | 34,66 kN                                  | Fd =   | 43,15 kN                                 | 6,10b |
| Mk =           | 86,65 kNm                                 | Md =   | 107,89 kNm                               |       |
| Iben =         | 8596,23 x 10 <sup>4</sup> mm <sup>4</sup> | Wben = | 459,09 x 10 <sup>3</sup> mm <sup>3</sup> |       |
| W1 =           | 12,8 mm < 1/ 250                          | =      | 40,0 mm                                  |       |
| W3 =           | 20,1 mm < 1/ 250                          | =      | 40,0 mm                                  |       |
| Wtot =         | 32,9 mm                                   |        |                                          |       |
| Doorb. Werk. : | 32,9 mm < 1/ 250                          | =      | 40,0 mm                                  |       |

**UC Sterkte: 0,55**  
**UC Doorb.: 0,82**

### Doorbuigings-controle (totaal)

|                 |      |
|-----------------|------|
| (10000 / 250) = | 40,0 |
| (5,5 + 32,9) =  | 38,4 |

### Spannings-controle (totaal)

|                   |                        |        |                   |                   |
|-------------------|------------------------|--------|-------------------|-------------------|
| σ <sub>St</sub> = | $\frac{13,98}{836,4}$  | =      | 16,71             | N/mm <sup>2</sup> |
| σ <sub>St</sub> = | $\frac{107,89}{836,4}$ | =      | 128,99            | N/mm <sup>2</sup> |
| σ uiterste vezel  | =                      | 145,70 | N/mm <sup>2</sup> |                   |

**Totaal**  
**UC Sterkte: 0,62**  
**UC Doorb.: 0,96**

**Kies: HE260A**

### Overige opmerkingen:

- \* Onder spant plaatsen
- \* T.p.v. oplegging tussenspan 2x schotje t=10mm



## Windbelasting kopgevel

$$q_{k,wind} = 0,63 * (0,8+0,5) * 0,85 = 0,70 \text{ kN/m}^2$$

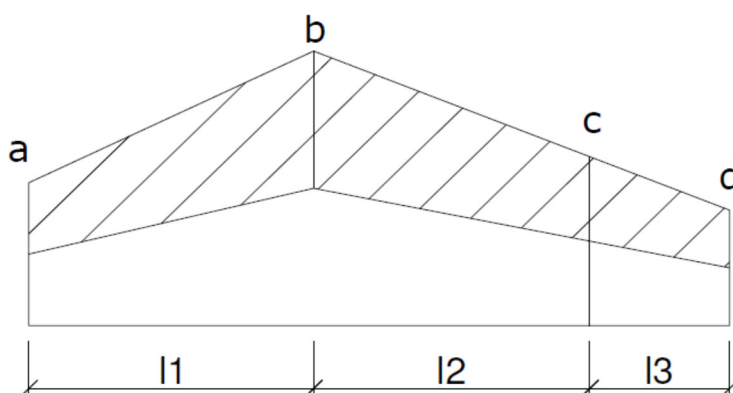
$$C_{fr} = 0,63 * (0,04) * 0 = 0,00 \text{ kN/m}^1$$

breedte 19,00 m  
 hoogte 7,45 m  
 diepte 20,00 m  
 $A_{fr,l}$  0,00 m

|        | h    |   |      |   | qk                            |
|--------|------|---|------|---|-------------------------------|
| str. A | 4,50 | * | 0,50 | * | 0,70 = 1,57 kN/m <sup>1</sup> |
| str. B | 7,45 | * | 0,50 | * | 0,70 = 2,59 kN/m <sup>1</sup> |
| str. C | 3,50 | * | 0,50 | * | 0,70 = 1,22 kN/m <sup>1</sup> |
| str. D | 0,00 | * | 0,50 | * | 0,70 = 0,00 kN/m <sup>1</sup> |

|             |       |   |
|-------------|-------|---|
| L1          | 8,13  | m |
| L2          | 10,88 | m |
| L3          | 0,00  | m |
| Breedte dak | 19,00 | m |

|              |        |   |       |   |                 |
|--------------|--------|---|-------|---|-----------------|
| Reactie in A | 12,73  | * | 14,94 | = | 190,10          |
|              | 4,17   | * | 13,58 | = | 56,66           |
|              | 13,25  | * | 5,44  | = | 72,04           |
|              | 7,48   | * | 7,25  | = | 54,20           |
|              | 0,00   | * | 0,00  | = | 0,00            |
|              | 0,00   | * | 0,00  | = | 0,00            |
|              | 0,00   | * | 19,00 | = | 0,00            |
|              | 0,00   | * | 14,94 | = | 0,00            |
|              | 0,00   | * | 5,44  | = | 0,00            |
|              | 0,00   | * | 0,00  | = | 0,00 +          |
|              |        |   |       |   | <u>373,00</u>   |
|              | 373,00 | / | 19,00 | = | <b>19,63 kN</b> |



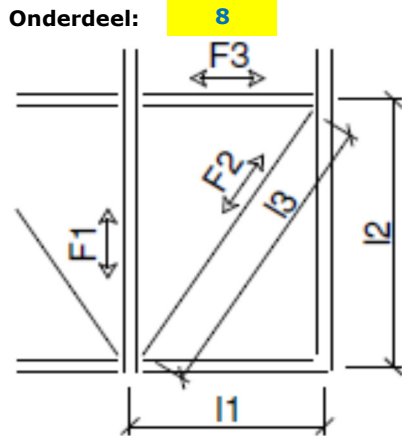
Waarvan 19,63 kN direct op de gevel

|              |        |   |       |   |                 |
|--------------|--------|---|-------|---|-----------------|
| Reactie in C | 12,73  | * | 4,06  | = | 51,70           |
|              | 4,17   | * | 5,42  | = | 22,60           |
|              | 13,25  | * | 13,56 | = | 179,68          |
|              | 7,48   | * | 11,75 | = | 87,84           |
|              | 0,00   | * | 19,00 | = | 0,00            |
|              | 0,00   | * | 19,00 | = | 0,00            |
|              | 0,00   | * | 19,00 | = | 0,00            |
|              | 0,00   | * | 4,06  | = | 0,00            |
|              | 0,00   | * | 13,56 | = | 0,00            |
|              | 0,00   | * | 19,00 | = | 0,00 +          |
|              |        |   |       |   | <u>341,82</u>   |
|              | 341,82 | / | 19,00 | = | <b>17,99 kN</b> |

Waarvan 17,99 kN direct op de gevel



## Trekstaaf Spant Pos 4



Lengte 1: **5,00** m.  
 Lengte 2: **8,65** m.  
 Lengte 3: **9,99** m.  
 Windverband vakken: **1** st.

|                     |
|---------------------|
| <b>Drukker:</b>     |
| <b>Ø 76,1-2,9</b>   |
| <b>Windverband:</b> |
| <b>Ø 16</b>         |

F1= Krachten Pos 4 = 14,85 23,35 x 0,50

| Gk   | Qk    |         |
|------|-------|---------|
| 7,43 | 11,68 | ψ = 0,0 |
| 7,43 | 11,68 | kN      |

F1;k = 19,10 kN

F1;d = 19,81 kN

6,10b

F2;k = 22,06 kN

F2;d = 22,88 kN

6,10b

A;ben = 97 mm<sup>2</sup>

A;aanw = 201 mm<sup>2</sup>

**UC Sterkte: 0,48**

F3;k = 11,04 kN

F3;d = 11,45 kN

6,10b

Max;N'd;knik = 29,33 kN

**UC Knik: 0,39**

**Kies: Drukker: Ø 76,1-2,9**

**Windverband: Ø16 & Wartel**

### Overige opmerkingen:

\* Windverband op spanning brengen

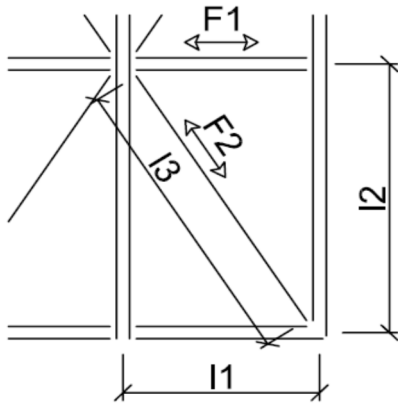
\* T.b.v. opvangen horizontaallasten uit spant as 4



## Windverband Dak

Onderdeel:

9



Lengte 1: 5,00 m.  
 Lengte 2: 5,10 m.  
 Lengte 3: 7,14 m.  
 Windverband vakken: 1 st.

|                     |
|---------------------|
| <b>Drukker:</b>     |
| <b>Ø 76,1-2,9</b>   |
| <b>Windverband:</b> |
| <b>Ø 16</b>         |

|     |               |   |       |   |      |   |
|-----|---------------|---|-------|---|------|---|
| F1= | Wind kopgevel | = | 17,99 | x | 0,85 | = |
|     | Wrijving      | = | 0,00  | x | 0,85 | = |

| Gk | Qk    |              |
|----|-------|--------------|
|    | 15,29 | $\psi = 0,0$ |
|    |       | 0,0          |
|    | 15,29 | kN           |

F1;k = 15,29 kN

F1;d = 20,64 kN

6,10b

Max;N'd;knik = 29,33 kN

**UC Knik: 0,70**

F2;k = 21,84 kN

F2;d = 29,49 kN

6,10b

A;ben = 125 mm<sup>2</sup>

A;aanw = 201 mm<sup>2</sup>

**UC Sterkte: 0,62**

F3;k = 15,60 kN

F2;d = 21,06 kN

6,10b

**Kies: Drukker: Ø 76,1-2,9**

**Windverband: Ø16 & Wartel**

### Overige opmerkingen:

\* Windverband op spanning brengen

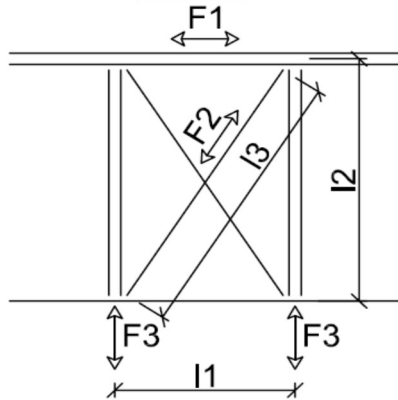
\* T.b.v. opvangen windbelasting op zijgevel.



## Windverband Gevel

Onderdeel:

**10**



Lengte 1: (breedte) **4,80** m.  
Lengte 2: (hoogte) **3,90** m.  
Lengte 3: **6,18** m.  
Windverband vakken: **1** st.

|                     |
|---------------------|
| <b>Drukker:</b>     |
| <b>Ø 76,1-2,9</b>   |
| <b>Windverband:</b> |
| <b>Ø 16</b>         |

F1= Wind kopgevel = 17,99 x 0,85 =  
Wrijving = 0,00 x 0,85 =

| Gk | Qk    |         |
|----|-------|---------|
|    | 15,29 | ψ = 0,0 |
|    |       | 0,0     |
|    | 15,29 | kN      |

F1;k = 15,29 kN

F1;d = 20,64 kN  
Max;N'd;knik = 31,46 kN

6,10b

**UC Knik: 0,66**

F2;k = 19,70 kN

F2;d = 26,60 kN  
A;ben = 113 mm<sup>2</sup>  
A;aanw = 201 mm<sup>2</sup>

6,10b

**UC Sterkte: 0,56**

F3;k = 12,42 kN

F2;d = 16,77 kN

6,10b

**Kies: Drukker: Ø 76,1-2,9**

**Windverband: Ø16 & Wartel**

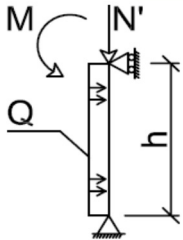
### Overige opmerkingen:

- \* Windverband op spanning brengen
- \* T.b.v. opvangen windbelasting op zijgevel.
- \* Goed verankeren aan onderliggende constructie
- \* Voetplaat kolom windverband, t= 15mm + 4M16-4,6 (tenzij anders aangegeven bij hoofdspant)
- \* T.p.v. windverband funderings-strook = 500x250mm<sup>2</sup> + #Ø6-150 boven + #Ø8-150 onder + hrsp Ø8-250



## Stalen Kolom

Onderdeel: **K1**



Max doorbuiging: 1/ **250**  
 hoogte = **6,85** m.  
 Excentriciteit: **250** mm

| Profiel: |        |
|----------|--------|
| IPE200   |        |
| Iy       | 1943,0 |
| Wy       | 194,3  |
| Iz       | 142,4  |
| Wz       | 28,5   |

N' = **Hellend dak** = 0,25 0,27 x 2,50  
**E.g. ligger** = 0,30 x 5,00

| Gk     | Qk   |         |
|--------|------|---------|
| = 0,63 | 0,68 | ψ = 0,0 |
| = 1,50 |      |         |
| 2,13   | 0,68 | kN      |

Q = **Wind** = 0,63 \*(0,8+0,3)\*0,85= 0,59 x 4,75

| Gk | Qk   |         |
|----|------|---------|
|    | 2,80 | ψ = 0,0 |
|    | 2,80 | kN/m1   |

N'k = 2,80 kN

Qk = 2,80 kN/m1

Mk;boven = 0,70 kNm

Mk;midden = 16,76 kNm

Doorb. Max = 27,4 mm

Iben = 1423,78 x 10<sup>4</sup> mm<sup>4</sup>

Doorb. Werk. = 20,1 mm

N'd = 3,21 kN

Max;N'd;knik = 54,53 kN

Qd = 3,78 kN/m1

Mrep;boven = 0,80 kNm

Mrep;midden = 22,56 kNm

Wben = 95,98 x 10<sup>3</sup> mm<sup>3</sup>

6,10b

**UC Knik: 0,06**

6,10b

**UC Sterkte: 0,49**

**UC Doorb.: 0,73**

**Kies: IPE200**

### Overige opmerkingen:

- \* Onder spant plaatsen
- \* t.b.v. opvangen windbelasting op zijgevel.
- \* Geen 2e orde doorbuiging meegenomen
- \* Plaatsen op ankers: 2M20
- \* Voetplaat kolom, t= 15mm



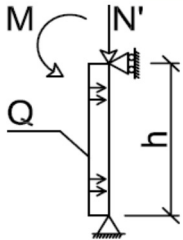
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## Stalen Kolom

Onderdeel: **K2**



Max doorbuiging: 1/ **250**  
 hoogte = **6,10** m.  
 Excentriciteit: **250** mm

| Profiel: |        |
|----------|--------|
| IPE180   |        |
| Iy       | 1317,0 |
| Wy       | 146,3  |
| Iz       | 100,9  |
| Wz       | 22,2   |

N' = **Hellend dak** = 0,25 0,27 x 2,50  
**E.g. ligger** = 0,30 x 5,00

| Gk     | Qk   |         |
|--------|------|---------|
| = 0,63 | 0,68 | ψ = 0,0 |
| = 1,50 |      |         |
| 2,13   | 0,68 | kN      |

Q = **Wind** = 0,63 \*(0,8+0,3)\*0,85= 0,59 x 4,75

| Gk | Qk   |         |
|----|------|---------|
|    | 2,80 | ψ = 0,0 |
|    | 2,80 | kN/m1   |

N'k = 2,80 kN  
 Qk = 2,80 kN/m1  
 Mk;boven = 0,70 kNm  
 Mk;midden = 13,36 kNm  
 Doorb. Max = 24,4 mm  
 Iben = 1010,93 x 10<sup>4</sup> mm<sup>4</sup>  
 Doorb. Werk. = 18,7 mm

N'd = 3,21 kN  
 Max;N'd;knik = 48,50 kN  
 Qd = 3,78 kN/m1  
 Mrep;boven = 0,80 kNm  
 Mrep;midden = 17,97 kNm  
 Wben = 76,47 x 10<sup>3</sup> mm<sup>3</sup>

6,10b  
**UC Knik: 0,07**  
 6,10b

**UC Sterkte: 0,52**  
**UC Doorb.: 0,77**

**Kies: IPE180**

### Overige opmerkingen:

- \* Onder spant plaatsen
- \* t.b.v. opvangen windbelasting op zijgevel.
- \* Geen 2e orde doorbuiging meegenomen
- \* Plaatsen op ankers: 2M20
- \* Voetplaat kolom, t= 15mm



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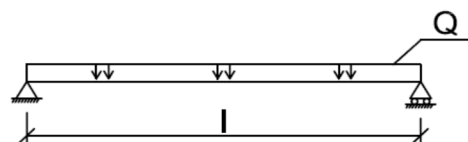
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## Gevel - Houten wandregel

Onderdeel: **W1**

Ontwerplevensduur: **15** Jaar  
 Max doorbuiging: **1/250**  
 Hellingshoek t.o.v. dak: **90** graden  
 Overspanning l: **5,00** m.  
 h.o.h. gording: **1500** mm  
 Gewicht wand: **0,15** kN/m<sup>2</sup>

| Breedte   | Hoogte     |
|-----------|------------|
| <b>59</b> | <b>196</b> |
| Iy        | 3702,0     |
| Wy        | 377,8      |
| Iz        | 335,5      |
| Wz        | 113,7      |



Klimaatklasse: **1** Binnen

Houtsoort: **Hout / LVL**

Kwaliteit: **C24**

Winddruk:  $q_p \times C_f$  **0,63** x **1,10** = **0,69** kN/m<sup>2</sup>

### Sterke as

$$Q = \text{Windbelasting} = 0,00 \quad 0,59 \times 1,50 = \begin{array}{|c|c|} \hline G_k & Q_k \\ \hline 0,00 & 0,88 \\ \hline 0,00 & 0,88 \\ \hline \end{array} \quad \psi = 0,0 \quad \text{Combinatie wind} \quad \text{kN/m1}$$

Qkruip = 0,88 kN/m1  
 Mkruip = 2,76 kNm  
 Doorb. Max = 20,0 mm  
 Iben = 3268,43 x 10<sup>4</sup> mm<sup>4</sup>  
 Doorb. Werk. = 17,7 mm

Qd = 1,19 kN/m1  
 Md = 3,73 kNm  
 Wben = 224,35 x 10<sup>3</sup> mm<sup>3</sup>

6,10b

**UC Sterkte: 0,59**  
**UC Doorb.: 0,88**

### Zwakke as

steunen: **1**

$$Q = \text{Gevelbelasting} = 0,15 \quad 0,00 \times 1,50 = \begin{array}{|c|c|} \hline G_k & Q_k \\ \hline 0,23 & \\ \hline 0,23 & \\ \hline \end{array} \quad 0,0 \quad \text{Combinatie wind is maatgevend} \quad \text{kN/m1}$$

Qkruip = 0,36 kN/m1  
 Mkruip = 0,28 kNm  
 Doorb. Max = 10,0 mm  
 Iben = 166,46 x 10<sup>4</sup> mm<sup>4</sup>  
 Doorb. Werk. = 5,0 mm

Qd = 0,27 kN/m1  
 Md = 0,21 kNm  
 Wben = 12,70 x 10<sup>3</sup> mm<sup>3</sup>

6,10a

**UC Sterkte: 0,11**  
**UC Doorb.: 0,50**

### Doorbuigings-controle (totaal Wind)

$$(20^2 + 10^2)^{0,5} = 22,4$$

$$(17,7^2 + 5^2)^{0,5} = 18,4$$

### Spannings-controle (totaal)

$$\sigma_{St} = \frac{2,80}{377,8} = 7,40 \text{ N/mm}^2$$

$$\sigma_{Zw} = \frac{0,21}{113,7} = 1,86 \text{ N/mm}^2$$

$$\sigma_{\text{uiterste vezel}} = 9,26 \text{ N/mm}^2$$

**Totaal Wind:**  
**UC Sterkte: 0,56**  
**UC Doorb.: 0,82**

**Kies: Hout C24, 59 x 196mm h.o.h.: 1500 mm**

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## Poeren

Bij de berekening van de fundering is uitgegaan van:

Een vaste grondslag:  $\sigma_{gr;rep} > 100 \text{ kN/m}^2 = 1 \text{ kg/cm}^2$

**Dit in het werk te controleren !**

Betonkwaliteit: C20/25      Staalkwaliteit: B500A

Milieuklasse: XC2      Dekking: Conder = 40mm      Cboven/flank = 30mm

De poeren / stroken dienen uitgevoerd te worden op een effen voorbereide ondergrond.

Onderdeel: **Poer 1**

### Uitgangspunten:

|                     |                            |         |               |
|---------------------|----------------------------|---------|---------------|
| Gronddekking rechts | <b>0,50</b> m              | Breedte | <b>0,80</b> m |
| Gronddekking links  | <b>0,50</b> m              | Lengte  | <b>0,80</b> m |
| Wrijvingshoek       | <b>30</b> °                | Dikte   | <b>0,20</b> m |
| Bovenliggend zand   | <b>0,61</b> m <sup>3</sup> |         |               |

| F= | Opwaarts | = | 18,57 | x | 1,00 | = | <table border="1"> <thead> <tr> <th>Gk</th> <th>Qk</th> </tr> </thead> <tbody> <tr> <td></td> <td>18,57</td> </tr> <tr> <td></td> <td>18,57</td> </tr> </tbody> </table> | Gk | Qk |  | 18,57 |  | 18,57 | $\Psi = 0,0$ |
|----|----------|---|-------|---|------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|-------|--|-------|--------------|
| Gk | Qk       |   |       |   |      |   |                                                                                                                                                                          |    |    |  |       |  |       |              |
|    | 18,57    |   |       |   |      |   |                                                                                                                                                                          |    |    |  |       |  |       |              |
|    | 18,57    |   |       |   |      |   |                                                                                                                                                                          |    |    |  |       |  |       |              |

|    |                    |   |       |       |   |      |   |       |       |              |
|----|--------------------|---|-------|-------|---|------|---|-------|-------|--------------|
| F= | Uit berekening     | = | 7,23  | 13,14 | x | 1,00 | = | 7,23  | 13,14 | $\Psi = 0,0$ |
|    | Betonelement 100mm | = | 7,50  |       | x | 4,75 | = | 35,63 |       |              |
|    | Zand               | = | 18,00 |       | x | 0,61 | = | 10,92 |       |              |
|    | Eigen gewicht      | = | 25,00 |       | x | 0,13 | = | 3,20  |       |              |
|    |                    |   |       |       |   |      | = | 56,97 | 13,14 | kN           |

$F_{d,opw} = 20,98 \text{ kN/m1} \quad 6,10b$

$F_{d,neer,min} = 51,27 \text{ kN/m1} \quad 0,9 * G_k$

$F_{d,neer,max} = 76,38 \text{ kN/m1} \quad 6,10b$

**Kies: Poer 800x800x200mm**

**Wap: # Ø 8-150 onder + hrsp Ø 6-250 rondom  
# Ø 6-150 boven**

### Overige opmerkingen:

\* Onder spant plaatsen

\* Poer voorzien van 500mm grond / beton (onder de vloer plaatsen zodat deze geactiveerd wordt bij evt. opwaaien)

Blz:

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Fabriekstraat 33  
 7000 AL Doetinchem  
 Postbus 463

Order nr: \*A.7527\*  
 Werk: Klein Wassink  
 Datum: 5-10-2016

## Poeren

Bij de berekening van de fundering is uitgegaan van:

Een vaste grondslag:  $\sigma_{gr;rep} > 100 \text{ kN/m}^2 = 1 \text{ kg/cm}^2$

**Dit in het werk te controleren !**

Betonkwaliteit: C20/25      Staalkwaliteit: B500A

Milieuklasse: XC2      Dekking: Conder = 40mm      Cboven/flank = 30mm

De poeren / stroken dienen uitgevoerd te worden op een effen voorbereide ondergrond.

Onderdeel: **Poer 2**

### Uitgangspunten:

|                     |                            |         |               |
|---------------------|----------------------------|---------|---------------|
| Gronddekking rechts | <b>0,50</b> m              | Breedte | <b>1,00</b> m |
| Gronddekking links  | <b>0,50</b> m              | Lengte  | <b>1,00</b> m |
| Wrijvingshoek       | <b>30</b> °                | Dikte   | <b>0,20</b> m |
| Bovenliggend zand   | <b>0,84</b> m <sup>3</sup> |         |               |

| F= | Opwaarts | = | 15,78 | x | 1,00 | = | <table border="1"> <tr> <th>Gk</th> <th>Qk</th> </tr> <tr> <td></td> <td>15,78</td> </tr> <tr> <td></td> <td>ψ = 0,0</td> </tr> <tr> <td></td> <td>15,78 kN</td> </tr> </table> | Gk | Qk |  | 15,78 |  | ψ = 0,0 |  | 15,78 kN |
|----|----------|---|-------|---|------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|-------|--|---------|--|----------|
| Gk | Qk       |   |       |   |      |   |                                                                                                                                                                                 |    |    |  |       |  |         |  |          |
|    | 15,78    |   |       |   |      |   |                                                                                                                                                                                 |    |    |  |       |  |         |  |          |
|    | ψ = 0,0  |   |       |   |      |   |                                                                                                                                                                                 |    |    |  |       |  |         |  |          |
|    | 15,78 kN |   |       |   |      |   |                                                                                                                                                                                 |    |    |  |       |  |         |  |          |

| F=    | Uit berekening     | = | 16,84 | 24,10 | x | 1,00 | = | <table border="1"> <tr> <th>Gk</th> <th>Qk</th> </tr> <tr> <td>16,84</td> <td>24,10</td> </tr> <tr> <td></td> <td>ψ = 0,0</td> </tr> </table> | Gk | Qk | 16,84 | 24,10 |  | ψ = 0,0 |
|-------|--------------------|---|-------|-------|---|------|---|-----------------------------------------------------------------------------------------------------------------------------------------------|----|----|-------|-------|--|---------|
| Gk    | Qk                 |   |       |       |   |      |   |                                                                                                                                               |    |    |       |       |  |         |
| 16,84 | 24,10              |   |       |       |   |      |   |                                                                                                                                               |    |    |       |       |  |         |
|       | ψ = 0,0            |   |       |       |   |      |   |                                                                                                                                               |    |    |       |       |  |         |
|       | Betonelement 100mm | = | 7,50  |       | x | 4,75 | = | 35,63                                                                                                                                         |    |    |       |       |  |         |
|       | Zand               | = | 18,00 |       | x | 0,84 | = | 15,20                                                                                                                                         |    |    |       |       |  |         |
|       | Eigen gewicht      | = | 25,00 |       | x | 0,20 | = | 5,00                                                                                                                                          |    |    |       |       |  |         |
|       |                    |   |       |       |   |      |   | 72,66                                                                                                                                         |    |    |       |       |  |         |
|       |                    |   |       |       |   |      |   | 24,10 kN                                                                                                                                      |    |    |       |       |  |         |

$F_{d,opw} = 17,83 \text{ kN/m1} \quad 6,10b$

$F_{d,neer,min} = 65,40 \text{ kN/m1} \quad 0,9 * Gk$

$F_{d,neer,max} = 105,71 \text{ kN/m1} \quad 6,10b$

**Kies: Poer 1000x1000x200mm**

**Wap: # Ø 8-150 onder + hrsp Ø 6-250 rondom  
# Ø 6-150 boven**

### Overige opmerkingen:

\* Onder spant plaatsen

\* Poer voorzien van 500mm grond / beton (onder de vloer plaatsen zodat deze geactiveerd wordt bij evt. opwaaien)

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## Poeren

Bij de berekening van de fundering is uitgegaan van:

Een vaste grondslag:  $\sigma_{gr;rep} > 100 \text{ kN/m}^2 = 1 \text{ kg/cm}^2$

**Dit in het werk te controleren !**

Betonkwaliteit: C20/25      Staalkwaliteit: B500A

Milieuklasse: XC2      Dekking: Conder = 40mm      Cboven/flank = 30mm

De poeren / stroken dienen uitgevoerd te worden op een effen voorbereide ondergrond.

Onderdeel: **Poer 3**

### Uitgangspunten:

|                     |             |                |         |             |   |
|---------------------|-------------|----------------|---------|-------------|---|
| Gronddekking rechts | <b>0,50</b> | m              | Breedte | <b>1,20</b> | m |
| Gronddekking links  | <b>0,50</b> | m              | Lengte  | <b>1,20</b> | m |
| Wrijvingshoek       | <b>30</b>   | °              | Dikte   | <b>0,20</b> | m |
| Bovenliggend zand   | <b>1,12</b> | m <sup>3</sup> |         |             |   |

|    |                 |   |              |   |             |   |    |       |              |
|----|-----------------|---|--------------|---|-------------|---|----|-------|--------------|
| F= | <b>Opwaarts</b> | = | <b>28,03</b> | x | <b>1,00</b> | = | Gk | Qk    | $\Psi = 0,0$ |
|    |                 |   |              |   |             |   |    | 28,03 |              |
|    |                 |   |              |   |             |   |    | 28,03 | kN           |

|    |                           |   |              |              |   |             |   |       |       |              |
|----|---------------------------|---|--------------|--------------|---|-------------|---|-------|-------|--------------|
| F= | <b>Uit berekening</b>     | = | <b>48,27</b> | <b>40,80</b> | x | <b>1,00</b> | = | Gk    | Qk    | $\Psi = 0,0$ |
|    | <b>Betonelement 100mm</b> | = | <b>7,50</b>  |              | x | <b>2,50</b> | = | 48,27 | 40,80 |              |
|    | <b>Verdieping</b>         | = |              | <b>15,78</b> | x | <b>1,00</b> | = | 18,75 | 15,78 |              |
|    | <b>Zand</b>               | = | <b>18,00</b> |              | x | <b>1,12</b> | = | 20,20 |       |              |
|    | <b>Eigen gewicht</b>      | = | <b>25,00</b> |              | x | <b>0,29</b> | = | 7,20  |       |              |
|    |                           |   |              |              |   |             |   | 94,42 | 56,58 | kN           |

$F_{d;opw} = 31,67 \text{ kN/m1} \quad 6,10b$

$F_{d;neer;min} = 84,97 \text{ kN/m1} \quad 0,9 * Gk$

$F_{d;neer;max} = 165,90 \text{ kN/m1} \quad 6,10b$

**Kies: Poer 1200x1200x200mm**

**Wap: # Ø 8-150 onder + hrsp Ø 6-250 rondom  
# Ø 6-150 boven**

### Overige opmerkingen:

\* Onder spant plaatsen

\* Poer voorzien van 500mm grond / beton (onder de vloer plaatsen zodat deze geactiveerd wordt bij evt. opwaaien)



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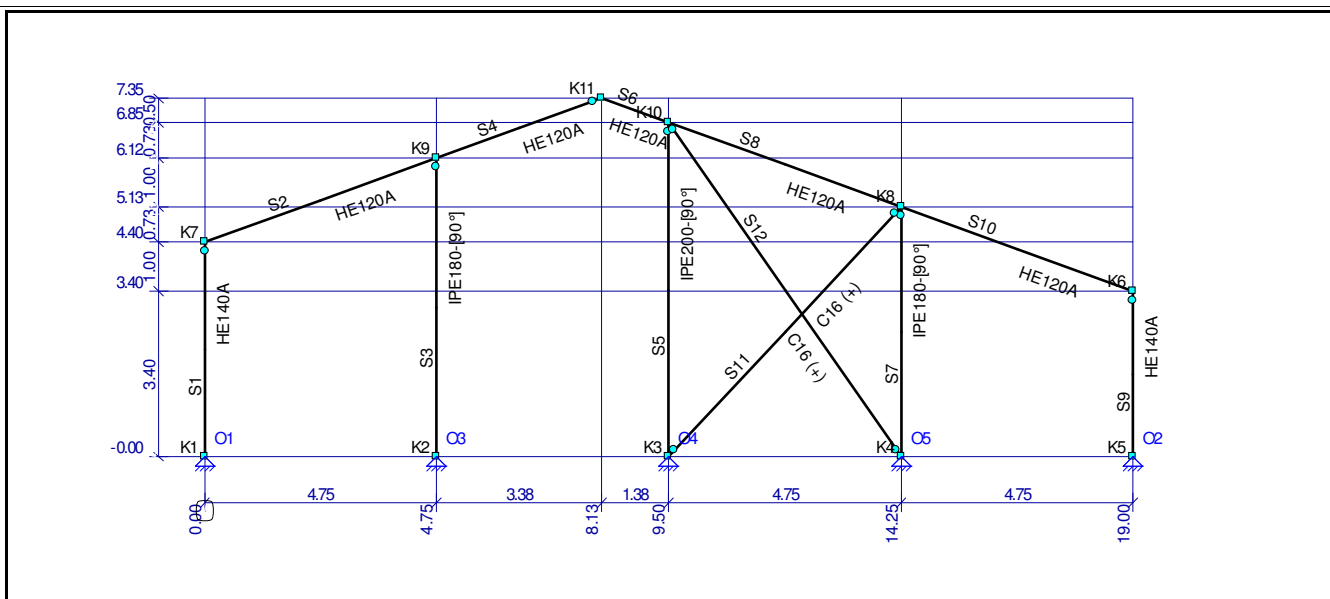
Order nr: \*A.7527\*  
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Datum: 5-10-2016

## Bijlagen

|              |              |              |
|--------------|--------------|--------------|
| <b>Pos 2</b> | <b>Spant</b> | <b>Nieuw</b> |
| <b>Pos 3</b> | <b>Spant</b> | <b>Nieuw</b> |
| <b>Pos 4</b> | <b>Spant</b> | <b>Nieuw</b> |
| <b>Pos 5</b> | <b>Spant</b> | <b>Nieuw</b> |
| <b>Pos 6</b> | <b>Spant</b> | <b>Nieuw</b> |

| Wopereis Staalbouw |                                                                                                                           | Pos 2 - Eindspant |            |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------|------------|
| Projectnaam        |                                                                                                                           | Projectnummer     |            |
| Omschrijving       |                                                                                                                           | Constructeur      |            |
| Opdrachtgever      |                                                                                                                           | Eenheden          | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\ Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161003 - Pos 2 - Eindspant.mxf |                   |            |

#### AFB. GEOMETRIE RAAMWERK



#### STAVEN

| Staf | Knoop B | B   | Scharnier E | Knoop E | Profiel | X-B    | Z-B    | X-E    | Z-E    | Lengte |
|------|---------|-----|-------------|---------|---------|--------|--------|--------|--------|--------|
| S1   | K1      | NVM | NV-         | K7      | P1      | 0,000  | 0,000  | 0,000  | -4,400 | 4,400  |
| S2   | K7      | NVM | NVM         | K9      | P2      | 0,000  | -4,400 | 4,750  | -6,125 | 5,053  |
| S3   | K2      | NVM | NV-         | K9      | P5      | 4,750  | 0,000  | 4,750  | -6,125 | 6,125  |
| S4   | K9      | NVM | NV-         | K11     | P2      | 4,750  | -6,125 | 8,125  | -7,350 | 3,591  |
| S5   | K3      | NVM | NV-         | K10     | P3      | 9,500  | 0,000  | 9,500  | -6,851 | 6,851  |
| S6   | K11     | NVM | NVM         | K10     | P2      | 8,125  | -7,350 | 9,500  | -6,851 | 1,463  |
| S7   | K4      | NVM | NV-         | K8      | P5      | 14,250 | 0,000  | 14,250 | -5,125 | 5,125  |
| S8   | K10     | NVM | NVM         | K8      | P2      | 9,500  | -6,851 | 14,250 | -5,125 | 5,054  |
| S9   | K5      | NVM | NV-         | K6      | P1      | 19,000 | 0,000  | 19,000 | -3,400 | 3,400  |
| S10  | K8      | NVM | NVM         | K6      | P2      | 14,250 | -5,125 | 19,000 | -3,400 | 5,054  |
| S11  | K3      | NV- | NV-         | K8      | P4      | 9,500  | 0,000  | 14,250 | -5,125 | 6,988  |
| S12  | K10     | NV- | NV-         | K4      | P4      | 9,500  | -6,851 | 14,250 | 0,000  | 8,336  |
| -    | -       | -   | -           | -       | -       | m      | m      | m      | m      | m      |

#### PROFIELEN

| Profiel | Profielnaam | Oppervlakte | ly         | Materiaal | Hoek |
|---------|-------------|-------------|------------|-----------|------|
| P1      | HE140A      | 3.1416e-03  | 1.0331e-05 | S235      | 0    |
| P2      | HE120A      | 2.5336e-03  | 6.0615e-06 | S235      | 0    |
| P3      | IPE200      | 2.8484e-03  | 1.4237e-06 | S235      | 90   |
| P4      | C16         | 2.0106e-04  | 3.2170e-09 | S235      | 0    |
| P5      | IPE180      | 2.3947e-03  | 1.0085e-06 | S235      | 90   |
| -       | -           | m2          | m4         | -         | °    |

#### PROFIELVORMEN

| Profiel | Verl. h. | hB    | hE    | tf    | tw    | tf2   | B     | bL    | bR Raatl. | Hoogte |
|---------|----------|-------|-------|-------|-------|-------|-------|-------|-----------|--------|
| P4      | Nee      | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.016 | 0.000 | 0.000 Nee | 0.000  |
| -       | -        | m     | m     | m     | m     | m     | m     | m     | m -       | m      |

#### MATERIALEN

| Materiaal | Dichtheid | E-Modulus  | Uitzettingcoeff |
|-----------|-----------|------------|-----------------|
| S235      | 78.50     | 2.1000e+08 | 12.0000e-06     |
| -         | kN/m3     | kN/m2      | C°m             |

#### PROFIELEN (GEAVANCEERD)

| Profiel | Ivv        | Avz        | Trek | Druk | Kabelement | Voorspanning |
|---------|------------|------------|------|------|------------|--------------|
| P4      | 3.2170e-09 | 1.6965e-04 | Ja   | Nee  | Nee        | 0.00         |
| -       | m4         | m2         | -    | -    | -          | kN           |

|                           |  |                          |
|---------------------------|--|--------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 2 - Eindspant</b> |
|---------------------------|--|--------------------------|

## OPLEGGINGEN

| Oplegging | Knoop | X           | Z           | Yr            | HoekYr   |
|-----------|-------|-------------|-------------|---------------|----------|
| O1        | K1    | vast        | vast        | vrij          | 0        |
| O2        | K5    | vast        | vast        | vrij          | 0        |
| O3        | K2    | vast        | vast        | vrij          | 0        |
| O4        | K3    | vast        | vast        | vrij          | 0        |
| O5        | K4    | vast        | vast        | vrij          | 0        |
| -         | -     | <b>kN/m</b> | <b>kN/m</b> | <b>kNmrad</b> | <b>°</b> |

## GEWICHTSBEREKENING

| Index   | Staven                                                           | Berekening                                                                | Waarde Eenheden |
|---------|------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|
| Lsys1   | Belastingen en vervormingen                                      | NEN-EN1991                                                                |                 |
| Height1 | Systeemmaat                                                      | 5.00                                                                      | 5,00 [m]        |
| Width1  | Totale hoogte van constructie                                    | 7.35                                                                      | 7,35 [m]        |
| LR1     | Totale breedte van constructie                                   | 19.00                                                                     | 19,00 [m]       |
|         | Permanente Belasting                                             | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
| Pp1     | Hellend dak (S2,S3)                                              |                                                                           |                 |
| q1      | Golfplaten en gordingen (0.25)                                   | 0.25                                                                      | 0,25 [kN/m²]    |
| LR2     | Permanente Belasting                                             | Pp1*Lsys1                                                                 | 1,25 [kN/m]     |
|         | Opgelegde belastingen                                            | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
|         | S2-S3                                                            |                                                                           |                 |
| qk1     | Opgelegde belastingen (qk)                                       | NEN-EN1991-1-1#6.3(Cat=H, Hoek=20)                                        | 0,00 [kN/m²]    |
| q2      | Opgelegde belastingen (q) (Lsys=5.00)                            | qk1 * Min(5.0, Lsys1)                                                     | 0,00 [kN/m]     |
| LR3     |                                                                  |                                                                           |                 |
|         | Windbelasting van Links + Overdruk                               | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height2 | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width2  | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width3  | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A1      | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co1     | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd1   | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width2,h=Height2,T<br>errein=Onbebouwd,Regio=3,C0=Co1) | 0,85            |
| Cpe1    | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| Cpi1    | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=<br>0.00,Over=True)                   | 0,20            |
| Z1      | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                      | 7,35 [m]        |
| Qp1     | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebo<br>uwd,Regio=3,C0=Co1)               | 0,63 [kN/m²]    |
| q3      | Interne druk; Verdeelde element belasting (q)                    | (Cpi1*Qp1) * Lsys1                                                        | 0,63 [kN/m]     |
| Cpe2    | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| q4      | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*Cpe2*CsCd1) * Lsys1                                                  | 2,14 [kN/m]     |
| Cpe3    | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39)                           | -0,50           |
| C1      | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe2-Cpe3) * 0.85                                                        | 1,11            |
| q5      | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*(Cpe3+C1)*CsCd1) * Lsys1                                             | 1,62 [kN/m]     |
| Cpe4    | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=G,Hoek=19.95)                    | -0,70           |
| q6      | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe4*CsCd1) * Lsys1                                                  | -1,87 [kN/m]    |
| Cpe5    | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=H,Hoek=19.95)                    | -0,27           |
| q7      | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe5*CsCd1) * Lsys1                                                  | -0,71 [kN/m]    |
| Cpe6    | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=J,Hoek=19.96)                    | -0,83           |
| q8      | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe6*CsCd1) * Lsys1                                                  | -2,23 [kN/m]    |
| Cpe7    | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=I,Hoek=19.96)                    | -0,40           |
| q9      | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe7*CsCd1) * Lsys1                                                  | -1,07 [kN/m]    |
| q10     | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*Cpe3*CsCd1) * Lsys1                                                  | -1,34 [kN/m]    |
| q11     | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*(Cpe2-C1)*CsCd1) * Lsys1                                             | -0,81 [kN/m]    |
| LR4     |                                                                  |                                                                           |                 |
|         | Windbelasting van Links + Overdruk (2e Cpe)                      | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height3 | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width4  | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width5  | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A2      | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co2     | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd2   | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width4,h=Height3,T<br>errein=Onbebouwd,Regio=3,C0=Co2) | 0,85            |

| Wopereis Staalbouw                           |                                                                  | Pos 2 - Eindspant                                                     |                 |
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| <b>LR4</b>                                   |                                                                  |                                                                       |                 |
| Cpe8                                         | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| Cpi2                                         | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe8,Openingen=0.00,Over=True)                   | 0,20            |
| Z2                                           | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp2                                          | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebouwd,Regio=3,C0=Co2)               | 0,63 [kN/m²]    |
| q12                                          | Interne druk; Verdeelde element belasting (q)                    | (Cpi2*Qp2) * Lsys1                                                    | 0,63 [kN/m]     |
| Cpe9                                         | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)               | 0,80            |
| q13                                          | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*Cpe9*CsCd2) * Lsys1                                              | 2,14 [kN/m]     |
| Cpe10                                        | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)               | -0,50           |
| C2                                           | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe9-Cpe10) * 0.85                                                   | 1,11            |
| q14                                          | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*(Cpe10+C2)*CsCd2) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe11                                        | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)        | 0,37            |
| q15                                          | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe11*CsCd2) * Lsys1                                             | 0,97 [kN/m]     |
| Cpe12                                        | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)        | 0,27            |
| q16                                          | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe12*CsCd2) * Lsys1                                             | 0,71 [kN/m]     |
| Cpe13                                        | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)        | 0,00            |
| q17                                          | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe13*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| Cpe14                                        | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)        | 0,00            |
| q18                                          | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe14*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| q19                                          | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*Cpe10*CsCd2) * Lsys1                                             | -1,34 [kN/m]    |
| q20                                          | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*(Cpe9-C2)*CsCd2) * Lsys1                                         | -0,81 [kN/m]    |
| <b>LR5</b>                                   |                                                                  |                                                                       |                 |
| Windbelasting van Links + Onderdruk          |                                                                  | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height4                                      | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width6                                       | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width7                                       | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A3                                           | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co3                                          | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd3                                        | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width6,h=Height4,Terrein=Onbebouwd,Regio=3,C0=Co3) | 0,85            |
| Cpe15                                        | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi3                                         | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe15,Openingen=0.00,Over=False)                 | -0,30           |
| Z3                                           | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp3                                          | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebouwd,Regio=3,C0=Co3)               | 0,63 [kN/m²]    |
| q21                                          | Interne druk; Verdeelde element belasting (q)                    | (Cpi3*Qp3) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe16                                        | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| q22                                          | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*Cpe16*CsCd3) * Lsys1                                             | 2,14 [kN/m]     |
| Cpe17                                        | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| C3                                           | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe16-Cpe17) * 0.85                                                  | 1,11            |
| q23                                          | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*(Cpe17+C3)*CsCd3) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe18                                        | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95)                    | -0,70           |
| q24                                          | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe18*CsCd3) * Lsys1                                             | -1,87 [kN/m]    |
| Cpe19                                        | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95)                    | -0,27           |
| q25                                          | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe19*CsCd3) * Lsys1                                             | -0,71 [kN/m]    |
| Cpe20                                        | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96)                    | -0,83           |
| q26                                          | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe20*CsCd3) * Lsys1                                             | -2,23 [kN/m]    |
| Cpe21                                        | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96)                    | -0,40           |
| q27                                          | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe21*CsCd3) * Lsys1                                             | -1,07 [kN/m]    |
| q28                                          | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*Cpe17*CsCd3) * Lsys1                                             | -1,34 [kN/m]    |
| q29                                          | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*(Cpe16-C3)*CsCd3) * Lsys1                                        | -0,81 [kN/m]    |
| <b>LR6</b>                                   |                                                                  |                                                                       |                 |
| Windbelasting van Links + Onderdruk (2e Cpe) |                                                                  | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height5                                      | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width8                                       | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width9                                       | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A4                                           | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co4                                          | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |

| Wopereis Staalbouw |  | Pos 2 - Eindspant |
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| <b>LR6</b> |                                                                  |                                                                            |                 |
| CsCd4      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width8,h=Height5,T<br>errein=Onbebouwd,Regio=3,C0=Co4)  | 0,85            |
| Cpe22      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39)                            | -0,50           |
| Cpi4       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe22,Openingen<br>=0.00,Over=False)                  | -0,30           |
| Z4         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                       | 7,35 [m]        |
| Qp4        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebo<br>uwd,Regio=3,C0=Co4)                | 0,63 [kN/m²]    |
| q30        | Interne druk; Verdeelde element belasting (q)                    | (Cpi4*Qp4) * Lsys1                                                         | -0,94 [kN/m]    |
| Cpe23      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39,Eerst=False)                | 0,80            |
| q31        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*Cpe23*CsCd4) * Lsys1                                                  | 2,14 [kN/m]     |
| Cpe24      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39,Eerst=False)                | -0,50           |
| C4         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe23-Cpe24) * 0.85                                                       | 1,11            |
| q32        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*(Cpe24+C4)*CsCd4) * Lsys1                                             | 1,62 [kN/m]     |
| Cpe25      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=G,Hoek=19.95,Eerst=False)         | 0,37            |
| q33        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe25*CsCd4) * Lsys1                                                  | 0,97 [kN/m]     |
| Cpe26      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=H,Hoek=19.95,Eerst=False)         | 0,27            |
| q34        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe26*CsCd4) * Lsys1                                                  | 0,71 [kN/m]     |
| Cpe27      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=J,Hoek=19.96,Eerst=False)         | 0,00            |
| q35        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe27*CsCd4) * Lsys1                                                  | 0,00 [kN/m]     |
| Cpe28      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=I,Hoek=19.96,Eerst=False)         | 0,00            |
| q36        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe28*CsCd4) * Lsys1                                                  | 0,00 [kN/m]     |
| q37        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*Cpe24*CsCd4) * Lsys1                                                  | -1,34 [kN/m]    |
| q38        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*(Cpe23-C4)*CsCd4) * Lsys1                                             | -0,81 [kN/m]    |
| <b>LR7</b> |                                                                  |                                                                            |                 |
|            | Windbelasting van Rechts + Overdruk                              | NEN-EN1991-1-4:2011/NB:2011                                                |                 |
| Height6    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                       | 7,35 [m]        |
| Width10    | Gemiddelde breedte (b)                                           | 20.00                                                                      | 20,00 [m]       |
| Width11    | Constructie diepte (d)                                           | 19.00                                                                      | 19,00 [m]       |
| A5         | Belast oppervlak (A)                                             | 147.00                                                                     | 147,00 [m²]     |
| Co5        | Orthografie factor (C0)                                          | 1.00                                                                       | 1,00            |
| CsCd5      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width10,h=Height6,<br>Terrein=Onbebouwd,Regio=3,C0=Co5) | 0,85            |
| Cpe29      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                            | 0,80            |
| Cpi5       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe29,Openingen<br>=0.00,Over=True)                   | 0,20            |
| Z5         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                       | 7,35 [m]        |
| Qp5        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z5,Terrein=Onbebo<br>uwd,Regio=3,C0=Co5)                | 0,63 [kN/m²]    |
| q39        | Interne druk; Verdeelde element belasting (q)                    | (Cpi5*Qp5) * Lsys1                                                         | 0,63 [kN/m]     |
| Cpe30      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39)                            | -0,50           |
| q40        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*Cpe30*CsCd5) * Lsys1                                                  | -1,34 [kN/m]    |
| Cpe31      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                            | 0,80            |
| C5         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe31-Cpe30) * 0.85                                                       | 1,11            |
| q41        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe31-C5)*CsCd5) * Lsys1                                             | -0,81 [kN/m]    |
| q42        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe30+C5)*CsCd5) * Lsys1                                             | 1,62 [kN/m]     |
| Cpe32      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=I,Hoek=19.95)                     | -0,40           |
| q43        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe32*CsCd5) * Lsys1                                                  | -1,07 [kN/m]    |
| Cpe33      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=J,Hoek=19.95)                     | -0,84           |
| q44        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe33*CsCd5) * Lsys1                                                  | -2,23 [kN/m]    |
| Cpe34      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=H,Hoek=19.96)                     | -0,27           |
| q45        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe34*CsCd5) * Lsys1                                                  | -0,71 [kN/m]    |
| Cpe35      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=G,Hoek=19.96)                     | -0,70           |
| q46        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe35*CsCd5) * Lsys1                                                  | -1,87 [kN/m]    |
| q47        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp5*Cpe31*CsCd5) * Lsys1                                                  | 2,14 [kN/m]     |
| <b>LR8</b> |                                                                  |                                                                            |                 |
|            | Windbelasting van Rechts + Overdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                                |                 |
| Height7    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                       | 7,35 [m]        |
| Width12    | Gemiddelde breedte (b)                                           | 20.00                                                                      | 20,00 [m]       |
| Width13    | Constructie diepte (d)                                           | 19.00                                                                      | 19,00 [m]       |
| A6         | Belast oppervlak (A)                                             | 147.00                                                                     | 147,00 [m²]     |

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| <b>LR8</b>  |                                                                  |                                                                         |                 |
| Co6         | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd6       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width12,h=Height7, Terrein=Onbebouwd,Regio=3,C0=Co6) | 0,85            |
| Cpe36       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39)                            | 0,80            |
| Cpi6        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe36,Openingen =0.00,Over=True)                   | 0,20            |
| Z6          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp6         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z6,Terrein=Onbebo uwd,Regio=3,C0=Co6)                | 0,63 [kN/m²]    |
| q48         | Interne druk; Verdeelde element belasting (q)                    | (Cpi6*Qp6) * Lsys1                                                      | 0,63 [kN/m]     |
| Cpe37       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39,Eerst=False)                | -0,50           |
| q49         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*Cpe37*CsCd6) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe38       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39,Eerst=False)                | 0,80            |
| C6          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe38-Cpe37) * 0.85                                                    | 1,11            |
| q50         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe38-C6)*CsCd6) * Lsys1                                          | -0,81 [kN/m]    |
| q51         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe37+C6)*CsCd6) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe39       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95,Eerst=False)         | 0,00            |
| q52         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe39*CsCd6) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe40       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95,Eerst=False)         | 0,00            |
| q53         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe40*CsCd6) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe41       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96,Eerst=False)         | 0,27            |
| q54         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe41*CsCd6) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe42       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96,Eerst=False)         | 0,37            |
| q55         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe42*CsCd6) * Lsys1                                               | 0,98 [kN/m]     |
| q56         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp6*Cpe38*CsCd6) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR9</b>  |                                                                  |                                                                         |                 |
|             | Windbelasting van Rechts + Onderdruk                             | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height8     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width14     | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width15     | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A7          | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co7         | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd7       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width14,h=Height8, Terrein=Onbebouwd,Regio=3,C0=Co7) | 0,85            |
| Cpe43       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| Cpi7        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen =0.00,Over=False)                  | -0,30           |
| Z7          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp7         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebo uwd,Regio=3,C0=Co7)                | 0,63 [kN/m²]    |
| q57         | Interne druk; Verdeelde element belasting (q)                    | (Cpi7*Qp7) * Lsys1                                                      | -0,94 [kN/m]    |
| Cpe44       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| q58         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*Cpe44*CsCd7) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe45       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39)                            | 0,80            |
| C7          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe45-Cpe44) * 0.85                                                    | 1,11            |
| q59         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe45-C7)*CsCd7) * Lsys1                                          | -0,81 [kN/m]    |
| q60         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe44+C7)*CsCd7) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe46       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95)                     | -0,40           |
| q61         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe46*CsCd7) * Lsys1                                               | -1,07 [kN/m]    |
| Cpe47       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95)                     | -0,84           |
| q62         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe47*CsCd7) * Lsys1                                               | -2,23 [kN/m]    |
| Cpe48       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96)                     | -0,27           |
| q63         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe48*CsCd7) * Lsys1                                               | -0,71 [kN/m]    |
| Cpe49       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96)                     | -0,70           |
| q64         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe49*CsCd7) * Lsys1                                               | -1,87 [kN/m]    |
| q65         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp7*Cpe45*CsCd7) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR10</b> |                                                                  |                                                                         |                 |
|             | Windbelasting van Rechts + Onderdruk (2e Cpe)                    | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height9     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width16     | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width17     | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |

|                           |  |                          |
|---------------------------|--|--------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 2 - Eindspant</b> |
|---------------------------|--|--------------------------|

| Index       | Staven                                                                    | Berekening                                                              | Waarde Eenheden |
|-------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|
| <b>LR10</b> |                                                                           |                                                                         |                 |
| A8          | Belast oppervlak (A)                                                      | 147.00                                                                  | 147,00 [m²]     |
| Co8         | Orthografie factor (C0)                                                   | 1.00                                                                    | 1,00            |
| CsCd8       | Constructie factor (CsCd)                                                 | NEN-EN1991-1-4#6(b=Width16,h=Height9, Terrein=Onbebouwd,Regio=3,C0=Co8) | 0,85            |
| Cpe50       | Uitwendige druk; Druk coefficient (Cpe)                                   | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| Cpi8        | Interne druk; Druk coefficient (Cpi)                                      | EN1991-1-4#7.2.9(Cpe=Cpe50,Openingen =0.00,Over=False)                  | -0,30           |
| Z8          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                                   | 7.35                                                                    | 7,35 [m]        |
| Qp8         | Pieksnelheids druk (Qp voor referentieperiode 50)                         | NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebouwd,Regio=3,C0=Co8)                 | 0,63 [kN/m²]    |
| q66         | Interne druk; Verdeelde element belasting (q)                             | (Cpi8*Qp8) * Lsys1                                                      | -0,94 [kN/m]    |
| Cpe51       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39,Eerst=False)                | -0,50           |
| q67         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*Cpe51*CsCd8) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe52       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39,Eerst=False)                | 0,80            |
| C8          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor          | (Cpe52-Cpe51) * 0.85                                                    | 1,11            |
| q68         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe52-C8)*CsCd8) * Lsys1                                          | -0,81 [kN/m]    |
| q69         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe51+C8)*CsCd8) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe53       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95,Eerst=False)         | 0,00            |
| q70         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe53*CsCd8) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe54       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95,Eerst=False)         | 0,00            |
| q71         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe54*CsCd8) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe55       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96,Eerst=False)         | 0,27            |
| q72         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe55*CsCd8) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe56       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96,Eerst=False)         | 0,37            |
| q73         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe56*CsCd8) * Lsys1                                               | 0,98 [kN/m]     |
| q74         | Vertikale wand S4; Verdeelde element belasting (q)                        | (Qp8*Cpe52*CsCd8) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR11</b> |                                                                           |                                                                         |                 |
|             | Sneeuwbelasting                                                           | NEN-EN1991-1-3:2011/NB:2011                                             |                 |
| Sk1         | Karakteristiek waarde van de sneeuwlast op de grond (Sk)                  | NEN-EN1991-1-3#4.1(Zone=1)                                              | 0,70 [kN/m²]    |
| Ce1         | De milieucoefficient (Ce)                                                 | NEN-EN1991-1-3#5.2.7()                                                  | 1,00            |
| Ct1         | De thermische coefficient (Ct)                                            | NEN-EN1991-1-3#5.2.8()                                                  | 1,00            |
| Mu1         | Zadeldak, Mu1 Hoek: 19.95; S2,S3<br>Mu1; Sneeuwbelasting coefficient (Mu) | EN1991-1-3#5.3(Dak=Hellend,Hoek=19.95 ,Mu=Mu1,Sk=Sk1)                   | 0,80            |
| q75         | Verdeelde element belasting (q)                                           | (Sk1*Ce1*Ct1*Mu1) * Lsys1                                               | 2,80 [kN/m]     |
| q76         | Verdeelde element belasting (q)                                           | q75*0.50                                                                | 1,40 [kN/m]     |

### BELASTINGSGEVALLEN TYPEN

| Oplegg. | Staven                                                                                 | B.G.Type      | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|----------------------------------------------------------------------------------------|---------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.1   | Permanente Belasting                                                                   | Permanent     | -            |         | N.v.t. | N.v.t. |      |      |      |       |
| B.G.2   | Windbelasting van Links + Overdruk                                                     | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.3   | Windbelasting van Links + Overdruk (2e Cpe)                                            | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.4   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.5   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.6   | Windbelasting van Links + Overdruk (2e corr. factor)                                   | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.7   | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.8   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.9   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.10  | Windbelasting van Links + Onderdruk                                                    | Windbelasting | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.11  | Windbelasting van Links + Onderdruk (2e Cpe)                                           | Windbelasting | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |

|                           |  |                          |
|---------------------------|--|--------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 2 - Eindspant</b> |
|---------------------------|--|--------------------------|

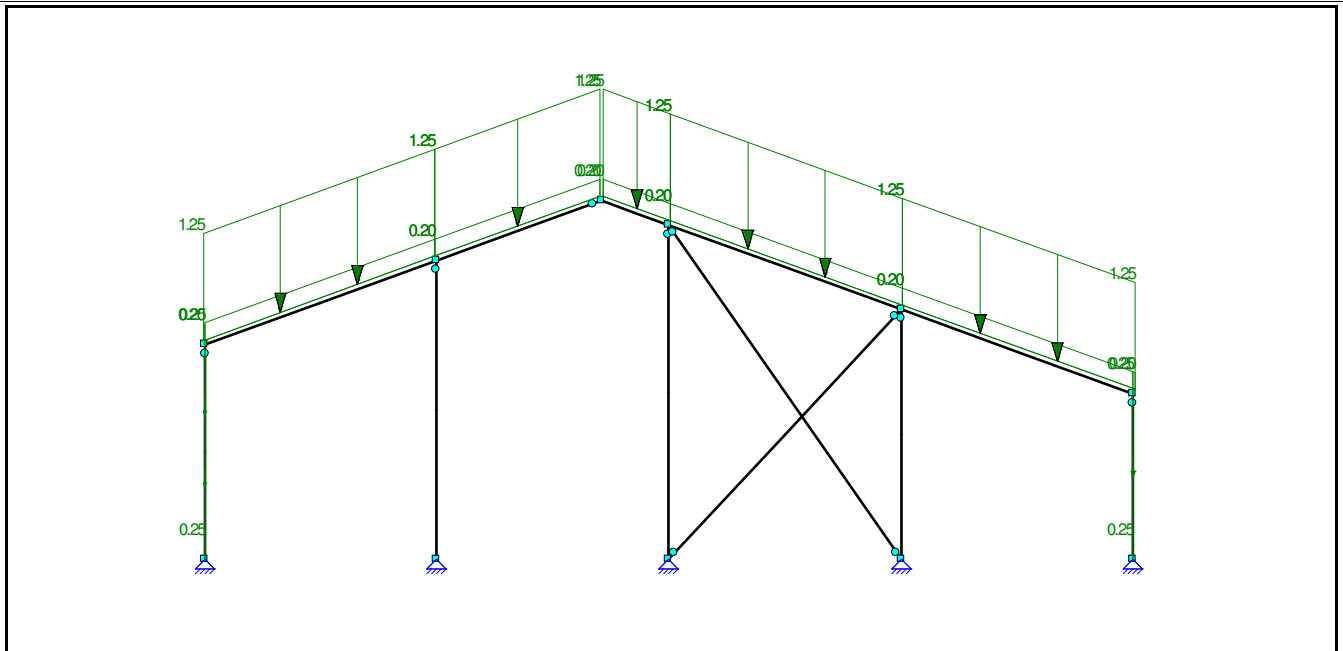
| Oplegg. | Staven                                                                                  | B.G.Type        | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|-----------------------------------------------------------------------------------------|-----------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.12  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.13  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.14  | Windbelasting van Links + Onderdruk (2e corr. factor)                                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.15  | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                          | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.16  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.17  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.18  | Windbelasting van Rechts + Overdruk                                                     | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.19  | Windbelasting van Rechts + Overdruk (2e Cpe)                                            | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.20  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.21  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.22  | Windbelasting van Rechts + Overdruk (2e corr. factor)                                   | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.23  | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.24  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.25  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting   | +            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.26  | Windbelasting van Rechts + Overdruk                                                     | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.27  | Windbelasting van Rechts + Overdruk (2e Cpe)                                            | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.28  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.29  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.30  | Windbelasting van Rechts + Overdruk (2e corr. factor)                                   | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.31  | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.32  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.33  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,91  |
| B.G.34  | Sneeuwbelasting 1                                                                       | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,75  |
| B.G.35  | Sneeuwbelasting 2                                                                       | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,75  |
| B.G.36  | Sneeuwbelasting 3                                                                       | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. | 0.20 |      |      | 0,75  |

#### B.G.1: PERMANENTE BELASTING

| Type                               | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.1: Permanente Belasting</b> |              |              |              |             |                         |
| qG                                 | 0,25 (1.00x) | 0,25 (1.00x) | 0,000        | 4,400(L)    | Z" S1                   |
| qG                                 | 0,25 (1.00x) | 0,25 (1.00x) | 0,000        | 3,400(L)    | Z" S9                   |
| qG                                 | 0,20 (1.00x) | 0,20 (1.00x) | 0,000        | 5,053(L)    | Z" S2                   |
| qG                                 | 0,20 (1.00x) | 0,20 (1.00x) | 0,000        | 3,591(L)    | Z" S4                   |
| q                                  | 1,25 (q1)    | 1,25 (q1)    | 0,000        | 5,053(L)    | Z" S2,S4,S6,S8,S10      |
| qG                                 | 0,20 (1.00x) | 0,20 (1.00x) | 0,000        | 1,463(L)    | Z" S6                   |

| Type                               | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.1: Permanente Belasting</b> |              |              |              |             |                         |
| qG                                 | 0,20 (1.00x) | 0,20 (1.00x) | 0,000        | 5,054(L)    | Z" S8,S10               |
| -                                  | -            | -            | m            | m           | - -                     |

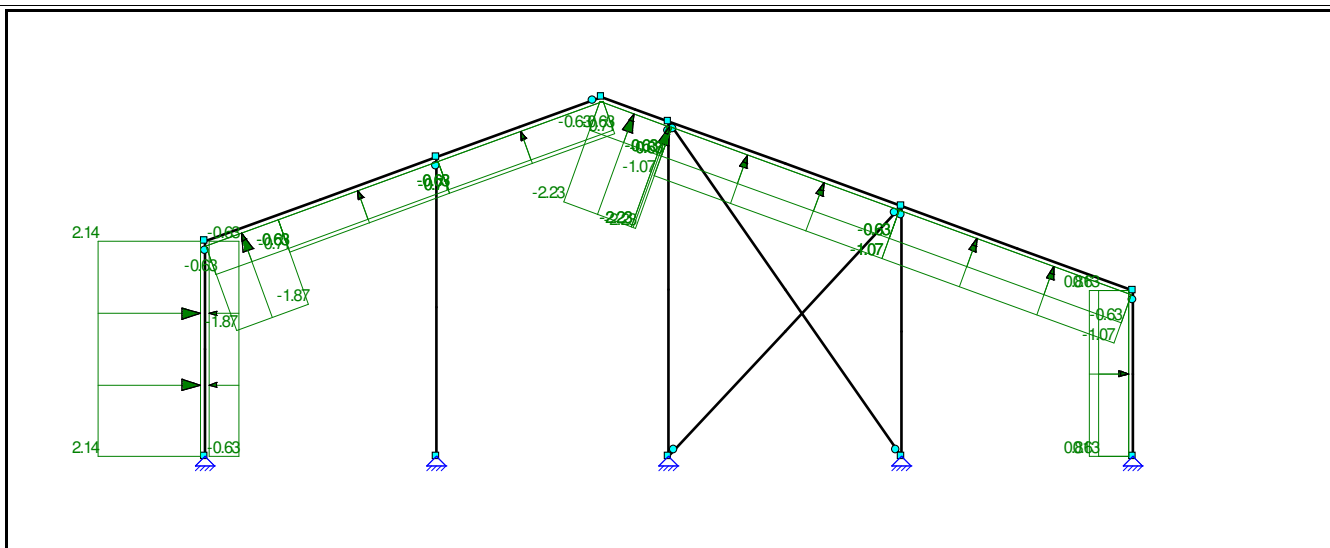
## B.G.1: PERMANENTE BELASTING



## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK

| Type                                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.2: Windbelasting van Links + Overdruk</b> |             |             |              |             |                         |
| q                                                | 2,14 (q4)   | 2,14 (q4)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                | 0,81 (-q11) | 0,81 (-q11) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                | -1,87 (q6)  | -1,87 (q6)  | 0,000        | 1,564       | Z' S2                   |
| q                                                | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                | -0,71 (q7)  | -0,71 (q7)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                | -0,71 (q7)  | -0,71 (q7)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 0,101       | Z' S8                   |
| q                                                | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                | -1,07 (q9)  | -1,07 (q9)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                | -1,07 (q9)  | -1,07 (q9)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                | -           | -           | m            | m           | - -                     |

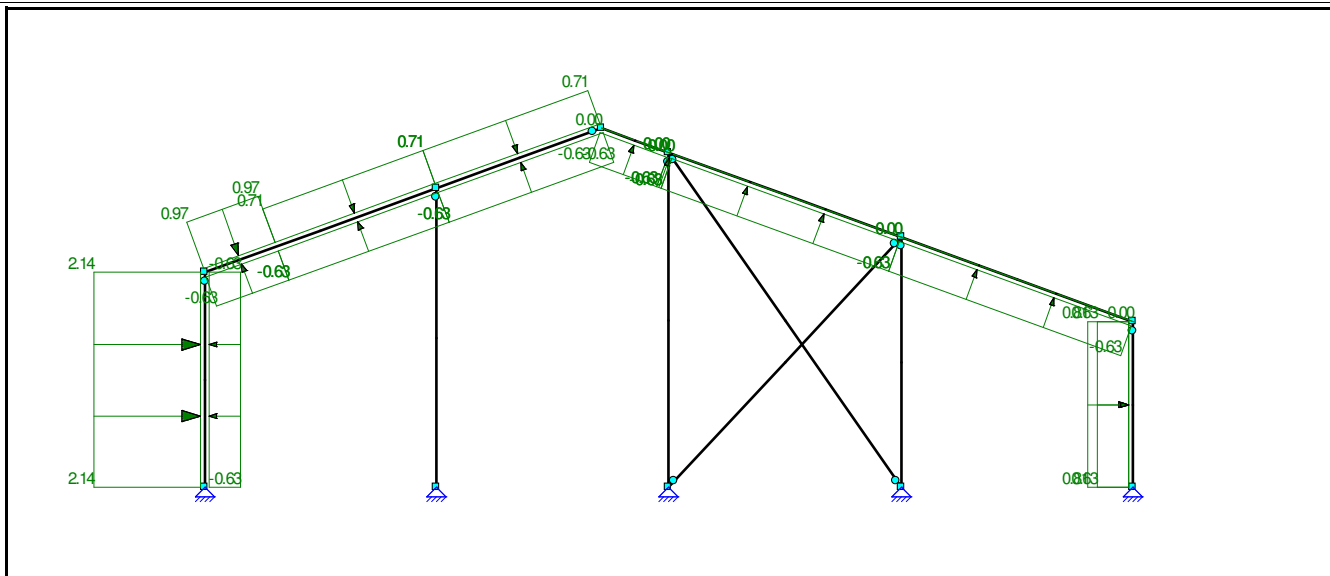
## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK



## B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)

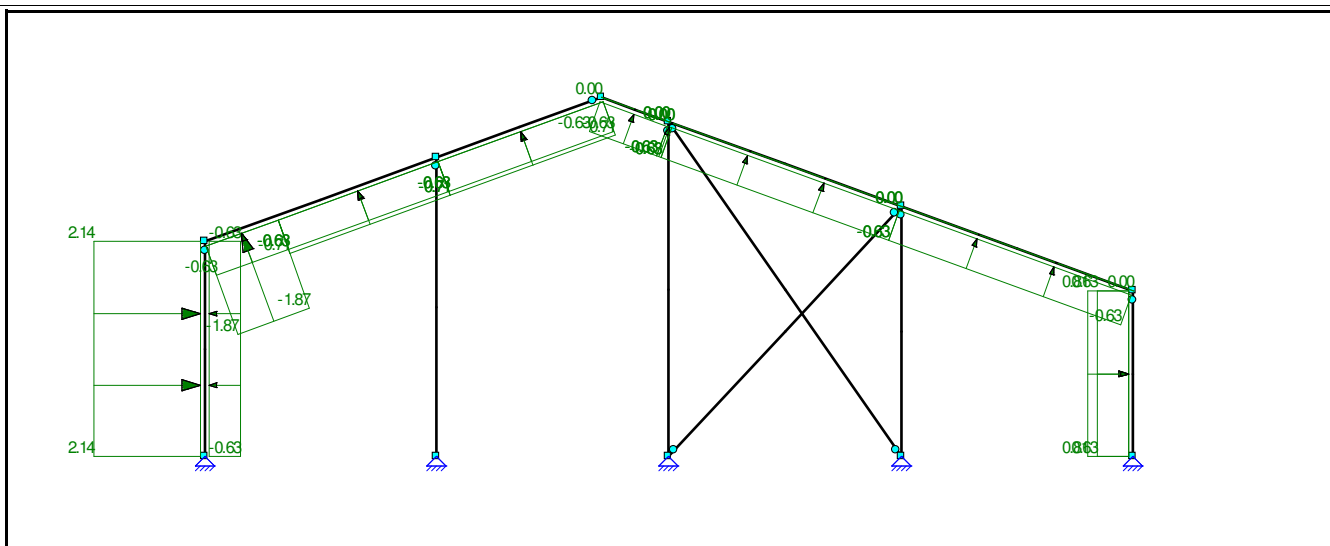
| Type                                                      | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.3: Windbelasting van Links + Overdruk (2e Cpe)</b> |              |              |              |             |                         |
| q                                                         | 2,14 (q13)   | 2,14 (q13)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                         | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                         | 0,81 (-q20)  | 0,81 (-q20)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                         | 0,63 (q12)   | 0,63 (q12)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                         | 0,97 (q15)   | 0,97 (q15)   | 0,000        | 1,564       | Z' S2                   |
| q                                                         | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 1,564       | Z' S2                   |
| q                                                         | 0,71 (q16)   | 0,71 (q16)   | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                         | 0,71 (q16)   | 0,71 (q16)   | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                         | -0,63 (-q12) | -0,63 (-q12) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                         | 0,00 (q17)   | 0,00 (q17)   | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                         | 0,00 (q17)   | 0,00 (q17)   | 0,000        | 0,101       | Z' S8                   |
| q                                                         | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 0,101       | Z' S8                   |
| q                                                         | 0,00 (q18)   | 0,00 (q18)   | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                         | 0,00 (q18)   | 0,00 (q18)   | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                         | -0,63 (-q12) | -0,63 (-q12) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                         | -            | -            | m            | m           | - -                     |

## B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)



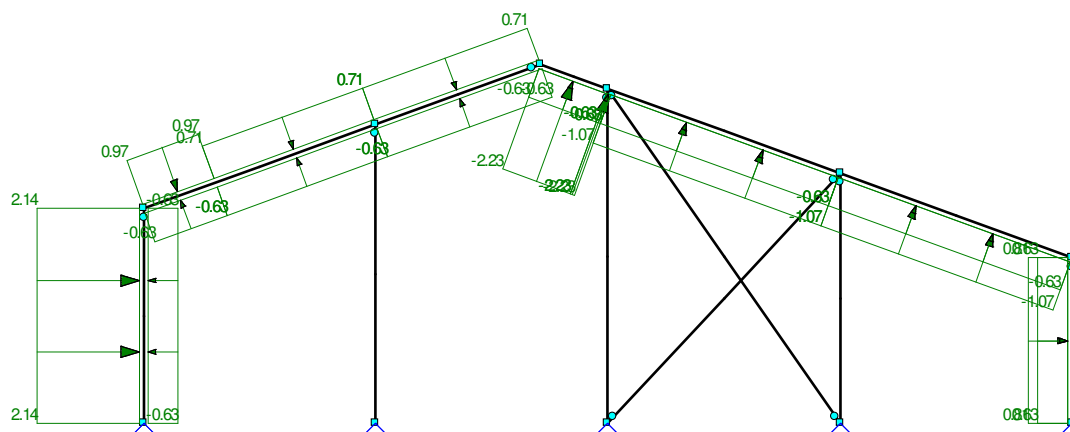
**B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                               | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.4: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |             |             |              |             |                         |
| q                                                                                  | 2,14 (q4)   | 2,14 (q4)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                  | 0,81 (-q11) | 0,81 (-q11) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                  | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                  | -1,87 (q6)  | -1,87 (q6)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | -0,71 (q7)  | -0,71 (q7)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                  | -0,71 (q7)  | -0,71 (q7)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                  | 0,00 (q17)  | 0,00 (q17)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                  | 0,00 (q17)  | 0,00 (q17)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                  | 0,00 (q18)  | 0,00 (q18)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                  | 0,00 (q18)  | 0,00 (q18)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                  | -           | -           | m            | m           | - -                     |

**B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)****B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                               | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.5: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |             |             |              |             |                         |
| q                                                                                  | 2,14 (q4)   | 2,14 (q4)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                  | 0,81 (-q11) | 0,81 (-q11) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                  | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                  | 0,97 (q15)  | 0,97 (q15)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | 0,71 (q16)  | 0,71 (q16)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                  | 0,71 (q16)  | 0,71 (q16)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                  | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                  | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                  | -1,07 (q9)  | -1,07 (q9)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                  | -1,07 (q9)  | -1,07 (q9)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                  | -           | -           | m            | m           | - -                     |

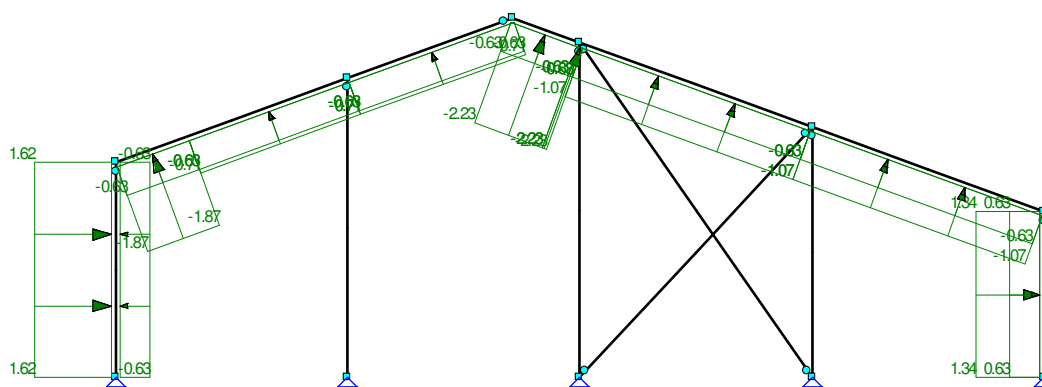
## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



## B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)

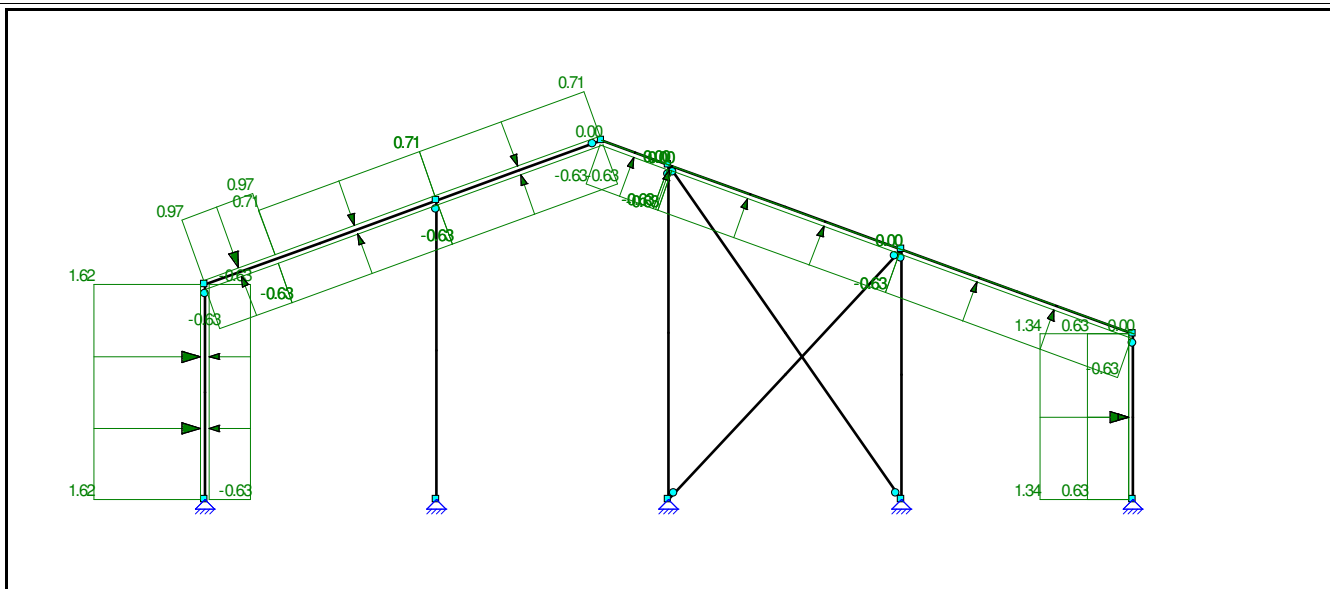
| Type                                                        | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.6: Windbelasting van Links + Overdruk (2e corr. factor) |             |             |              |             |                         |
| q                                                           | 1,62 (q5)   | 1,62 (q5)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                           | 1,34 (-q10) | 1,34 (-q10) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                           | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                           | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                           | -1,87 (q6)  | -1,87 (q6)  | 0,000        | 1,564       | Z' S2                   |
| q                                                           | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                           | -0,71 (q7)  | -0,71 (q7)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                           | -0,71 (q7)  | -0,71 (q7)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                           | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                           | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                           | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 0,101       | Z' S8                   |
| q                                                           | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                           | -1,07 (q9)  | -1,07 (q9)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                           | -1,07 (q9)  | -1,07 (q9)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                           | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                           | -           | -           | m            | m           | - -                     |

## B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



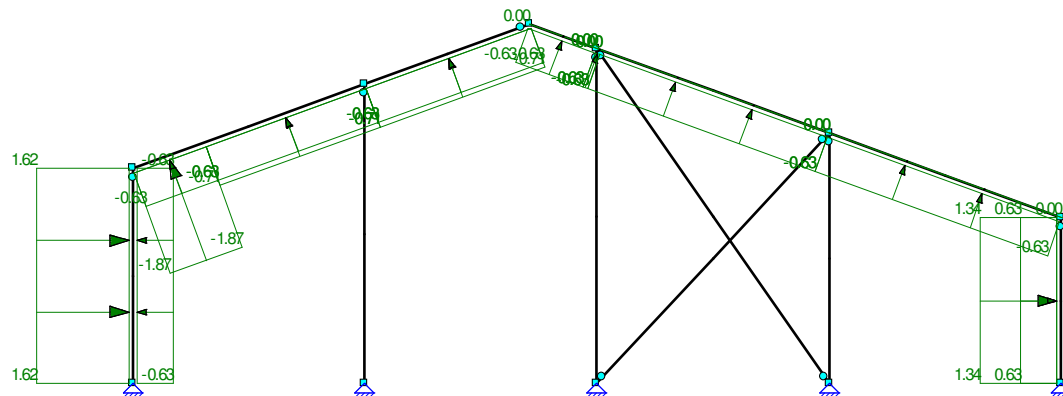
**B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                        | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.7: Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                           | 1,62 (q14)   | 1,62 (q14)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                           | 1,34 (-q19)  | 1,34 (-q19)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                           | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                           | 0,63 (q12)   | 0,63 (q12)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                           | 0,97 (q15)   | 0,97 (q15)   | 0,000        | 1,564       | Z' S2                   |
| q                                                                           | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 1,564       | Z' S2                   |
| q                                                                           | 0,71 (q16)   | 0,71 (q16)   | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                           | 0,71 (q16)   | 0,71 (q16)   | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                           | -0,63 (-q12) | -0,63 (-q12) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                           | 0,00 (q17)   | 0,00 (q17)   | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                           | 0,00 (q17)   | 0,00 (q17)   | 0,000        | 0,101       | Z' S8                   |
| q                                                                           | -0,63 (-q12) | -0,63 (-q12) | 0,000        | 0,101       | Z' S8                   |
| q                                                                           | 0,00 (q18)   | 0,00 (q18)   | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                           | 0,00 (q18)   | 0,00 (q18)   | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                           | -0,63 (-q12) | -0,63 (-q12) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                           | -            | -            | m            | m           | - -                     |

**B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)****B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                 | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.8: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |             |             |              |             |                         |
| q                                                                                                    | 1,62 (q5)   | 1,62 (q5)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                    | 1,34 (-q10) | 1,34 (-q10) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                                    | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                    | -1,87 (q6)  | -1,87 (q6)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                    | -0,71 (q7)  | -0,71 (q7)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                    | -0,71 (q7)  | -0,71 (q7)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                    | 0,00 (q17)  | 0,00 (q17)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                                    | 0,00 (q17)  | 0,00 (q17)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                    | 0,00 (q18)  | 0,00 (q18)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                                    | 0,00 (q18)  | 0,00 (q18)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                                    | -           | -           | m            | m           | - -                     |

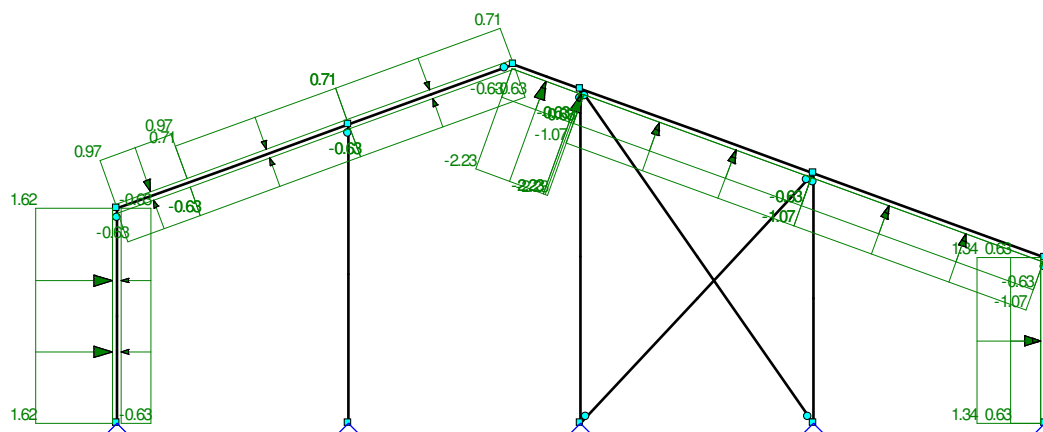
B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



**B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                 | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.9: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |             |             |              |             |                         |
| q                                                                                                    | 1,62 (q5)   | 1,62 (q5)   | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                    | 1,34 (-q10) | 1,34 (-q10) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                                    | 0,63 (q3)   | 0,63 (q3)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                    | 0,97 (q15)  | 0,97 (q15)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                    | 0,71 (q16)  | 0,71 (q16)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                    | 0,71 (q16)  | 0,71 (q16)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                    | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                                    | -2,23 (q8)  | -2,23 (q8)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                    | -1,07 (q9)  | -1,07 (q9)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                                    | -1,07 (q9)  | -1,07 (q9)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                                    | -0,63 (-q3) | -0,63 (-q3) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                                    | -           | -           | m            | m           | - -                     |

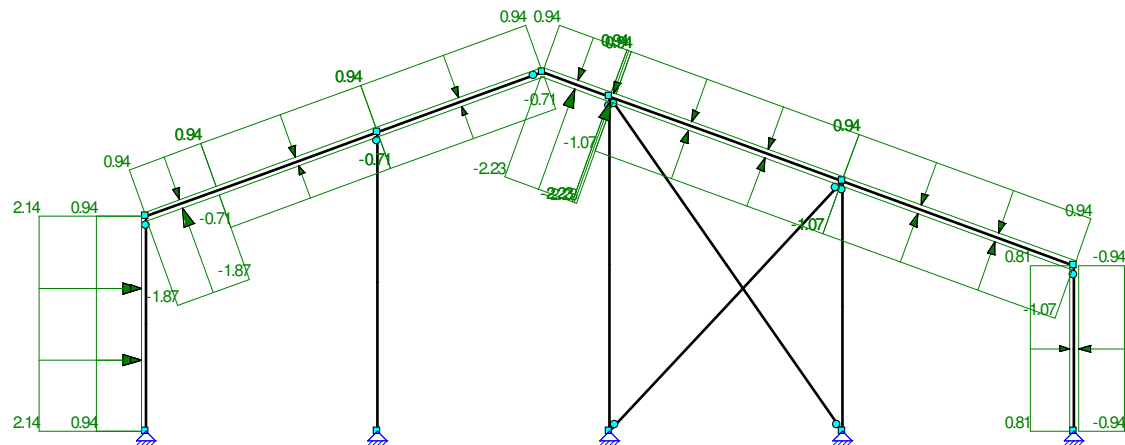
## B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



## B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK

| Type                                               | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.10: Windbelasting van Links + Onderdruk</b> |             |             |              |             |                         |
| q                                                  | 2,14 (q22)  | 2,14 (q22)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                  | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                  | 0,81 (-q29) | 0,81 (-q29) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                  | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                  | -1,87 (q24) | -1,87 (q24) | 0,000        | 1,564       | Z' S2                   |
| q                                                  | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2                   |
| q                                                  | -0,71 (q25) | -0,71 (q25) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                  | -0,71 (q25) | -0,71 (q25) | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                  | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                  | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                  | -2,23 (q26) | -2,23 (q26) | 0,000        | 0,101       | Z' S8                   |
| q                                                  | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8                   |
| q                                                  | -1,07 (q27) | -1,07 (q27) | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                  | -1,07 (q27) | -1,07 (q27) | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                  | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                  | -           | -           | m            | m           | - -                     |

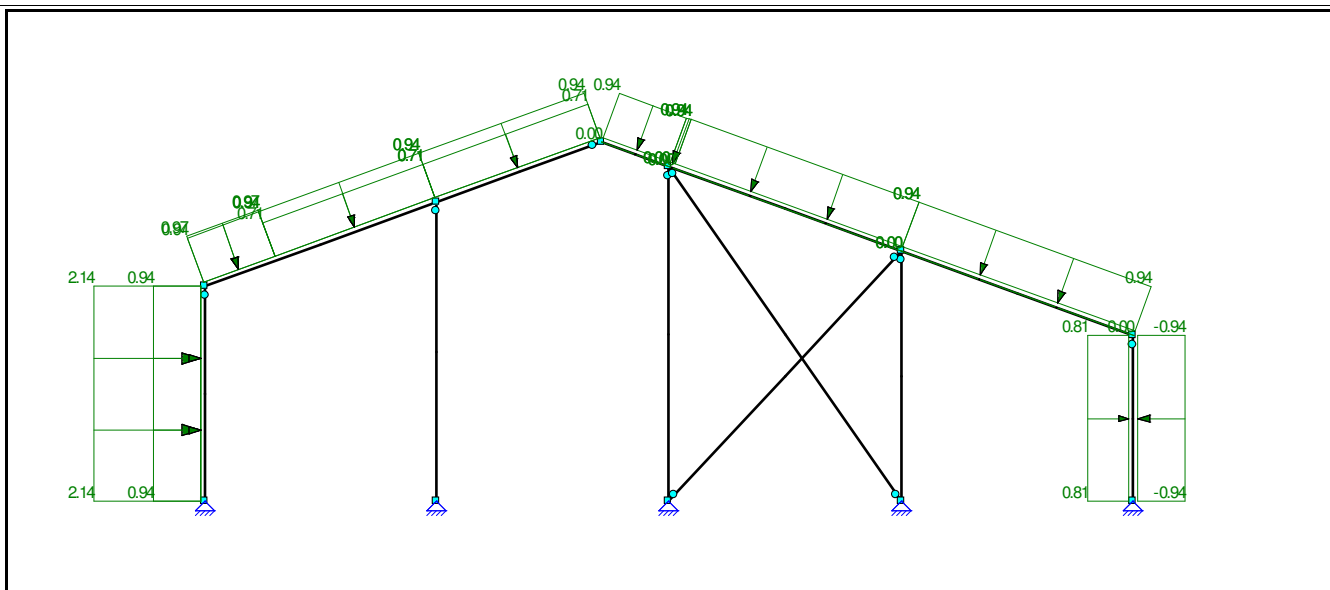
## B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK



## B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)

| Type                                                 | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.11: Windbelasting van Links + Onderdruk (2e Cpe) |             |             |              |             |                         |
| q                                                    | 2,14 (q31)  | 2,14 (q31)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                    | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                    | 0,81 (-q38) | 0,81 (-q38) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                    | -0,94 (q30) | -0,94 (q30) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                    | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,564       | Z' S2                   |
| q                                                    | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 1,564       | Z' S2                   |
| q                                                    | 0,71 (q34)  | 0,71 (q34)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                    | 0,71 (q34)  | 0,71 (q34)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                    | 0,94 (-q30) | 0,94 (-q30) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                    | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                    | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 0,101       | Z' S8                   |
| q                                                    | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 0,101       | Z' S8                   |
| q                                                    | 0,00 (q36)  | 0,00 (q36)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                    | 0,00 (q36)  | 0,00 (q36)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                    | 0,94 (-q30) | 0,94 (-q30) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                    | -           | -           | m            | m           | - -                     |

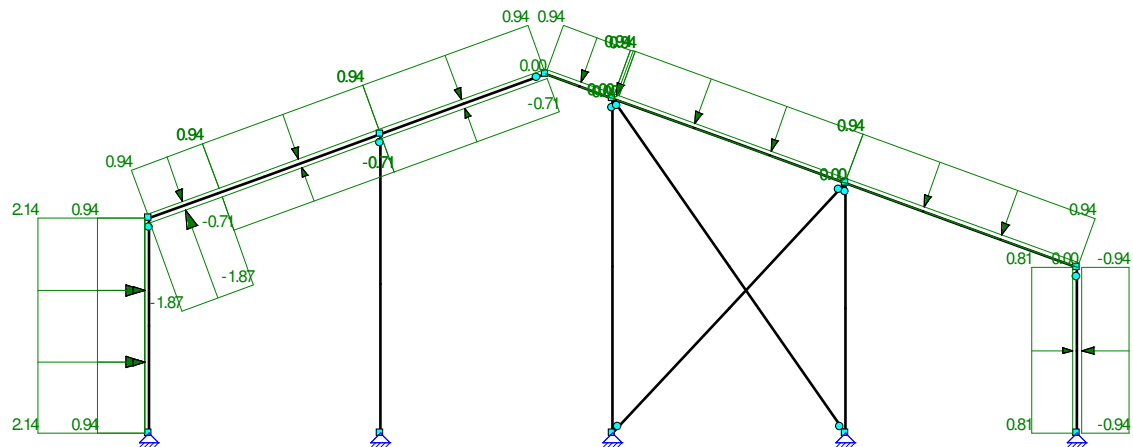
## B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)



## B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)

| Type                                                                          | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.12: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) |             |             |              |             |                         |
| q                                                                             | 2,14 (q22)  | 2,14 (q22)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                             | 0,81 (-q29) | 0,81 (-q29) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | -1,87 (q24) | -1,87 (q24) | 0,000        | 1,564       | Z' S2                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2                   |
| q                                                                             | -0,71 (q25) | -0,71 (q25) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                             | -0,71 (q25) | -0,71 (q25) | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                             | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                             | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8                   |
| q                                                                             | 0,00 (q36)  | 0,00 (q36)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                             | 0,00 (q36)  | 0,00 (q36)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                             | -           | -           | m            | m           | - -                     |

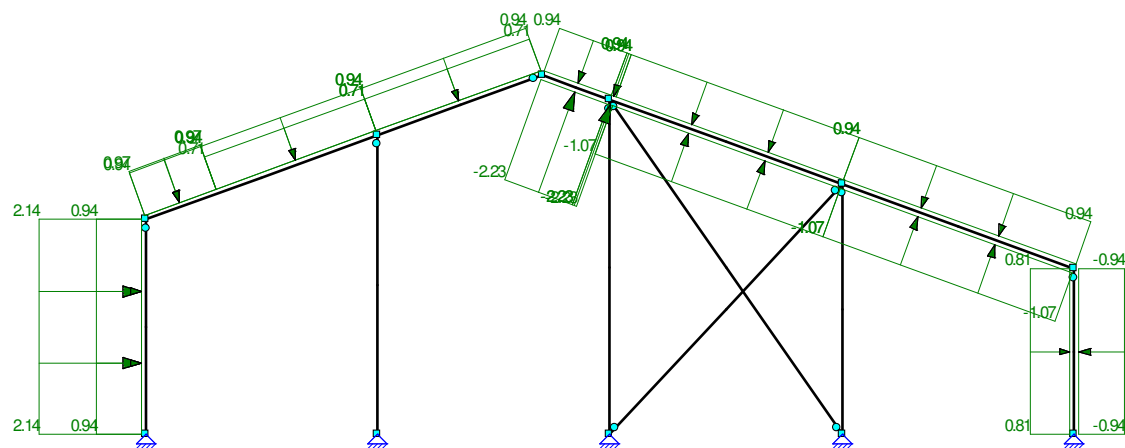
## B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



## B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

| Type                                                                          | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.13: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) |             |             |              |             |                         |
| q                                                                             | 2,14 (q22)  | 2,14 (q22)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                             | 0,81 (-q29) | 0,81 (-q29) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2                   |
| q                                                                             | 0,71 (q34)  | 0,71 (q34)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                             | 0,71 (q34)  | 0,71 (q34)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                             | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                             | -2,23 (q26) | -2,23 (q26) | 0,000        | 0,101       | Z' S8                   |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8                   |
| q                                                                             | -1,07 (q27) | -1,07 (q27) | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                             | -1,07 (q27) | -1,07 (q27) | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                             | -           | -           | m            | m           | - -                     |

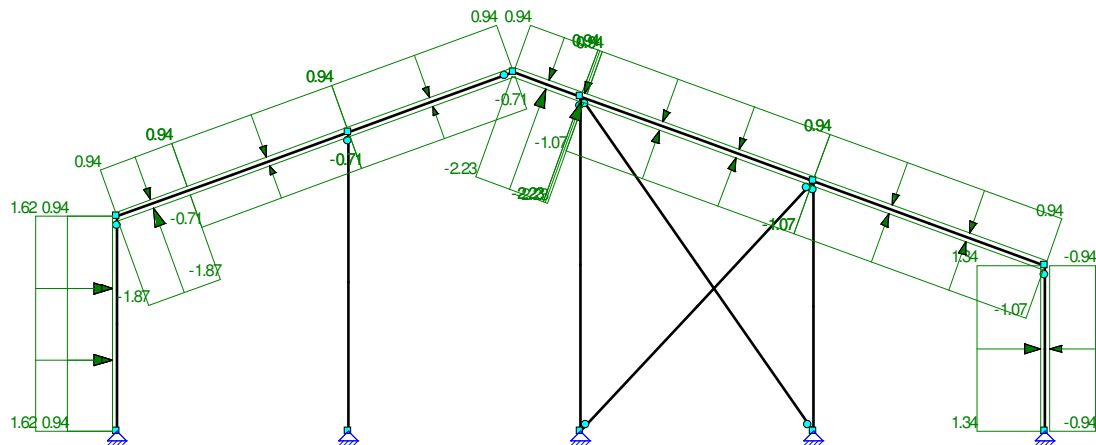
B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)

| Type                                                          | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting        | Staat of knoop |
|---------------------------------------------------------------|-------------|-------------|--------------|-------------|-----------------|----------------|
| B.G.14: Windbelasting van Links + Onderdruk (2e corr. factor) |             |             |              |             |                 |                |
| q                                                             | 1,62 (q23)  | 1,62 (q23)  | 0,000        | 4,400(L)    | Z' S1           |                |
| q                                                             | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,400(L)    | Z' S9           |                |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10 |                |
| q                                                             | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9           |                |
| q                                                             | -1,87 (q24) | -1,87 (q24) | 0,000        | 1,564       | Z' S2           |                |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2           |                |
| q                                                             | -0,71 (q25) | -0,71 (q25) | 1,564        | 5,053(L)    | Z' S2           |                |
| q                                                             | -0,71 (q25) | -0,71 (q25) | 0,000        | 3,591(L)    | Z' S4           |                |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2           |                |
| q                                                             | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,463(L)    | Z' S6           |                |
| q                                                             | -2,23 (q26) | -2,23 (q26) | 0,000        | 0,101       | Z' S8           |                |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8           |                |
| q                                                             | -1,07 (q27) | -1,07 (q27) | 0,101        | 5,054(L)    | Z' S8           |                |
| q                                                             | -1,07 (q27) | -1,07 (q27) | 0,000        | 5,054(L)    | Z' S10          |                |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8           |                |
| -                                                             | -           | -           | m            | m           | - -             |                |

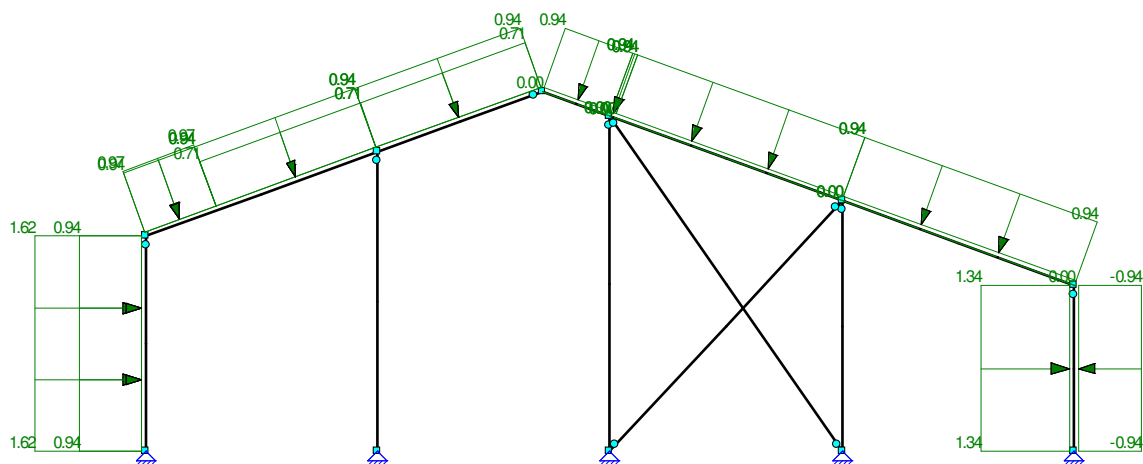
B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)



B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)

| Type                                                                   | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.15: Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor) |             |             |              |             |                         |
| q                                                                      | 1,62 (q32)  | 1,62 (q32)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                      | 1,34 (-q37) | 1,34 (-q37) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                      | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                      | -0,94 (q30) | -0,94 (q30) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                      | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                      | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 1,564       | Z' S2                   |
| q                                                                      | 0,71 (q34)  | 0,71 (q34)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                      | 0,71 (q34)  | 0,71 (q34)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                      | 0,94 (-q30) | 0,94 (-q30) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                      | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                      | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                      | 0,94 (-q30) | 0,94 (-q30) | 0,000        | 0,101       | Z' S8                   |
| q                                                                      | 0,00 (q36)  | 0,00 (q36)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                      | 0,00 (q36)  | 0,00 (q36)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                      | 0,94 (-q30) | 0,94 (-q30) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                      | -           | -           | m            | m           | - -                     |

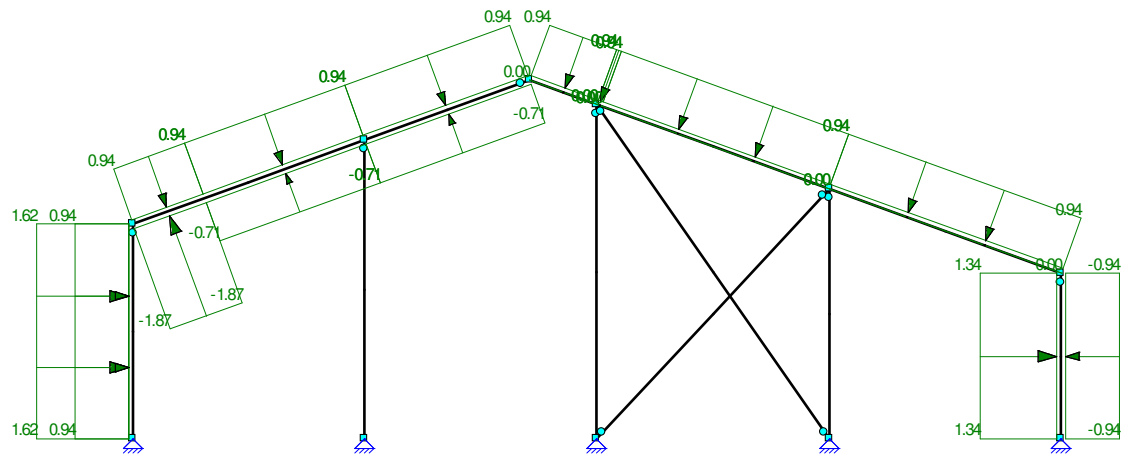
B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

| Type                                                                                            | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.16: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |             |             |              |             |                         |
| q                                                                                               | 1,62 (q23)  | 1,62 (q23)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                               | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                               | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                               | -1,87 (q24) | -1,87 (q24) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                               | -0,71 (q25) | -0,71 (q25) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                               | -0,71 (q25) | -0,71 (q25) | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                               | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                               | 0,00 (q35)  | 0,00 (q35)  | 0,000        | 0,101       | Z' S8                   |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                               | 0,00 (q36)  | 0,00 (q36)  | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                               | 0,00 (q36)  | 0,00 (q36)  | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                               | -           | -           | m            | m           | - -                     |

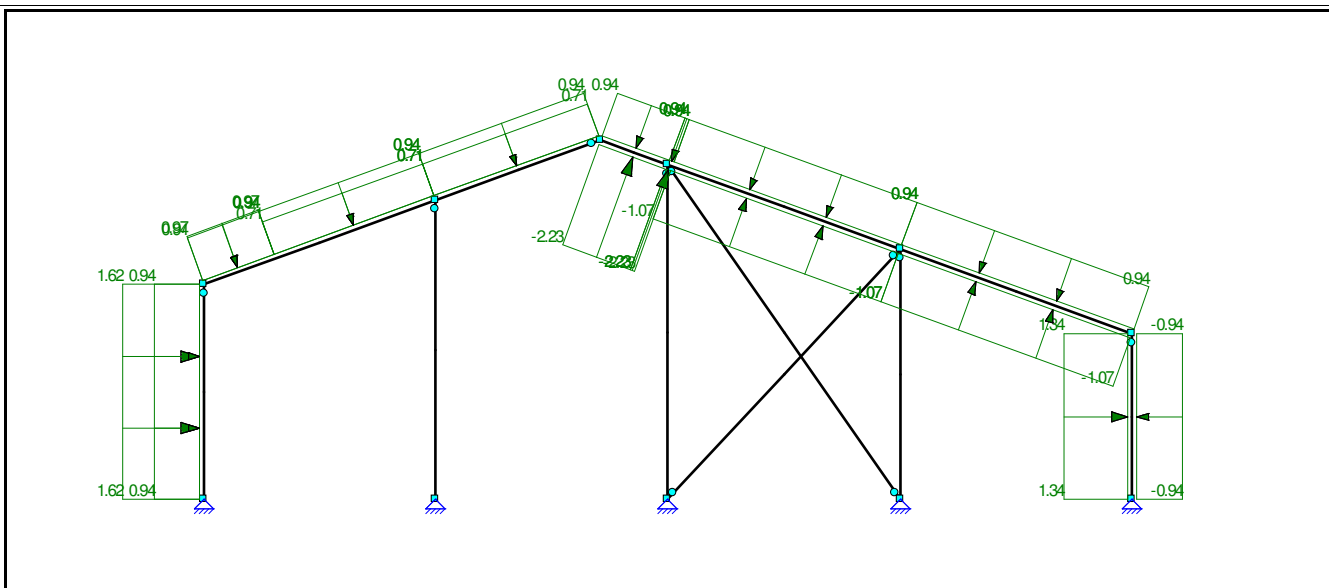
B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



**B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.17: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |             |             |              |             |                         |
| q                                                                                                      | 1,62 (q23)  | 1,62 (q23)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                      | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                      | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 4,400(L)    | Z' S1,S4,S6,S10         |
| q                                                                                                      | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                      | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                      | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                      | 0,71 (q34)  | 0,71 (q34)  | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                      | 0,71 (q34)  | 0,71 (q34)  | 0,000        | 3,591(L)    | Z' S4                   |
| q                                                                                                      | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 5,053(L)    | Z' S2                   |
| q                                                                                                      | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,463(L)    | Z' S6                   |
| q                                                                                                      | -2,23 (q26) | -2,23 (q26) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                      | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,101       | Z' S8                   |
| q                                                                                                      | -1,07 (q27) | -1,07 (q27) | 0,101        | 5,054(L)    | Z' S8                   |
| q                                                                                                      | -1,07 (q27) | -1,07 (q27) | 0,000        | 5,054(L)    | Z' S10                  |
| q                                                                                                      | 0,94 (-q21) | 0,94 (-q21) | 0,101        | 5,054(L)    | Z' S8                   |
| -                                                                                                      | -           | -           | m            | m           | - -                     |

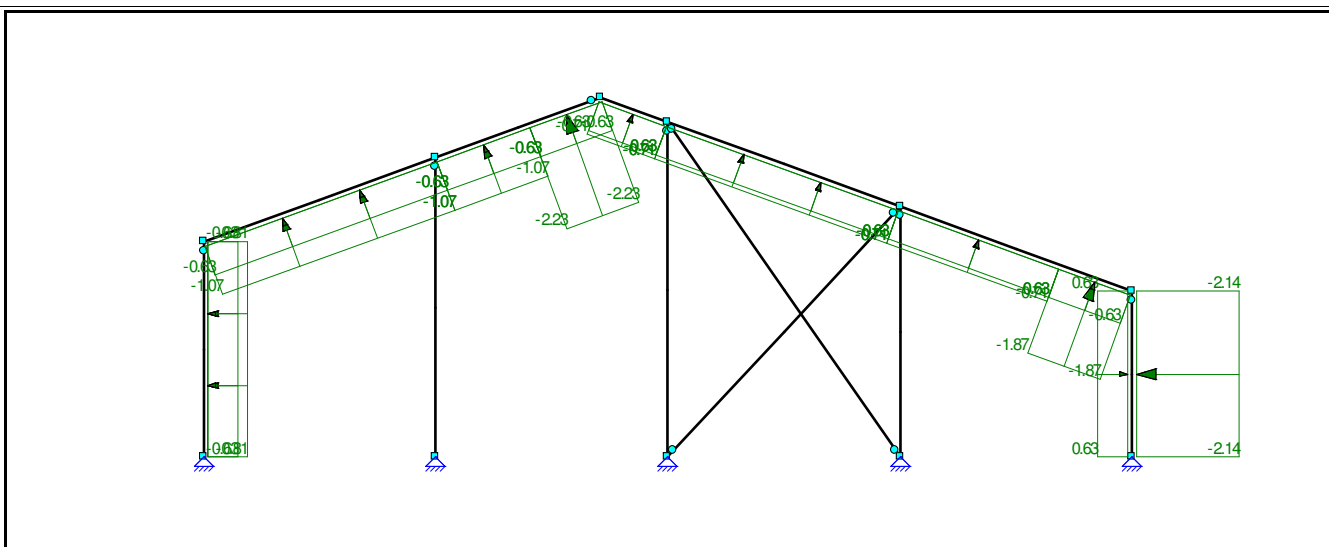
B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK

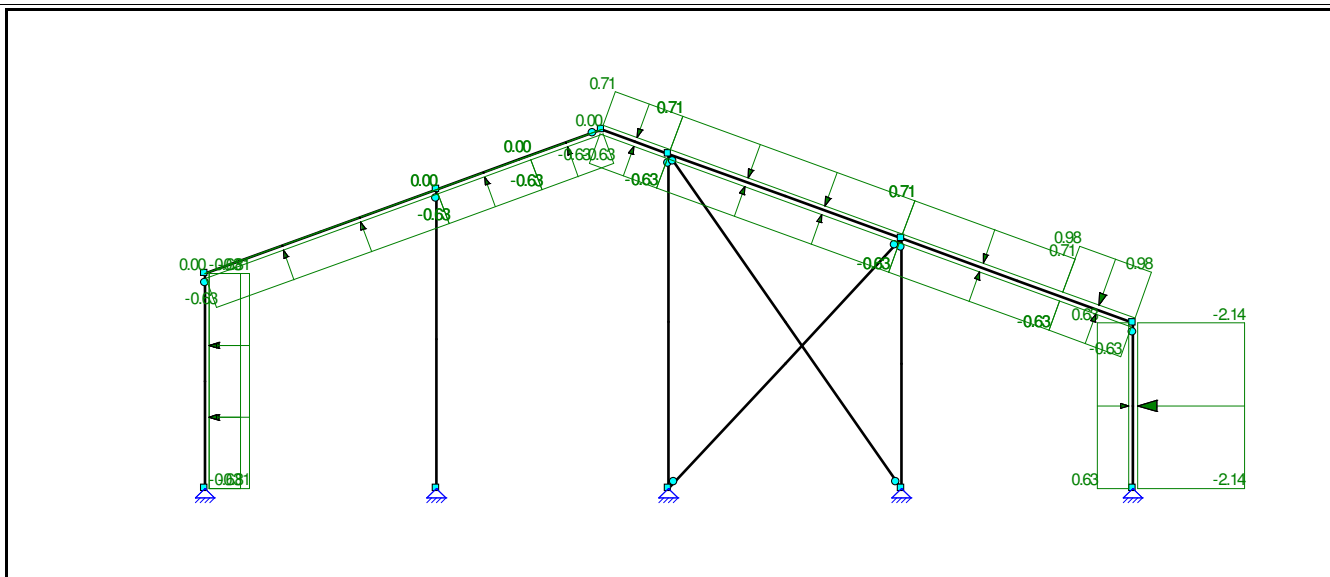
| Type                                        | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.18: Windbelasting van Rechts + Overdruk |              |              |              |             |                         |
| q                                           | -0,81 (q41)  | -0,81 (q41)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                           | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                           | -2,14 (-q47) | -2,14 (-q47) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                           | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                           | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                           | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 2,027       | Z' S4                   |
| q                                           | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                           | -2,23 (q44)  | -2,23 (q44)  | 2,027        | 3,591       | Z' S4                   |
| q                                           | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                           | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                           | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 3,489       | Z' S10                  |
| q                                           | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                           | -1,87 (q46)  | -1,87 (q46)  | 3,489        | 5,054       | Z' S10                  |
| q                                           | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                           | -            | -            | m            | m           | - -                     |

B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK



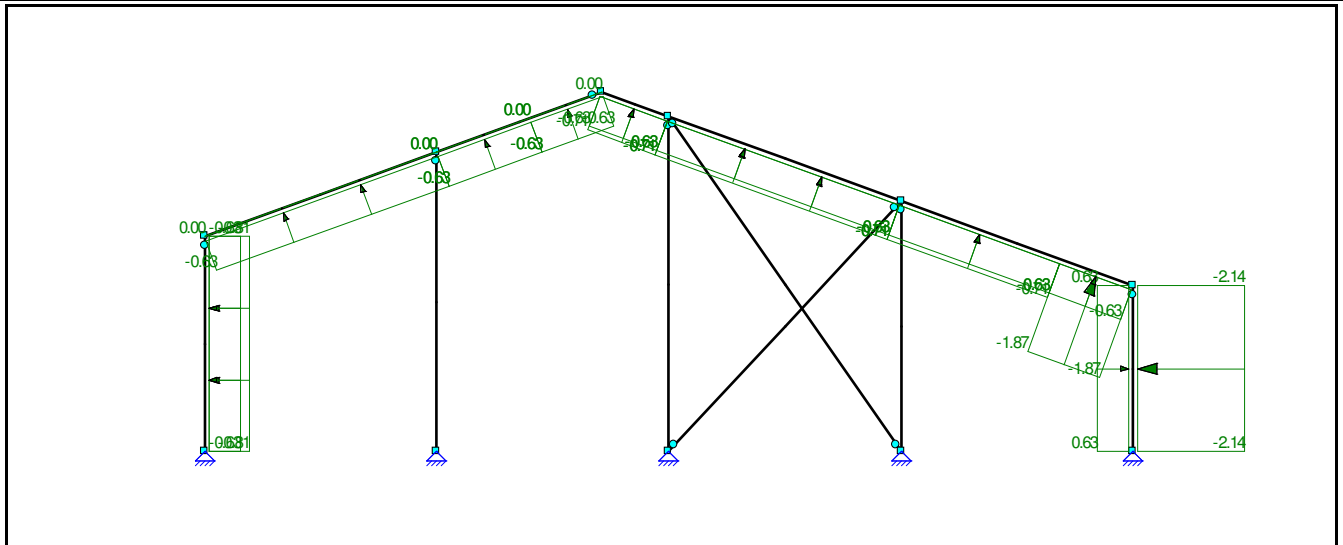
**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)**

| Type                                                        | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.19: Windbelasting van Rechts + Overdruk (2e Cpe)</b> |              |              |              |             |                         |
| q                                                           | -0,81 (q50)  | -0,81 (q50)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                           | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                           | -2,14 (-q56) | -2,14 (-q56) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                           | 0,63 (q48)   | 0,63 (q48)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                           | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                           | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 2,027       | Z' S4                   |
| q                                                           | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 2,027       | Z' S4                   |
| q                                                           | 0,00 (q53)   | 0,00 (q53)   | 2,027        | 3,591       | Z' S4                   |
| q                                                           | -0,63 (-q48) | -0,63 (-q48) | 2,027        | 3,591       | Z' S4                   |
| q                                                           | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                           | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 3,489       | Z' S10                  |
| q                                                           | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 3,489       | Z' S10                  |
| q                                                           | 0,98 (q55)   | 0,98 (q55)   | 3,489        | 5,054       | Z' S10                  |
| q                                                           | -0,63 (-q48) | -0,63 (-q48) | 3,489        | 5,054       | Z' S10                  |
| -                                                           | -            | -            | m            | m           | - -                     |

**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)****B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                 | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.20: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |              |              |              |             |                         |
| q                                                                                    | -0,81 (q41)  | -0,81 (q41)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                    | -2,14 (-q47) | -2,14 (-q47) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                    | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                    | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                    | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                                                                    | 0,00 (q53)   | 0,00 (q53)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                                                                    | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                    | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                                                                    | -1,87 (q46)  | -1,87 (q46)  | 3,489        | 5,054       | Z' S10                  |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                                                                    | -            | -            | m            | m           | - -                     |

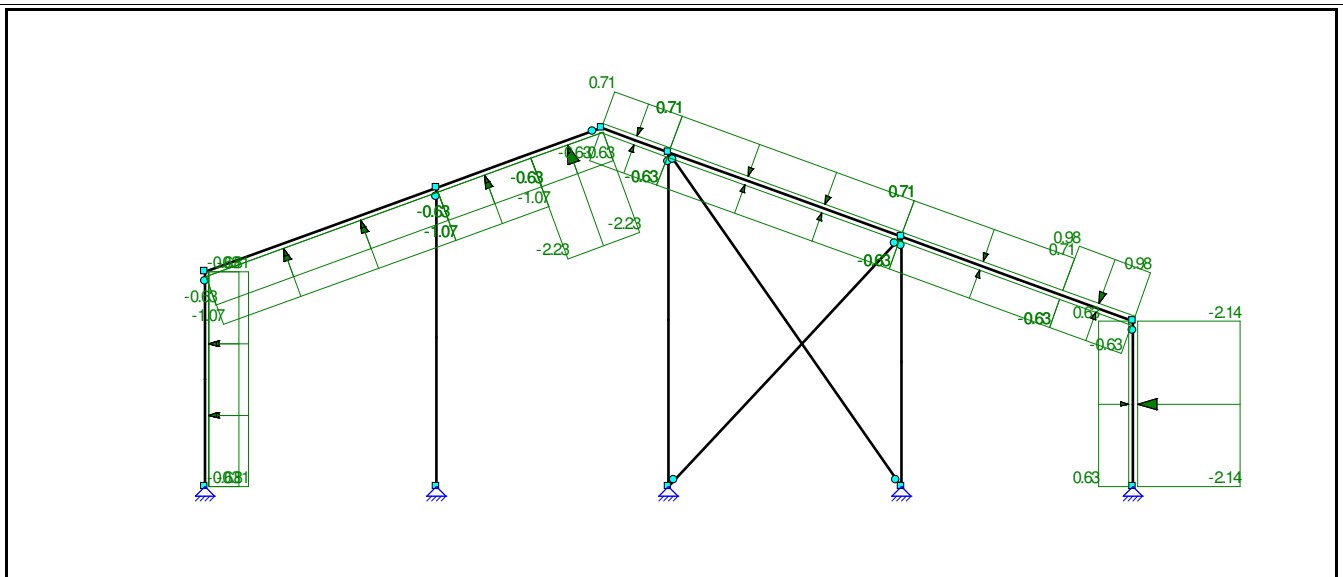
B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

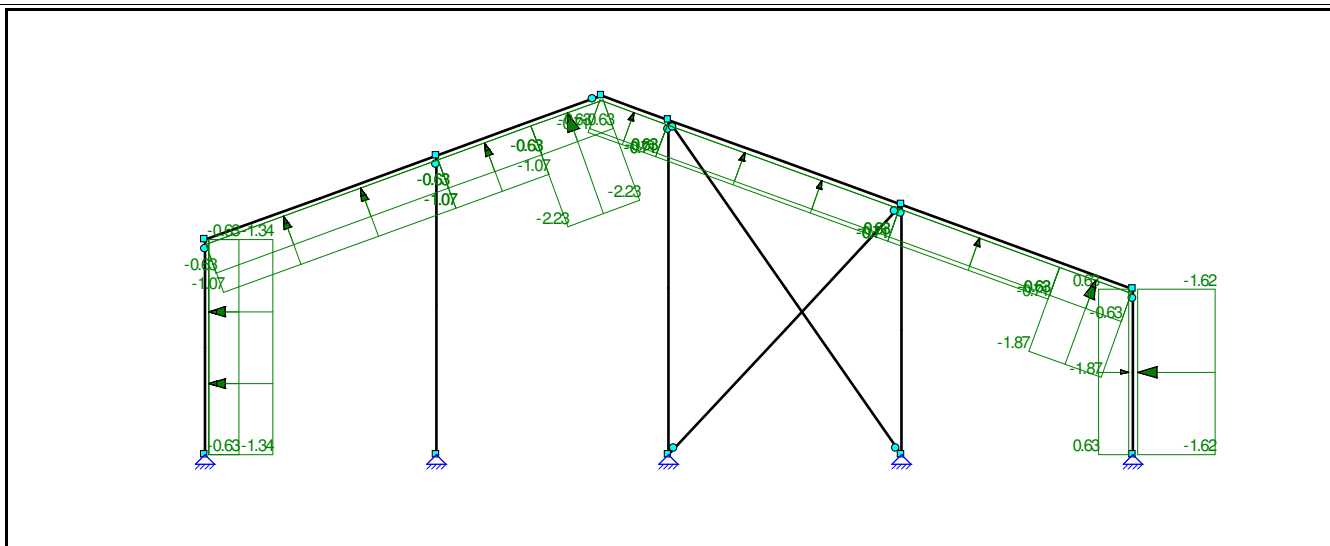
| Type                                                                                 | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.21: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |              |              |              |             |                         |
| q                                                                                    | -0,81 (q41)  | -0,81 (q41)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                    | -2,14 (-q47) | -2,14 (-q47) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                    | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                    | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                    | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                                                                    | -2,23 (q44)  | -2,23 (q44)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                                                                    | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                    | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                                                                    | 0,98 (q55)   | 0,98 (q55)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                                    | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                                                                    | -            | -            | m            | m           | - -                     |

B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



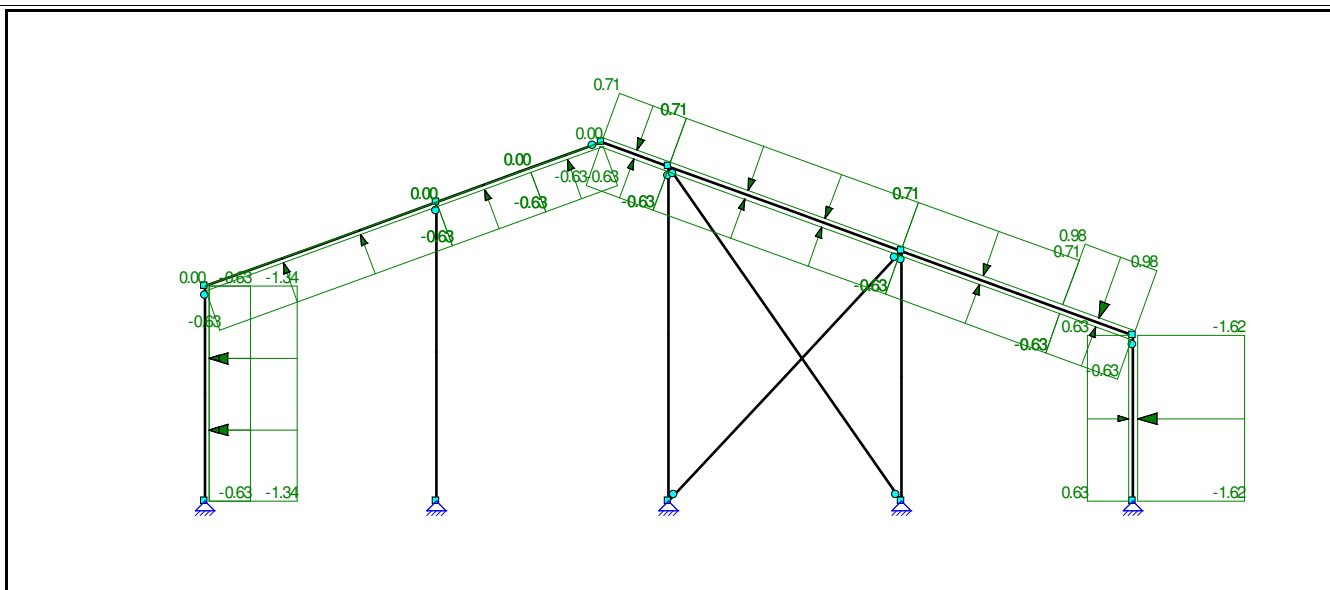
**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)**

| Type                                                                 | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.22: Windbelasting van Rechts + Overdruk (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                    | -1,34 (q40)  | -1,34 (q40)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                    | -1,62 (-q42) | -1,62 (-q42) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                    | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                    | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                    | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                                                    | -2,23 (q44)  | -2,23 (q44)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                    | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                                                    | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                    | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                    | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                                                    | -1,87 (q46)  | -1,87 (q46)  | 3,489        | 5,054       | Z' S10                  |
| q                                                                    | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                                                    | -            | -            | m            | m           | - -                     |

**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)****B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                          | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.23: Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                             | -1,34 (q49)  | -1,34 (q49)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                             | -1,62 (-q51) | -1,62 (-q51) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                             | 0,63 (q48)   | 0,63 (q48)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                             | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                             | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                             | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 2,027       | Z' S4                   |
| q                                                                             | 0,00 (q53)   | 0,00 (q53)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                             | -0,63 (-q48) | -0,63 (-q48) | 2,027        | 3,591       | Z' S4                   |
| q                                                                             | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                             | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                             | -0,63 (-q48) | -0,63 (-q48) | 0,000        | 3,489       | Z' S10                  |
| q                                                                             | 0,98 (q55)   | 0,98 (q55)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                             | -0,63 (-q48) | -0,63 (-q48) | 3,489        | 5,054       | Z' S10                  |
| -                                                                             | -            | -            | m            | m           | - -                     |

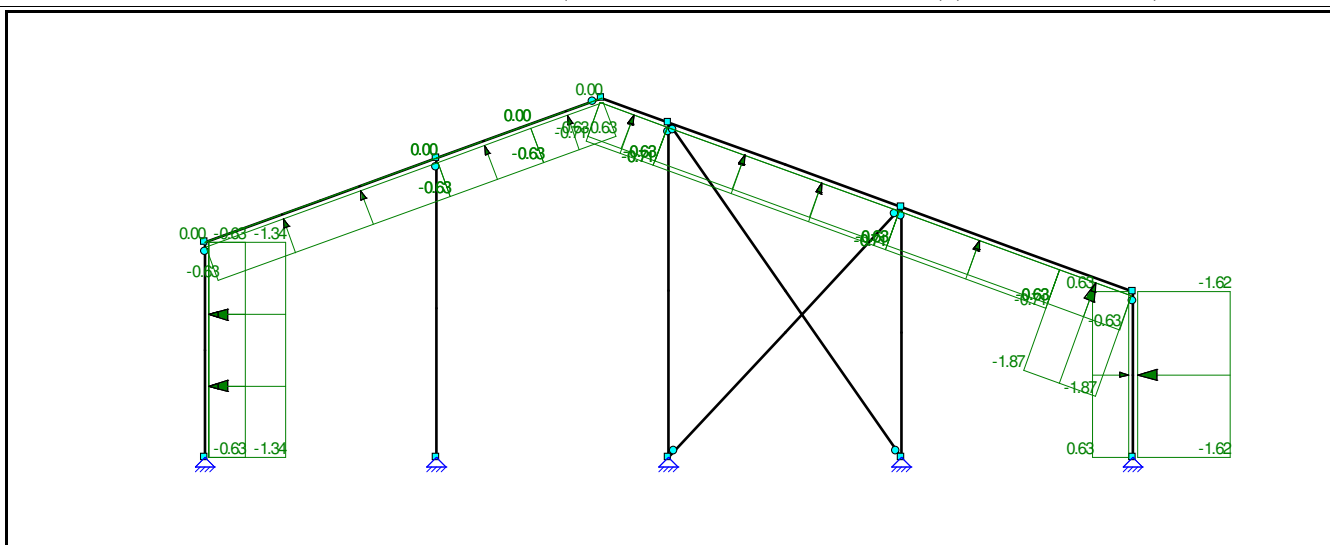
B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

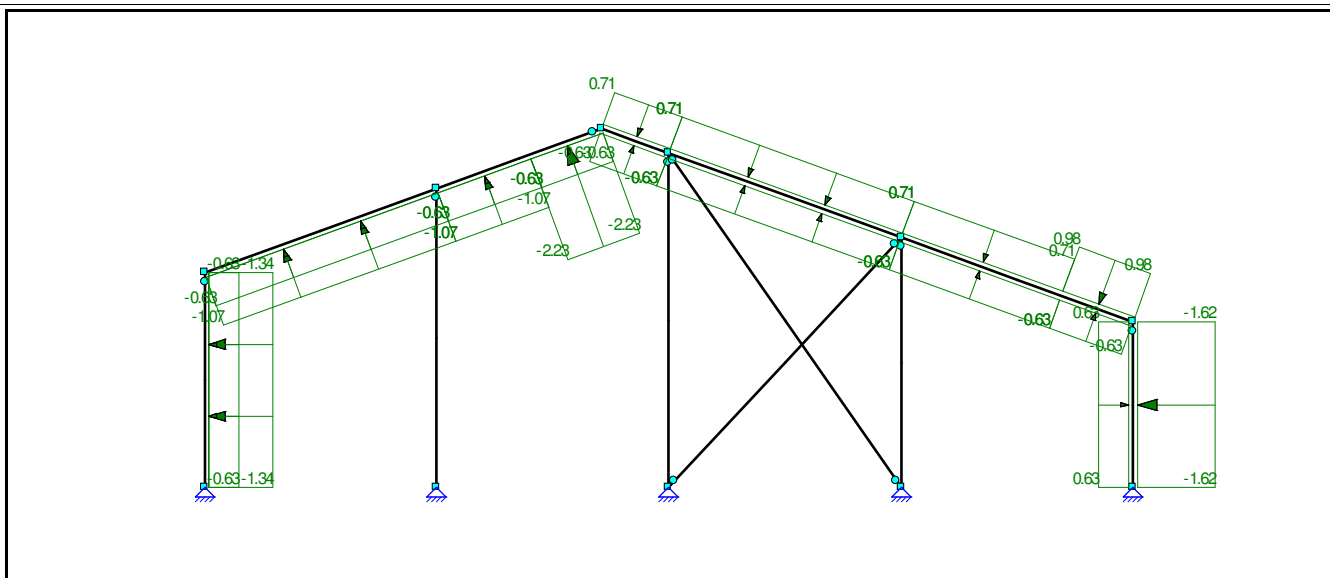
| Type                                                                                            | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.24: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |              |              |              |             |                         |
| q                                                                                               | -1,34 (q40)  | -1,34 (q40)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                               | -1,62 (-q42) | -1,62 (-q42) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                               | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                                                                               | 0,00 (q53)   | 0,00 (q53)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                                                                               | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                               | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                                                                               | -1,87 (q46)  | -1,87 (q46)  | 3,489        | 5,054       | Z' S10                  |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                                                                               | -            | -            | m            | m           | - -                     |

B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



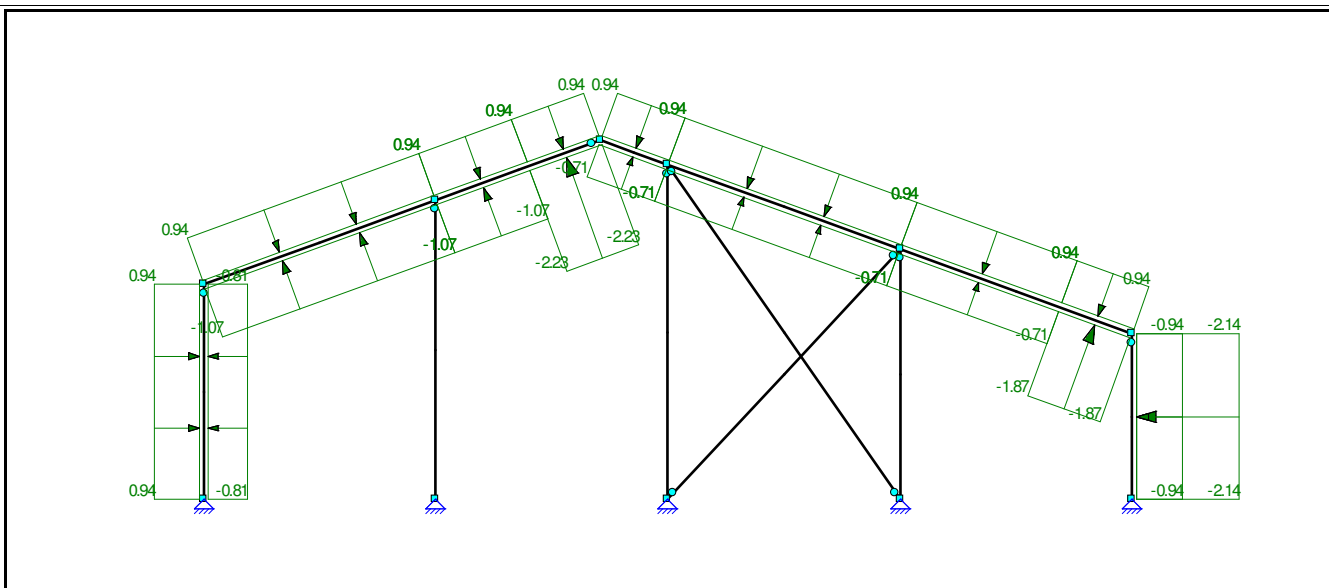
**B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.25: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                                                      | -1,34 (q40)  | -1,34 (q40)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                      | -1,62 (-q42) | -1,62 (-q42) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                      | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                                      | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                      | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                                      | -1,07 (q43)  | -1,07 (q43)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                      | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                      | -2,23 (q44)  | -2,23 (q44)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                      | -0,63 (-q39) | -0,63 (-q39) | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                      | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                                      | 0,71 (q54)   | 0,71 (q54)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                      | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                      | 0,98 (q55)   | 0,98 (q55)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                                                      | -0,63 (-q39) | -0,63 (-q39) | 3,489        | 5,054       | Z' S10                  |
| -                                                                                                      | -            | -            | m            | m           | - -                     |

**B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)****B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK**

| Type                                                | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.26: Windbelasting van Rechts + Onderdruk</b> |              |              |              |             |                         |
| q                                                   | -0,81 (q59)  | -0,81 (q59)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                   | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                   | -2,14 (-q65) | -2,14 (-q65) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                   | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                   | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                   | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 2,027       | Z' S4                   |
| q                                                   | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                   | -2,23 (q62)  | -2,23 (q62)  | 2,027        | 3,591       | Z' S4                   |
| q                                                   | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                   | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                   | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 3,489       | Z' S10                  |
| q                                                   | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                   | -1,87 (q64)  | -1,87 (q64)  | 3,489        | 5,054       | Z' S10                  |
| q                                                   | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                   | -            | -            | m            | m           | - -                     |

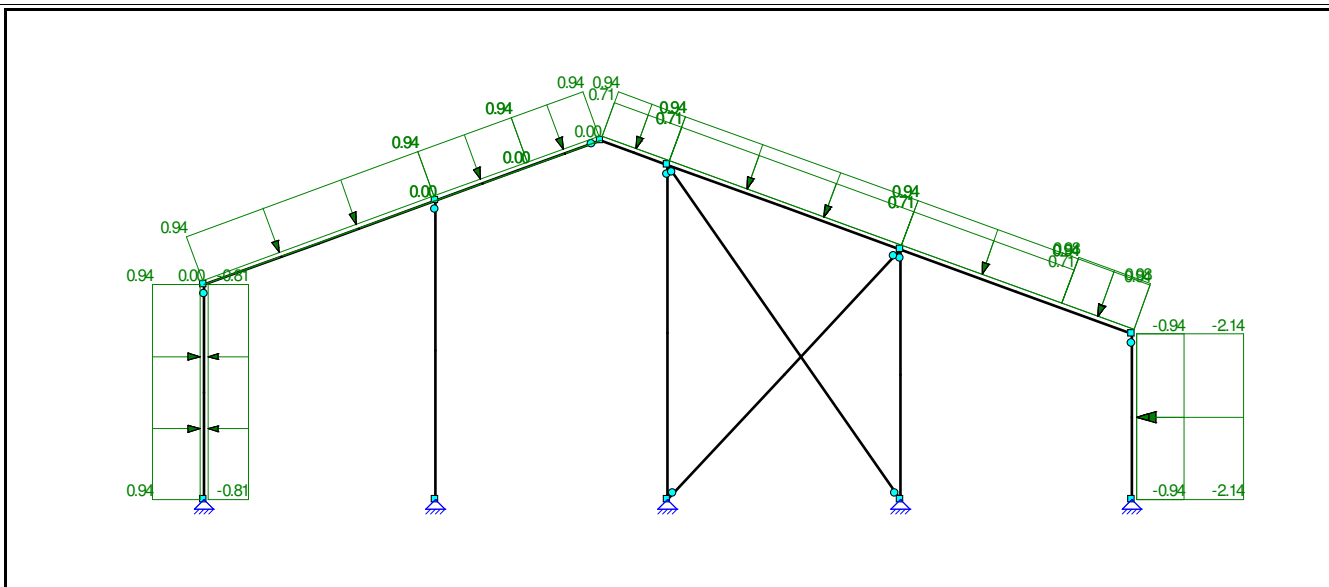
B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK



B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)

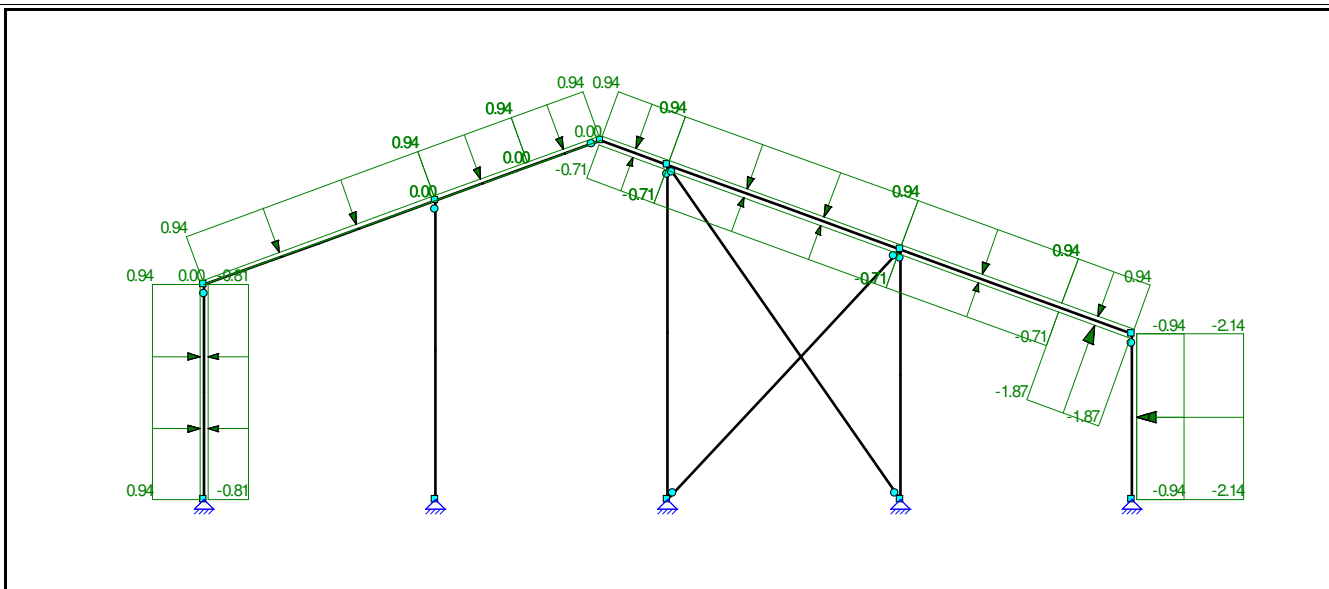
| Type                                                  | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.27: Windbelasting van Rechts + Onderdruk (2e Cpe) |              |              |              |             |                         |
| q                                                     | -0,81 (q68)  | -0,81 (q68)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                     | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                     | -2,14 (-q74) | -2,14 (-q74) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                     | -0,94 (q66)  | -0,94 (q66)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                     | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                     | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 2,027       | Z' S4                   |
| q                                                     | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 2,027       | Z' S4                   |
| q                                                     | 0,00 (q71)   | 0,00 (q71)   | 2,027        | 3,591       | Z' S4                   |
| q                                                     | 0,94 (-q66)  | 0,94 (-q66)  | 2,027        | 3,591       | Z' S4                   |
| q                                                     | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                     | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 3,489       | Z' S10                  |
| q                                                     | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 3,489       | Z' S10                  |
| q                                                     | 0,98 (q73)   | 0,98 (q73)   | 3,489        | 5,054       | Z' S10                  |
| q                                                     | 0,94 (-q66)  | 0,94 (-q66)  | 3,489        | 5,054       | Z' S10                  |
| -                                                     | -            | -            | m            | m           | - -                     |

B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)



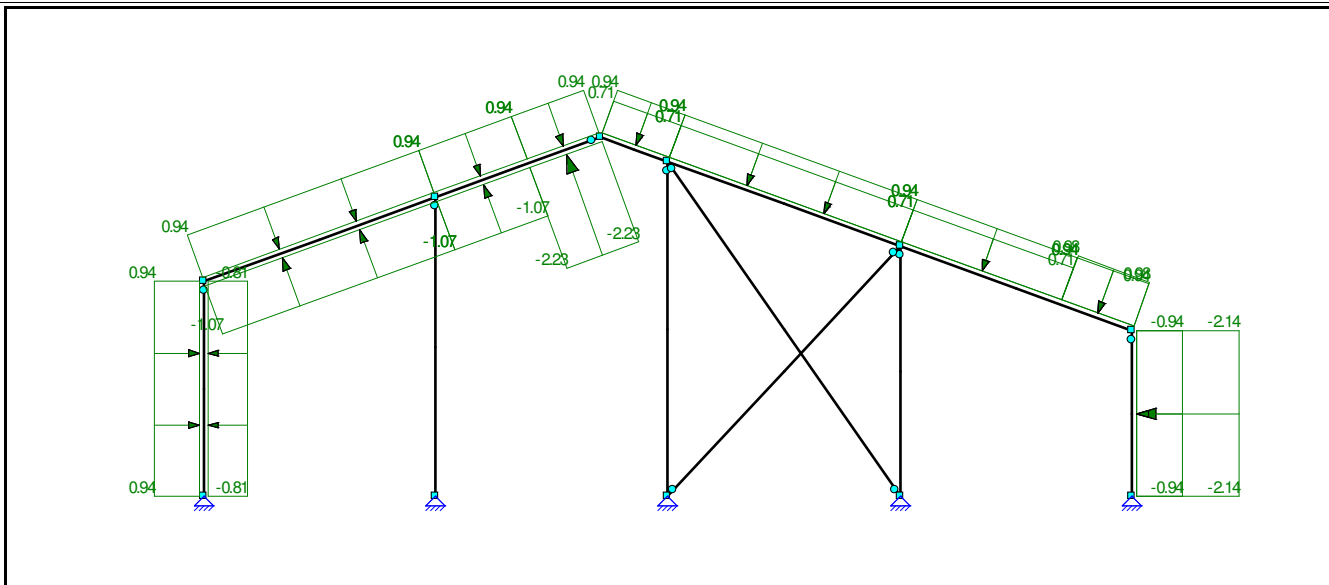
**B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                  | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.28: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |              |              |              |             |                         |
| q                                                                                     | -0,81 (q59)  | -0,81 (q59)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                     | -2,14 (-q65) | -2,14 (-q65) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                     | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                     | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                     | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                     | 0,00 (q71)   | 0,00 (q71)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                     | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                     | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                     | -1,87 (q64)  | -1,87 (q64)  | 3,489        | 5,054       | Z' S10                  |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                                                     | -            | -            | m            | m           | - -                     |

**B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)****B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                  | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.29: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |              |              |              |             |                         |
| q                                                                                     | -0,81 (q59)  | -0,81 (q59)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                     | -2,14 (-q65) | -2,14 (-q65) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                     | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                     | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                     | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                     | -2,23 (q62)  | -2,23 (q62)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                     | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                     | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                     | 0,98 (q73)   | 0,98 (q73)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                                     | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                                                     | -            | -            | m            | m           | - -                     |

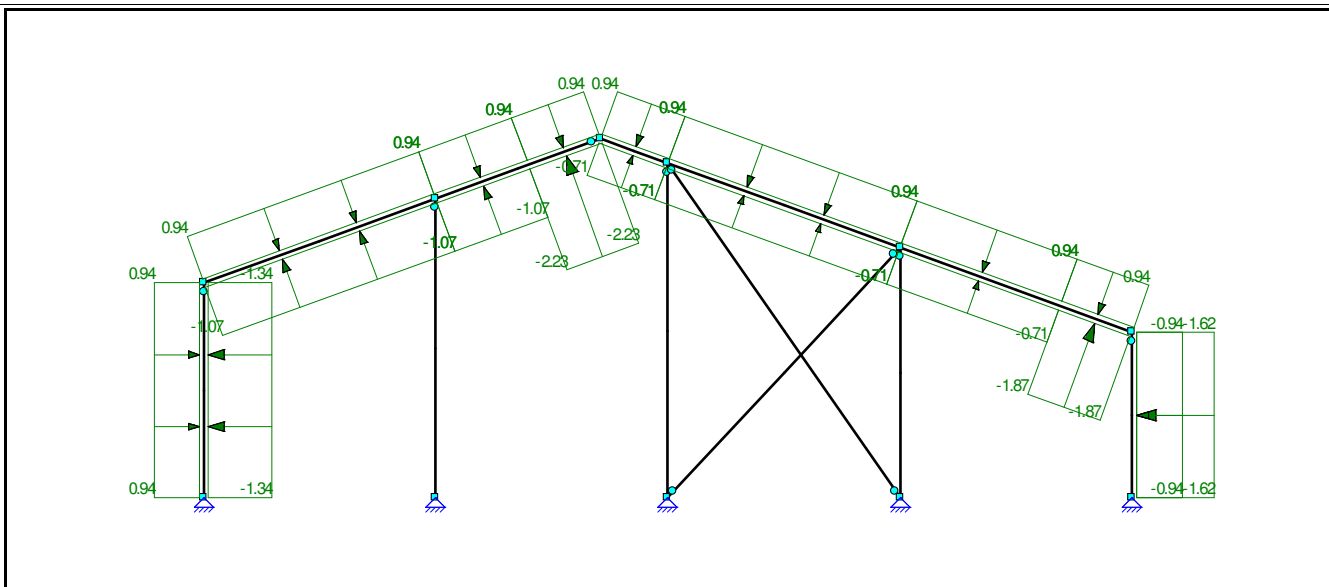
B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)

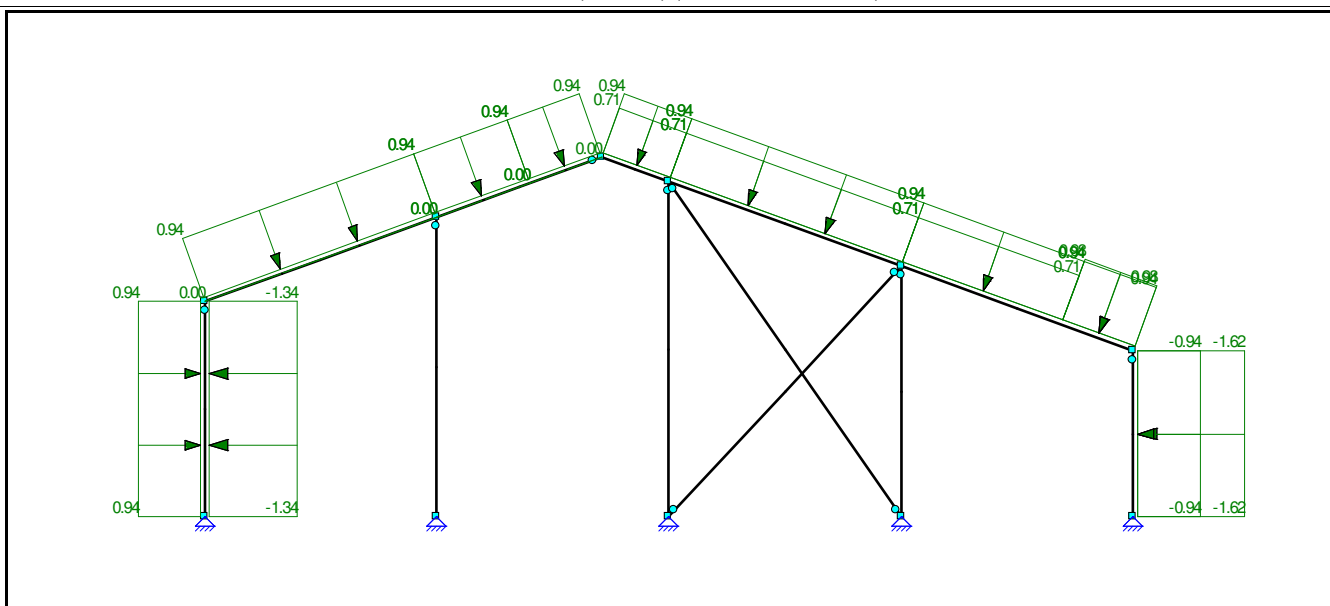
| Type                                                           | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.30: Windbelasting van Rechts + Onderdruk (2e corr. factor) |              |              |              |             |                         |
| q                                                              | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                              | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                              | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                              | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                              | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 2,027       | Z' S4                   |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                              | -2,23 (q62)  | -2,23 (q62)  | 2,027        | 3,591       | Z' S4                   |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                              | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                              | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 3,489       | Z' S10                  |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                              | -1,87 (q64)  | -1,87 (q64)  | 3,489        | 5,054       | Z' S10                  |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                              | -            | -            | m            | m           | - -                     |

B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)



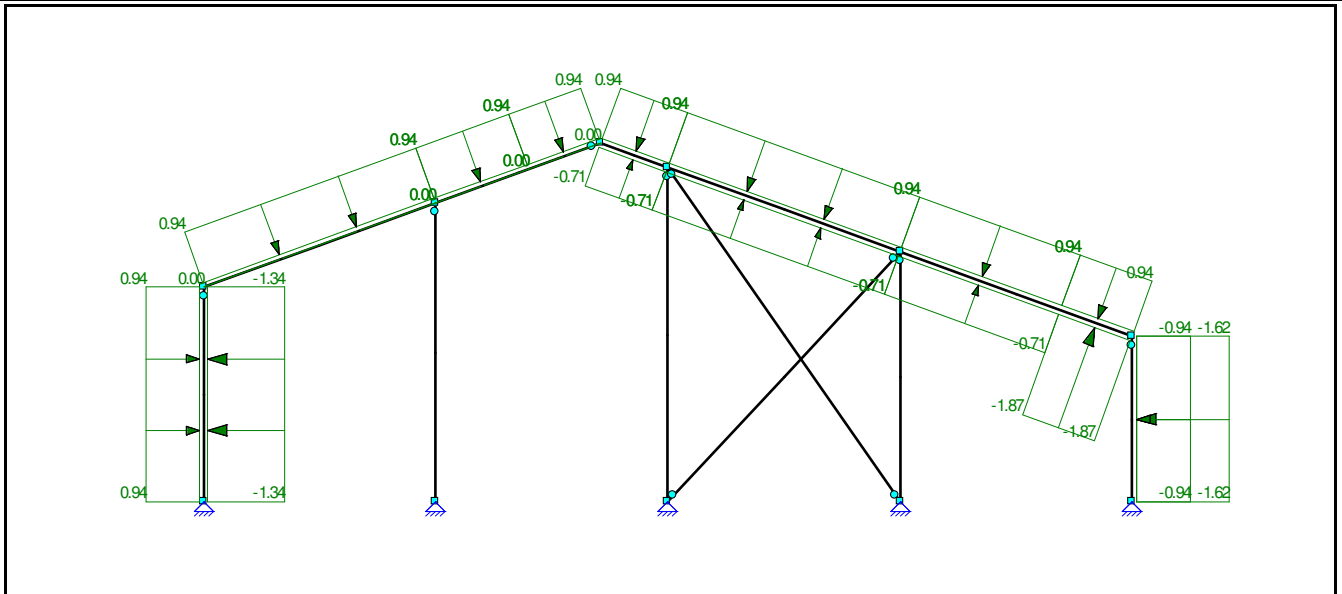
**B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                           | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.31: Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                              | -1,34 (q67)  | -1,34 (q67)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                              | -1,62 (-q69) | -1,62 (-q69) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                              | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                              | -0,94 (q66)  | -0,94 (q66)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                              | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                              | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                              | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                              | 0,00 (q71)   | 0,00 (q71)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                              | 0,94 (-q66)  | 0,94 (-q66)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                              | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                              | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                              | 0,94 (-q66)  | 0,94 (-q66)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                              | 0,98 (q73)   | 0,98 (q73)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                              | 0,94 (-q66)  | 0,94 (-q66)  | 3,489        | 5,054       | Z' S10                  |
| -                                                                              | -            | -            | m            | m           | - -                     |

**B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)****B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                    | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.32: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                                                       | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                       | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                                       | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                       | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                                       | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                       | 0,00 (q71)   | 0,00 (q71)   | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                       | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                                       | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                       | -1,87 (q64)  | -1,87 (q64)  | 3,489        | 5,054       | Z' S10                  |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                                                                       | -            | -            | m            | m           | - -                     |

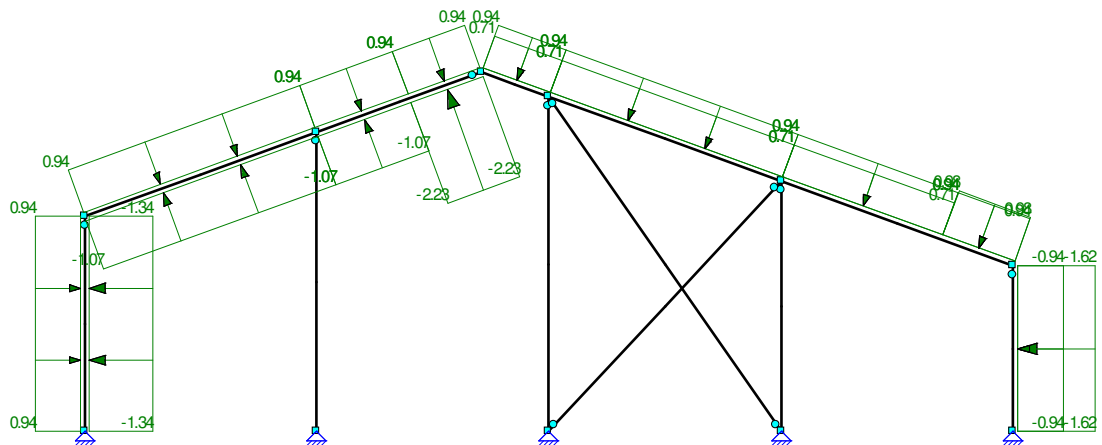
B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



**B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                    | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| <b>B.G.33: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |              |              |              |             |                         |
| q                                                                                                       | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                       | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1-S2,S6,S8          |
| q                                                                                                       | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S9                   |
| q                                                                                                       | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 5,053(L)    | Z' S2                   |
| q                                                                                                       | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 2,027       | Z' S4                   |
| q                                                                                                       | -2,23 (q62)  | -2,23 (q62)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 2,027        | 3,591       | Z' S4                   |
| q                                                                                                       | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 1,463(L)    | Z' S6,S8                |
| q                                                                                                       | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 3,489       | Z' S10                  |
| q                                                                                                       | 0,98 (q73)   | 0,98 (q73)   | 3,489        | 5,054       | Z' S10                  |
| q                                                                                                       | 0,94 (-q57)  | 0,94 (-q57)  | 3,489        | 5,054       | Z' S10                  |
| -                                                                                                       | -            | -            | m            | m           | - -                     |

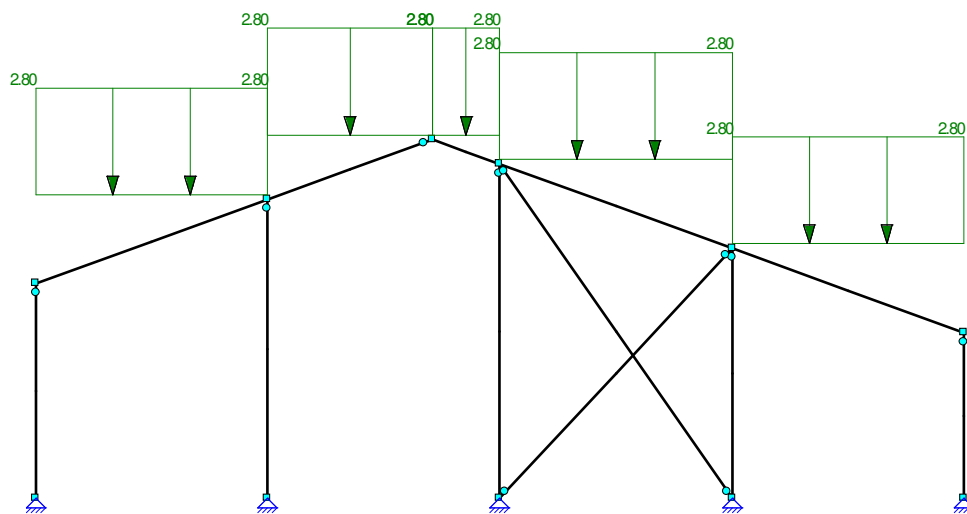
## B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



## B.G.34: SNEEUWBELASTING 1

| Type                      | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------|-------------|------------|--------------|-------------|-------------------------|
| B.G.34: Sneeuwbelasting 1 |             |            |              |             |                         |
| q                         | 2,80 (q75)  | 2,80 (q75) | 0,000        | 4,750(L)    | Z S2,S4,S6,S8,S10       |
| -                         | -           | -          | m            | m           | - -                     |

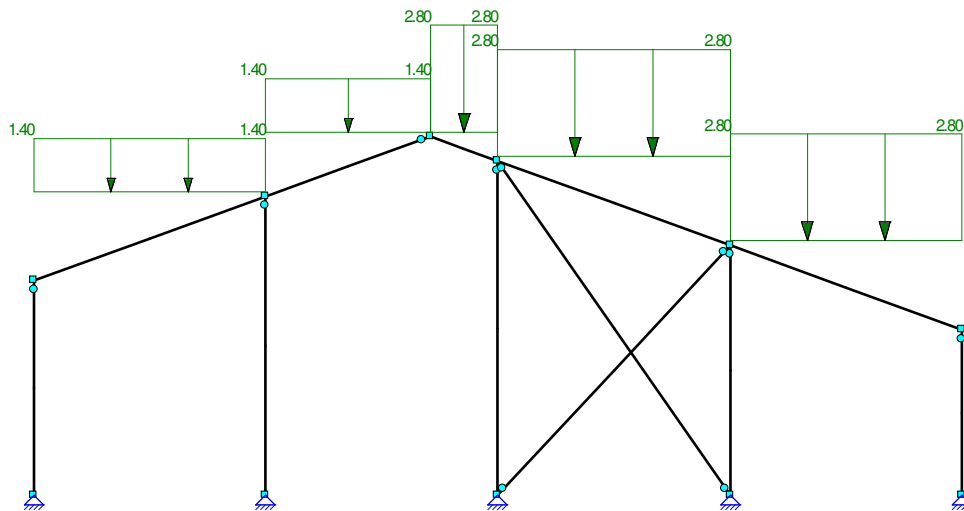
## B.G.34: SNEEUWBELASTING 1



## B.G.35: SNEEUWBELASTING 2

| Type                      | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------|-------------|------------|--------------|-------------|-------------------------|
| B.G.35: Sneeuwbelasting 2 |             |            |              |             |                         |
| q                         | 1,40 (q76)  | 1,40 (q76) | 0,000        | 4,750(L)    | Z S2,S4                 |
| q                         | 2,80 (q75)  | 2,80 (q75) | 0,000        | 1,375(L)    | Z S6,S8,S10             |
| -                         | -           | -          | m            | m           | - -                     |

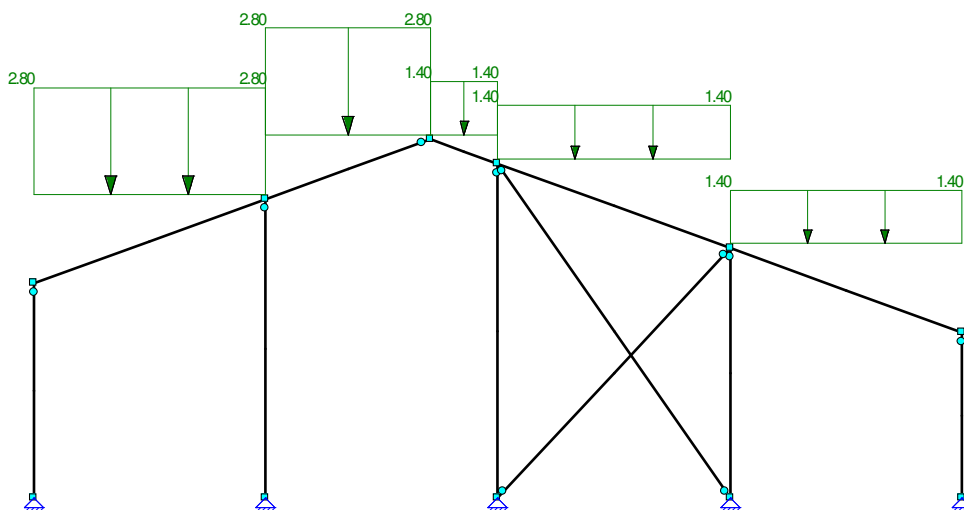
## B.G.35: SNEEUWBELASTING 2



## B.G.36: SNEEUWBELASTING 3

| Type                             | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|------------|--------------|-------------|-------------------------|
| <b>B.G.36: Sneeuwbelasting 3</b> |             |            |              |             |                         |
| q                                | 2,80 (q75)  | 2,80 (q75) | 0,000        | 4,750(L)    | Z S2,S4                 |
| q                                | 1,40 (q76)  | 1,40 (q76) | 0,000        | 1,375(L)    | Z S6,S8,S10             |
| -                                | -           | -          | m            | m           | - -                     |

## B.G.36: SNEEUWBELASTING 3



## FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

| B.G.  | Omschrijving                                                            | Fu.C.1 | Fu.C.2<br>(Overslaan) | Fu.C.3 | Fu.C.4 | Fu.C.5 | Fu.C.6<br>(Overslaan) | Fu.C.7 | Fu.C.8 |
|-------|-------------------------------------------------------------------------|--------|-----------------------|--------|--------|--------|-----------------------|--------|--------|
| B.G.1 | Permanente Belasting                                                    | 0.90   | 0.90                  | 0.90   | 0.90   | 0.90   | 0.90                  | 0.90   | 0.90   |
| B.G.2 | Windbelasting van Links + Overdruk                                      | 1.13   | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.3 | Windbelasting van Links + Overdruk (2e Cpe)                             | -      | 1.13                  | -      | -      | -      | -                     | -      | -      |
| B.G.4 | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) | -      | -                     | 1.13   | -      | -      | -                     | -      | -      |

| Wopereis Staalbouw |  |  |  | Pos 2 - Eindspant |  |  |  |  |  |
|--------------------|--|--|--|-------------------|--|--|--|--|--|
|--------------------|--|--|--|-------------------|--|--|--|--|--|

|             |                                                                                          |                     |                |                     |                |                     |                     |                     |                |
|-------------|------------------------------------------------------------------------------------------|---------------------|----------------|---------------------|----------------|---------------------|---------------------|---------------------|----------------|
| B.G.5       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                   | -              | -                   | 1.13           | -                   | -                   | -                   | -              |
| B.G.6       | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                   | -              | -                   | -              | 1.13                | -                   | -                   | -              |
| B.G.7       | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                   | -              | -                   | -              | -                   | 1.13                | -                   | -              |
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                   | -              | -                   | -              | -                   | -                   | 1.13                | -              |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                   | -              | -                   | -              | -                   | -                   | -                   | 1.13           |
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.18      | Windbelasting van Rechts + Overdruk                                                      | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.19      | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.20      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.21      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.22      | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.23      | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.24      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.25      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.26      | Windbelasting van Rechts + Onderdruk                                                     | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.27      | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.28      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.29      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.30      | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.31      | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.32      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.33      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.34      | Sneeuwbelasting 1                                                                        | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.35      | Sneeuwbelasting 2                                                                        | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.36      | Sneeuwbelasting 3                                                                        | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| <b>B.G.</b> | <b>Omschrijving</b>                                                                      | <b>Fu.C.9</b>       | <b>Fu.C.10</b> | <b>Fu.C.11</b>      | <b>Fu.C.12</b> | <b>Fu.C.13</b>      | <b>Fu.C.14</b>      | <b>Fu.C.15</b>      | <b>Fu.C.16</b> |
|             |                                                                                          | <b>(Overslaan )</b> |                | <b>(Overslaan )</b> |                | <b>(Overslaan )</b> | <b>(Overslaan )</b> | <b>(Overslaan )</b> |                |
| B.G.1       | Permanente Belasting                                                                     | 1.08                | 1.08           | 1.08                | 1.08           | 1.08                | 1.08                | 1.08                | 1.08           |
| B.G.2       | Windbelasting van Links + Overdruk                                                       | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.3       | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.4       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.5       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.6       | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.7       | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                   | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | 1.13                | -              | -                   | -              | -                   | -                   | -                   | -              |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                   | 1.13           | -                   | -              | -                   | -                   | -                   | -              |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                   | -              | 1.13                | -              | -                   | -                   | -                   | -              |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                   | -              | -                   | 1.13           | -                   | -                   | -                   | -              |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                   | -              | -                   | -              | 1.13                | -                   | -                   | -              |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                   | -              | -                   | -              | -                   | 1.13                | -                   | -              |

| Wopereis Staalbouw |                                                                                          |                |                            | Pos 2 - Eindspant |                |                |                            |                |                |
|--------------------|------------------------------------------------------------------------------------------|----------------|----------------------------|-------------------|----------------|----------------|----------------------------|----------------|----------------|
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | 1.13                       | -              | -              |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | 1.13           | -              |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.34             | Sneeuwbelasting 1                                                                        | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.35             | Sneeuwbelasting 2                                                                        | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.36             | Sneeuwbelasting 3                                                                        | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                      | <b>Fu.C.17</b> | <b>Fu.C.18 (Overslaan)</b> | <b>Fu.C.19</b>    | <b>Fu.C.20</b> | <b>Fu.C.21</b> | <b>Fu.C.22 (Overslaan)</b> | <b>Fu.C.23</b> | <b>Fu.C.24</b> |
| B.G.1              | Permanente Belasting                                                                     | 0.90           | 0.90                       | 0.90              | 0.90           | 0.90           | 0.90                       | 0.90           | 0.90           |
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | 1.13           | -                          | -                 | -              | -              | -                          | -              | -              |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -              | 1.13                       | -                 | -              | -              | -                          | -              | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                          | 1.13              | -              | -              | -                          | -              | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                          | -                 | 1.13           | -              | -                          | -              | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -              | -                          | -                 | -              | 1.13           | -                          | -              | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -              | -                          | -                 | -              | -              | 1.13                       | -              | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | 1.13           | -              |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                          | -                 | -              | -              | -                          | -              | 1.13           |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -              | -                          | -                 | -              | -              | -                          | -              | -              |

| Wopereis Staalbouw |                                                                                               | Pos 2 - Eindspant                   |                |                                     |                                     |                                     |                                     |                                     |                |
|--------------------|-----------------------------------------------------------------------------------------------|-------------------------------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------|
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe) -                                               | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 1e Cpe + IJ 2e Cpe)                   | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 2e Cpe + IJ 1e Cpe)                   | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. -<br>factor)                                   | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) -<br>(2e corr. factor)                          | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.34             | Sneeuwbelasting 1                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.35             | Sneeuwbelasting 2                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.36             | Sneeuwbelasting 3                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                           | <b>Fu.C.25<br/>(Overslaan<br/>)</b> | <b>Fu.C.26</b> | <b>Fu.C.27<br/>(Overslaan<br/>)</b> | <b>Fu.C.28</b>                      | <b>Fu.C.29<br/>(Overslaan<br/>)</b> | <b>Fu.C.30<br/>(Overslaan<br/>)</b> | <b>Fu.C.31<br/>(Overslaan<br/>)</b> | <b>Fu.C.32</b> |
| B.G.1              | Permanente Belasting                                                                          | 1.08                                | 1.08           | 1.08                                | 1.08                                | 1.08                                | 1.08                                | 1.08                                | 1.08           |
| B.G.2              | Windbelasting van Links + Overdruk                                                            | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                                   | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr.<br>factor)                                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e<br>corr. factor)                              | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)     | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)     | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.10             | Windbelasting van Links + Overdruk                                                            | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.11             | Windbelasting van Links + Overdruk (2e Cpe)                                                   | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.12             | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.13             | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.14             | Windbelasting van Links + Overdruk (2e corr.<br>factor)                                       | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.15             | Windbelasting van Links + Overdruk (2e Cpe)<br>(2e corr. factor)                              | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.16             | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)     | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.17             | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)     | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                           | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                                  | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                      | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                      | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr.<br>factor)                                      | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe)<br>(2e corr. factor)                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.26             | Windbelasting van Rechts + Overdruk                                                           | 1.13                                | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.27             | Windbelasting van Rechts + Overdruk (2e Cpe)                                                  | -                                   | 1.13           | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.28             | Windbelasting van Rechts + Overdruk (Zadeldak -<br>FGH 1e Cpe + IJ 2e Cpe)                    | -                                   | -              | 1.13                                | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.29             | Windbelasting van Rechts + Overdruk (Zadeldak -<br>FGH 2e Cpe + IJ 1e Cpe)                    | -                                   | -              | -                                   | 1.13                                | -                                   | -                                   | -                                   | -              |
| B.G.30             | Windbelasting van Rechts + Overdruk (2e corr.<br>factor)                                      | -                                   | -              | -                                   | -                                   | 1.13                                | -                                   | -                                   | -              |
| B.G.31             | Windbelasting van Rechts + Overdruk (2e Cpe)<br>(2e corr. factor)                             | -                                   | -              | -                                   | -                                   | -                                   | 1.13                                | -                                   | -              |
| B.G.32             | Windbelasting van Rechts + Overdruk (Zadeldak -<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                                   | -              | -                                   | -                                   | -                                   | -                                   | 1.13                                | -              |
| B.G.33             | Windbelasting van Rechts + Overdruk (Zadeldak -<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | 1.13           |
| B.G.34             | Sneeuwbelasting 1                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.35             | Sneeuwbelasting 2                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| B.G.36             | Sneeuwbelasting 3                                                                             | -                                   | -              | -                                   | -                                   | -                                   | -                                   | -                                   | -              |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                           | <b>Fu.C.33</b>                      | <b>Fu.C.34</b> | <b>Fu.C.35</b>                      | <b>Fu.C.36<br/>(Overslaan<br/>)</b> | <b>Fu.C.37<br/>(Overslaan<br/>)</b> |                                     |                                     |                |

| Wopereis Staalbouw |                                                                                          | Pos 2 - Eindspant |      |      |      |      |
|--------------------|------------------------------------------------------------------------------------------|-------------------|------|------|------|------|
| B.G.1              | Permanente Belasting                                                                     | 1.08              | 1.08 | 1.08 | 1.22 | 0.90 |
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -                 | -    | -    | -    | -    |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                 | -    | -    | -    | -    |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                 | -    | -    | -    | -    |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                 | -    | -    | -    | -    |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                 | -    | -    | -    | -    |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                 | -    | -    | -    | -    |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                 | -    | -    | -    | -    |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                 | -    | -    | -    | -    |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -                 | -    | -    | -    | -    |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                 | -    | -    | -    | -    |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                 | -    | -    | -    | -    |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                 | -    | -    | -    | -    |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                 | -    | -    | -    | -    |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                 | -    | -    | -    | -    |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                 | -    | -    | -    | -    |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                 | -    | -    | -    | -    |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -                 | -    | -    | -    | -    |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                 | -    | -    | -    | -    |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                 | -    | -    | -    | -    |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                 | -    | -    | -    | -    |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                 | -    | -    | -    | -    |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                 | -    | -    | -    | -    |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                 | -    | -    | -    | -    |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                 | -    | -    | -    | -    |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -                 | -    | -    | -    | -    |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                 | -    | -    | -    | -    |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                 | -    | -    | -    | -    |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                 | -    | -    | -    | -    |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                 | -    | -    | -    | -    |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                 | -    | -    | -    | -    |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                 | -    | -    | -    | -    |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                 | -    | -    | -    | -    |
| B.G.34             | Sneeuwbelasting 1                                                                        | 1.01              | -    | -    | -    | -    |
| B.G.35             | Sneeuwbelasting 2                                                                        | -                 | 1.01 | -    | -    | -    |
| B.G.36             | Sneeuwbelasting 3                                                                        | -                 | -    | 1.01 | -    | -    |

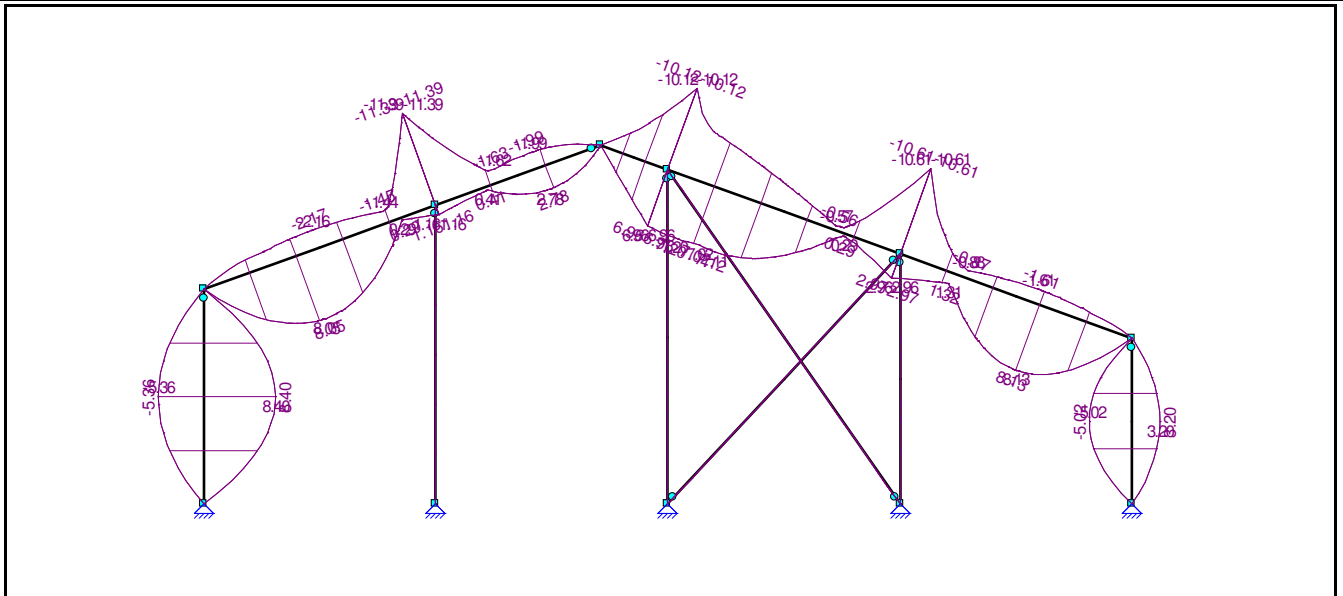
## UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

Trekelemen(en) gebruikt

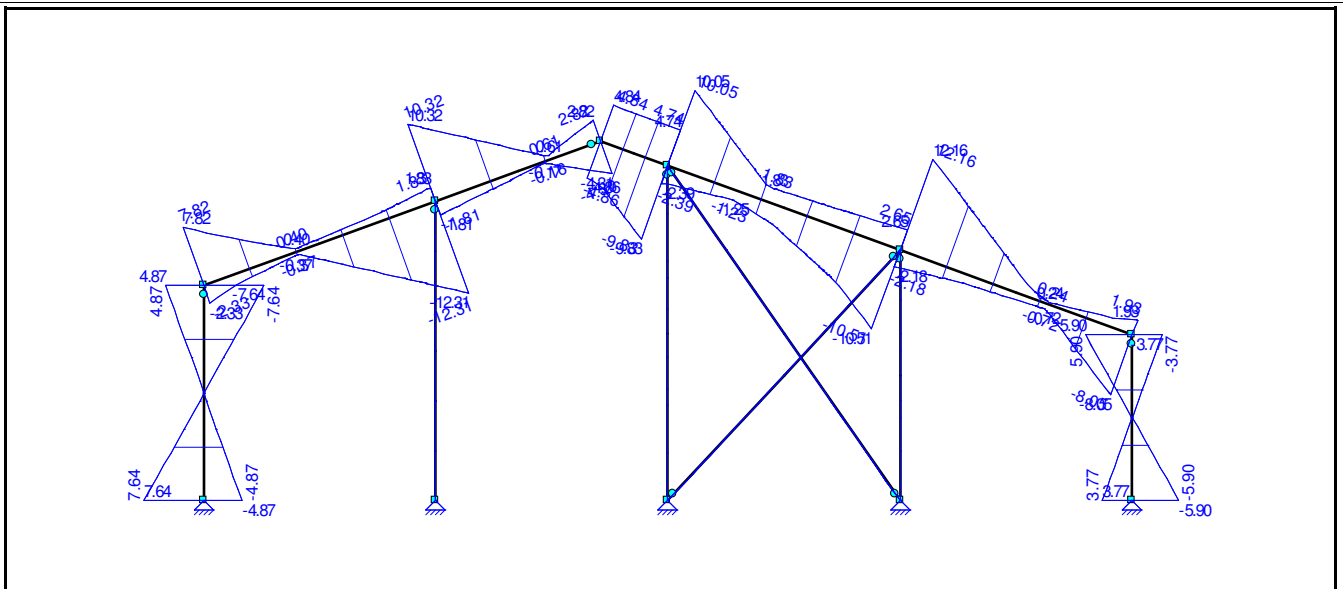
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



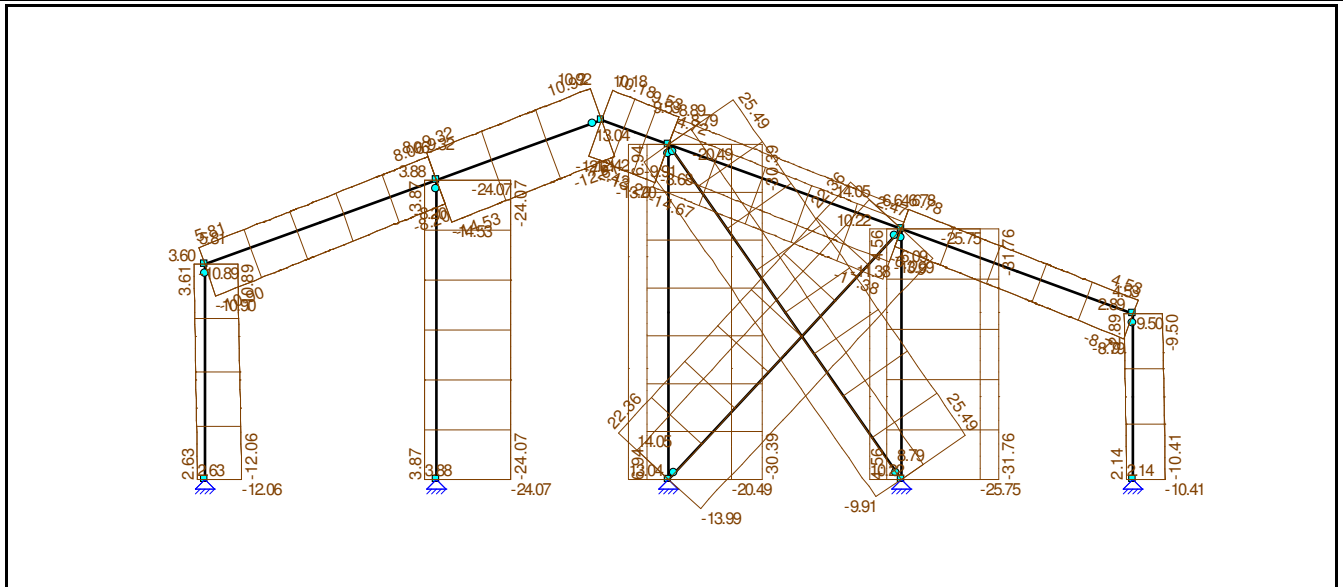
AFB. FU.C. DRWARSKRACHT (VZ) / SHEAR FORCE (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) / NORMAL FORCE (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



## FU.C. STAAFKRACHTEN ANALYSE

| Staaf | B.C.    | Mb   | Mmax  | xMmax | Me     | x-M0  | x-M0 T/D | Nmax   | Vb    | Vmax   | Ve     |
|-------|---------|------|-------|-------|--------|-------|----------|--------|-------|--------|--------|
| S1    | Fu.C.1  | 0.00 | 4.12  | 2.200 | 0.00   | 0.000 | 0.000 T  | 1.01   | 3.74  | 3.74   | -3.74  |
|       | Fu.C.3  | 0.00 | 4.12  | 2.200 | 0.00   | 0.000 | 0.000 T  | 1.06   | 3.74  | 3.74   | -3.74  |
|       | Fu.C.4  | 0.00 | 4.12  | 2.200 | 0.00   | 0.000 | 0.000 D  | -5.75  | 3.74  | 3.74   | -3.74  |
|       | Fu.C.5  | 0.00 | 2.70  | 2.200 | 0.00   | 0.000 | 0.000 T  | 1.55   | 2.45  | -2.45  | -2.45  |
|       | Fu.C.7  | 0.00 | 2.70  | 2.200 | 0.00   | 0.000 | 0.000 T  | 1.59   | 2.45  | -2.45  | -2.45  |
|       | Fu.C.8  | 0.00 | 2.70  | 2.200 | 0.00   | 0.000 | 0.000 D  | -5.21  | 2.45  | -2.45  | -2.45  |
|       | Fu.C.10 | 0.00 | 8.40  | 2.200 | 0.00   | 0.000 | 0.000 D  | -12.01 | 7.64  | -7.64  | -7.64  |
|       | Fu.C.12 | 0.00 | 8.40  | 2.200 | 0.00   | 0.000 | 0.000 D  | -12.06 | 7.64  | -7.64  | -7.64  |
|       | Fu.C.16 | 0.00 | 6.98  | 2.200 | 0.00   | 0.000 | 0.000 D  | -11.53 | 6.35  | -6.35  | -6.35  |
|       | Fu.C.17 | 0.00 | -3.94 | 2.200 | 0.00   | 0.000 | 0.000 T  | 3.07   | -3.58 | -3.58  | 3.58   |
|       | Fu.C.19 | 0.00 | -3.94 | 2.200 | 0.00   | 0.000 | 0.000 T  | 0.52   | -3.58 | -3.58  | 3.58   |
|       | Fu.C.20 | 0.00 | -3.94 | 2.200 | 0.00   | 0.000 | 0.000 T  | 3.05   | -3.58 | -3.58  | 3.58   |
|       | Fu.C.21 | 0.00 | -5.36 | 2.200 | 0.00   | 0.000 | 0.000 T  | 3.61   | -4.87 | 4.87   | 4.87   |
|       | Fu.C.23 | 0.00 | -5.36 | 2.200 | 0.00   | 0.000 | 0.000 T  | 1.06   | -4.87 | 4.87   | 4.87   |
|       | Fu.C.24 | 0.00 | -5.36 | 2.200 | 0.00   | 0.000 | 0.000 T  | 3.59   | -4.87 | 4.87   | 4.87   |
|       | Fu.C.26 | 0.00 | 0.35  | 2.200 | 0.00   | 0.000 | 0.000 D  | -6.78  | 0.32  | -0.32  | -0.32  |
|       | Fu.C.28 | 0.00 | 0.35  | 2.200 | 0.00   | 0.000 | 0.000 D  | -4.24  | 0.32  | -0.32  | -0.32  |
|       | Fu.C.32 | 0.00 | -1.07 | 2.200 | 0.00   | 0.000 | 0.000 D  | -3.70  | -0.97 | -0.97  | 0.97   |
|       | Fu.C.33 | 0.00 |       |       | 0.00   | 1.467 | 2.933 D  | -9.50  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.34 | 0.00 |       |       | 0.00   | 1.467 | 2.933 D  | -6.90  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.35 | 0.00 |       |       | 0.00   | 2.933 | 0.000 D  | -9.47  | 0.00  | 0.00   | 0.00   |
| S2    | Fu.C.1  | 0.00 | -1.55 | 1.395 | 1.16   | 4.021 | 0.000 D  | -3.17  | -2.22 | -2.22  | 1.27   |
|       | Fu.C.3  | 0.00 | -1.62 | 1.424 | 0.93   | 4.212 | 0.000 D  | -3.16  | -2.27 | -2.27  | 1.23   |
|       | Fu.C.4  | 0.00 | 3.21  | 2.079 | -2.62  | 4.288 | 0.000 D  | -5.15  | 3.21  | -3.92  | -3.92  |
|       | Fu.C.5  | 0.00 | -1.64 | 1.435 | 0.84   | 4.292 | 0.000 D  | -1.78  | -2.29 | -2.29  | 1.21   |
|       | Fu.C.7  | 0.00 | -1.71 | 1.464 | 0.61   | 4.493 | 0.000 D  | -1.76  | -2.33 | -2.33  | 1.16   |
|       | Fu.C.8  | 0.00 | 3.08  | 2.031 | -2.94  | 4.193 | 0.000 D  | -3.75  | 3.14  | -3.98  | -3.98  |
|       | Fu.C.10 | 0.00 | 7.95  | 2.132 | -6.28  | 4.316 | 0.000 D  | -10.88 | 7.58  | -9.75  | -9.75  |
|       | Fu.C.12 | 0.00 | 8.05  | 2.146 | -6.05  | 4.342 | 0.000 D  | -10.90 | 7.63  | -9.70  | -9.70  |
|       | Fu.C.16 | 0.00 | 7.91  | 2.127 | -6.38  | 4.305 | 0.000 D  | -9.50  | 7.56  | -9.77  | -9.77  |
|       | Fu.C.17 | 0.00 | -2.01 | 2.416 | 0.39   | 4.832 | 0.000 T  | 6.66   | -1.66 | 1.81   | 1.81   |
|       | Fu.C.19 | 0.00 | 0.51  | 1.410 | -2.92  | 2.819 | 0.000 T  | 5.79   | 0.73  | -1.88  | -1.88  |
|       | Fu.C.20 | 0.00 | -1.97 | 2.394 | 0.46   | 4.787 | 0.000 T  | 6.66   | -1.65 | 1.83   | 1.83   |
|       | Fu.C.21 | 0.00 | -2.17 | 2.509 | 0.06   | 5.018 | 0.000 T  | 8.06   | -1.73 | 1.75   | 1.75   |
|       | Fu.C.23 | 0.00 | 0.43  | 1.286 | -3.24  | 2.571 | 0.000 T  | 7.19   | 0.66  | -1.95  | -1.95  |
|       | Fu.C.24 | 0.00 | -2.13 | 2.487 | 0.14   | 4.973 | 0.000 T  | 8.05   | -1.71 | 1.77   | 1.77   |
|       | Fu.C.26 | 0.00 | 5.26  | 2.037 | -6.28  | 4.073 | 0.000 D  | -2.21  | 5.16  | -7.65  | -7.65  |
|       | Fu.C.28 | 0.00 | 2.89  | 2.084 | -2.98  | 4.168 | 0.000 T  | 1.36   | 2.77  | -3.95  | -3.95  |
|       | Fu.C.32 | 0.00 | 2.76  | 2.036 | -3.30  | 4.072 | 0.000 T  | 2.75   | 2.71  | -4.02  | -4.02  |
|       | Fu.C.33 | 0.00 | 7.69  | 1.966 | -11.28 | 3.932 | 0.000 T  | 4.46   | 7.82  | -12.29 | -12.29 |
|       | Fu.C.34 | 0.00 | 5.31  | 1.974 | -7.62  | 3.948 | 0.000 T  | 3.05   | 5.38  | -8.40  | -8.40  |

| Wopereis Staalbouw |         |        |       |       |        |       |          | Pos 2 - Eindspant |       |        |        |
|--------------------|---------|--------|-------|-------|--------|-------|----------|-------------------|-------|--------|--------|
| Staaf              | B.C.    | Mb     | Mmax  | xMmax | Me     | x-M0  | x-M0 T/D | Nmax              | Vb    | Vmax   | Ve     |
| S2                 | Fu.C.35 | 0.00   | 7.65  | 1.960 | -11.39 | 3.921 | 0.000 T  | 4.47              | 7.80  | -12.31 | -12.31 |
| S3                 | Fu.C.1  | 0.00   |       |       | 0.00   | 2.042 | 0.000 T  | 2.25              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.3  | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 2.13              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.4  | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -7.46             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.5  | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 2.08              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.7  | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 1.97              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.8  | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -7.63             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.10 | 0.00   |       |       | 0.00   | 4.083 | 0.000 D  | -18.61            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.12 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -18.49            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.16 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -18.65            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.17 | 0.00   |       |       | 0.00   | 4.083 | 0.000 T  | 3.83              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.19 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -3.86             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.20 | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 3.87              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.21 | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 3.67              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.23 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -4.02             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.24 | 0.00   |       |       | 0.00   | 2.042 | 4.083 T  | 3.71              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.26 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -14.84            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.28 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -7.15             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.32 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -7.32             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.33 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -24.02            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.34 | 0.00   |       |       | 0.00   | 4.083 | 0.000 D  | -16.40            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.35 | 0.00   |       |       | 0.00   | 2.042 | 4.083 D  | -24.07            | 0.00  | 0.00   | 0.00   |
| S4                 | Fu.C.1  | 1.16   | -0.06 | 2.919 | 0.00   | 2.248 | 0.000 T  | 1.44              | -0.84 | -0.84  | 0.19   |
|                    | Fu.C.3  | 0.93   | -0.11 | 2.697 | 0.00   | 1.803 | 0.000 T  | 1.42              | -0.77 | -0.77  | 0.26   |
|                    | Fu.C.4  | -2.62  | 1.02  | 2.348 | 0.00   | 1.105 | 0.000 D  | -5.44             | 3.10  | 3.10   | -1.64  |
|                    | Fu.C.5  | 0.84   | -0.14 | 2.606 | 0.00   | 1.621 | 0.000 T  | 2.78              | -0.75 | -0.75  | 0.28   |
|                    | Fu.C.7  | 0.61   | -0.21 | 2.383 | 0.00   | 1.176 | 0.000 T  | 2.76              | -0.68 | -0.68  | 0.35   |
|                    | Fu.C.8  | -2.94  | 0.91  | 2.416 | 0.00   | 1.242 | 0.000 D  | -4.10             | 3.19  | 3.19   | -1.55  |
|                    | Fu.C.10 | -6.28  | 2.69  | 2.320 | 0.00   | 1.049 | 0.000 D  | -14.53            | 7.74  | 7.74   | -4.24  |
|                    | Fu.C.12 | -6.05  | 2.78  | 2.301 | 0.00   | 1.011 | 0.000 D  | -14.51            | 7.68  | 7.68   | -4.30  |
|                    | Fu.C.16 | -6.38  | 2.66  | 2.328 | 0.00   | 1.065 | 0.000 D  | -13.16            | 7.77  | 7.77   | -4.21  |
|                    | Fu.C.17 | 0.39   | -1.87 | 2.224 | 0.00   | 0.225 | 0.000 T  | 9.57              | -1.79 | 2.73   | 2.73   |
|                    | Fu.C.19 | -2.92  | 0.01  | 3.367 | 0.00   | 3.144 | 0.000 T  | 6.08              | 1.74  | 1.74   | -0.12  |
|                    | Fu.C.20 | 0.46   | -1.84 | 2.235 | 0.00   | 0.270 | 0.000 T  | 9.58              | -1.81 | 2.71   | 2.71   |
|                    | Fu.C.21 | 0.06   | -1.99 | 2.179 | 0.00   | 0.037 | 0.000 T  | 10.91             | -1.70 | 2.82   | 2.82   |
|                    | Fu.C.23 | -3.24  | 0.00  | 3.542 | 0.00   | 3.493 | 0.000 T  | 7.42              | 1.83  | 1.83   | -0.03  |
|                    | Fu.C.24 | 0.14   | -1.96 | 2.190 | 0.00   | 0.082 | 0.000 T  | 10.92             | -1.72 | 2.80   | 2.80   |
|                    | Fu.C.26 | -6.28  | 1.55  | 2.485 | 0.00   | 1.379 | 0.000 D  | -4.58             | 6.30  | 6.30   | -2.80  |
|                    | Fu.C.28 | -2.98  |       |       | 0.00   | 0.000 | 0.000 D  | -1.08             | 2.77  | 2.77   | 0.04   |
|                    | Fu.C.32 | -3.30  |       |       | 0.00   | 0.000 | 0.000 T  | 2.18              | 2.86  | 2.86   | 0.13   |
|                    | Fu.C.33 | -11.28 | 2.01  | 2.585 | 0.00   | 1.579 | 0.000 D  | -3.73             | 10.29 | 10.29  | -4.00  |
|                    | Fu.C.34 | -7.62  | 1.41  | 2.573 | 0.00   | 1.556 | 0.000 D  | -2.55             | 7.02  | 7.02   | -2.77  |
|                    | Fu.C.35 | -11.39 | 1.98  | 2.592 | 0.00   | 1.594 | 0.000 D  | -3.75             | 10.32 | 10.32  | -3.97  |
| S5                 | Fu.C.1  | 0.00   |       |       | 0.00   | 2.284 | 4.567 T  | 4.07              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.3  | 0.00   |       |       | 0.00   | 4.567 | 0.000 D  | -3.03             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.4  | 0.00   |       |       | 0.00   | 4.567 | 0.000 T  | 6.94              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.5  | 0.00   |       |       | 0.00   | 2.284 | 4.567 T  | 2.92              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.7  | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -4.17             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.8  | 0.00   |       |       | 0.00   | 2.284 | 4.567 T  | 5.80              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.10 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -2.77             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.12 | 0.00   |       |       | 0.00   | 4.567 | 0.000 T  | 4.32              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.16 | 0.00   |       |       | 0.00   | 2.284 | 4.567 T  | 3.17              | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.17 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -11.46            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.19 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -6.79             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.20 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -25.35            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.21 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -12.92            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.23 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -8.25             | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.24 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -26.81            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.26 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -24.26            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.28 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -28.93            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.32 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -30.39            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.33 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -21.14            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.34 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -19.36            | 0.00  | 0.00   | 0.00   |
|                    | Fu.C.35 | 0.00   |       |       | 0.00   | 2.284 | 4.567 D  | -16.27            | 0.00  | 0.00   | 0.00   |
| S6                 | Fu.C.1  | 0.00   | -0.15 | 0.388 | 1.00   | 0.777 | 0.000 T  | 1.23              | -0.78 | 2.15   | 2.15   |
|                    | Fu.C.3  | 0.00   |       |       | -1.59  | 0.000 | 0.000 T  | 1.25              | -0.71 | -1.47  | -1.47  |

| Wopereis Staalbouw |  |  |  |  | Pos 2 - Eindspant |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------|--|--|--|--|--|--|
|--------------------|--|--|--|--|-------------------|--|--|--|--|--|--|

| Staaf | B.C.    | Mb     | Mmax  | xMmax | Me     | x-M0  | x-M0 T/D | Nmax   | Vb    | Vmax   | Ve     |
|-------|---------|--------|-------|-------|--------|-------|----------|--------|-------|--------|--------|
| S6    | Fu.C.4  | 0.00   |       |       | 3.91   | 0.000 | 0.000 D  | -4.65  | 1.21  | 4.13   | 4.13   |
|       | Fu.C.5  | 0.00   | -0.62 | 0.785 | -0.16  | 0.000 | 0.000 T  | 2.32   | -1.57 | -1.57  | 1.35   |
|       | Fu.C.7  | 0.00   |       |       | -2.75  | 0.000 | 0.000 T  | 2.34   | -1.50 | -2.26  | -2.26  |
|       | Fu.C.8  | 0.00   |       |       | 2.75   | 0.000 | 0.000 D  | -3.57  | 0.42  | 3.34   | 3.34   |
|       | Fu.C.10 | 0.00   |       |       | 4.36   | 0.000 | 0.000 D  | -13.17 | 4.84  | 4.84   | 1.13   |
|       | Fu.C.12 | 0.00   |       |       | 6.96   | 0.000 | 0.000 D  | -13.20 | 4.77  | 4.77   | 4.74   |
|       | Fu.C.16 | 0.00   |       |       | 5.80   | 0.000 | 0.000 D  | -12.11 | 3.98  | 3.98   | 3.95   |
|       | Fu.C.17 | 0.00   |       |       | -5.61  | 0.000 | 0.000 T  | 9.09   | -4.04 | -4.04  | -3.62  |
|       | Fu.C.19 | 0.00   |       |       | -5.53  | 0.000 | 0.000 T  | 4.59   | -3.99 | -3.99  | -3.57  |
|       | Fu.C.20 | 0.00   |       |       | -7.36  | 0.000 | 0.000 T  | 9.08   | -4.07 | -6.00  | -6.00  |
|       | Fu.C.21 | 0.00   |       |       | -6.77  | 0.000 | 0.000 T  | 10.18  | -4.84 | -4.84  | -4.42  |
|       | Fu.C.23 | 0.00   |       |       | -6.68  | 0.000 | 0.000 T  | 5.67   | -4.78 | -4.78  | -4.36  |
|       | Fu.C.24 | 0.00   |       |       | -8.52  | 0.000 | 0.000 T  | 10.17  | -4.86 | -6.79  | -6.79  |
|       | Fu.C.26 | 0.00   |       |       | -4.22  | 0.000 | 0.000 D  | -4.62  | -0.45 | -5.33  | -5.33  |
|       | Fu.C.28 | 0.00   |       |       | -4.31  | 0.000 | 0.000 T  | 0.67   | -0.50 | -5.39  | -5.39  |
|       | Fu.C.32 | 0.00   |       |       | -5.47  | 0.000 | 0.000 T  | 1.76   | -1.30 | -6.18  | -6.18  |
|       | Fu.C.33 | 0.00   |       |       | -10.12 | 0.000 | 0.000 D  | -3.57  | -4.00 | -9.83  | -9.83  |
|       | Fu.C.34 | 0.00   |       |       | -8.31  | 0.000 | 0.000 D  | -3.12  | -2.77 | -8.59  | -8.59  |
|       | Fu.C.35 | 0.00   |       |       | -8.73  | 0.000 | 0.000 D  | -2.89  | -3.97 | -7.96  | -7.96  |
| S7    | Fu.C.1  | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -9.54  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.3  | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -8.95  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.4  | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -18.51 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.5  | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -8.75  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.7  | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -8.16  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.8  | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -17.72 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.10 | 0.00   |       |       | 0.00   | 0.000 | 0.000 D  | -31.17 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.12 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -31.76 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.16 | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -30.97 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.17 | 0.00   |       |       | 0.00   | 1.708 | 3.417 T  | 4.19   | 0.00  | 0.00   | 0.00   |
|       | Fu.C.19 | 0.00   |       |       | 0.00   | 1.708 | 3.417 T  | 4.17   | 0.00  | 0.00   | 0.00   |
|       | Fu.C.20 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -6.66  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.21 | 0.00   |       |       | 0.00   | 1.708 | 0.000 T  | 4.56   | 0.00  | 0.00   | 0.00   |
|       | Fu.C.23 | 0.00   |       |       | 0.00   | 1.708 | 0.000 T  | 4.53   | 0.00  | 0.00   | 0.00   |
|       | Fu.C.24 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -6.29  | 0.00  | 0.00   | 0.00   |
|       | Fu.C.26 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -21.21 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.28 | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -21.18 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.32 | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -20.82 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.33 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -23.55 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.34 | 0.00   |       |       | 0.00   | 1.708 | 3.417 D  | -24.11 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.35 | 0.00   |       |       | 0.00   | 1.708 | 0.000 D  | -15.56 | 0.00  | 0.00   | 0.00   |
| S8    | Fu.C.1  | 1.00   | -0.74 | 2.247 | 1.97   | 0.779 | 3.714 D  | -3.06  | -1.68 | 1.93   | 1.93   |
|       | Fu.C.3  | -1.59  | 0.24  | 2.663 | -1.24  | 1.703 | 3.623 T  | 1.63   | 1.38  | 1.38   | -1.24  |
|       | Fu.C.4  | 3.91   | 0.19  | 3.287 | 1.26   | 0.000 | 0.000 D  | -9.27  | -2.39 | -2.39  | 1.22   |
|       | Fu.C.5  | -0.16  | -1.32 | 1.831 | 2.26   | 3.787 | 0.000 D  | -1.58  | -1.39 | 2.22   | 2.22   |
|       | Fu.C.7  | -2.75  | -0.08 | 3.216 | -0.95  | 0.000 | 0.000 T  | 3.11   | 1.66  | 1.66   | -0.95  |
|       | Fu.C.8  | 2.75   | -0.09 | 2.871 | 1.55   | 2.357 | 3.384 D  | -7.79  | -2.11 | -2.11  | 1.50   |
|       | Fu.C.10 | 4.36   | 7.12  | 1.473 | -9.14  | 3.842 | 0.000 D  | -14.93 | 3.74  | -9.08  | -9.08  |
|       | Fu.C.12 | 6.96   | 7.20  | 0.611 | -5.93  | 3.901 | 0.000 D  | -17.38 | 0.68  | -5.91  | -5.91  |
|       | Fu.C.16 | 5.80   | 6.25  | 0.826 | -5.64  | 3.891 | 0.000 D  | -15.90 | 0.97  | -5.63  | -5.63  |
|       | Fu.C.17 | -5.61  |       |       | 2.68   | 3.829 | 0.000 T  | 3.55   | 0.92  | 2.37   | 2.37   |
|       | Fu.C.19 | -5.53  |       |       | 2.66   | 3.825 | 0.000 T  | 3.54   | 0.90  | 2.35   | 2.35   |
|       | Fu.C.20 | -7.36  | -0.35 | 3.261 | -2.47  | 0.000 | 0.000 D  | -4.28  | 4.30  | 4.30   | -2.36  |
|       | Fu.C.21 | -6.77  |       |       | 2.97   | 3.857 | 0.000 T  | 4.72   | 1.20  | 2.65   | 2.65   |
|       | Fu.C.23 | -6.68  |       |       | 2.95   | 3.853 | 0.000 T  | 4.71   | 1.18  | 2.63   | 2.63   |
|       | Fu.C.24 | -8.52  | -0.55 | 3.478 | -2.18  | 0.000 | 0.000 D  | -3.11  | 4.59  | 4.59   | -2.08  |
|       | Fu.C.26 | -4.22  | 3.88  | 2.203 | -9.68  | 0.679 | 3.728 D  | -13.33 | 7.35  | -9.51  | -9.51  |
|       | Fu.C.28 | -4.31  | 3.84  | 2.210 | -9.66  | 0.693 | 3.726 D  | -13.32 | 7.37  | -9.49  | -9.49  |
|       | Fu.C.32 | -5.47  | 3.32  | 2.295 | -9.37  | 0.884 | 3.707 D  | -12.16 | 7.66  | -9.21  | -9.21  |
|       | Fu.C.33 | -10.12 | 2.57  | 2.525 | -10.16 | 1.389 | 3.660 D  | -3.66  | 10.05 | -10.07 | -10.07 |
|       | Fu.C.34 | -8.31  | 3.27  | 2.413 | -10.61 | 1.131 | 3.695 D  | -3.82  | 9.60  | -10.51 | -10.51 |
|       | Fu.C.35 | -8.73  | 1.12  | 2.688 | -6.51  | 1.782 | 3.593 T  | 2.66   | 7.33  | 7.33   | -6.45  |
| S9    | Fu.C.1  | 0.00   | 2.35  | 1.700 | 0.00   | 0.000 | 0.000 T  | 2.44   | 2.77  | -2.77  | -2.77  |
|       | Fu.C.3  | 0.00   | 2.35  | 1.700 | 0.00   | 0.000 | 0.000 D  | -0.88  | 2.77  | -2.77  | -2.77  |
|       | Fu.C.4  | 0.00   | 2.35  | 1.700 | 0.00   | 0.000 | 0.000 T  | 2.59   | 2.77  | -2.77  | -2.77  |
|       | Fu.C.5  | 0.00   | 3.20  | 1.700 | 0.00   | 0.000 | 0.000 T  | 2.74   | 3.77  | -3.77  | -3.77  |
|       | Fu.C.7  | 0.00   | 3.20  | 1.700 | 0.00   | 0.000 | 0.000 D  | -0.58  | 3.77  | -3.77  | -3.77  |

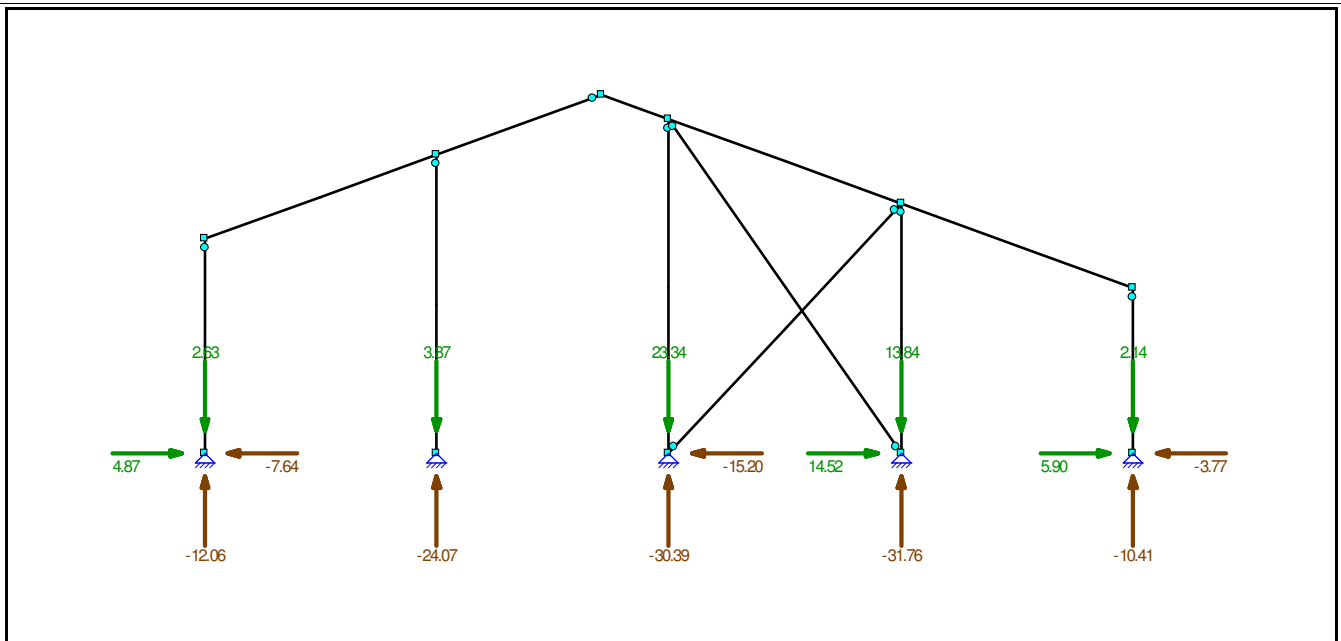
| Wopereis Staalbouw |  |  |  |  |  | Pos 2 - Eindspant |  |  |  |  |  |
|--------------------|--|--|--|--|--|-------------------|--|--|--|--|--|
|--------------------|--|--|--|--|--|-------------------|--|--|--|--|--|

| Staaf | B.C.    | Mb     | Mmax  | xMmax | Me   | x-M0  | x-M0 T/D | Nmax   | Vb    | Vmax  | Ve    |
|-------|---------|--------|-------|-------|------|-------|----------|--------|-------|-------|-------|
| S9    | Fu.C.8  | 0.00   | 3.20  | 1.700 | 0.00 | 0.000 | 0.000 T  | 2.89   | 3.77  | -3.77 | -3.77 |
|       | Fu.C.10 | 0.00   | -0.21 | 1.700 | 0.00 | 0.000 | 0.000 D  | -5.89  | -0.25 | 0.25  | 0.25  |
|       | Fu.C.12 | 0.00   | -0.21 | 1.700 | 0.00 | 0.000 | 0.000 D  | -3.33  | -0.25 | 0.25  | 0.25  |
|       | Fu.C.16 | 0.00   | 0.64  | 1.700 | 0.00 | 0.000 | 0.000 D  | -3.02  | 0.75  | 0.75  | -0.75 |
|       | Fu.C.17 | 0.00   | -2.46 | 1.700 | 0.00 | 0.000 | 0.000 T  | 1.00   | -2.89 | -2.89 | 2.89  |
|       | Fu.C.19 | 0.00   | -2.46 | 1.700 | 0.00 | 0.000 | 0.000 T  | 1.00   | -2.89 | -2.89 | 2.89  |
|       | Fu.C.20 | 0.00   | -2.46 | 1.700 | 0.00 | 0.000 | 0.000 D  | -5.25  | -2.89 | -2.89 | 2.89  |
|       | Fu.C.21 | 0.00   | -1.61 | 1.700 | 0.00 | 0.000 | 0.000 T  | 1.30   | -1.89 | 1.89  | 1.89  |
|       | Fu.C.23 | 0.00   | -1.61 | 1.700 | 0.00 | 0.000 | 0.000 T  | 1.30   | -1.89 | 1.89  | 1.89  |
|       | Fu.C.24 | 0.00   | -1.61 | 1.700 | 0.00 | 0.000 | 0.000 D  | -4.95  | -1.89 | 1.89  | 1.89  |
|       | Fu.C.26 | 0.00   | -5.02 | 1.700 | 0.00 | 0.000 | 0.000 D  | -10.41 | -5.90 | 5.90  | 5.90  |
|       | Fu.C.28 | 0.00   | -5.02 | 1.700 | 0.00 | 0.000 | 0.000 D  | -10.41 | -5.90 | 5.90  | 5.90  |
|       | Fu.C.32 | 0.00   | -4.17 | 1.700 | 0.00 | 0.000 | 0.000 D  | -10.11 | -4.91 | 4.91  | 4.91  |
|       | Fu.C.33 | 0.00   |       |       | 0.00 | 1.133 | 2.267 D  | -9.47  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.34 | 0.00   |       |       | 0.00 | 1.133 | 2.267 D  | -9.37  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.35 | 0.00   |       |       | 0.00 | 1.133 | 2.267 D  | -6.86  | 0.00  | 0.00  | 0.00  |
| S10   | Fu.C.1  | 1.97   | -1.32 | 3.093 | 0.00 | 1.133 | 0.000 T  | 5.68   | -2.13 | -2.13 | 1.35  |
|       | Fu.C.3  | -1.24  | 1.09  | 3.001 | 0.00 | 0.949 | 0.000 T  | 4.81   | 1.55  | 1.55  | -1.06 |
|       | Fu.C.4  | 1.26   | -1.61 | 2.890 | 0.00 | 0.725 | 0.000 T  | 5.73   | -1.99 | -1.99 | 1.49  |
|       | Fu.C.5  | 2.26   | -1.21 | 3.176 | 0.00 | 1.298 | 0.000 T  | 6.73   | -2.18 | -2.18 | 1.29  |
|       | Fu.C.7  | -0.95  | 1.21  | 2.891 | 0.00 | 0.729 | 0.000 T  | 5.85   | 1.49  | 1.49  | -1.12 |
|       | Fu.C.8  | 1.55   | -1.49 | 2.972 | 0.00 | 0.891 | 0.000 T  | 6.78   | -2.04 | -2.04 | 1.43  |
|       | Fu.C.10 | -9.14  | 4.17  | 3.240 | 0.00 | 1.426 | 0.000 D  | -1.93  | 8.22  | 8.22  | -4.60 |
|       | Fu.C.12 | -5.93  | 1.80  | 3.408 | 0.00 | 1.763 | 0.000 T  | 1.65   | 4.54  | 4.54  | -2.19 |
|       | Fu.C.16 | -5.64  | 1.90  | 3.366 | 0.00 | 1.678 | 0.000 T  | 2.69   | 4.48  | 4.48  | -2.25 |
|       | Fu.C.17 | 2.68   | -1.16 | 3.847 | 0.00 | 2.113 | 0.000 D  | -2.38  | -1.57 | 1.92  | 1.92  |
|       | Fu.C.19 | 2.66   | -1.16 | 3.845 | 0.00 | 2.103 | 0.000 D  | -2.38  | -1.57 | 1.93  | 1.93  |
|       | Fu.C.20 | -2.47  | 3.28  | 2.952 | 0.00 | 0.723 | 0.000 D  | -4.25  | 3.89  | 3.89  | -3.24 |
|       | Fu.C.21 | 2.97   | -1.09 | 3.883 | 0.00 | 2.281 | 0.000 D  | -1.34  | -1.63 | 1.87  | 1.87  |
|       | Fu.C.23 | 2.95   | -1.10 | 3.881 | 0.00 | 2.271 | 0.000 D  | -1.34  | -1.63 | 1.87  | 1.87  |
|       | Fu.C.24 | -2.18  | 3.40  | 2.909 | 0.00 | 0.639 | 0.000 D  | -3.21  | 3.84  | 3.84  | -3.29 |
|       | Fu.C.26 | -9.68  | 6.59  | 3.122 | 0.00 | 1.135 | 0.000 D  | -8.79  | 10.42 | 10.42 | -6.91 |
|       | Fu.C.28 | -9.66  | 6.60  | 3.121 | 0.00 | 1.133 | 0.000 D  | -8.79  | 10.42 | 10.42 | -6.92 |
|       | Fu.C.32 | -9.37  | 6.71  | 3.104 | 0.00 | 1.099 | 0.000 D  | -7.75  | 10.36 | 10.36 | -6.97 |
| S11   | Fu.C.33 | -10.16 | 8.13  | 3.032 | 0.00 | 1.010 | 0.000 T  | 4.38   | 12.07 | 12.07 | -8.05 |
|       | Fu.C.34 | -10.61 | 7.95  | 3.054 | 0.00 | 1.055 | 0.000 T  | 4.41   | 12.16 | 12.16 | -7.96 |
|       | Fu.C.35 | -6.51  | 5.75  | 3.000 | 0.00 | 0.945 | 0.000 T  | 2.97   | 8.18  | 8.18  | -5.60 |
|       | Fu.C.1  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 14.13  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.3  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 6.10   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.4  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 22.36  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.5  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 13.70  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.7  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 5.67   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.8  | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 21.93  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.10 | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 13.03  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.12 | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 21.06  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.16 | 0.00   |       |       | 0.00 | 0.000 | 0.000 T  | 20.62  | 0.00  | 0.00  | 0.00  |
|       | Fu.C.17 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.19 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.20 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.21 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.23 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.24 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
| S12   | Fu.C.26 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.28 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.32 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.33 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.34 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.35 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.1  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.3  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.4  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.5  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.7  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.8  | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.10 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |
|       | Fu.C.12 | 0.00   |       |       | 0.00 | 0.000 | 0.000 R  | 0.00   | 0.00  | 0.00  | 0.00  |

| Staal | B.C.    | Mb   | Mmax | xMmax | Me   | x-M0  | x-M0 T/D | Nmax  | Vb   | Vmax | Ve   |
|-------|---------|------|------|-------|------|-------|----------|-------|------|------|------|
| S12   | Fu.C.16 | 0.00 |      |       | 0.00 | 0.000 | 0.000 R  | 0.00  | 0.00 | 0.00 | 0.00 |
|       | Fu.C.17 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 10.78 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.19 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 3.32  | 0.00 | 0.00 | 0.00 |
|       | Fu.C.20 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 23.42 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.21 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 11.30 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.23 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 3.83  | 0.00 | 0.00 | 0.00 |
|       | Fu.C.24 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 23.93 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.26 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 17.51 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.28 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 24.97 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.32 | 0.00 |      |       | 0.00 | 0.000 | 0.000 T  | 25.49 | 0.00 | 0.00 | 0.00 |
|       | Fu.C.33 | 0.00 |      |       | 0.00 | 0.000 | 0.000 R  | 0.00  | 0.00 | 0.00 | 0.00 |
|       | Fu.C.34 | 0.00 |      |       | 0.00 | 0.000 | 0.000 R  | 0.00  | 0.00 | 0.00 | 0.00 |
|       | Fu.C.35 | 0.00 |      |       | 0.00 | 0.000 | 0.000 R  | 0.00  | 0.00 | 0.00 | 0.00 |
| -     | -       | kNm  | kNm  | m     | kNm  | m     | m -      | kN    | kN   | kN   | kN   |

AFB. FU.C. OPLEGREACTIES / SUPPORT REACTIONS OMHULLENDE

Fundamenteel Belastingscombinaties

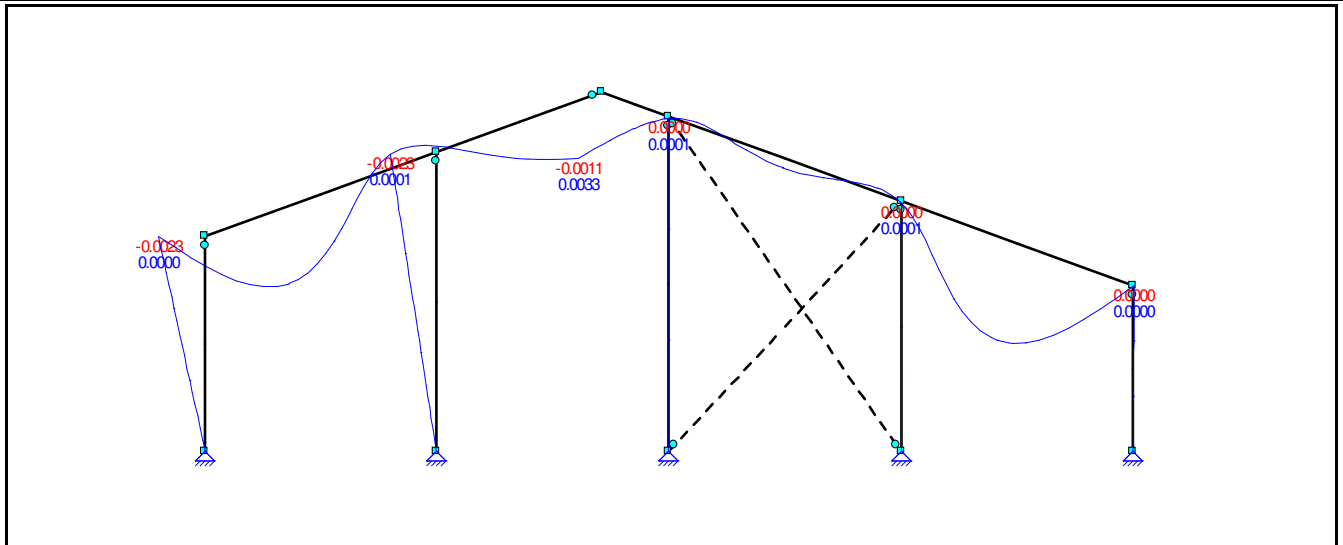


## FU.C. EXTREME OPLEGREACTIES ANALYSE

| Oplegging               | Knoop | B.C.    | Xmax   | Z      | My B.C.     | X      | Zmax   | My B.C. | X  | Z Mymax |
|-------------------------|-------|---------|--------|--------|-------------|--------|--------|---------|----|---------|
| O1                      | K1    | Fu.C.21 | 4.87   | 2.63   | 0.00Fu.C.21 | 4.87   | 2.63   | 0.00    |    |         |
| O1                      | K1    | Fu.C.10 | -7.64  | -12.01 | 0.00Fu.C.12 | -7.64  | -12.06 | 0.00    |    |         |
| O2                      | K5    | Fu.C.26 | 5.90   | -10.41 | 0.00Fu.C.8  | -3.77  | 2.14   | 0.00    |    |         |
| O2                      | K5    | Fu.C.5  | -3.77  | 1.99   | 0.00Fu.C.28 | 5.90   | -10.41 | 0.00    |    |         |
| O3                      | K2    |         |        |        | Fu.C.20     | 0.00   | 3.87   | 0.00    |    |         |
| O3                      | K2    |         |        |        | Fu.C.35     | 0.00   | -24.07 | 0.00    |    |         |
| O4                      | K3    |         |        |        | Fu.C.4      | -15.20 | 23.34  | 0.00    |    |         |
| O4                      | K3    | Fu.C.4  | -15.20 | 23.34  | 0.00Fu.C.32 | 0.00   | -30.39 | 0.00    |    |         |
| O5                      | K4    | Fu.C.32 | 14.52  | 0.13   | 0.00Fu.C.21 | 6.44   | 13.84  | 0.00    |    |         |
| O5                      | K4    |         |        |        | Fu.C.12     | 0.00   | -31.76 | 0.00    |    |         |
| Globale extreme waarden |       |         |        |        |             |        |        |         |    |         |
| O5                      | K4    | Fu.C.32 | 14.52  | 0.13   | 0.00        |        |        |         |    |         |
| O4                      | K3    | Fu.C.4  | -15.20 | 23.34  | 0.00        |        |        |         |    |         |
| O4                      | K3    |         |        |        | Fu.C.4      | -15.20 | 23.34  | 0.00    |    |         |
| O5                      | K4    |         |        |        | Fu.C.12     | 0.00   | -31.76 | 0.00    |    |         |
| -                       | -     | -       | kN     | kN     | kNm -       | kN     | kN     | kNm     | kN | kN kNm  |

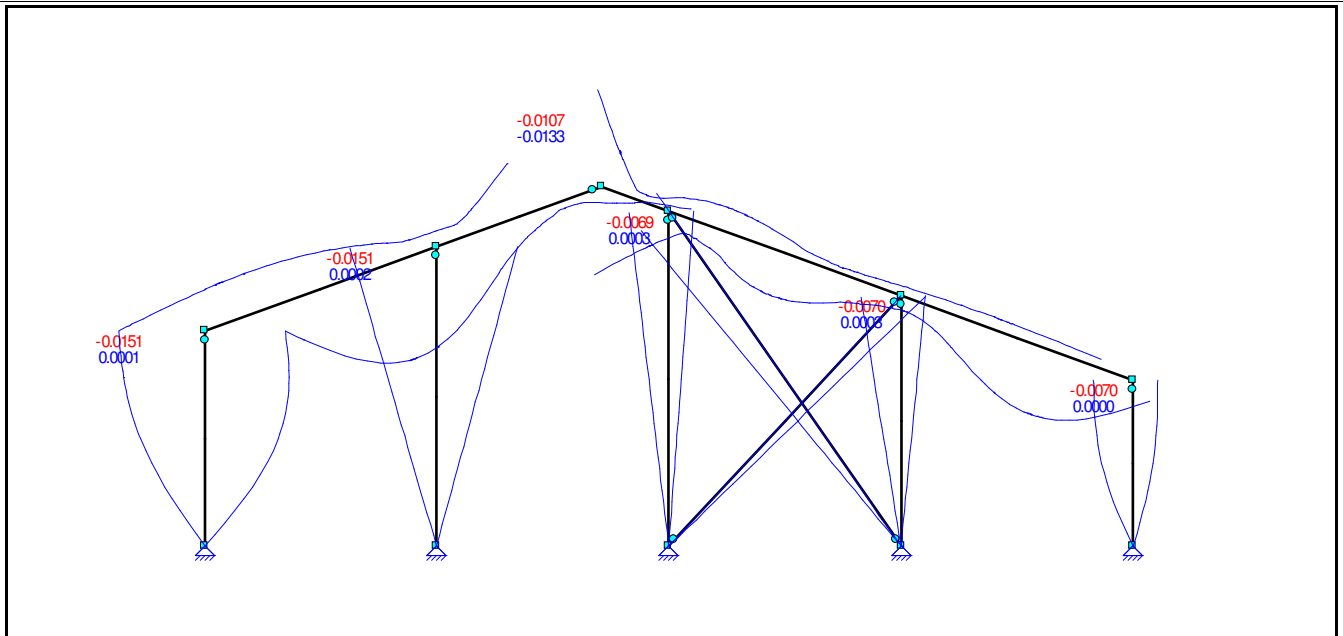
AFB. KA.C.(W1) VERPLAATSINGEN / DISPLACEMENTS

Ka.C.(w1) Belastingscombinaties



AFB. KA.C. VERPLAATSINGEN / DISPLACEMENTS OMHULLENDE

Karakteristiek Belastingscombinaties



## KA.C. KNOOPVERPLAATSINGEN ANALYSE

| Knoop | B.C.      | X      | Z      | Yr         |
|-------|-----------|--------|--------|------------|
| K1    | Ka.C.(w1) | 0.0000 | 0.0000 | 0.527e-03  |
|       | Ka.C.2    | 0.0000 | 0.0000 | -2.493e-03 |
|       | Ka.C.5    | 0.0000 | 0.0000 | -3.641e-03 |
|       | Ka.C.6    | 0.0000 | 0.0000 | -1.451e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -2.600e-03 |
|       | Ka.C.11   | 0.0000 | 0.0000 | -6.872e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -7.421e-03 |
|       | Ka.C.17   | 0.0000 | 0.0000 | -6.380e-03 |
|       | Ka.C.18   | 0.0000 | 0.0000 | 4.378e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | 5.071e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000 | 5.430e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 6.124e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000 | 0.892e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 1.377e-03  |
|       | Ka.C.31   | 0.0000 | 0.0000 | 1.945e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 2.430e-03  |
|       | Ka.C.34   | 0.0000 | 0.0000 | 1.247e-03  |
|       | Ka.C.35   | 0.0000 | 0.0000 | 0.775e-03  |
|       | Ka.C.36   | 0.0000 | 0.0000 | 1.358e-03  |

| Knoop | B.C.      | X      | Z      | Yr         |
|-------|-----------|--------|--------|------------|
| K2    | Ka.C.(w1) | 0.0000 | 0.0000 | 0.374e-03  |
|       | Ka.C.2    | 0.0000 | 0.0000 | -0.308e-03 |
|       | Ka.C.5    | 0.0000 | 0.0000 | -1.134e-03 |
|       | Ka.C.6    | 0.0000 | 0.0000 | -0.073e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -0.899e-03 |
|       | Ka.C.11   | 0.0000 | 0.0000 | -1.909e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -2.304e-03 |
|       | Ka.C.17   | 0.0000 | 0.0000 | -2.069e-03 |
|       | Ka.C.18   | 0.0000 | 0.0000 | 1.721e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | 2.219e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000 | 1.964e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 2.462e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000 | 0.761e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 1.111e-03  |
|       | Ka.C.31   | 0.0000 | 0.0000 | 1.004e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 1.354e-03  |
|       | Ka.C.34   | 0.0000 | 0.0000 | 0.883e-03  |
|       | Ka.C.35   | 0.0000 | 0.0000 | 0.548e-03  |
| K3    | Ka.C.(w1) | 0.0000 | 0.0000 | -0.002e-03 |
|       | Ka.C.2    | 0.0000 | 0.0000 | -0.395e-03 |
|       | Ka.C.5    | 0.0000 | 0.0000 | -0.634e-03 |
|       | Ka.C.6    | 0.0000 | 0.0000 | -0.381e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -0.620e-03 |
|       | Ka.C.11   | 0.0000 | 0.0000 | -0.409e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -0.627e-03 |
|       | Ka.C.17   | 0.0000 | 0.0000 | -0.612e-03 |
|       | Ka.C.18   | 0.0000 | 0.0000 | 0.430e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | 0.928e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000 | 0.452e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 0.950e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000 | 0.703e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 0.991e-03  |
|       | Ka.C.31   | 0.0000 | 0.0000 | 0.725e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 1.013e-03  |
|       | Ka.C.34   | 0.0000 | 0.0000 | -0.004e-03 |
|       | Ka.C.35   | 0.0000 | 0.0000 | -0.006e-03 |
| K4    | Ka.C.(w1) | 0.0000 | 0.0000 | -0.002e-03 |
|       | Ka.C.2    | 0.0000 | 0.0000 | -0.518e-03 |
|       | Ka.C.5    | 0.0000 | 0.0000 | -0.822e-03 |
|       | Ka.C.6    | 0.0000 | 0.0000 | -0.502e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -0.806e-03 |
|       | Ka.C.11   | 0.0000 | 0.0000 | -0.511e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -0.795e-03 |
|       | Ka.C.17   | 0.0000 | 0.0000 | -0.778e-03 |
|       | Ka.C.18   | 0.0000 | 0.0000 | 0.562e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | 1.234e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000 | 0.589e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 1.260e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000 | 0.954e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 1.336e-03  |
|       | Ka.C.31   | 0.0000 | 0.0000 | 0.980e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 1.362e-03  |
|       | Ka.C.34   | 0.0000 | 0.0000 | -0.005e-03 |
|       | Ka.C.35   | 0.0000 | 0.0000 | -0.007e-03 |
| K5    | Ka.C.(w1) | 0.0000 | 0.0000 | -0.011e-03 |
|       | Ka.C.2    | 0.0000 | 0.0000 | -1.712e-03 |
|       | Ka.C.5    | 0.0000 | 0.0000 | -2.178e-03 |
|       | Ka.C.6    | 0.0000 | 0.0000 | -2.018e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -2.483e-03 |
|       | Ka.C.11   | 0.0000 | 0.0000 | -0.713e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -1.144e-03 |
|       | Ka.C.17   | 0.0000 | 0.0000 | -1.449e-03 |
|       | Ka.C.18   | 0.0000 | 0.0000 | 1.802e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | 2.812e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000 | 1.512e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 2.522e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000 | 3.381e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 3.957e-03  |

|                           |  |                          |
|---------------------------|--|--------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 2 - Eindspant</b> |
|---------------------------|--|--------------------------|

| <b>Knoop</b> | <b>B.C.</b> | <b>X</b> | <b>Z</b> | <b>Yr</b>  |
|--------------|-------------|----------|----------|------------|
| K5           | Ka.C.31     | 0.0000   | 0.0000   | 3.090e-03  |
|              | Ka.C.33     | 0.0000   | 0.0000   | 3.667e-03  |
|              | Ka.C.34     | 0.0000   | 0.0000   | -0.026e-03 |
|              | Ka.C.35     | 0.0000   | 0.0000   | -0.029e-03 |
|              | Ka.C.36     | 0.0000   | 0.0000   | -0.016e-03 |
| K6           | Ka.C.(w1)   | 0.0000   | 0.0000   | 3.466e-03  |
|              | Ka.C.2      | 0.0027   | 0.0000   | -0.013e-03 |
|              | Ka.C.5      | 0.0043   | 0.0000   | -0.346e-03 |
|              | Ka.C.6      | 0.0026   | 0.0000   | 0.127e-03  |
|              | Ka.C.9      | 0.0042   | 0.0000   | -0.206e-03 |
|              | Ka.C.11     | 0.0027   | 0.0000   | 4.192e-03  |
|              | Ka.C.13     | 0.0042   | 0.0000   | 1.997e-03  |
|              | Ka.C.17     | 0.0041   | 0.0000   | 2.137e-03  |
|              | Ka.C.18     | -0.0029  | 0.0000   | 0.445e-03  |
|              | Ka.C.21     | -0.0063  | 0.0000   | 4.332e-03  |
|              | Ka.C.22     | -0.0030  | 0.0000   | 0.586e-03  |
|              | Ka.C.25     | -0.0065  | 0.0000   | 4.473e-03  |
|              | Ka.C.27     | -0.0049  | 0.0000   | 6.669e-03  |
|              | Ka.C.29     | -0.0069  | 0.0000   | 6.678e-03  |
|              | Ka.C.31     | -0.0050  | 0.0000   | 6.811e-03  |
|              | Ka.C.33     | -0.0070  | 0.0000   | 6.819e-03  |
|              | Ka.C.34     | 0.0001   | 0.0000   | 8.195e-03  |
|              | Ka.C.35     | 0.0001   | 0.0000   | 7.976e-03  |
| K7           | Ka.C.36     | 0.0001   | 0.0000   | 6.049e-03  |
|              | Ka.C.(w1)   | -0.0023  | 0.0000   | -3.215e-03 |
|              | Ka.C.2      | 0.0019   | 0.0000   | 0.383e-03  |
|              | Ka.C.5      | 0.0070   | 0.0000   | -4.176e-03 |
|              | Ka.C.6      | 0.0004   | 0.0000   | 0.540e-03  |
|              | Ka.C.9      | 0.0055   | 0.0000   | -4.019e-03 |
|              | Ka.C.11     | 0.0117   | 0.0001   | -8.276e-03 |
|              | Ka.C.13     | 0.0141   | 0.0001   | -8.388e-03 |
|              | Ka.C.17     | 0.0127   | 0.0001   | -8.231e-03 |
|              | Ka.C.18     | -0.0106  | 0.0000   | 0.894e-03  |
|              | Ka.C.21     | -0.0136  | 0.0000   | 0.856e-03  |
|              | Ka.C.22     | -0.0121  | 0.0000   | 1.051e-03  |
|              | Ka.C.25     | -0.0151  | 0.0000   | 1.013e-03  |
|              | Ka.C.27     | -0.0047  | 0.0000   | -5.518e-03 |
|              | Ka.C.29     | -0.0068  | 0.0000   | -3.355e-03 |
|              | Ka.C.31     | -0.0062  | 0.0000   | -5.361e-03 |
|              | Ka.C.33     | -0.0083  | 0.0000   | -3.198e-03 |
|              | Ka.C.34     | -0.0055  | 0.0000   | -7.601e-03 |
| K8           | Ka.C.35     | -0.0034  | 0.0000   | -5.462e-03 |
|              | Ka.C.36     | -0.0060  | 0.0000   | -7.548e-03 |
|              | Ka.C.(w1)   | 0.0000   | 0.0001   | -1.138e-03 |
|              | Ka.C.2      | 0.0027   | 0.0001   | -0.138e-03 |
|              | Ka.C.5      | 0.0042   | 0.0002   | 0.571e-03  |
|              | Ka.C.6      | 0.0026   | 0.0001   | -0.420e-03 |
|              | Ka.C.9      | 0.0041   | 0.0002   | 0.289e-03  |
|              | Ka.C.11     | 0.0026   | 0.0003   | 0.840e-03  |
|              | Ka.C.13     | 0.0041   | 0.0003   | 1.469e-03  |
|              | Ka.C.17     | 0.0040   | 0.0003   | 1.187e-03  |
|              | Ka.C.18     | -0.0029  | 0.0000   | -1.370e-03 |
|              | Ka.C.21     | -0.0063  | 0.0001   | -2.249e-03 |
|              | Ka.C.22     | -0.0030  | 0.0000   | -1.652e-03 |
|              | Ka.C.25     | -0.0065  | 0.0001   | -2.531e-03 |
|              | Ka.C.27     | -0.0049  | 0.0002   | -1.334e-03 |
|              | Ka.C.29     | -0.0068  | 0.0002   | -1.351e-03 |
|              | Ka.C.31     | -0.0050  | 0.0002   | -1.616e-03 |
|              | Ka.C.33     | -0.0070  | 0.0002   | -1.632e-03 |
| K9           | Ka.C.34     | 0.0000   | 0.0002   | -2.690e-03 |
|              | Ka.C.35     | 0.0000   | 0.0002   | -2.250e-03 |
|              | Ka.C.36     | 0.0000   | 0.0001   | -2.354e-03 |
|              | Ka.C.(w1)   | -0.0023  | 0.0001   | 0.628e-03  |
|              | Ka.C.2      | 0.0019   | 0.0000   | -0.294e-03 |
|              | Ka.C.5      | 0.0069   | 0.0001   | 1.933e-03  |
|              | Ka.C.6      | 0.0004   | 0.0000   | -0.613e-03 |
|              | Ka.C.9      | 0.0055   | 0.0001   | 1.615e-03  |
|              | Ka.C.11     | 0.0117   | 0.0002   | 4.559e-03  |
|              | Ka.C.13     | 0.0141   | 0.0002   | 4.784e-03  |
|              | Ka.C.17     | 0.0127   | 0.0002   | 4.465e-03  |
|              | Ka.C.18     | -0.0105  | 0.0000   | -1.564e-03 |

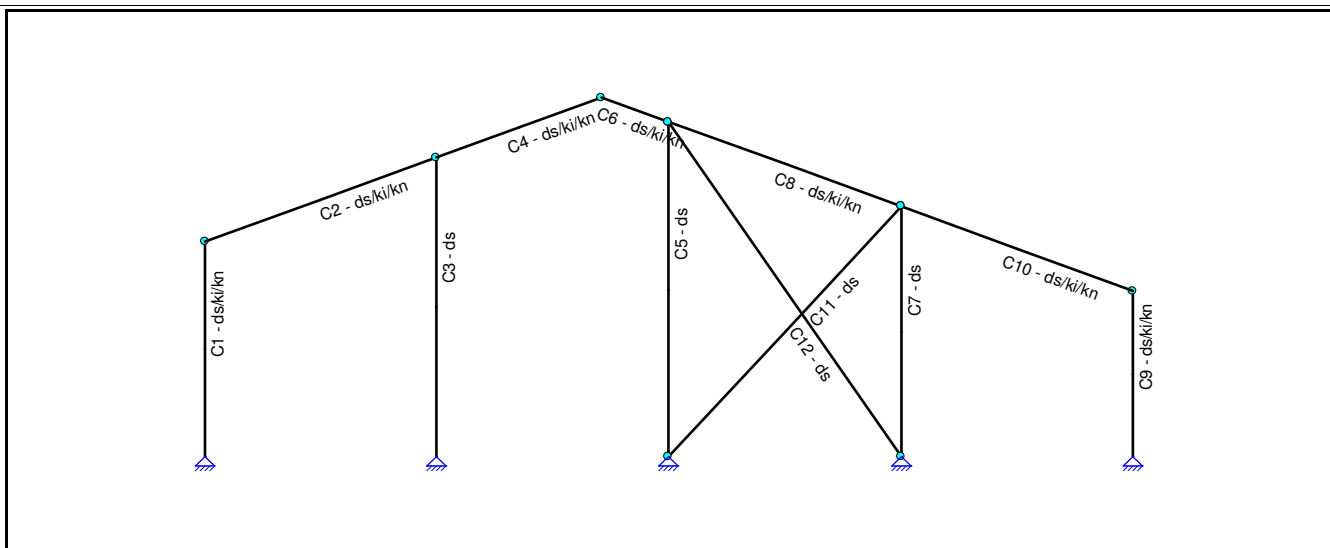
|                           |  |                          |
|---------------------------|--|--------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 2 - Eindspant</b> |
|---------------------------|--|--------------------------|

| <b>Knoop</b> | <b>B.C.</b> | <b>X</b> | <b>Z</b> | <b>Yr</b>   |
|--------------|-------------|----------|----------|-------------|
| K9           | Ka.C.21     | -0.0136  | 0.0000   | -1.488e-03  |
|              | Ka.C.22     | -0.0120  | 0.0000   | -1.882e-03  |
|              | Ka.C.25     | -0.0151  | 0.0000   | -1.806e-03  |
|              | Ka.C.27     | -0.0047  | 0.0002   | 1.882e-03   |
|              | Ka.C.29     | -0.0068  | 0.0001   | 1.362e-03   |
|              | Ka.C.31     | -0.0061  | 0.0002   | 1.563e-03   |
|              | Ka.C.33     | -0.0083  | 0.0001   | 1.043e-03   |
|              | Ka.C.34     | -0.0054  | 0.0002   | 1.484e-03   |
|              | Ka.C.35     | -0.0034  | 0.0002   | 1.164e-03   |
| K10          | Ka.C.36     | -0.0059  | 0.0002   | 1.377e-03   |
|              | Ka.C.(w1)   | 0.0000   | 0.0001   | 1.128e-03   |
|              | Ka.C.2      | 0.0027   | 0.0000   | 0.564e-03   |
|              | Ka.C.5      | 0.0043   | 0.0000   | -1.961e-03  |
|              | Ka.C.6      | 0.0026   | 0.0000   | 1.563e-03   |
|              | Ka.C.9      | 0.0042   | 0.0000   | -0.962e-03  |
|              | Ka.C.11     | 0.0028   | 0.0000   | -7.563e-03  |
|              | Ka.C.13     | 0.0043   | 0.0000   | -7.918e-03  |
|              | Ka.C.17     | 0.0042   | 0.0000   | -6.919e-03  |
|              | Ka.C.18     | -0.0029  | 0.0001   | 5.488e-03   |
|              | Ka.C.21     | -0.0064  | 0.0002   | 4.708e-03   |
|              | Ka.C.22     | -0.0031  | 0.0001   | 6.486e-03   |
|              | Ka.C.25     | -0.0065  | 0.0003   | 5.707e-03   |
|              | Ka.C.27     | -0.0048  | 0.0002   | -1.334e-03  |
|              | Ka.C.29     | -0.0068  | 0.0003   | -1.251e-03  |
|              | Ka.C.31     | -0.0050  | 0.0002   | -0.335e-03  |
|              | Ka.C.33     | -0.0069  | 0.0003   | -0.252e-03  |
|              | Ka.C.34     | 0.0000   | 0.0002   | 2.666e-03   |
|              | Ka.C.35     | 0.0000   | 0.0002   | 1.117e-03   |
|              | Ka.C.36     | 0.0000   | 0.0002   | 3.447e-03   |
| K11          | Ka.C.(w1)   | -0.0011  | 0.0033   | 2.838e-03   |
|              | Ka.C.2      | 0.0023   | 0.0011   | 1.011e-03   |
|              | Ka.C.5      | 0.0056   | -0.0035  | -2.752e-03  |
|              | Ka.C.6      | 0.0015   | 0.0030   | 2.503e-03   |
|              | Ka.C.9      | 0.0048   | -0.0017  | -1.260e-03  |
|              | Ka.C.11     | 0.0072   | -0.0120  | -9.465e-03  |
|              | Ka.C.13     | 0.0091   | -0.0133  | -10.545e-03 |
|              | Ka.C.17     | 0.0084   | -0.0115  | -9.052e-03  |
|              | Ka.C.18     | -0.0067  | 0.0104   | 8.489e-03   |
|              | Ka.C.21     | -0.0099  | 0.0100   | 8.211e-03   |
|              | Ka.C.22     | -0.0075  | 0.0123   | 9.981e-03   |
|              | Ka.C.25     | -0.0107  | 0.0118   | 9.702e-03   |
|              | Ka.C.27     | -0.0047  | 0.0000   | 0.297e-03   |
|              | Ka.C.29     | -0.0068  | 0.0002   | 0.416e-03   |
|              | Ka.C.31     | -0.0055  | 0.0019   | 1.789e-03   |
|              | Ka.C.33     | -0.0076  | 0.0020   | 1.908e-03   |
|              | Ka.C.34     | -0.0027  | 0.0077   | 6.708e-03   |
|              | Ka.C.35     | -0.0017  | 0.0049   | 4.392e-03   |
|              | Ka.C.36     | -0.0030  | 0.0083   | 7.088e-03   |
| -            | -           | m        | m        | rad         |

# KA.C. EXTREME DOORBUIGINGEN ANALYSE

| <b>Staaf</b> | <b>B.C.</b> | <b>Knoop Begin</b> |          | <b>Staaf</b>  |                | <b>Knoop Eind</b> |          |
|--------------|-------------|--------------------|----------|---------------|----------------|-------------------|----------|
|              |             | <b>X</b>           | <b>Z</b> | <b>Z'afst</b> | <b>Z'</b>      | <b>X</b>          | <b>Z</b> |
| S1           | Ka.C.13     | 0,000              | 0,000    | 2.200         | <b>0.0058</b>  | 0,014             | 0,000    |
| S1           | Ka.C.22     | 0,000              | 0,000    | 2.200         | <b>-0.0037</b> | -0,012            | 0,000    |
| S2           | Ka.C.13     | 0,014              | 0,000    | 2.345         | <b>0.0121</b>  | 0,014             | 0,000    |
| S2           | Ka.C.22     | -0,012             | 0,000    | 2.839         | <b>-0.0020</b> | -0,012            | 0,000    |
| S4           | Ka.C.13     | 0,014              | 0,000    | 2.186         | <b>0.0015</b>  | 0,009             | -0,013   |
| S4           | Ka.C.22     | -0,012             | 0,000    | 1.737         | <b>-0.0015</b> | -0,008            | 0,012    |
| S6           | Ka.C.13     | 0,009              | -0,013   | 0.841         | <b>0.0005</b>  | 0,004             | 0,000    |
| S6           | Ka.C.25     | -0,011             | 0,012    | 0.855         | <b>-0.0007</b> | -0,007            | 0,000    |
| S8           | Ka.C.11     | 0,003              | 0,000    | 2.085         | <b>0.0085</b>  | 0,003             | 0,000    |
| S8           | Ka.C.22     | -0,003             | 0,000    | 1.863         | <b>-0.0052</b> | -0,003            | 0,000    |
| S9           | Ka.C.9      | 0,000              | 0,000    | 1.700         | <b>0.0013</b>  | 0,004             | 0,000    |
| S9           | Ka.C.29     | 0,000              | 0,000    | 1.700         | <b>-0.0021</b> | -0,007            | 0,000    |
| S10          | Ka.C.5      | 0,004              | 0,000    | 2.366         | <b>-0.0007</b> | 0,004             | 0,000    |
| S10          | Ka.C.34     | 0,000              | 0,000    | 2.799         | <b>0.0114</b>  | 0,000             | 0,000    |
| -            | -           | m                  | m        | m             | m              | m                 | m        |

## AFB. STAALCONTROLE / STEEL CODE CHECK



## SAMENSTELLING CONSTRUCTIEDELEN

| Constructiedeel | Staal/staven |
|-----------------|--------------|
| C1              | S1           |
| C2              | S2           |
| C3              | S3           |
| C4              | S4           |
| C5              | S5           |
| C6              | S6           |
| C7              | S7           |
| C8              | S8           |
| C9              | S9           |
| C10             | S10          |
| C11             | S11          |
| C12             | S12          |

## KNIKLENGTEGEGEVENS

| Staal                  | Profiel | Lokale Y-as |              |       |           | Lokale Z-as  |       |           |
|------------------------|---------|-------------|--------------|-------|-----------|--------------|-------|-----------|
|                        |         | Lsys        | methode      | Lbuc  | Lbuc/Lsys | methode      | Lbuc  | Lbuc/Lsys |
| C1 - V1 (0.000-4.400)  | P1      | 4.400       | Cons. gesch. | 4.400 | 1.00      | Cons. gesch. | 4.400 | 1.00      |
| C2 - V1 (0.000-5.053)  | P2      | 5.050       | Cons. gesch. | 5.053 | 1.00      | Cons. gesch. | 5.053 | 1.00      |
| C4 - V1 (0.000-3.591)  | P2      | 3.590       | Cons. gesch. | 3.591 | 1.00      | Cons. gesch. | 3.591 | 1.00      |
| C6 - V1 (0.000-1.463)  | P2      | 1.460       | Cons. gesch. | 1.463 | 1.00      | Cons. gesch. | 1.463 | 1.00      |
| C8 - V1 (0.000-5.054)  | P2      | 5.050       | Cons. gesch. | 5.054 | 1.00      | Cons. gesch. | 5.054 | 1.00      |
| C9 - V1 (0.000-3.400)  | P1      | 3.400       | Cons. gesch. | 3.400 | 1.00      | Cons. gesch. | 3.400 | 1.00      |
| C10 - V1 (0.000-5.054) | P2      | 5.050       | Cons. gesch. | 5.054 | 1.00      | Cons. gesch. | 5.054 | 1.00      |
| -                      | -       | m           | -            | m     | -         | -            | m     | -         |

## KIPSTEUNENGEDEVENS

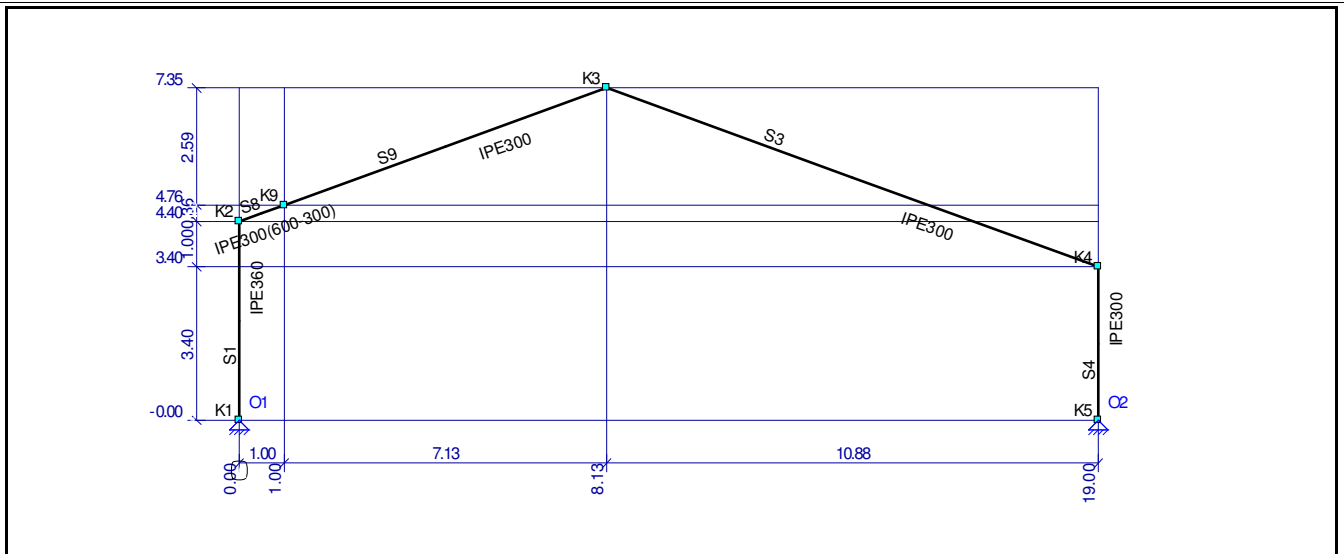
| Staal                  | Profiel | Begin:   | Eind:    | Kipsteunen boven | Kipsteunen onder | Aangrijphoogte |
|------------------------|---------|----------|----------|------------------|------------------|----------------|
| C1 - V1 (0.000-4.400)  | P1      | Gesteund | Gesteund |                  |                  | Centrum        |
| C2 - V1 (0.000-5.053)  | P2      | Gesteund | Gesteund |                  |                  | Centrum        |
| C4 - V1 (0.000-3.591)  | P2      | Gesteund | Gesteund |                  |                  | Centrum        |
| C6 - V1 (0.000-1.463)  | P2      | Gesteund | Gesteund |                  |                  | Centrum        |
| C8 - V1 (0.000-5.054)  | P2      | Gesteund | Gesteund |                  |                  | Centrum        |
| C9 - V1 (0.000-3.400)  | P1      | Gesteund | Gesteund |                  |                  | Centrum        |
| C10 - V1 (0.000-5.054) | P2      | Gesteund | Gesteund |                  |                  | Centrum        |
| -                      | -       | -        | -        | m                | m                | -              |

## UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

| Veld                 | Toetsing    | Combinatie | Artikel                   | UC max |
|----------------------|-------------|------------|---------------------------|--------|
| C1-V1 (0.000-4.400)  | Doorsnede   | Fu.C.10    | NEN-EN1993-1-1(6.12)      | 0,21   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.12    | NEN-EN1993-1-1(6.46)      | 0,02   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.12    | NEN-EN1993-1-1(6.46)      | 0,04   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.12    | NEN-EN1993-1-1(6.61&6.62) | 0,30   |
| C1-V1 (0.000-4.400)  | Kiptoetsing | Fu.C.10    | NEN-EN1993-1-1(6.54)      | 0,26   |
| C2-V1 (0.000-5.053)  | Doorsnede   | Fu.C.35    | NEN-EN1993-1-1(6.12)      | 0,41   |
| C2-V1 (0.000-5.053)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.46)      | 0,01   |
| C2-V1 (0.000-5.053)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.46)      | 0,02   |
| C2-V1 (0.000-5.053)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.61&6.62) | 0,49   |
| C2-V1 (0.000-5.053)  | Kiptoetsing | Fu.C.35    | NEN-EN1993-1-1(6.54)      | 0,48   |
| C3-V1 (0.000-6.125)  | Doorsnede   | Fu.C.35    | NEN-EN1993-1-1(6.9)       | 0,04   |
| C4-V1 (0.000-3.591)  | Doorsnede   | Fu.C.35    | NEN-EN1993-1-1(6.12)      | 0,41   |
| C4-V1 (0.000-3.591)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.46)      | 0,01   |
| C4-V1 (0.000-3.591)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.46)      | 0,02   |
| C4-V1 (0.000-3.591)  | Stabiliteit | Fu.C.35    | NEN-EN1993-1-1(6.61&6.62) | 0,45   |
| C4-V1 (0.000-3.591)  | Kiptoetsing | Fu.C.35    | NEN-EN1993-1-1(6.54)      | 0,44   |
| C5-V1 (0.000-6.851)  | Doorsnede   | Fu.C.32    | NEN-EN1993-1-1(6.9)       | 0,05   |
| C6-V1 (0.000-1.463)  | Doorsnede   | Fu.C.33    | NEN-EN1993-1-1(6.12)      | 0,36   |
| C6-V1 (0.000-1.463)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,01   |
| C6-V1 (0.000-1.463)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,01   |
| C6-V1 (0.000-1.463)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.61&6.62) | 0,37   |
| C6-V1 (0.000-1.463)  | Kiptoetsing | Fu.C.35    | NEN-EN1993-1-1(6.54)      | 0,00   |
| C7-V1 (0.000-5.125)  | Doorsnede   | Fu.C.12    | NEN-EN1993-1-1(6.9)       | 0,06   |
| C8-V1 (0.000-5.054)  | Doorsnede   | Fu.C.34    | NEN-EN1993-1-1(6.12)      | 0,38   |
| C8-V1 (0.000-5.054)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,05   |
| C8-V1 (0.000-5.054)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,11   |
| C8-V1 (0.000-5.054)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.61&6.62) | 0,49   |
| C8-V1 (0.000-5.054)  | Kiptoetsing | Fu.C.34    | NEN-EN1993-1-1(6.54)      | 0,43   |
| C9-V1 (0.000-3.400)  | Doorsnede   | Fu.C.26    | NEN-EN1993-1-1(6.12)      | 0,12   |
| C9-V1 (0.000-3.400)  | Stabiliteit | Fu.C.28    | NEN-EN1993-1-1(6.46)      | 0,02   |
| C9-V1 (0.000-3.400)  | Stabiliteit | Fu.C.28    | NEN-EN1993-1-1(6.46)      | 0,03   |
| C9-V1 (0.000-3.400)  | Stabiliteit | Fu.C.28    | NEN-EN1993-1-1(6.61&6.62) | 0,17   |
| C9-V1 (0.000-3.400)  | Kiptoetsing | Fu.C.26    | NEN-EN1993-1-1(6.54)      | 0,14   |
| C10-V1 (0.000-5.054) | Doorsnede   | Fu.C.34    | NEN-EN1993-1-1(6.12)      | 0,38   |
| C10-V1 (0.000-5.054) | Stabiliteit | Fu.C.34    | NEN-EN1993-1-1(6.46)      | 0,01   |
| C10-V1 (0.000-5.054) | Stabiliteit | Fu.C.34    | NEN-EN1993-1-1(6.46)      | 0,02   |
| C10-V1 (0.000-5.054) | Stabiliteit | Fu.C.34    | NEN-EN1993-1-1(6.61&6.62) | 0,47   |
| C10-V1 (0.000-5.054) | Kiptoetsing | Fu.C.34    | NEN-EN1993-1-1(6.54)      | 0,45   |
| C11-V1 (0.000-6.988) | Doorsnede   | Fu.C.4     | NEN-EN1993-1-1(6.5)       | 0,47   |
| C12-V1 (0.000-8.336) | Doorsnede   | Fu.C.32    | NEN-EN1993-1-1(6.5)       | 0,54   |

| Wopereis Staalbouw |                                                                                                                             | Pos 3 - Tussenspant |            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Projectnaam        |                                                                                                                             | Projectnummer       |            |
| Omschrijving       |                                                                                                                             | Constructeur        |            |
| Opdrachtgever      |                                                                                                                             | Eenheden            | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\ Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161003 - Pos 3 - Tussenspant.mxf |                     |            |

#### AFB. GEOMETRIE RAAMWERK



#### STAVEN

| Staaft | Knoop<br>B | B   | Scharnier<br>E | Knoop<br>E | Profiel | X-B    | Z-B    | X-E    | Z-E    | Lengte |
|--------|------------|-----|----------------|------------|---------|--------|--------|--------|--------|--------|
| S1     | K1         | NVM | NVM            | K2         | P1      | 0,000  | 0,000  | 0,000  | -4,400 | 4,400  |
| S3     | K3         | NVM | NVM            | K4         | P2      | 8,125  | -7,350 | 19,000 | -3,400 | 11,570 |
| S4     | K5         | NVM | NVM            | K4         | P2      | 19,000 | 0,000  | 19,000 | -3,400 | 3,400  |
| S8     | K2         | NVM | NVM            | K9         | P3      | 0,000  | -4,400 | 1,000  | -4,763 | 1,064  |
| S9     | K9         | NVM | NVM            | K3         | P2      | 1,000  | -4,763 | 8,125  | -7,350 | 7,580  |
| -      | -          | -   | -              | -          | -       | m      | m      | m      | m      | m      |

#### PROFIELEN

| Profiel | Profielnaam     | Oppervlakte | ly         | Materiaal | Hoek |
|---------|-----------------|-------------|------------|-----------|------|
| P1      | IPE360          | 7.2729e-03  | 1.6266e-04 | S235      | 0    |
| P2      | IPE300          | 5.3812e-03  | 8.3561e-05 | S235      | 0    |
| P3      | IPE300(600-300) | 7.5112e-03  | 4.0912e-04 | S235      | 0    |
| -       | -               | m2          | m4         | -         | °    |

#### PROFIELVORMEN

| Profiel | Verl. h. | hB    | hE    | tf    | tw    | tf2   | B     | bL    | bR Raatl. | Hoogte |
|---------|----------|-------|-------|-------|-------|-------|-------|-------|-----------|--------|
| P3      | Ja       | 0.600 | 0.300 | 0.011 | 0.007 | 0.011 | 0.150 | 0.000 | 0.000 Nee | 0.000  |
| -       | -        | m     | m     | m     | m     | m     | m     | m     | m -       | m      |

#### MATERIALEN

| Materiaal | Dichtheid | E-Modulus  | Uitzettingcoëff |
|-----------|-----------|------------|-----------------|
| S235      | 78.50     | 2.1000e+08 | 12.0000e-06     |
| -         | kN/m3     | kN/m2      | C°m             |

#### PROFIELEN (GEAVANCEERD)

| Profiel | Ivv        | Avz        | Trek | Druk | Kabelelement | Voorspanning |
|---------|------------|------------|------|------|--------------|--------------|
| P3      | 6.0467e-06 | 4.6982e-03 | Ja   | Ja   | Nee          | 0.00         |
| -       | m4         | m2         | -    | -    | -            | kN           |

#### OPLEGGINGEN

| Oplegging | Knoop | X    | Z    | Yr     | HoekYr |
|-----------|-------|------|------|--------|--------|
| O1        | K1    | vast | vast | vrij   | 0      |
| O2        | K5    | vast | vast | vrij   | 0      |
| -         | -     | kN/m | kN/m | kNmrad | °      |

## GEWICHTSBEREKENING

| Index      | Staven                                                           | Berekening                                                                | Waarde Eenheden |
|------------|------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|
|            | Belastingen en vervormingen                                      | NEN-EN1991                                                                |                 |
| Lsys1      | Systeemmaat                                                      | 5.00                                                                      | 5,00 [m]        |
| Height1    | Totale hoogte van constructie                                    | 7.35                                                                      | 7,35 [m]        |
| Width1     | Totale breedte van constructie                                   | 19.00                                                                     | 19,00 [m]       |
| <b>LR1</b> |                                                                  |                                                                           |                 |
|            | Permanente Belasting                                             | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
|            | Hellend dak (S2,S3)                                              |                                                                           |                 |
| Pp1        | Golfplaten en gordingen (0.25)                                   | 0.25                                                                      | 0,25 [kN/m²]    |
| q1         | Permanente Belasting                                             | Pp1*Lsys1                                                                 | 1,25 [kN/m]     |
| <b>LR2</b> |                                                                  |                                                                           |                 |
|            | Opgelegde belastingen                                            | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
|            | S2-S3                                                            |                                                                           |                 |
| qk1        | Opgelegde belastingen (qk)                                       | NEN-EN1991-1-1#6.3(Cat=H, Hoek=20)                                        | 0,00 [kN/m²]    |
| q2         | Opgelegde belastingen (q) (Lsys=5.00)                            | qk1 * Min(5.0, Lsys1)                                                     | 0,00 [kN/m]     |
| <b>LR3</b> |                                                                  |                                                                           |                 |
|            | Windbelasting van Links + Overdruk                               | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height2    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width2     | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width3     | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A1         | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co1        | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd1      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width2,h=Height2,T<br>errein=Onbebouwd,Regio=3,C0=Co1) | 0,85            |
| Cpe1       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| Cpi1       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=<br>0.00,Over=True)                   | 0,20            |
| Z1         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                      | 7,35 [m]        |
| Qp1        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebo<br>uwd,Regio=3,C0=Co1)               | 0,63 [kN/m²]    |
| q3         | Interne druk; Verdeelde element belasting (q)                    | (Cpi1*Qp1) * Lsys1                                                        | 0,63 [kN/m]     |
| Cpe2       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| q4         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*Cpe2*CsCd1) * Lsys1                                                  | 2,14 [kN/m]     |
| Cpe3       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39)                           | -0,50           |
| C1         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe2-Cpe3) * 0.85                                                        | 1,11            |
| q5         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*(Cpe3+C1)*CsCd1) * Lsys1                                             | 1,62 [kN/m]     |
| Cpe4       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=G,Hoek=19.95)                    | -0,70           |
| q6         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe4*CsCd1) * Lsys1                                                  | -1,87 [kN/m]    |
| Cpe5       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=H,Hoek=19.95)                    | -0,27           |
| q7         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe5*CsCd1) * Lsys1                                                  | -0,71 [kN/m]    |
| Cpe6       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=J,Hoek=19.96)                    | -0,83           |
| q8         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe6*CsCd1) * Lsys1                                                  | -2,23 [kN/m]    |
| Cpe7       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=I,Hoek=19.96)                    | -0,40           |
| q9         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe7*CsCd1) * Lsys1                                                  | -1,07 [kN/m]    |
| q10        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*Cpe3*CsCd1) * Lsys1                                                  | -1,34 [kN/m]    |
| q11        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*(Cpe2-C1)*CsCd1) * Lsys1                                             | -0,81 [kN/m]    |
| <b>LR4</b> |                                                                  |                                                                           |                 |
|            | Windbelasting van Links + Overdruk (2e Cpe)                      | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height3    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width4     | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width5     | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A2         | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co2        | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd2      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width4,h=Height3,T<br>errein=Onbebouwd,Regio=3,C0=Co2) | 0,85            |
| Cpe8       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| Cpi2       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe8,Openingen=<br>0.00,Over=True)                   | 0,20            |
| Z2         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                      | 7,35 [m]        |
| Qp2        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebo<br>uwd,Regio=3,C0=Co2)               | 0,63 [kN/m²]    |
| q12        | Interne druk; Verdeelde element belasting (q)                    | (Cpi2*Qp2) * Lsys1                                                        | 0,63 [kN/m]     |
| Cpe9       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39,Eerst=False)               | 0,80            |
| q13        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*Cpe9*CsCd2) * Lsys1                                                  | 2,14 [kN/m]     |

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| <b>Wopereis Staalbouw</b> |  | <b>Pos 3 - Tussenspannt</b> |
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| Index      | Staven                                                           | Berekening                                                            | Waarde Eenheden |
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| <b>LR4</b> |                                                                  |                                                                       |                 |
| Cpe10      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)               | -0,50           |
| C2         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe9-Cpe10) * 0.85                                                   | 1,11            |
| q14        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*(Cpe10+C2)*CsCd2) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe11      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)        | 0,37            |
| q15        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe11*CsCd2) * Lsys1                                             | 0,97 [kN/m]     |
| Cpe12      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)        | 0,27            |
| q16        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe12*CsCd2) * Lsys1                                             | 0,71 [kN/m]     |
| Cpe13      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)        | 0,00            |
| q17        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe13*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| Cpe14      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)        | 0,00            |
| q18        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe14*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| q19        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*Cpe10*CsCd2) * Lsys1                                             | -1,34 [kN/m]    |
| q20        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*(Cpe9-C2)*CsCd2) * Lsys1                                         | -0,81 [kN/m]    |
| <b>LR5</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk                              | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height4    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width6     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width7     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A3         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co3        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd3      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width6,h=Height4,Terrein=Onbebouwd,Regio=3,C0=Co3) | 0,85            |
| Cpe15      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi3       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe15,Openingen=0.00,Over=False)                 | -0,30           |
| Z3         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp3        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebouwd,Regio=3,C0=Co3)               | 0,63 [kN/m²]    |
| q21        | Interne druk; Verdeelde element belasting (q)                    | (Cpi3*Qp3) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe16      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| q22        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*Cpe16*CsCd3) * Lsys1                                             | 2,14 [kN/m]     |
| Cpe17      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| C3         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe16-Cpe17) * 0.85                                                  | 1,11            |
| q23        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*(Cpe17+C3)*CsCd3) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe18      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95)                    | -0,70           |
| q24        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe18*CsCd3) * Lsys1                                             | -1,87 [kN/m]    |
| Cpe19      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95)                    | -0,27           |
| q25        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe19*CsCd3) * Lsys1                                             | -0,71 [kN/m]    |
| Cpe20      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96)                    | -0,83           |
| q26        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe20*CsCd3) * Lsys1                                             | -2,23 [kN/m]    |
| Cpe21      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96)                    | -0,40           |
| q27        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe21*CsCd3) * Lsys1                                             | -1,07 [kN/m]    |
| q28        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*Cpe17*CsCd3) * Lsys1                                             | -1,34 [kN/m]    |
| q29        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*(Cpe16-C3)*CsCd3) * Lsys1                                        | -0,81 [kN/m]    |
| <b>LR6</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height5    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width8     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width9     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A4         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co4        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd4      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width8,h=Height5,Terrein=Onbebouwd,Regio=3,C0=Co4) | 0,85            |
| Cpe22      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi4       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe22,Openingen=0.00,Over=False)                 | -0,30           |
| Z4         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp4        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebouwd,Regio=3,C0=Co4)               | 0,63 [kN/m²]    |
| q30        | Interne druk; Verdeelde element belasting (q)                    | (Cpi4*Qp4) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe23      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)               | 0,80            |

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| Index      | Staven                                                           | Berekening                                                              | Waarde Eenheden |
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| <b>LR6</b> |                                                                  |                                                                         |                 |
| q31        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*Cpe23*CsCd4) * Lsys1                                               | 2,14 [kN/m]     |
| Cpe24      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)                 | -0,50           |
| C4         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe23-Cpe24) * 0.85                                                    | 1,11            |
| q32        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*(Cpe24+C4)*CsCd4) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe25      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)          | 0,37            |
| q33        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe25*CsCd4) * Lsys1                                               | 0,97 [kN/m]     |
| Cpe26      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)          | 0,27            |
| q34        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe26*CsCd4) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe27      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)          | 0,00            |
| q35        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe27*CsCd4) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe28      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)          | 0,00            |
| q36        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe28*CsCd4) * Lsys1                                               | 0,00 [kN/m]     |
| q37        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*Cpe24*CsCd4) * Lsys1                                               | -1,34 [kN/m]    |
| q38        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*(Cpe23-C4)*CsCd4) * Lsys1                                          | -0,81 [kN/m]    |
| <b>LR7</b> |                                                                  |                                                                         |                 |
|            | Windbelasting van Rechts + Overdruk                              | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height6    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width10    | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width11    | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A5         | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co5        | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd5      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width10,h=Height6,Terrrein=Onbebouwd,Regio=3,C0=Co5) | 0,85            |
| Cpe29      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| Cpi5       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe29,Openingen=0.00,Over=True)                    | 0,20            |
| Z5         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp5        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z5,Terrrein=Onbebo uwd,Regio=3,C0=Co5)               | 0,63 [kN/m²]    |
| q39        | Interne druk; Verdeelde element belasting (q)                    | (Cpi5*Qp5) * Lsys1                                                      | 0,63 [kN/m]     |
| Cpe30      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                             | -0,50           |
| q40        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*Cpe30*CsCd5) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe31      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| C5         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe31-Cpe30) * 0.85                                                    | 1,11            |
| q41        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe31-C5)*CsCd5) * Lsys1                                          | -0,81 [kN/m]    |
| q42        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe30+C5)*CsCd5) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe32      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95)                      | -0,40           |
| q43        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe32*CsCd5) * Lsys1                                               | -1,07 [kN/m]    |
| Cpe33      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95)                      | -0,84           |
| q44        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe33*CsCd5) * Lsys1                                               | -2,23 [kN/m]    |
| Cpe34      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96)                      | -0,27           |
| q45        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe34*CsCd5) * Lsys1                                               | -0,71 [kN/m]    |
| Cpe35      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96)                      | -0,70           |
| q46        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe35*CsCd5) * Lsys1                                               | -1,87 [kN/m]    |
| q47        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp5*Cpe31*CsCd5) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR8</b> |                                                                  |                                                                         |                 |
|            | Windbelasting van Rechts + Overdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height7    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width12    | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width13    | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A6         | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co6        | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd6      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width12,h=Height7,Terrrein=Onbebouwd,Regio=3,C0=Co6) | 0,85            |
| Cpe36      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| Cpi6       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe36,Openingen=0.00,Over=True)                    | 0,20            |
| Z6         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp6        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z6,Terrrein=Onbebo uwd,Regio=3,C0=Co6)               | 0,63 [kN/m²]    |
| q48        | Interne druk; Verdeelde element belasting (q)                    | (Cpi6*Qp6) * Lsys1                                                      | 0,63 [kN/m]     |

|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 3 - Tussenspanst</b> |
|---------------------------|--|-----------------------------|

| Index       | Staven                                                           | Berekening                                                             | Waarde Eenheden |
|-------------|------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|
| <b>LR8</b>  |                                                                  |                                                                        |                 |
| Cpe37       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)                | -0,50           |
| q49         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*Cpe37*CsCd6) * Lsys1                                              | -1,34 [kN/m]    |
| Cpe38       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)                | 0,80            |
| C6          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe38-Cpe37) * 0.85                                                   | 1,11            |
| q50         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe38-C6)*CsCd6) * Lsys1                                         | -0,81 [kN/m]    |
| q51         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe37+C6)*CsCd6) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe39       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95,Eerst=False)         | 0,00            |
| q52         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe39*CsCd6) * Lsys1                                              | 0,00 [kN/m]     |
| Cpe40       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95,Eerst=False)         | 0,00            |
| q53         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe40*CsCd6) * Lsys1                                              | 0,00 [kN/m]     |
| Cpe41       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96,Eerst=False)         | 0,27            |
| q54         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe41*CsCd6) * Lsys1                                              | 0,71 [kN/m]     |
| Cpe42       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96,Eerst=False)         | 0,37            |
| q55         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe42*CsCd6) * Lsys1                                              | 0,98 [kN/m]     |
| q56         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp6*Cpe38*CsCd6) * Lsys1                                              | 2,14 [kN/m]     |
| <b>LR9</b>  |                                                                  |                                                                        |                 |
|             | Windbelasting van Rechts + Onderdruk                             | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height8     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width14     | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width15     | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A7          | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co7         | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |
| CsCd7       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width14,h=Height8,Terrein=Onbebouwd,Regio=3,C0=Co7) | 0,85            |
| Cpe43       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| Cpi7        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen=0.00,Over=False)                  | -0,30           |
| Z7          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp7         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebouwd,Regio=3,C0=Co7)                | 0,63 [kN/m²]    |
| q57         | Interne druk; Verdeelde element belasting (q)                    | (Cpi7*Qp7) * Lsys1                                                     | -0,94 [kN/m]    |
| Cpe44       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| q58         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*Cpe44*CsCd7) * Lsys1                                              | -1,34 [kN/m]    |
| Cpe45       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                            | 0,80            |
| C7          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe45-Cpe44) * 0.85                                                   | 1,11            |
| q59         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe45-C7)*CsCd7) * Lsys1                                         | -0,81 [kN/m]    |
| q60         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe44+C7)*CsCd7) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe46       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95)                     | -0,40           |
| q61         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe46*CsCd7) * Lsys1                                              | -1,07 [kN/m]    |
| Cpe47       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95)                     | -0,84           |
| q62         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe47*CsCd7) * Lsys1                                              | -2,23 [kN/m]    |
| Cpe48       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96)                     | -0,27           |
| q63         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe48*CsCd7) * Lsys1                                              | -0,71 [kN/m]    |
| Cpe49       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96)                     | -0,70           |
| q64         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe49*CsCd7) * Lsys1                                              | -1,87 [kN/m]    |
| q65         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp7*Cpe45*CsCd7) * Lsys1                                              | 2,14 [kN/m]     |
| <b>LR10</b> |                                                                  |                                                                        |                 |
|             | Windbelasting van Rechts + Onderdruk (2e Cpe)                    | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height9     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width16     | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width17     | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A8          | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co8         | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |
| CsCd8       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width16,h=Height9,Terrein=Onbebouwd,Regio=3,C0=Co8) | 0,85            |
| Cpe50       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| Cpi8        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe50,Openingen=0.00,Over=False)                  | -0,30           |
| Z8          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp8         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebouwd,Regio=3,C0=Co8)                | 0,63 [kN/m²]    |
| q66         | Interne druk; Verdeelde element belasting (q)                    | (Cpi8*Qp8) * Lsys1                                                     | -0,94 [kN/m]    |

| Index       | Staven                                                                    | Berekening                                                     | Waarde Eenheden |
|-------------|---------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|
| <b>LR10</b> |                                                                           |                                                                |                 |
| Cpe51       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)        | -0,50           |
| q67         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*Cpe51*CsCd8) * Lsys1                                      | -1,34 [kN/m]    |
| Cpe52       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)        | 0,80            |
| C8          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor          | (Cpe52-Cpe51) * 0.85                                           | 1,11            |
| q68         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe52-C8)*CsCd8) * Lsys1                                 | -0,81 [kN/m]    |
| q69         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe51+C8)*CsCd8) * Lsys1                                 | 1,62 [kN/m]     |
| Cpe53       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95,Eerst=False) | 0,00            |
| q70         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe53*CsCd8) * Lsys1                                      | 0,00 [kN/m]     |
| Cpe54       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95,Eerst=False) | 0,00            |
| q71         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe54*CsCd8) * Lsys1                                      | 0,00 [kN/m]     |
| Cpe55       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96,Eerst=False) | 0,27            |
| q72         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe55*CsCd8) * Lsys1                                      | 0,71 [kN/m]     |
| Cpe56       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96,Eerst=False) | 0,37            |
| q73         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe56*CsCd8) * Lsys1                                      | 0,98 [kN/m]     |
| q74         | Vertikale wand S4; Verdeelde element belasting (q)                        | (Qp8*Cpe52*CsCd8) * Lsys1                                      | 2,14 [kN/m]     |
| <b>LR11</b> |                                                                           |                                                                |                 |
| Sk1         | Sneeuwbelasting                                                           | NEN-EN1991-1-3:2011/NB:2011                                    |                 |
| Ce1         | Karakteristiek waarde van de sneeuwlast op de grond (Sk)                  | NEN-EN1991-1-3#4.1(Zone=1)                                     | 0,70 [kN/m²]    |
| Ct1         | De milieucoefficient (Ce)                                                 | NEN-EN1991-1-3#5.2.7()                                         | 1,00            |
|             | De thermische coefficient (Ct)                                            | NEN-EN1991-1-3#5.2.8()                                         | 1,00            |
| Mu1         | Zadeldak, Mu1 Hoek: 19.95; S2,S3<br>Mu1; Sneeuwbelasting coefficient (Mu) | EN1991-1-3#5.3(Dak=Hellend,Hoek=19.95,Mu=Mu1,Sk=Sk1)           | 0,80            |
| q75         | Verdeelde element belasting (q)                                           | (Sk1*Ce1*Ct1*Mu1) * Lsys1                                      | 2,80 [kN/m]     |
| q76         | Verdeelde element belasting (q)                                           | q75*0.50                                                       | 1,40 [kN/m]     |

#### BELASTINGSGEVALLEN TYPEN

| Oplegg. | Staven                                                                                  | B.G.Type      | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|-----------------------------------------------------------------------------------------|---------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.1   | Permanente Belasting                                                                    | Permanent     | -            |         | N.v.t. | N.v.t. |      |      |      |       |
| B.G.2   | Windbelasting van Links + Overdruk                                                      | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.3   | Windbelasting van Links + Overdruk (2e Cpe)                                             | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.4   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.5   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.6   | Windbelasting van Links + Overdruk (2e corr. factor)                                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.7   | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                           | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.8   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.9   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.10  | Windbelasting van Links + Onderdruk                                                     | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.11  | Windbelasting van Links + Onderdruk (2e Cpe)                                            | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.12  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.13  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.14  | Windbelasting van Links + Onderdruk (2e corr. factor)                                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.15  | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                          | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.16  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |

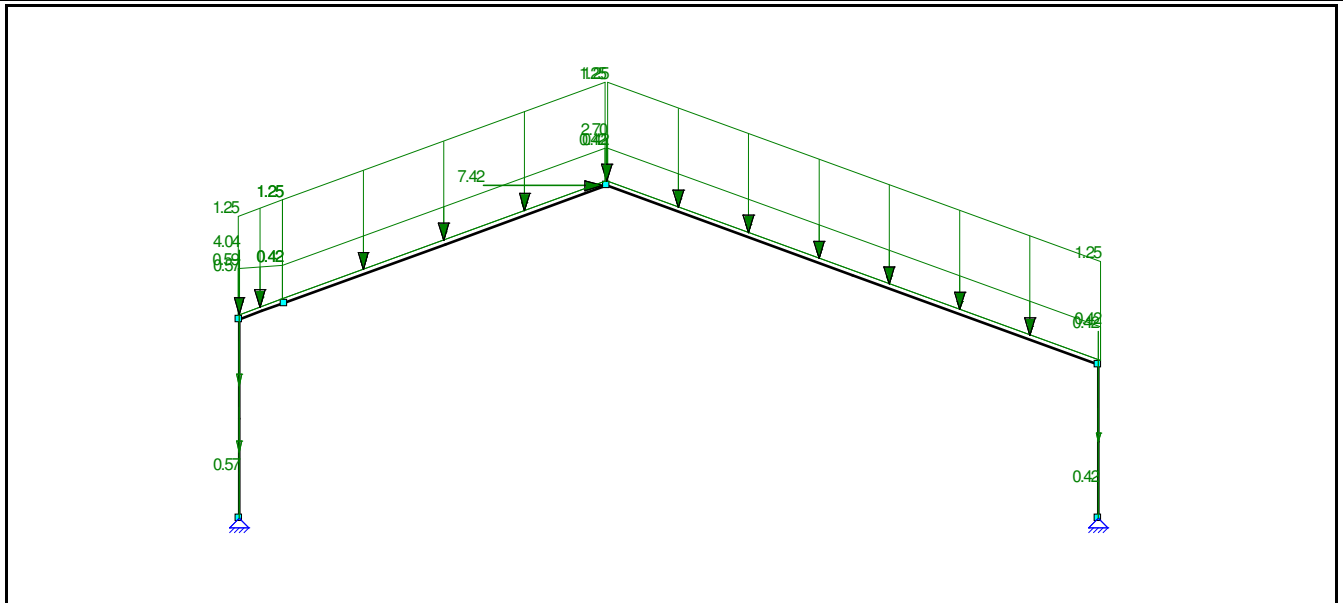
|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 3 - Tussenspannt</b> |
|---------------------------|--|-----------------------------|

| Oplegg. | Staven                                                                                            | B.G.Type        | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|---------------------------------------------------------------------------------------------------|-----------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.17  | Windbelasting van Links +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor)  | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.18  | Windbelasting van Rechts +<br>Overdruk                                                            | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.19  | Windbelasting van Rechts +<br>Overdruk (2e Cpe)                                                   | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.20  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe)                       | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.21  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe)                       | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.22  | Windbelasting van Rechts +<br>Overdruk (2e corr. factor)                                          | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.23  | Windbelasting van Rechts +<br>Overdruk (2e Cpe) (2e corr.<br>factor)                              | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.24  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe) (2e corr.<br>factor)  | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.25  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor)  | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.26  | Windbelasting van Rechts +<br>Onderdruk                                                           | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.27  | Windbelasting van Rechts +<br>Onderdruk (2e Cpe)                                                  | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.28  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe)                      | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.29  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe)                      | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.30  | Windbelasting van Rechts +<br>Onderdruk (2e corr. factor)                                         | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.31  | Windbelasting van Rechts +<br>Onderdruk (2e Cpe) (2e corr.<br>factor)                             | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.32  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe) (2e corr.<br>factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.33  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.34  | Sneeuwbelasting 1                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.35  | Sneeuwbelasting 2                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.36  | Sneeuwbelasting 3                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.37  | Kniklengte                                                                                        | Kniklengte      |              |         | N.v.t. | N.v.t. |      |      |      |       |

### B.G.1: PERMANENTE BELASTING

| Type                               | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.1: Permanente Belasting</b> |                |                    |              |             |                         |
| qG                                 | 0,57 (1.00x)   | 0,57 (1.00x)       | 0,000        | 4,400(L)    | Z" S1                   |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 11,570(L)   | Z" S3                   |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 3,400(L)    | Z" S4                   |
| q                                  | 1,25 (q1)      | 1,25 (q1)          | 0,000        | 11,570(L)   | Z" S3,S8-S9             |
| N                                  | 2,70           |                    |              |             | Z K3                    |
| N                                  | 7,42           |                    |              |             | X K3                    |
| qG                                 | 0,59 (1.00x)   | 0,42 (1.00x)       | 0,000        | 1,064(L)    | Z" S8                   |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 7,580(L)    | Z" S9                   |
| N                                  | 4,04           |                    |              |             | Z K2                    |
| <b>Som lasten</b>                  | <b>X: 7,42</b> | <b>kN Z: 44,58</b> | <b>kN</b>    |             |                         |
| -                                  | -              | -                  | m            | m           | - -                     |

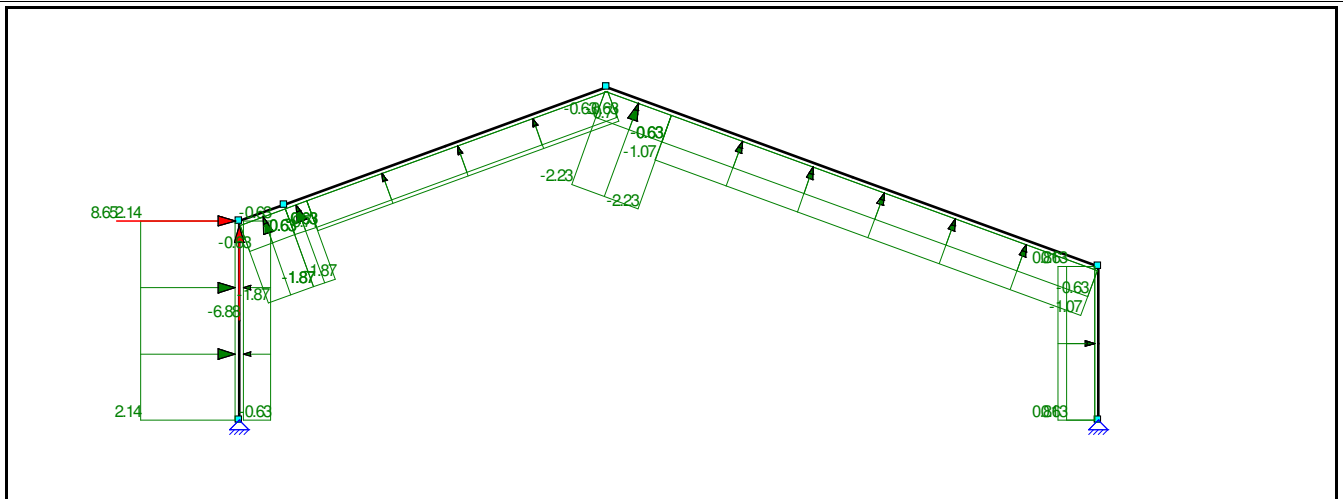
## B.G.1: PERMANENTE BELASTING



## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK

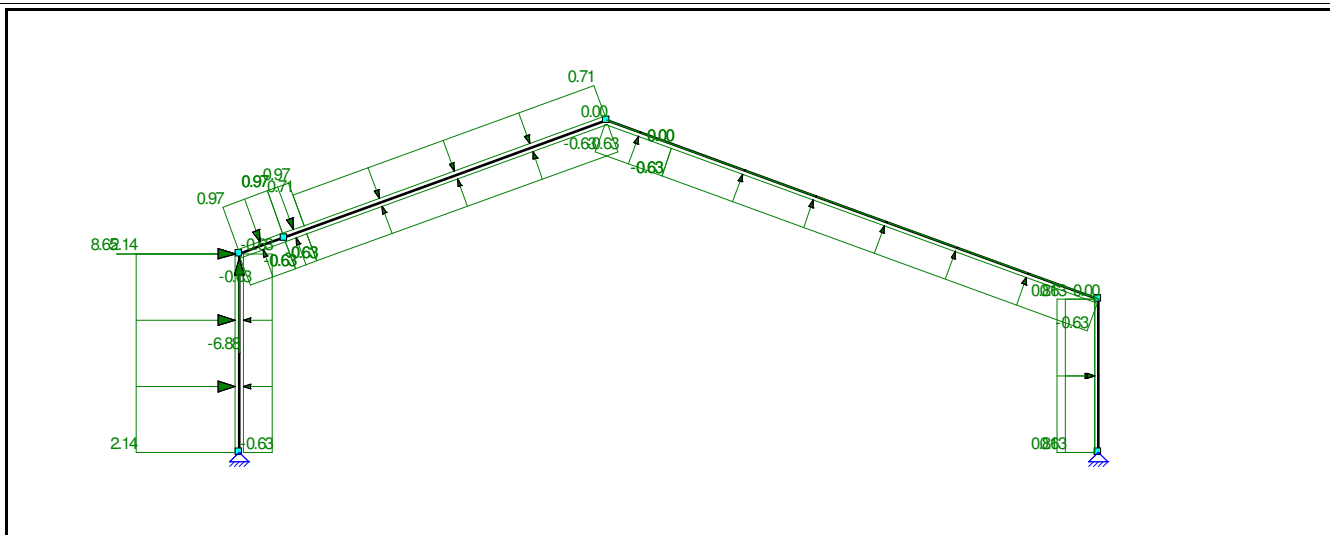
| Type                                             | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.2: Windbelasting van Links + Overdruk</b> |                 |                     |              |             |                         |
| q                                                | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S3                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S3                   |
| q                                                | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                | -6,88           |                     |              |             | Z K2                    |
| N                                                | 8,65            |                     |              |             | X K2                    |
| q                                                | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S9                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S9                   |
| q                                                | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S9                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                | <b>X: 22,94</b> | <b>kN Z: -39,65</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                | -               | -                   | m            | m           | - -                     |

## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK



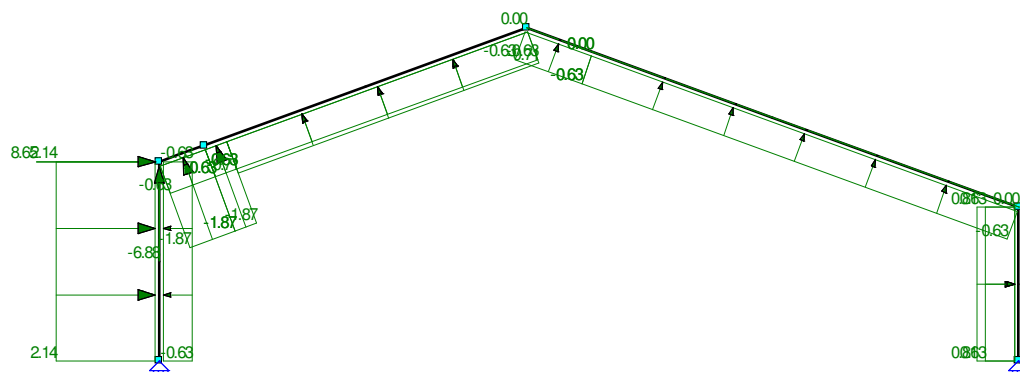
**B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)**

| Type                                                      | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.3: Windbelasting van Links + Overdruk (2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                         | 2,14 (q13)      | 2,14 (q13)          | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                         | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S3                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,564       | Z' S3                   |
| q                                                         | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                         | 0,81 (-q20)     | 0,81 (-q20)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                         | 0,63 (q12)      | 0,63 (q12)          | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                         | -6,88           |                     |              |             | Z K2                    |
| N                                                         | 8,65            |                     |              |             | X K2                    |
| q                                                         | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                         | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S9                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 0,500       | Z' S9                   |
| q                                                         | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S9                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                         | <b>X: 23,06</b> | <b>kN Z: -12,66</b> | <b>kN</b>    |             |                         |
| -                                                         | -               | -                   | m            | m           | - -                     |

**B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)****B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.4: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                  | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                  | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S3                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S3                   |
| q                                                                                  | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                  | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                  | -6,88           |                     |              |             | Z K2                    |
| N                                                                                  | 8,65            |                     |              |             | X K2                    |
| q                                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S9                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S9                   |
| q                                                                                  | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S9                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                  | <b>X: 18,10</b> | <b>kN Z: -26,32</b> | <b>kN</b>    |             |                         |
| -                                                                                  | -               | -                   | m            | m           | - -                     |

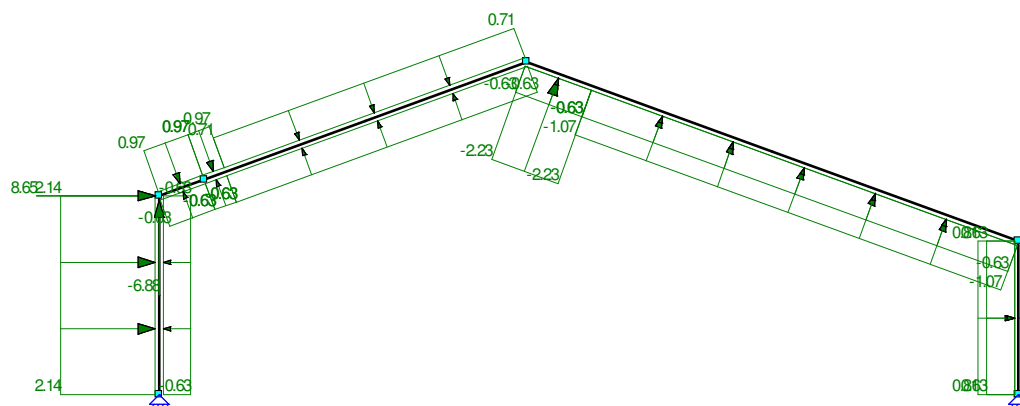
## B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

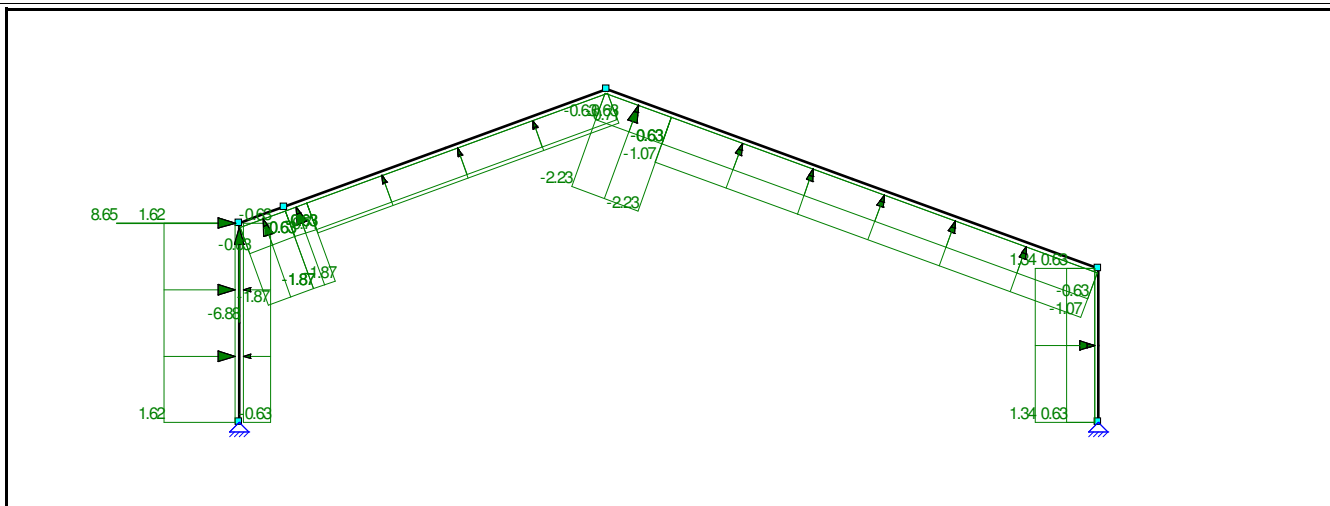
| Type                                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting   | Staaf of knoop |
|------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|------------|----------------|
| <b>B.G.5: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                 |                     |              |             |            |                |
| q                                                                                  | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 4,400(L)    | Z'         | S1             |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 4,400(L)    | Z'         | S1,S8          |
| q                                                                                  | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z'         | S3             |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z'         | S3             |
| q                                                                                  | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z'         | S3             |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z'         | S3             |
| q                                                                                  | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z'         | S4             |
| q                                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z'         | S4             |
| N                                                                                  | -6,88           |                     |              |             | Z          | K2             |
| N                                                                                  | 8,65            |                     |              |             | X          | K2             |
| q                                                                                  | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z'         | S8             |
| q                                                                                  | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z'         | S9             |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z'         | S9             |
| q                                                                                  | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z'         | S9             |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z'         | S9             |
| <b>Som lasten</b>                                                                  | <b>X: 27,90</b> | <b>kN Z: -25,99</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b> |                |
| -                                                                                  | -               | -                   | m            | m           | - -        |                |

## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



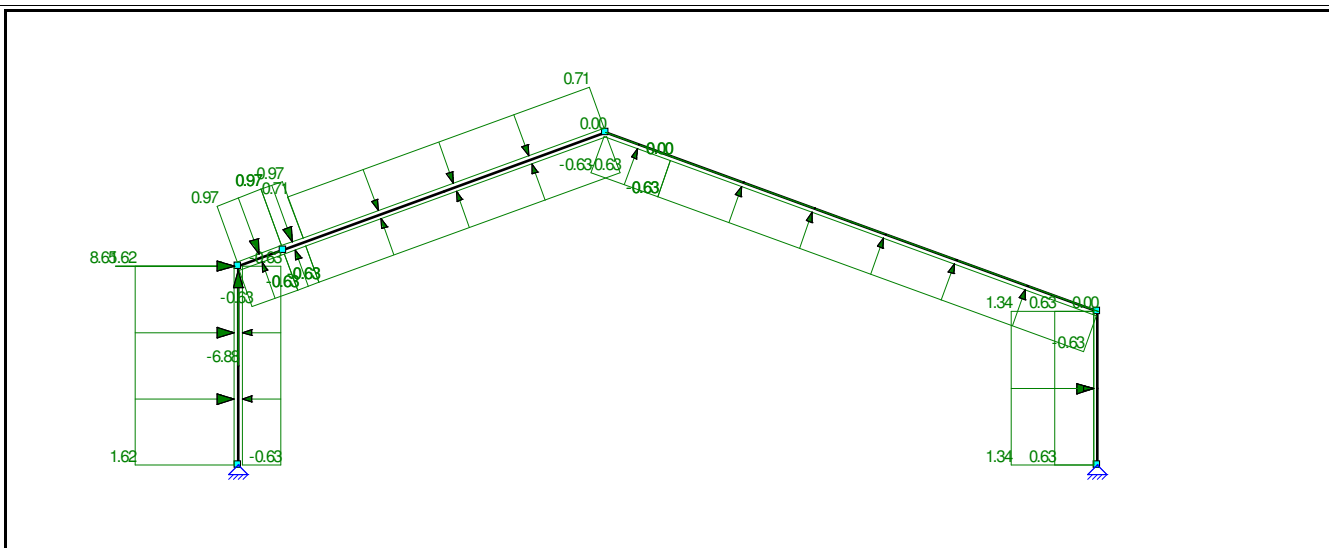
**B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)**

| Type                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.6: Windbelasting van Links + Overdruk (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                  | 1,62 (q5)       | 1,62 (q5)           | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                  | 1,34 (-q10)     | 1,34 (-q10)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                  | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S3                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S3                   |
| q                                                                  | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                  | -6,88           |                     |              |             | Z K2                    |
| N                                                                  | 8,65            |                     |              |             | X K2                    |
| q                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S9                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S9                   |
| q                                                                  | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S9                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                  | <b>X: 22,42</b> | <b>kN Z: -39,65</b> | <b>kN</b>    |             |                         |
| -                                                                  | -               | -                   | m            | m           | - -                     |

**B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)****B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                        | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.7: Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                           | 1,62 (q14)      | 1,62 (q14)          | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                           | 1,34 (-q19)     | 1,34 (-q19)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                           | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S3                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,564       | Z' S3                   |
| q                                                                           | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                           | 0,63 (q12)      | 0,63 (q12)          | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                           | -6,88           |                     |              |             | Z K2                    |
| N                                                                           | 8,65            |                     |              |             | X K2                    |
| q                                                                           | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                           | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S9                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 0,500       | Z' S9                   |
| q                                                                           | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S9                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                           | <b>X: 22,54</b> | <b>kN Z: -12,66</b> | <b>kN</b>    |             |                         |
| -                                                                           | -               | -                   | m            | m           | - -                     |

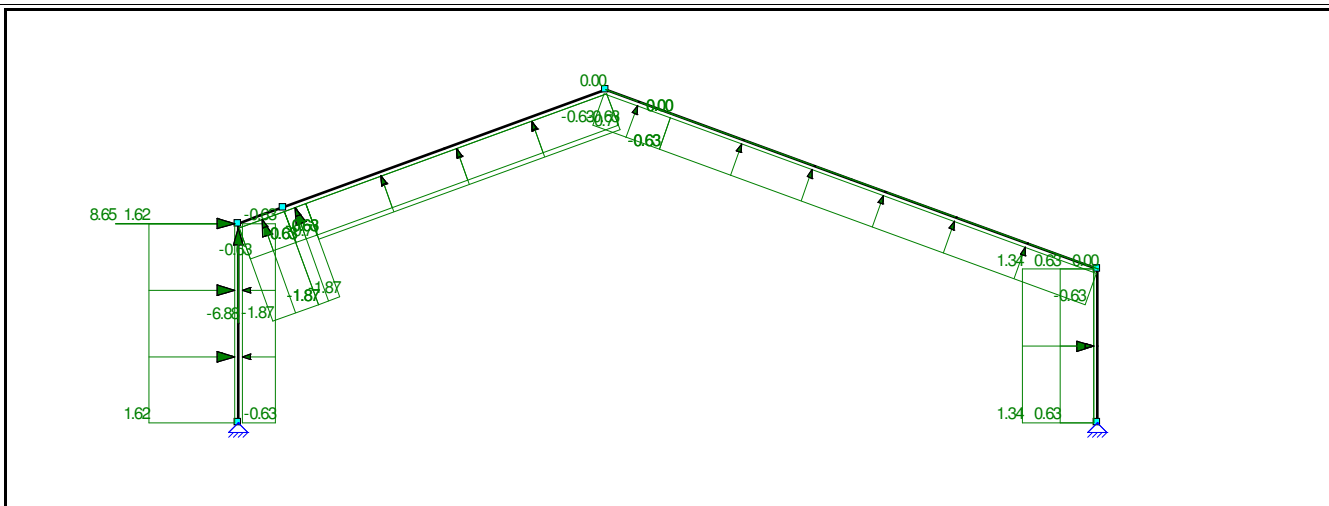
B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

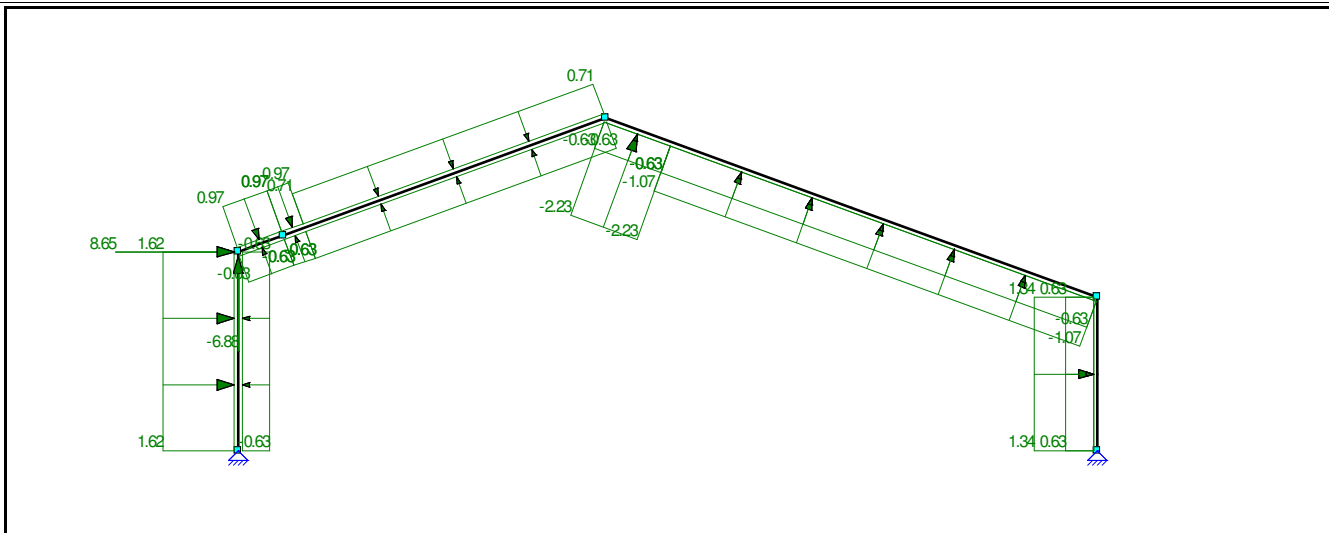
| Type                                                                                          | Beginwaarde | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------------------|
| B.G.8: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |             |              |              |             |                         |
| q                                                                                             | 1,62 (q5)   | 1,62 (q5)    | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                             | 1,34 (-q10) | 1,34 (-q10)  | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                             | 0,00 (q17)  | 0,00 (q17)   | 0,000        | 1,564       | Z' S3                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 1,564       | Z' S3                   |
| q                                                                                             | 0,00 (q18)  | 0,00 (q18)   | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                             | 0,63 (q3)   | 0,63 (q3)    | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                             | -6,88       |              |              |             | Z K2                    |
| N                                                                                             | 8,65        |              |              |             | X K2                    |
| q                                                                                             | -1,87 (q6)  | -1,87 (q6)   | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                             | -1,87 (q6)  | -1,87 (q6)   | 0,000        | 0,500       | Z' S9                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 0,500       | Z' S9                   |
| q                                                                                             | -0,71 (q7)  | -0,71 (q7)   | 0,500        | 7,580       | Z' S9                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,500        | 7,580       | Z' S9                   |
| Som lasten                                                                                    | X: 17,58    | kN Z: -26,32 | kN           |             |                         |
| -                                                                                             | -           | -            | m            | m           | - -                     |

B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



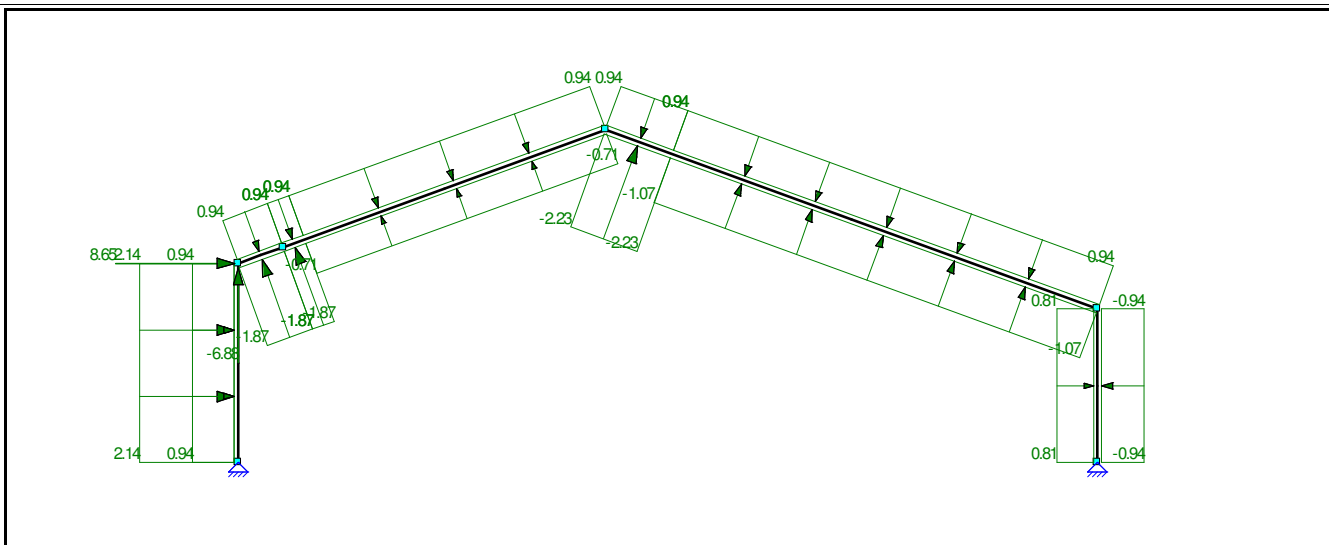
**B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.9: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                                                    | 1,62 (q5)       | 1,62 (q5)           | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                    | 1,34 (-q10)     | 1,34 (-q10)         | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                                    | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S3                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S3                   |
| q                                                                                                    | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                                    | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                                    | -6,88           |                     |              |             | Z K2                    |
| N                                                                                                    | 8,65            |                     |              |             | X K2                    |
| q                                                                                                    | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                                    | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S9                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S9                   |
| q                                                                                                    | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S9                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                                    | <b>X: 27,38</b> | <b>kN Z: -25,99</b> | <b>kN</b>    |             |                         |
| -                                                                                                    | -               | -                   | m            | m           | - -                     |

**B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)****B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK**

| Type                                               | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.10: Windbelasting van Links + Onderdruk</b> |                 |                    |              |             |                         |
| q                                                  | 2,14 (q22)      | 2,14 (q22)         | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                  | -2,23 (q26)     | -2,23 (q26)        | 0,000        | 1,564       | Z' S3                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z' S3                   |
| q                                                  | -1,07 (q27)     | -1,07 (q27)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                  | 0,81 (-q29)     | 0,81 (-q29)        | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                  | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                  | -6,88           |                    |              |             | Z K2                    |
| N                                                  | 8,65            |                    |              |             | X K2                    |
| q                                                  | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                  | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 0,500       | Z' S9                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 0,500       | Z' S9                   |
| q                                                  | -0,71 (q25)     | -0,71 (q25)        | 0,500        | 7,580       | Z' S9                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                  | <b>X: 22,94</b> | <b>kN Z: -9,79</b> | <b>kN</b>    |             |                         |
| -                                                  | -               | -                  | m            | m           | - -                     |

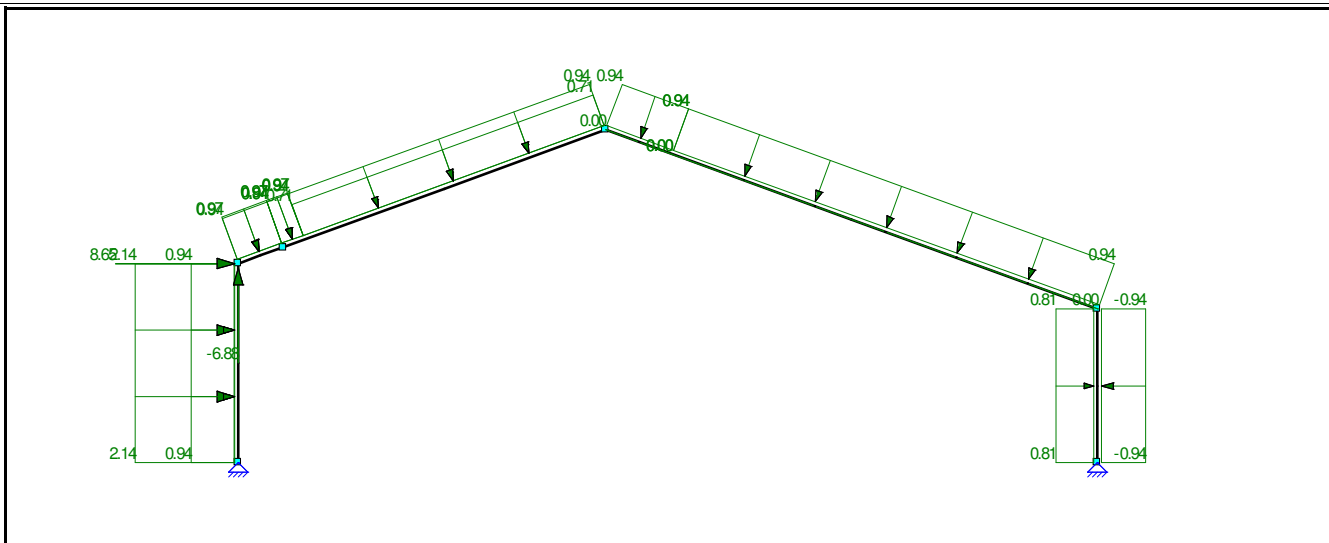
B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK



B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)

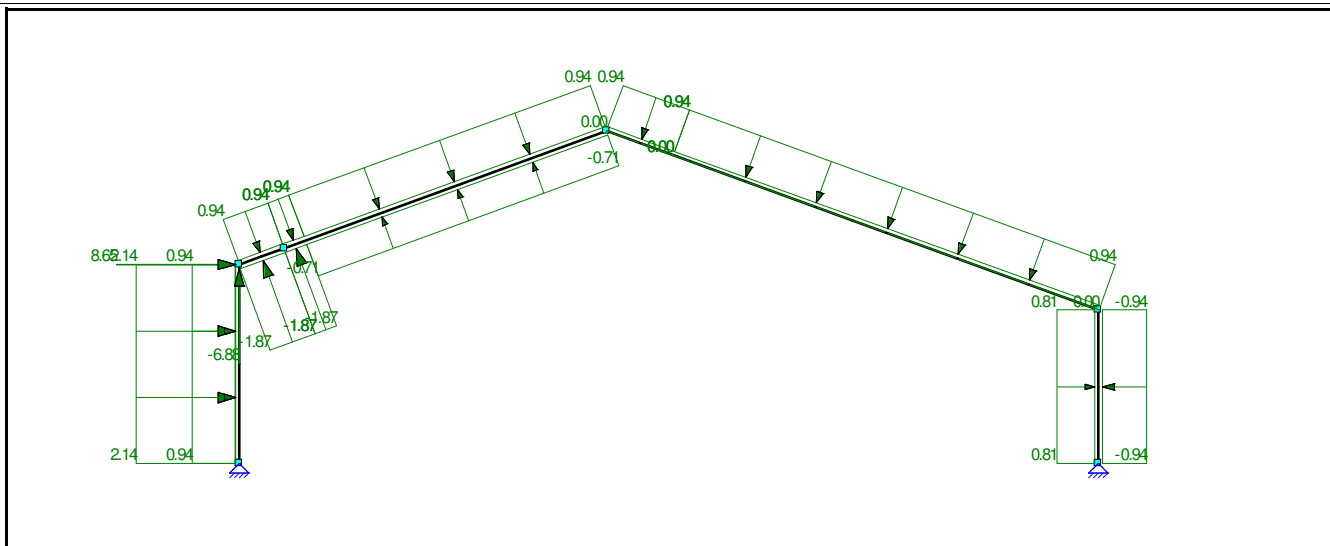
| Type                                                        | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.11: Windbelasting van Links + Onderdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                           | 2,14 (q31)      | 2,14 (q31)         | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                           | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       | Z' S3                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,564       | Z' S3                   |
| q                                                           | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                           | 0,81 (-q38)     | 0,81 (-q38)        | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                           | -0,94 (q30)     | -0,94 (q30)        | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                           | -6,88           |                    |              |             | Z K2                    |
| N                                                           | 8,65            |                    |              |             | X K2                    |
| q                                                           | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                           | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 0,500       | Z' S9                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 0,500       | Z' S9                   |
| q                                                           | 0,71 (q34)      | 0,71 (q34)         | 0,500        | 7,580       | Z' S9                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                           | <b>X: 23,06</b> | <b>kN Z: 17,19</b> | <b>kN</b>    |             |                         |
| -                                                           | -               | -                  | m            | m           | - -                     |

B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)



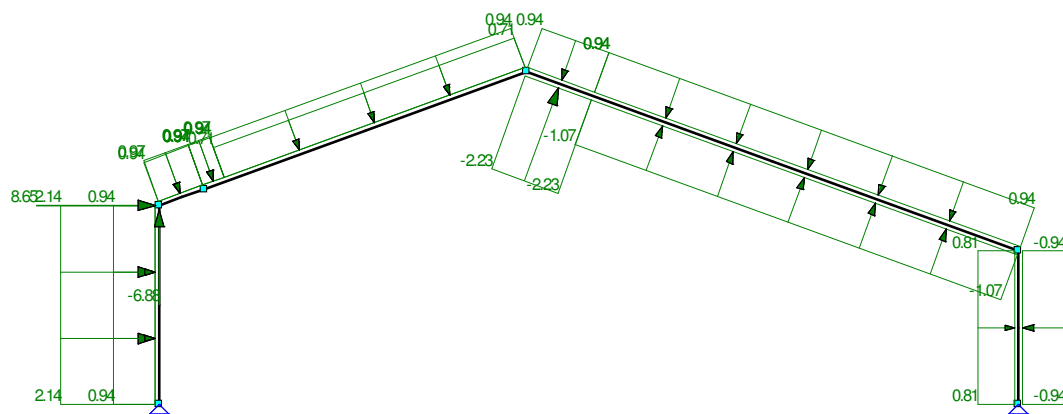
**B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.12: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                   |              |             |                         |
| q                                                                                    | 2,14 (q22)      | 2,14 (q22)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                    | 0,00 (q35)      | 0,00 (q35)        | 0,000        | 1,564       | Z' S3                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S3                   |
| q                                                                                    | 0,00 (q36)      | 0,00 (q36)        | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                    | 0,81 (-q29)     | 0,81 (-q29)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                    | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                    | -6,88           |                   |              |             | Z K2                    |
| N                                                                                    | 8,65            |                   |              |             | X K2                    |
| q                                                                                    | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                    | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 0,500       | Z' S9                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S9                   |
| q                                                                                    | -0,71 (q25)     | -0,71 (q25)       | 0,500        | 7,580       | Z' S9                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                    | <b>X: 18,10</b> | <b>kN Z: 3,53</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                 | m            | m           | - -                     |

**B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)****B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.13: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                 |                   |              |             |                         |
| q                                                                                    | 2,14 (q22)      | 2,14 (q22)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                    | -2,23 (q26)     | -2,23 (q26)       | 0,000        | 1,564       | Z' S3                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S3                   |
| q                                                                                    | -1,07 (q27)     | -1,07 (q27)       | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                    | 0,81 (-q29)     | 0,81 (-q29)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                    | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                    | -6,88           |                   |              |             | Z K2                    |
| N                                                                                    | 8,65            |                   |              |             | X K2                    |
| q                                                                                    | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                    | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 0,500       | Z' S9                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S9                   |
| q                                                                                    | 0,71 (q34)      | 0,71 (q34)        | 0,500        | 7,580       | Z' S9                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                    | <b>X: 27,90</b> | <b>kN Z: 3,87</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                 | m            | m           | - -                     |

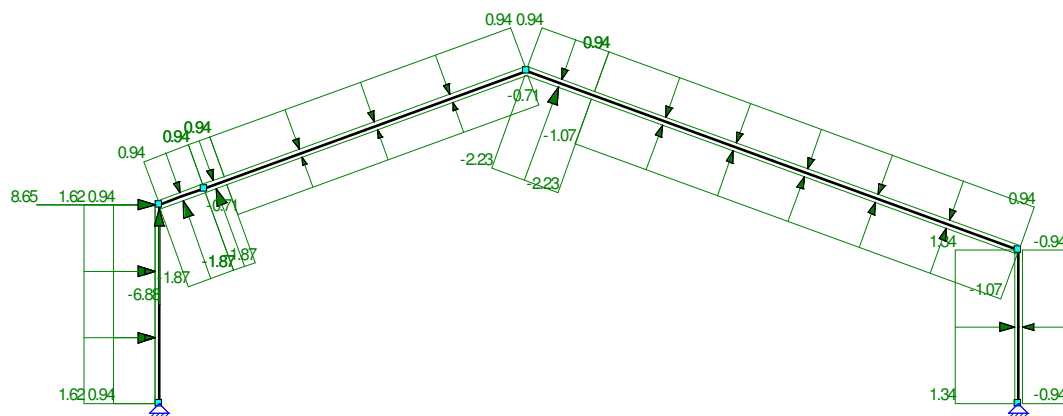
B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)

| Type                                                                 | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting | Staaft of knoop |
|----------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|----------|-----------------|
| <b>B.G.14: Windbelasting van Links + Onderdruk (2e corr. factor)</b> |                 |                    |              |             |          |                 |
| q                                                                    | 1,62 (q23)      | 1,62 (q23)         | 0,000        | 4,400(L)    | Z'       | S1              |
| q                                                                    | 1,34 (-q28)     | 1,34 (-q28)        | 0,000        | 3,400(L)    | Z'       | S4              |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 4,400(L)    | Z'       | S1,S8           |
| q                                                                    | -2,23 (q26)     | -2,23 (q26)        | 0,000        | 1,564       | Z'       | S3              |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z'       | S3              |
| q                                                                    | -1,07 (q27)     | -1,07 (q27)        | 1,564        | 11,570(L)   | Z'       | S3              |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 11,570(L)   | Z'       | S3              |
| q                                                                    | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,400(L)    | Z'       | S4              |
| N                                                                    | -6,88           |                    |              |             | Z        | K2              |
| N                                                                    | 8,65            |                    |              |             | X        | K2              |
| q                                                                    | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,064(L)    | Z'       | S8              |
| q                                                                    | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 0,500       | Z'       | S9              |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 0,500       | Z'       | S9              |
| q                                                                    | -0,71 (q25)     | -0,71 (q25)        | 0,500        | 7,580       | Z'       | S9              |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,500        | 7,580       | Z'       | S9              |
| <b>Som lasten</b>                                                    | <b>X: 22,42</b> | <b>kN Z: -9,79</b> | <b>kN</b>    |             |          |                 |
| -                                                                    | -               | -                  | m            | m           | - -      |                 |

B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)



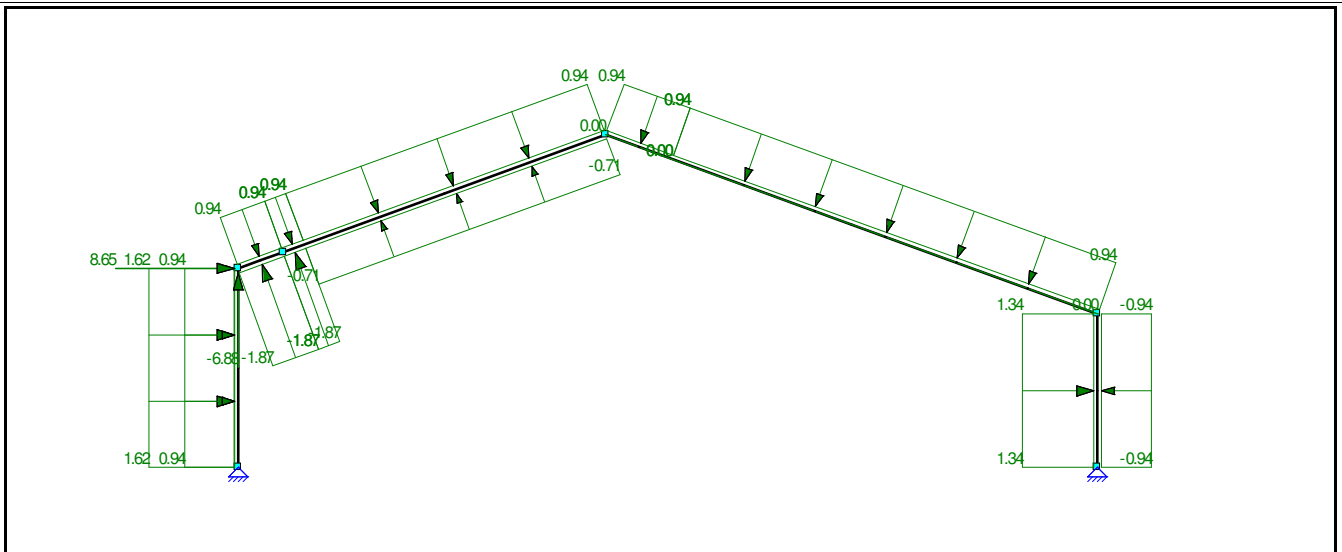
| Type                                                                          | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting | Staaft of knoopp |
|-------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|----------|------------------|
| <b>B.G.15: Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |          |                  |
| q                                                                             | 1,62 (q32)      | 1,62 (q32)         | 0,000        | 4,400(L)    |          | Z' S1            |
| q                                                                             | 1,34 (-q37)     | 1,34 (-q37)        | 0,000        | 3,400(L)    |          | Z' S4            |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 4,400(L)    |          | Z' S1,S8         |
| q                                                                             | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       |          | Z' S3            |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,564       |          | Z' S3            |
| q                                                                             | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 11,570(L)   |          | Z' S3            |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 1,564        | 11,570(L)   |          | Z' S3            |
| q                                                                             | -0,94 (q30)     | -0,94 (q30)        | 0,000        | 3,400(L)    |          | Z' S4            |
| N                                                                             | -6,88           |                    |              |             |          | Z K2             |
| N                                                                             | 8,65            |                    |              |             |          | X K2             |
| q                                                                             | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 1,064(L)    |          | Z' S8            |
| q                                                                             | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 0,500       |          | Z' S9            |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 0,500       |          | Z' S9            |
| q                                                                             | 0,71 (q34)      | 0,71 (q34)         | 0,500        | 7,580       |          | Z' S9            |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,500        | 7,580       |          | Z' S9            |
| <b>Som lasten</b>                                                             | <b>X: 22,54</b> | <b>kN Z: 17,19</b> | <b>kN</b>    |             |          |                  |
| -                                                                             | -               | -                  | m            | m           |          | - -              |

[illegible]

| Type                                                                                                   | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting | Staaft of knoopp |
|--------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|----------|------------------|
| <b>B.G.16: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                   |              |             |          |                  |
| q                                                                                                      | 1,62 (q23)      | 1,62 (q23)        | 0,000        | 4,400(L)    | Z'       | S1               |
| q                                                                                                      | 1,34 (-q28)     | 1,34 (-q28)       | 0,000        | 3,400(L)    | Z'       | S4               |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 4,400(L)    | Z'       | S1,S8            |
| q                                                                                                      | 0,00 (q35)      | 0,00 (q35)        | 0,000        | 1,564       | Z'       | S3               |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z'       | S3               |
| q                                                                                                      | 0,00 (q36)      | 0,00 (q36)        | 1,564        | 11,570(L)   | Z'       | S3               |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z'       | S3               |
| q                                                                                                      | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z'       | S4               |
| N                                                                                                      | -6,88           |                   |              |             | Z        | K2               |
| N                                                                                                      | 8,65            |                   |              |             | X        | K2               |
| q                                                                                                      | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 1,064(L)    | Z'       | S8               |
| q                                                                                                      | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 0,500       | Z'       | S9               |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z'       | S9               |
| q                                                                                                      | -0,71 (q25)     | -0,71 (q25)       | 0,500        | 7,580       | Z'       | S9               |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z'       | S9               |
| <b>Som lasten</b>                                                                                      | <b>X: 17,58</b> | <b>kN Z: 3,53</b> | <b>kN</b>    |             |          |                  |

m m - -

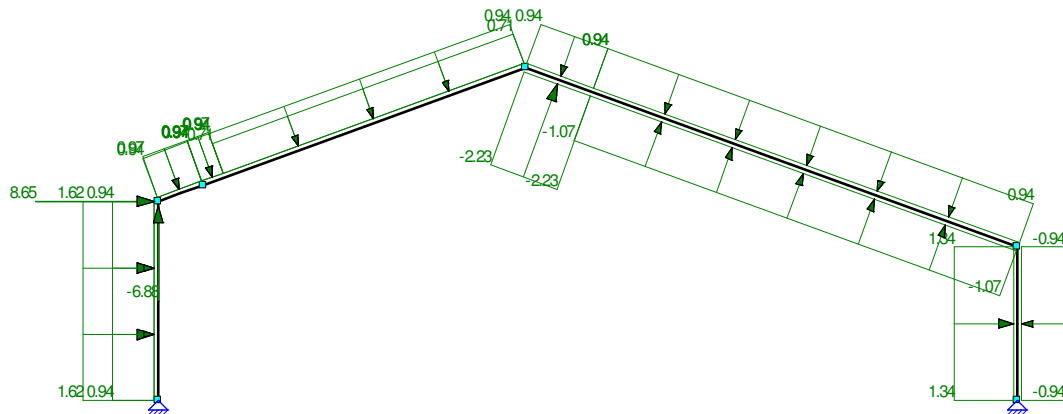
B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



**B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.17: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                 |                   |              |             |                         |
| q                                                                                                      | 1,62 (q23)      | 1,62 (q23)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                      | 1,34 (-q28)     | 1,34 (-q28)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                                      | -2,23 (q26)     | -2,23 (q26)       | 0,000        | 1,564       | Z' S3                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S3                   |
| q                                                                                                      | -1,07 (q27)     | -1,07 (q27)       | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S3                   |
| q                                                                                                      | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                                      | -6,88           |                   |              |             | Z K2                    |
| N                                                                                                      | 8,65            |                   |              |             | X K2                    |
| q                                                                                                      | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                                      | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 0,500       | Z' S9                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S9                   |
| q                                                                                                      | 0,71 (q34)      | 0,71 (q34)        | 0,500        | 7,580       | Z' S9                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                                      | <b>X: 27,38</b> | <b>kN Z: 3,87</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -               | -                 | m            | m           | - -                     |

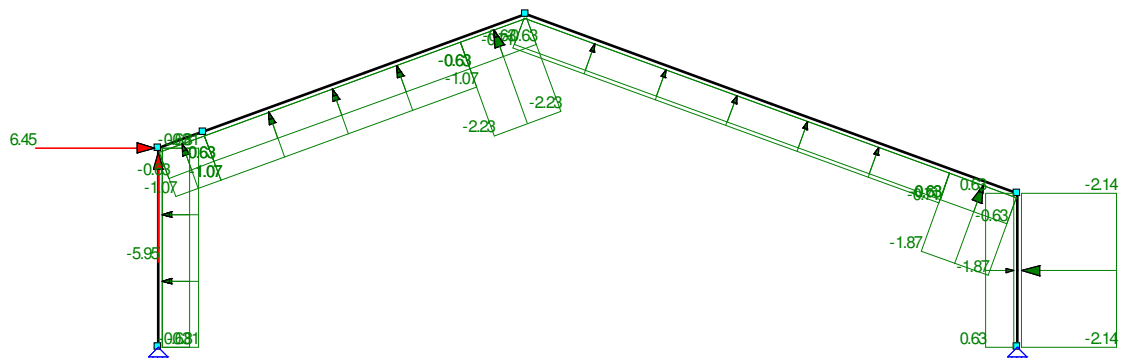
B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



### B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK

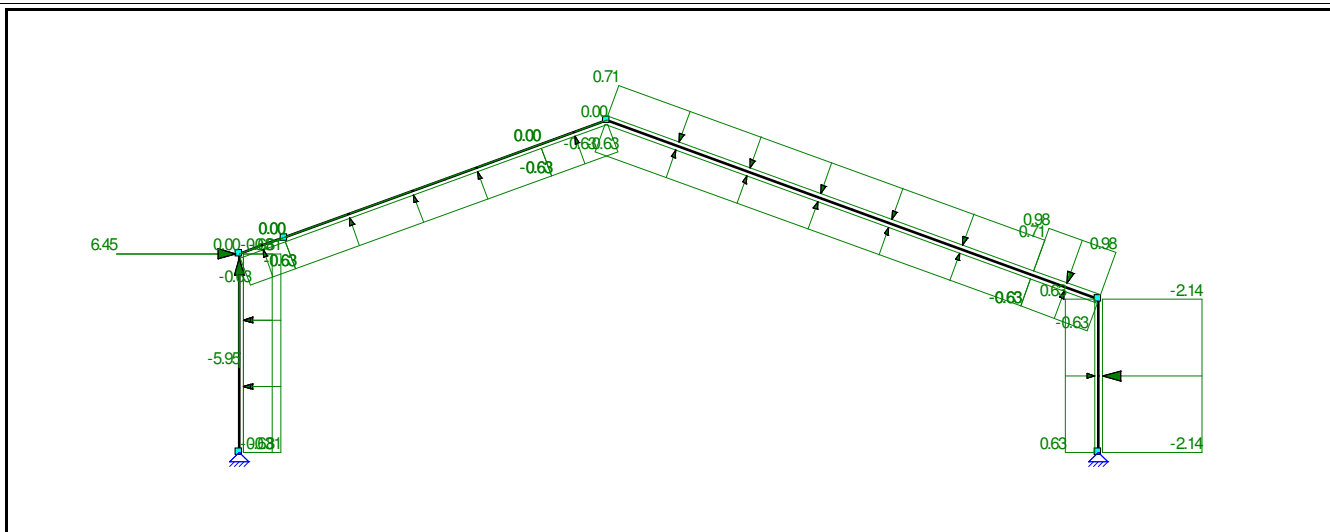
| Type                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting | Staaft of knoopp |
|----------------------------------------------------|-----------------|---------------------|--------------|-------------|----------|------------------|
| <b>B.G.18: Windbelasting van Rechts + Overdruk</b> |                 |                     |              |             |          |                  |
| q                                                  | -0,81 (q41)     | -0,81 (q41)         | 0,000        | 4,400(L)    | Z'       | S1               |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 4,400(L)    | Z'       | S1,S8            |
| q                                                  | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z'       | S3               |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z'       | S3               |
| q                                                  | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z'       | S3               |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z'       | S3               |
| q                                                  | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z'       | S4               |
| q                                                  | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z'       | S4               |
| N                                                  | -5,95           |                     |              |             | Z        | K2               |
| N                                                  | 6,45            |                     |              |             | X        | K2               |
| q                                                  | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 1,064(L)    | Z'       | S8               |
| q                                                  | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 6,016       | Z'       | S9               |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z'       | S9               |
| q                                                  | -2,23 (q44)     | -2,23 (q44)         | 6,016        | 7,580       | Z'       | S9               |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z'       | S9               |
| <b>Som lasten</b>                                  | <b>X: -4,74</b> | <b>kN Z: -37,74</b> | <b>kN</b>    |             |          |                  |
| -                                                  | -               | -                   | m            | m           | -        | -                |

### B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK



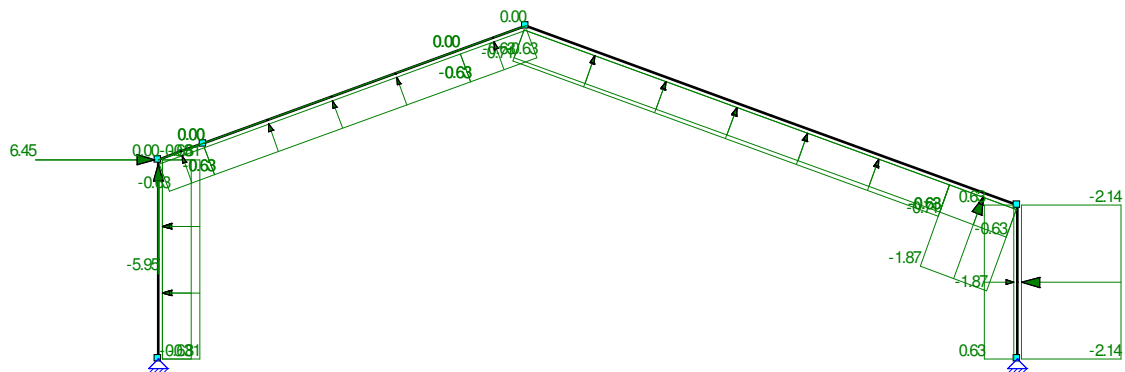
**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)**

| Type                                                        | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.19: Windbelasting van Rechts + Overdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                           | -0,81 (q50)     | -0,81 (q50)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                           | 0,71 (q54)      | 0,71 (q54)         | 0,000        | 10,006      | Z' S3                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 10,006      | Z' S3                   |
| q                                                           | 0,98 (q55)      | 0,98 (q55)         | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                           | -2,14 (-q56)    | -2,14 (-q56)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                           | 0,63 (q48)      | 0,63 (q48)         | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                           | -5,95           |                    |              |             | Z K2                    |
| N                                                           | 6,45            |                    |              |             | X K2                    |
| q                                                           | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                           | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 6,016       | Z' S9                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 6,016       | Z' S9                   |
| q                                                           | 0,00 (q53)      | 0,00 (q53)         | 6,016        | 7,580       | Z' S9                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                           | <b>X: -7,35</b> | <b>kN Z: -9,77</b> | <b>kN</b>    |             |                         |
| -                                                           | -               | -                  | m            | m           | - -                     |

**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)****B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.20: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                    | -0,81 (q41)     | -0,81 (q41)         | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S3                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S3                   |
| q                                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                    | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                    | -5,95           |                     |              |             | Z K2                    |
| N                                                                                    | 6,45            |                     |              |             | X K2                    |
| q                                                                                    | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                    | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 6,016       | Z' S9                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z' S9                   |
| q                                                                                    | 0,00 (q53)      | 0,00 (q53)          | 6,016        | 7,580       | Z' S9                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                    | <b>X: -0,96</b> | <b>kN Z: -27,35</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                   | m            | m           | - -                     |

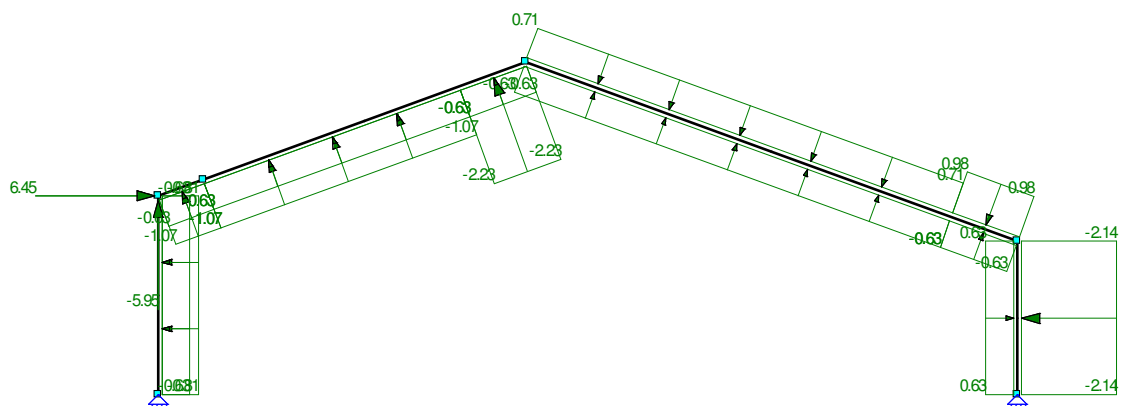
## B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



## B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

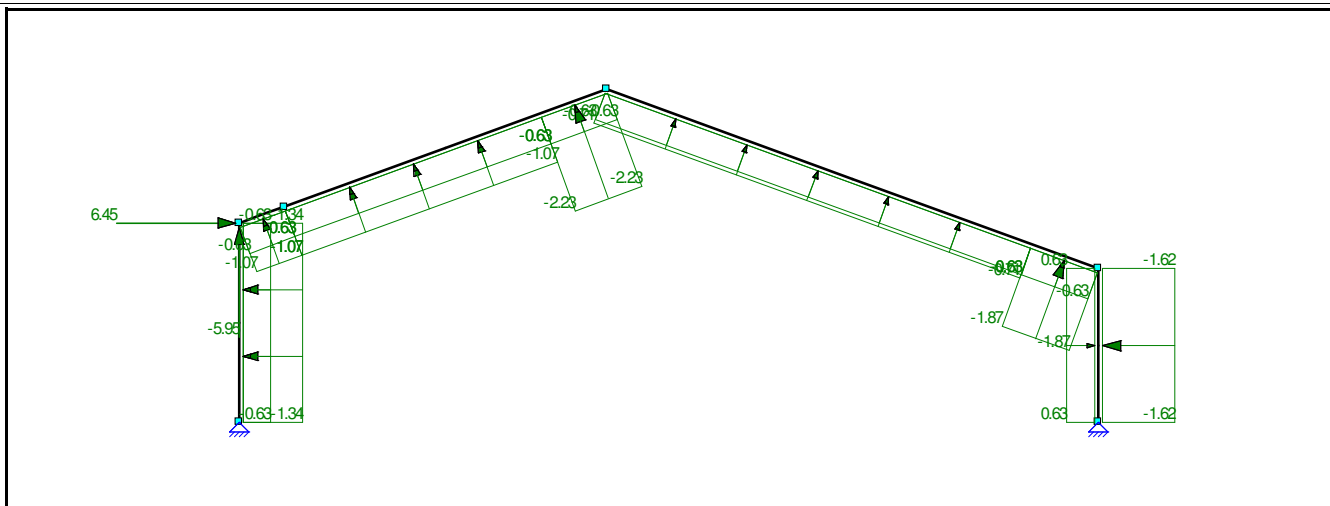
| Type                                                                                 | Beginwaarde      | Eindwaarde          | Beginafstand | Eindafstand | Richting | Staat of knoop |
|--------------------------------------------------------------------------------------|------------------|---------------------|--------------|-------------|----------|----------------|
| <b>B.G.21: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                  |                     |              |             |          |                |
| q                                                                                    | -0,81 (q41)      | -0,81 (q41)         | 0,000        | 4,400(L)    | Z'       | S1             |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 4,400(L)    | Z'       | S1,S8          |
| q                                                                                    | 0,71 (q54)       | 0,71 (q54)          | 0,000        | 10,006      | Z'       | S3             |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 10,006      | Z'       | S3             |
| q                                                                                    | 0,98 (q55)       | 0,98 (q55)          | 10,006       | 11,570(L)   | Z'       | S3             |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z'       | S3             |
| q                                                                                    | -2,14 (-q47)     | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z'       | S4             |
| q                                                                                    | 0,63 (q39)       | 0,63 (q39)          | 0,000        | 3,400(L)    | Z'       | S4             |
| N                                                                                    | -5,95            |                     |              |             | Z        | K2             |
| N                                                                                    | 6,45             |                     |              |             | X        | K2             |
| q                                                                                    | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 1,064(L)    | Z'       | S8             |
| q                                                                                    | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 6,016       | Z'       | S9             |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 6,016       | Z'       | S9             |
| q                                                                                    | -2,23 (q44)      | -2,23 (q44)         | 6,016        | 7,580       | Z'       | S9             |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 6,016        | 7,580       | Z'       | S9             |
| <b>Som lasten</b>                                                                    | <b>X: -11,12</b> | <b>kN Z: -20,16</b> | <b>kN</b>    | <b>m</b>    | <b>-</b> | <b>-</b>       |
| -                                                                                    | -                | -                   | m            | m           | -        | -              |

## B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



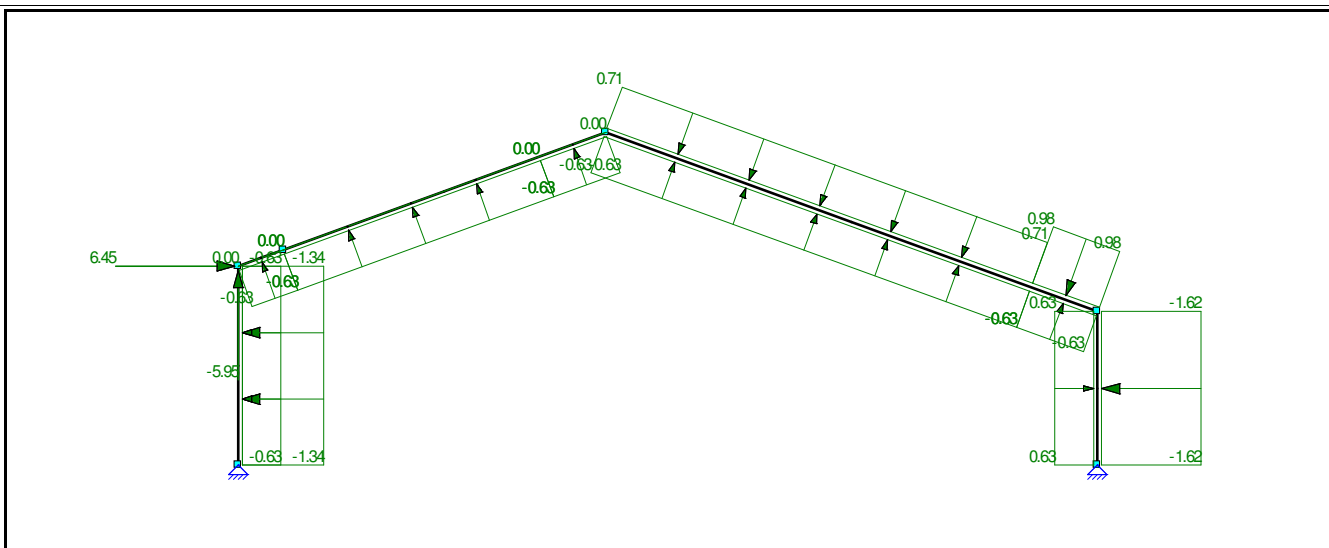
**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)**

| Type                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.22: Windbelasting van Rechts + Overdruk (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                    | -1,34 (q40)     | -1,34 (q40)         | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                    | -1,62 (-q42)    | -1,62 (-q42)        | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S3                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S3                   |
| q                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                    | -5,95           |                     |              |             | Z K2                    |
| N                                                                    | 6,45            |                     |              |             | X K2                    |
| q                                                                    | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                    | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 6,016       | Z' S9                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z' S9                   |
| q                                                                    | -2,23 (q44)     | -2,23 (q44)         | 6,016        | 7,580       | Z' S9                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                    | <b>X: -5,26</b> | <b>kN Z: -37,74</b> | <b>kN</b>    |             |                         |
| -                                                                    | -               | -                   | m            | m           | - -                     |

**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)****B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                          | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.23: Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                             | -1,34 (q49)     | -1,34 (q49)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                             | -1,62 (-q51)    | -1,62 (-q51)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                             | 0,71 (q54)      | 0,71 (q54)         | 0,000        | 10,006      | Z' S3                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 10,006      | Z' S3                   |
| q                                                                             | 0,98 (q55)      | 0,98 (q55)         | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                             | 0,63 (q48)      | 0,63 (q48)         | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                             | -5,95           |                    |              |             | Z K2                    |
| N                                                                             | 6,45            |                    |              |             | X K2                    |
| q                                                                             | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                             | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 6,016       | Z' S9                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 6,016       | Z' S9                   |
| q                                                                             | 0,00 (q53)      | 0,00 (q53)         | 6,016        | 7,580       | Z' S9                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                             | <b>X: -7,87</b> | <b>kN Z: -9,77</b> | <b>kN</b>    |             |                         |
| -                                                                             | -               | -                  | m            | m           | - -                     |

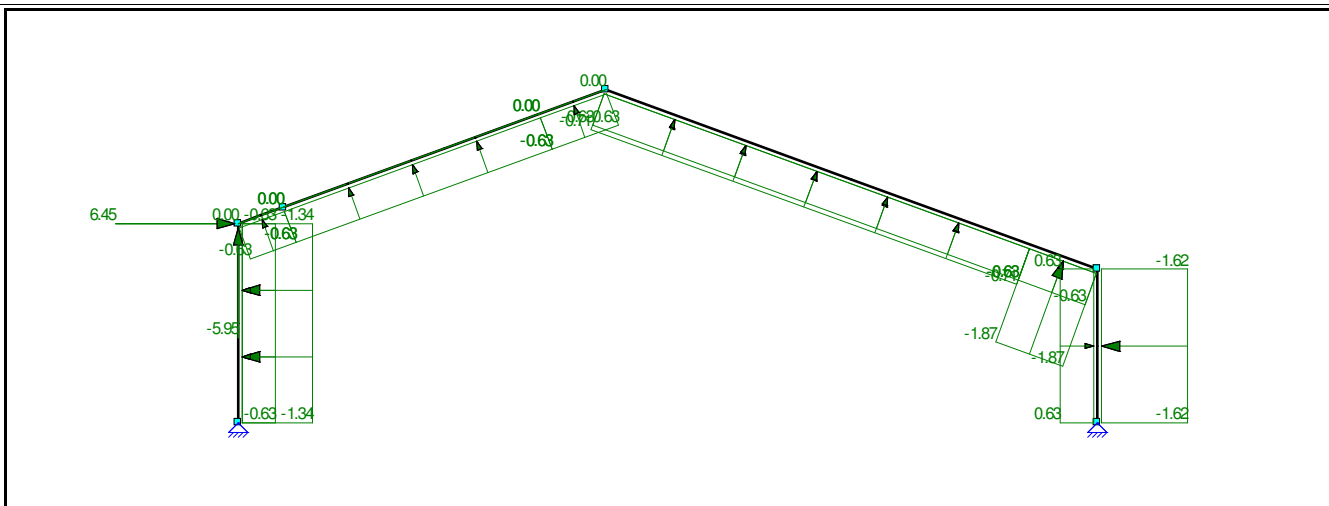
B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

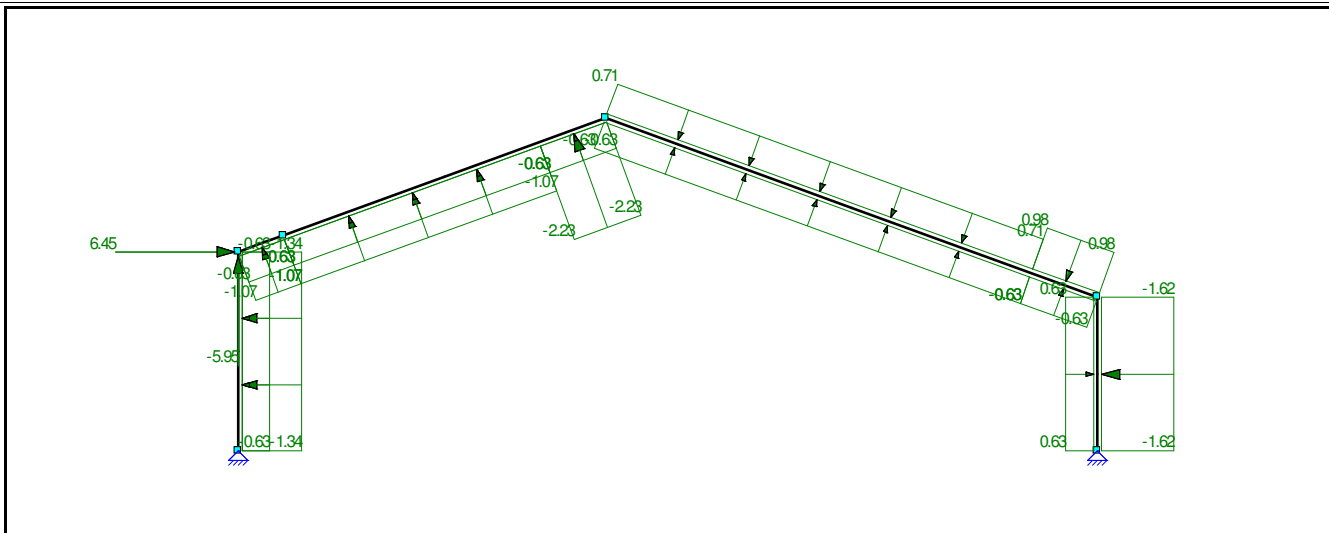
| Type                                                                                            | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.24: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |              |              |              |             |                         |
| q                                                                                               | -1,34 (q40)  | -1,34 (q40)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                               | -1,62 (-q42) | -1,62 (-q42) | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                               | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 10,006      | Z' S3                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 10,006      | Z' S3                   |
| q                                                                                               | -1,87 (q46)  | -1,87 (q46)  | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                               | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                               | -5,95        |              |              |             | Z K2                    |
| N                                                                                               | 6,45         |              |              |             | X K2                    |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 6,016       | Z' S9                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 6,016       | Z' S9                   |
| q                                                                                               | 0,00 (q53)   | 0,00 (q53)   | 6,016        | 7,580       | Z' S9                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 6,016        | 7,580       | Z' S9                   |
| Som lasten                                                                                      | X: -1,49     | kN Z: -27,35 | kN           |             |                         |
| -                                                                                               | -            | -            | m            | m           | - -                     |

B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



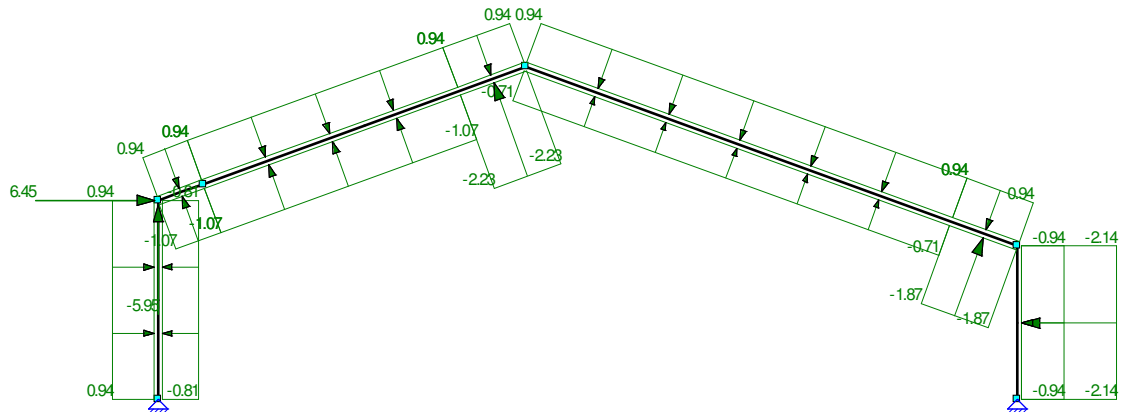
**B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde      | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.25: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                  |                     |              |             |                         |
| q                                                                                                      | -1,34 (q40)      | -1,34 (q40)         | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                      | -1,62 (-q42)     | -1,62 (-q42)        | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                                      | 0,71 (q54)       | 0,71 (q54)          | 0,000        | 10,006      | Z' S3                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 10,006      | Z' S3                   |
| q                                                                                                      | 0,98 (q55)       | 0,98 (q55)          | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                                      | 0,63 (q39)       | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                                      | -5,95            |                     |              |             | Z K2                    |
| N                                                                                                      | 6,45             |                     |              |             | X K2                    |
| q                                                                                                      | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                                      | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 6,016       | Z' S9                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 6,016       | Z' S9                   |
| q                                                                                                      | -2,23 (q44)      | -2,23 (q44)         | 6,016        | 7,580       | Z' S9                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                                      | <b>X: -11,64</b> | <b>kN Z: -20,16</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -                | -                   | m            | m           | - -                     |

**B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)****B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK**

| Type                                                | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.26: Windbelasting van Rechts + Onderdruk</b> |                 |                    |              |             |                         |
| q                                                   | -0,81 (q59)     | -0,81 (q59)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                   | -0,71 (q63)     | -0,71 (q63)        | 0,000        | 10,006      | Z' S3                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 10,006      | Z' S3                   |
| q                                                   | -1,87 (q64)     | -1,87 (q64)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                   | -2,14 (-q65)    | -2,14 (-q65)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                   | -0,94 (q57)     | -0,94 (q57)        | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                   | -5,95           |                    |              |             | Z K2                    |
| N                                                   | 6,45            |                    |              |             | X K2                    |
| q                                                   | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                   | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 6,016       | Z' S9                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 6,016       | Z' S9                   |
| q                                                   | -2,23 (q62)     | -2,23 (q62)        | 6,016        | 7,580       | Z' S9                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                   | <b>X: -4,74</b> | <b>kN Z: -7,88</b> | <b>kN</b>    |             |                         |
| -                                                   | -               | -                  | m            | m           | - -                     |

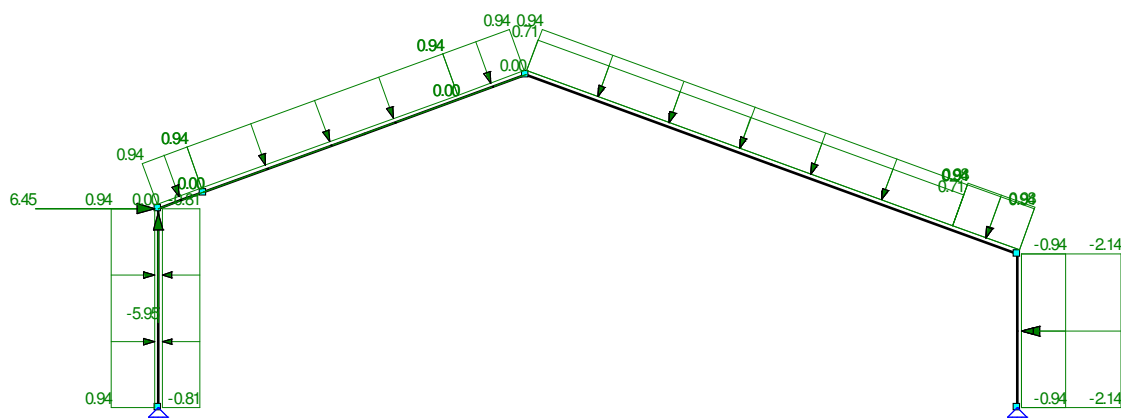
### B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK



### **B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)**

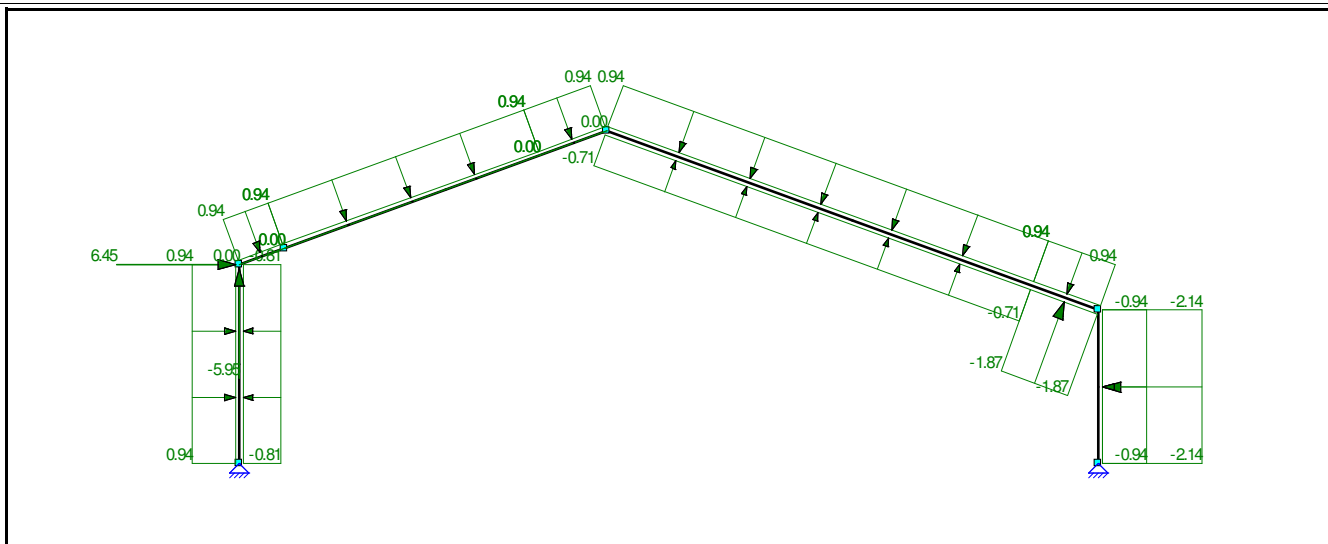
| Type                                                         | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.27: Windbelasting van Rechts + Onderdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                            | -0,81 (q68)     | -0,81 (q68)        | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                            | 0,71 (q72)      | 0,71 (q72)         | 0,000        | 10,006      | Z' S3                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 10,006      | Z' S3                   |
| q                                                            | 0,98 (q73)      | 0,98 (q73)         | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                            | -2,14 (-q74)    | -2,14 (-q74)       | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                            | -0,94 (q66)     | -0,94 (q66)        | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                            | -5,95           |                    |              |             | Z K2                    |
| N                                                            | 6,45            |                    |              |             | X K2                    |
| q                                                            | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                            | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 6,016       | Z' S9                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 6,016       | Z' S9                   |
| q                                                            | 0,00 (q71)      | 0,00 (q71)         | 6,016        | 7,580       | Z' S9                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                            | <b>X: -7,35</b> | <b>kN Z: 20,08</b> | <b>kN</b>    |             |                         |
| -                                                            | -               | -                  | m            | m           | - -                     |

B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)



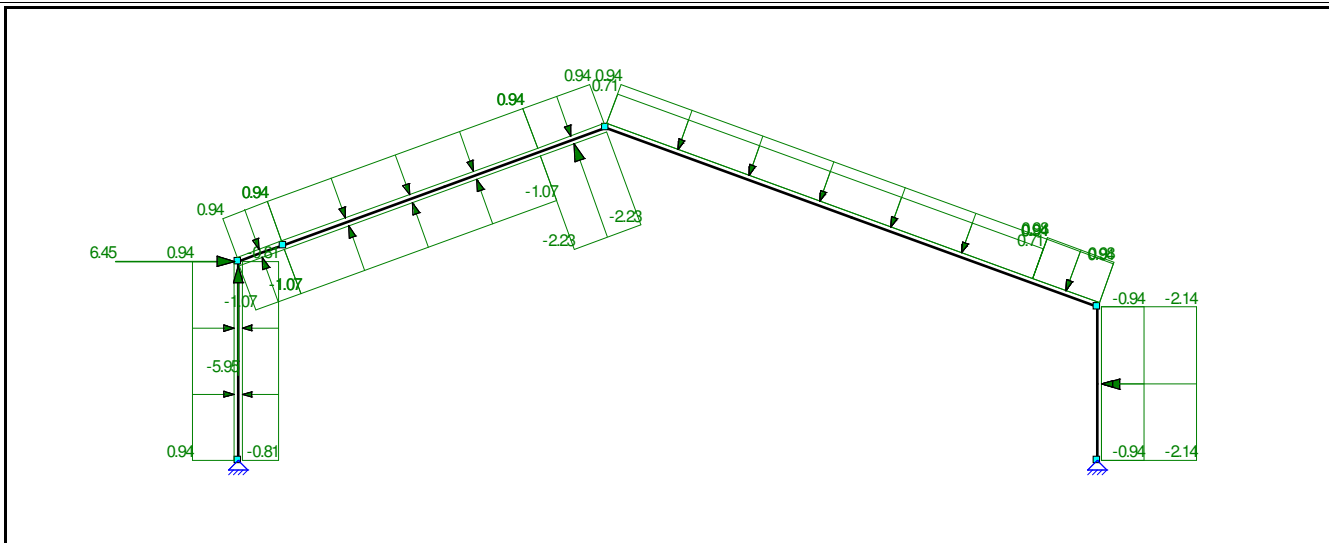
**B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                  | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.28: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                   |              |             |                         |
| q                                                                                     | -0,81 (q59)     | -0,81 (q59)       | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                     | -0,71 (q63)     | -0,71 (q63)       | 0,000        | 10,006      | Z' S3                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 10,006      | Z' S3                   |
| q                                                                                     | -1,87 (q64)     | -1,87 (q64)       | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                     | -2,14 (-q65)    | -2,14 (-q65)      | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                     | -0,94 (q57)     | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                     | -5,95           |                   |              |             | Z K2                    |
| N                                                                                     | 6,45            |                   |              |             | X K2                    |
| q                                                                                     | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                     | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 6,016       | Z' S9                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 6,016       | Z' S9                   |
| q                                                                                     | 0,00 (q71)      | 0,00 (q71)        | 6,016        | 7,580       | Z' S9                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                     | <b>X: -0,96</b> | <b>kN Z: 2,50</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                                                     | -               | -                 | m            | m           | - -                     |

**B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)****B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                  | Beginwaarde      | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------|------------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.29: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                  |                   |              |             |                         |
| q                                                                                     | -0,81 (q59)      | -0,81 (q59)       | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                     | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                     | 0,71 (q72)       | 0,71 (q72)        | 0,000        | 10,006      | Z' S3                   |
| q                                                                                     | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 10,006      | Z' S3                   |
| q                                                                                     | 0,98 (q73)       | 0,98 (q73)        | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                     | 0,94 (-q57)      | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                     | -2,14 (-q65)     | -2,14 (-q65)      | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                     | -0,94 (q57)      | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                     | -5,95            |                   |              |             | Z K2                    |
| N                                                                                     | 6,45             |                   |              |             | X K2                    |
| q                                                                                     | -1,07 (q61)      | -1,07 (q61)       | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                     | -1,07 (q61)      | -1,07 (q61)       | 0,000        | 6,016       | Z' S9                   |
| q                                                                                     | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 6,016       | Z' S9                   |
| q                                                                                     | -2,23 (q62)      | -2,23 (q62)       | 6,016        | 7,580       | Z' S9                   |
| q                                                                                     | 0,94 (-q57)      | 0,94 (-q57)       | 6,016        | 7,580       | Z' S9                   |
| <b>Som lasten</b>                                                                     | <b>X: -11,12</b> | <b>kN Z: 9,69</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                                                     | -                | -                 | m            | m           | - -                     |

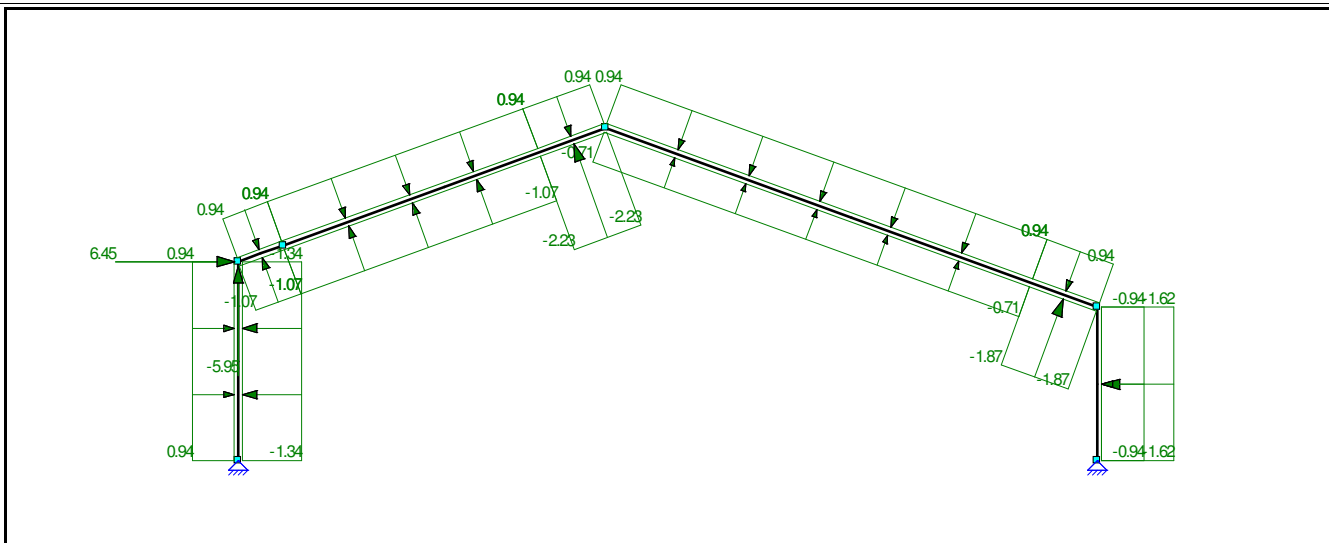
B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)

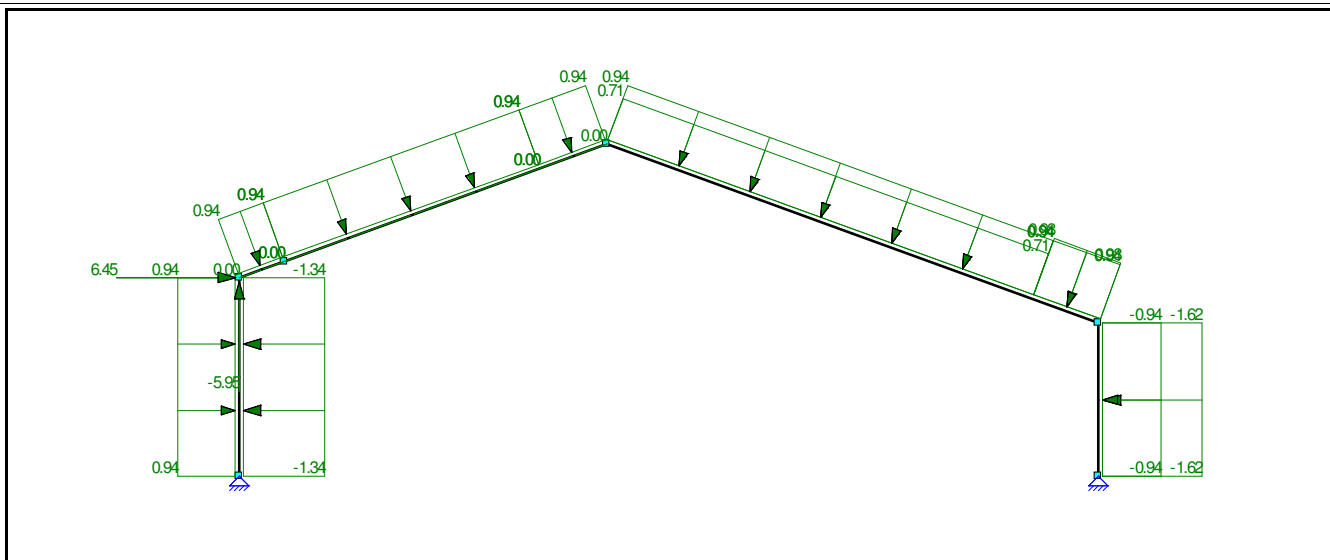
| Type                                                                  | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting | Staat of knoop |
|-----------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|----------|----------------|
| <b>B.G.30: Windbelasting van Rechts + Onderdruk (2e corr. factor)</b> |                 |                    |              |             |          |                |
| q                                                                     | -1,34 (q58)     | -1,34 (q58)        | 0,000        | 4,400(L)    | Z'       | S1             |
| q                                                                     | -1,62 (-q60)    | -1,62 (-q60)       | 0,000        | 3,400(L)    | Z'       | S4             |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 4,400(L)    | Z'       | S1,S8          |
| q                                                                     | -0,71 (q63)     | -0,71 (q63)        | 0,000        | 10,006      | Z'       | S3             |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 10,006      | Z'       | S3             |
| q                                                                     | -1,87 (q64)     | -1,87 (q64)        | 10,006       | 11,570(L)   | Z'       | S3             |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 10,006       | 11,570(L)   | Z'       | S3             |
| q                                                                     | -0,94 (q57)     | -0,94 (q57)        | 0,000        | 3,400(L)    | Z'       | S4             |
| N                                                                     | -5,95           |                    |              |             | Z        | K2             |
| N                                                                     | 6,45            |                    |              |             | X        | K2             |
| q                                                                     | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 1,064(L)    | Z'       | S8             |
| q                                                                     | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 6,016       | Z'       | S9             |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 6,016       | Z'       | S9             |
| q                                                                     | -2,23 (q62)     | -2,23 (q62)        | 6,016        | 7,580       | Z'       | S9             |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 6,016        | 7,580       | Z'       | S9             |
| <b>Som lasten</b>                                                     | <b>X: -5,26</b> | <b>kN Z: -7,88</b> | <b>kN</b>    |             |          |                |
| -                                                                     | -               | -                  | m            | m           | - -      |                |

B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)



**B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                           | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting | Staf of knoop |
|--------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|----------|---------------|
| <b>B.G.31: Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |          |               |
| q                                                                              | -1,34 (q67)     | -1,34 (q67)        | 0,000        | 4,400(L)    | Z' S1    |               |
| q                                                                              | -1,62 (-q69)    | -1,62 (-q69)       | 0,000        | 3,400(L)    | Z' S4    |               |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 4,400(L)    | Z' S1,S8 |               |
| q                                                                              | 0,71 (q72)      | 0,71 (q72)         | 0,000        | 10,006      | Z' S3    |               |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 10,006      | Z' S3    |               |
| q                                                                              | 0,98 (q73)      | 0,98 (q73)         | 10,006       | 11,570(L)   | Z' S3    |               |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 10,006       | 11,570(L)   | Z' S3    |               |
| q                                                                              | -0,94 (q66)     | -0,94 (q66)        | 0,000        | 3,400(L)    | Z' S4    |               |
| N                                                                              | -5,95           |                    |              |             | Z K2     |               |
| N                                                                              | 6,45            |                    |              |             | X K2     |               |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 1,064(L)    | Z' S8    |               |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 6,016       | Z' S9    |               |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 6,016       | Z' S9    |               |
| q                                                                              | 0,00 (q71)      | 0,00 (q71)         | 6,016        | 7,580       | Z' S9    |               |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 6,016        | 7,580       | Z' S9    |               |
| <b>Som lasten</b>                                                              | <b>X: -7,87</b> | <b>kN Z: 20,08</b> | <b>kN</b>    |             |          |               |
| -                                                                              | -               | -                  | m            | m           | - -      |               |

**B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)****B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

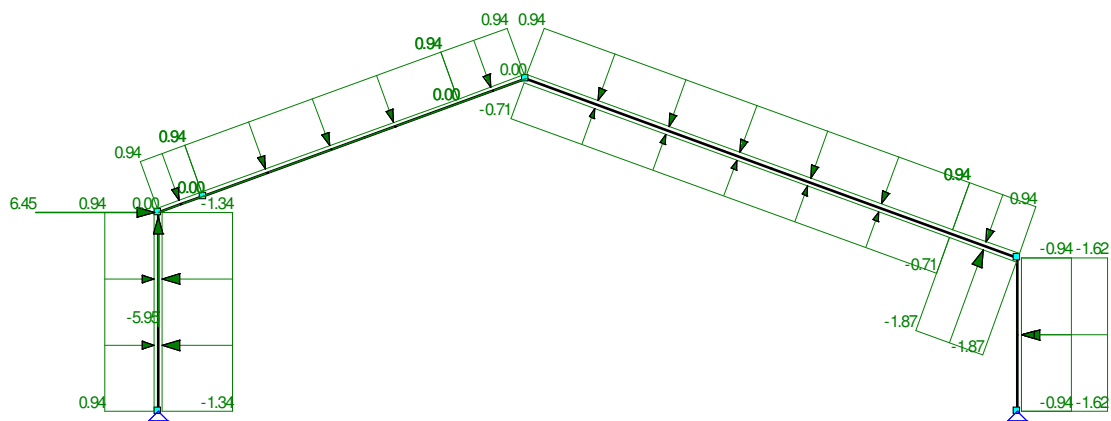
| Type                                                                                                    | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting | Staf of knoop |
|---------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|----------|---------------|
| <b>B.G.32: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                   |              |             |          |               |
| q                                                                                                       | -1,34 (q58)     | -1,34 (q58)       | 0,000        | 4,400(L)    | Z' S1    |               |
| q                                                                                                       | -1,62 (-q60)    | -1,62 (-q60)      | 0,000        | 3,400(L)    | Z' S4    |               |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 4,400(L)    | Z' S1,S8 |               |
| q                                                                                                       | -0,71 (q63)     | -0,71 (q63)       | 0,000        | 10,006      | Z' S3    |               |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 10,006      | Z' S3    |               |
| q                                                                                                       | -1,87 (q64)     | -1,87 (q64)       | 10,006       | 11,570(L)   | Z' S3    |               |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S3    |               |
| q                                                                                                       | -0,94 (q57)     | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S4    |               |
| N                                                                                                       | -5,95           |                   |              |             | Z K2     |               |
| N                                                                                                       | 6,45            |                   |              |             | X K2     |               |
| q                                                                                                       | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 1,064(L)    | Z' S8    |               |
| q                                                                                                       | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 6,016       | Z' S9    |               |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 6,016       | Z' S9    |               |
| q                                                                                                       | 0,00 (q71)      | 0,00 (q71)        | 6,016        | 7,580       | Z' S9    |               |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 6,016        | 7,580       | Z' S9    |               |
| <b>Som lasten</b>                                                                                       | <b>X: -1,49</b> | <b>kN Z: 2,50</b> | <b>kN</b>    |             |          |               |

m

m

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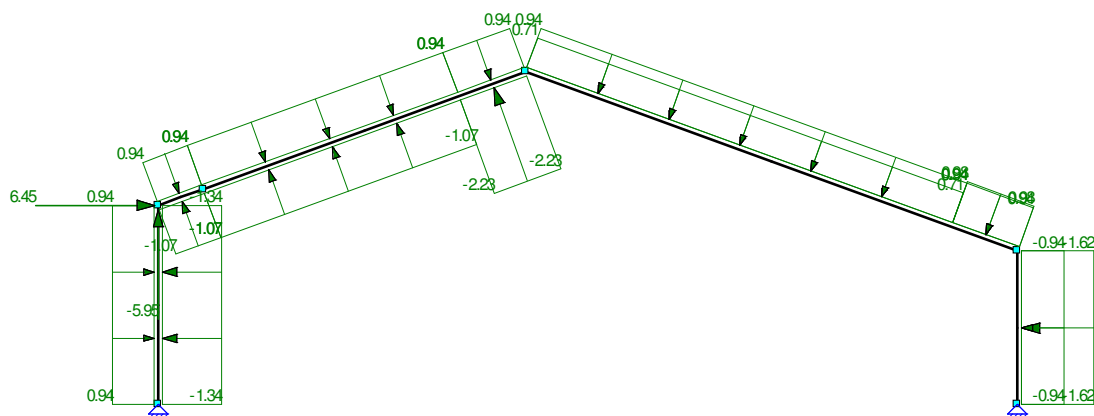
B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

| Type                                                                                             | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.33: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) |              |              |              |             |                         |
| q                                                                                                | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 4,400(L)    | Z' S1                   |
| q                                                                                                | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z' S4                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 4,400(L)    | Z' S1,S8                |
| q                                                                                                | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 10,006      | Z' S3                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 10,006      | Z' S3                   |
| q                                                                                                | 0,98 (q73)   | 0,98 (q73)   | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 10,006       | 11,570(L)   | Z' S3                   |
| q                                                                                                | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S4                   |
| N                                                                                                | -5,95        |              |              |             | Z K2                    |
| N                                                                                                | 6,45         |              |              |             | X K2                    |
| q                                                                                                | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 1,064(L)    | Z' S8                   |
| q                                                                                                | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 6,016       | Z' S9                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 6,016       | Z' S9                   |
| q                                                                                                | -2,23 (q62)  | -2,23 (q62)  | 6,016        | 7,580       | Z' S9                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 6,016        | 7,580       | Z' S9                   |
| Som lasten                                                                                       | X: -11,64    | kN Z: 9,69   | kN           |             |                         |
| -                                                                                                | -            | -            | m            | m           | --                      |

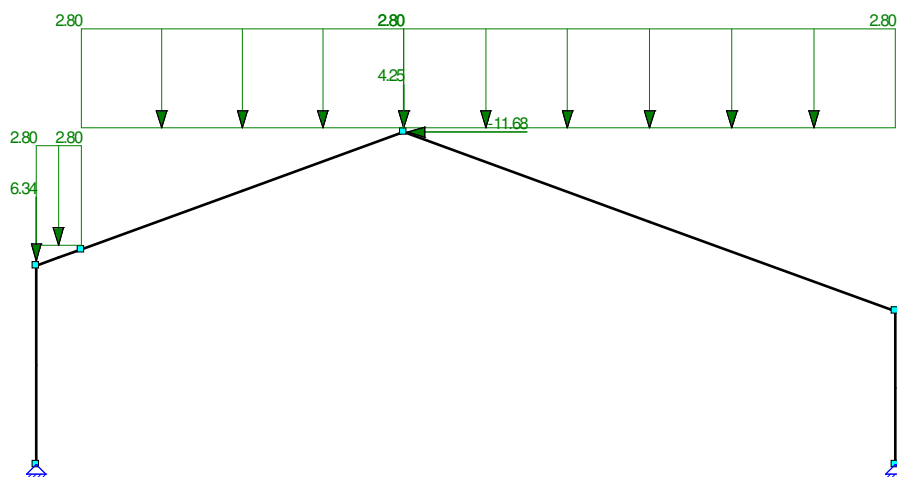
## B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



## B.G.34: SNEEUWBELASTING 1

| Type                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.34: Sneeuwbelasting 1</b> |             |             |              |             |                         |
| q                                | 2,80 (q75)  | 2,80 (q75)  | 0,000        | 10,875(L)   | Z S3,S8-S9              |
| N                                | 4,25        |             |              |             | Z K3                    |
| N                                | -11,68      |             |              |             | X K3                    |
| N                                | 6,34        |             |              |             | Z K2                    |
| Som lasten                       | X: -11,68   | kN Z: 63,79 | kN           |             |                         |
| -                                | -           | -           | m            | m           | - -                     |

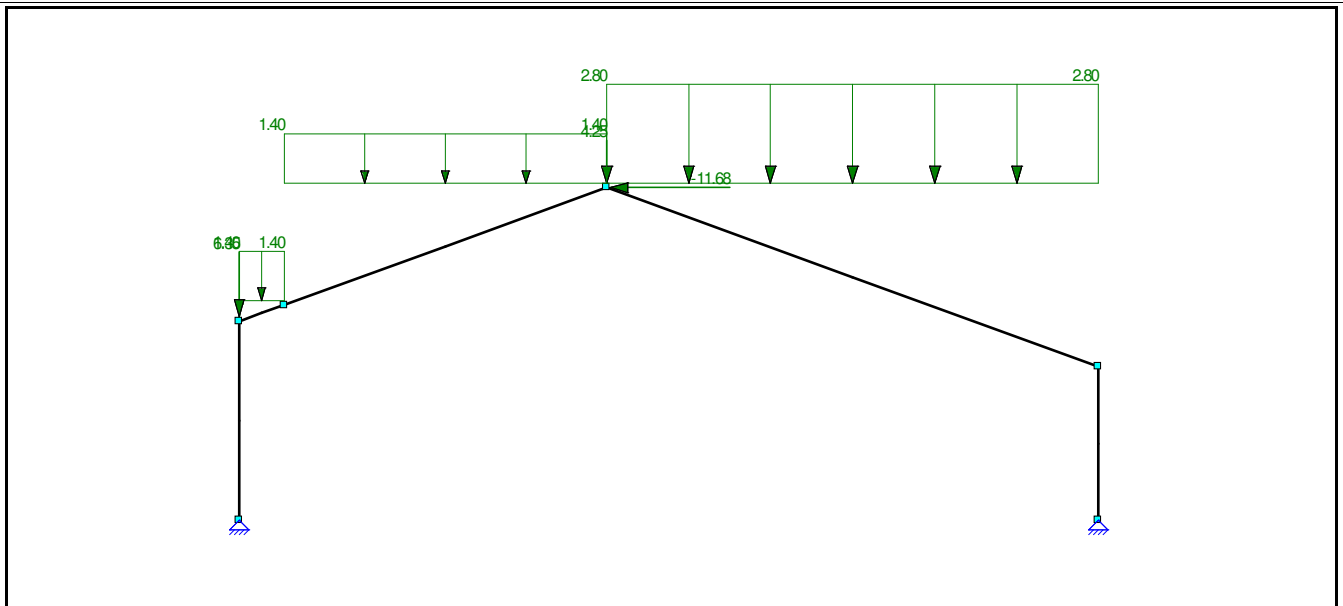
## B.G.34: SNEEUWBELASTING 1



## B.G.35: SNEEUWBELASTING 2

| Type                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.35: Sneeuwbelasting 2</b> |             |             |              |             |                         |
| q                                | 2,80 (q75)  | 2,80 (q75)  | 0,000        | 10,875(L)   | Z S3                    |
| N                                | 4,25        |             |              |             | Z K3                    |
| N                                | -11,68      |             |              |             | X K3                    |
| q                                | 1,40 (q76)  | 1,40 (q76)  | 0,000        | 1,000(L)    | Z S8-S9                 |
| N                                | 6,35        |             |              |             | Z K2                    |
| Som lasten                       | X: -11,68   | kN Z: 52,43 | kN           |             |                         |
| -                                | -           | -           | m            | m           | - -                     |

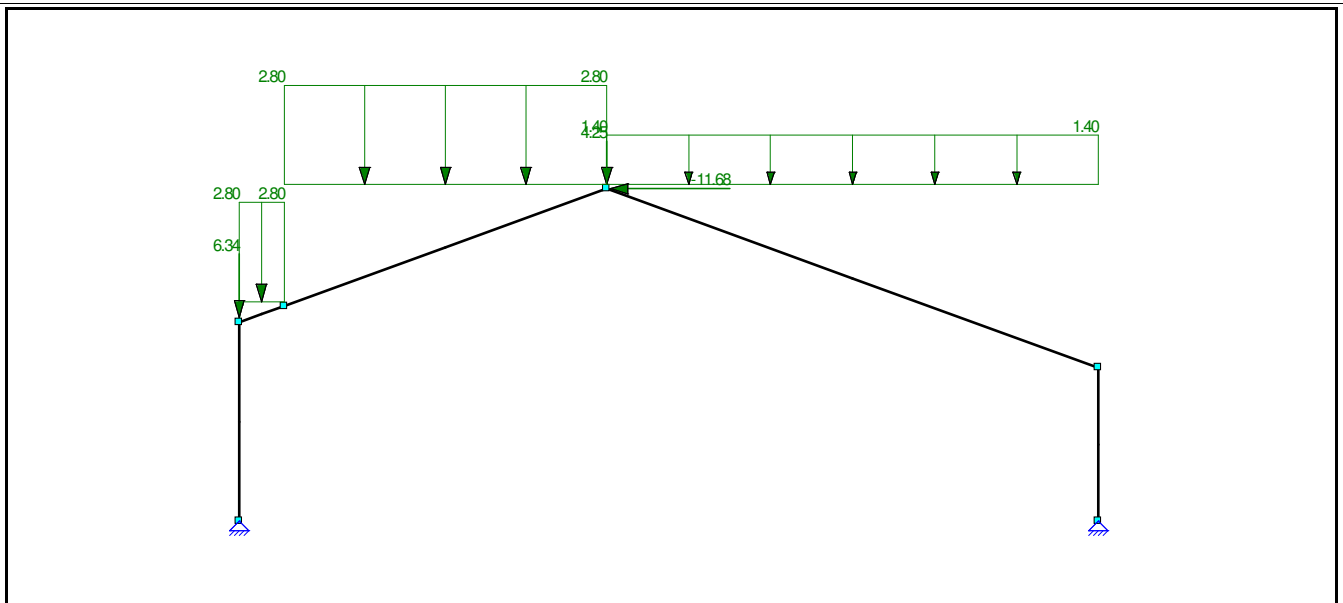
## B.G.35: SNEEUWBELASTING 2



## B.G.36: SNEEUWBELASTING 3

| Type                             | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.36: Sneeuwbelasting 3</b> |                  |                    |              |             |                         |
| q                                | 1,40 (q76)       | 1,40 (q76)         | 0,000        | 10,875(L)   | Z S3                    |
| N                                | 4,25             |                    |              |             | Z K3                    |
| N                                | -11,68           |                    |              |             | X K3                    |
| q                                | 2,80 (q75)       | 2,80 (q75)         | 0,000        | 1,000(L)    | Z S8-S9                 |
| N                                | 6,34             |                    |              |             | Z K2                    |
| <b>Som lasten</b>                | <b>X: -11,68</b> | <b>kN Z: 48,57</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                | -                | -                  | m            | m           | - -                     |

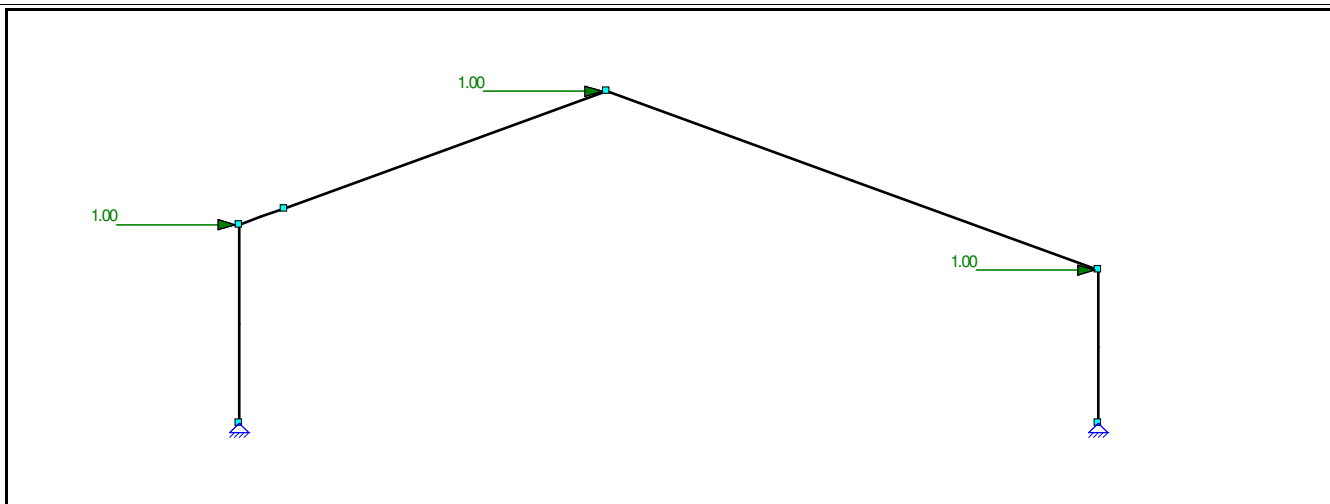
## B.G.36: SNEEUWBELASTING 3



## B.G.37: KNIKLENGTE

| Type                      | Beginwaarde    | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------|----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.37: Kniklengte</b> |                |                   |              |             |                         |
| N                         | 1,00           |                   |              |             | X K2-K4                 |
| <b>Som lasten</b>         | <b>X: 3,00</b> | <b>kN Z: 0,00</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                         | -              | -                 | m            | m           | - -                     |

B.G.37: KNIKLENGTE

**FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)**

| B.G.   | Omschrijving                                                                               | Fu.C.1 | Fu.C.2<br>(Overslaan) | Fu.C.3 | Fu.C.4 | Fu.C.5 | Fu.C.6<br>(Overslaan) | Fu.C.7 | Fu.C.8 |
|--------|--------------------------------------------------------------------------------------------|--------|-----------------------|--------|--------|--------|-----------------------|--------|--------|
| B.G.1  | Permanente Belasting                                                                       | 0.90   | 0.90                  | 0.90   | 0.90   | 0.90   | 0.90                  | 0.90   | 0.90   |
| B.G.2  | Windbelasting van Links + Overdruk                                                         | 1.13   | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.3  | Windbelasting van Links + Overdruk (2e Cpe)                                                | -      | 1.13                  | -      | -      | -      | -                     | -      | -      |
| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                    | -      | -                     | 1.13   | -      | -      | -                     | -      | -      |
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                    | -      | -                     | -      | 1.13   | -      | -                     | -      | -      |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr.<br>factor)                                    | -      | -                     | -      | -      | 1.13   | -                     | -      | -      |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e<br>corr. factor)                           | -      | -                     | -      | -      | -      | 1.13                  | -      | -      |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -      | -                     | -      | -      | -      | -                     | 1.13   | -      |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -      | -                     | -      | -      | -      | -                     | -      | 1.13   |
| B.G.10 | Windbelasting van Links + Onderdruk                                                        | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                               | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.14 | Windbelasting van Links + Onderdruk (2e corr.<br>factor)                                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe)<br>(2e corr. factor)                          | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                        | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                               | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr.<br>factor)                                   | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe)<br>(2e corr. factor)                          | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                       | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                              | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                  | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                  | -      | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr.<br>factor)                                  | -      | -                     | -      | -      | -      | -                     | -      | -      |

| Wopereis Staalbouw |  |  | Pos 3 - Tussenspannt |  |  |  |  |  |  |
|--------------------|--|--|----------------------|--|--|--|--|--|--|
|--------------------|--|--|----------------------|--|--|--|--|--|--|

|             |                                                                                               |                                    |                                     |                                     |                |                                     |                                     |                                     |                |
|-------------|-----------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------|
| B.G.31      | Windbelasting van Rechts + Onderdruk (2e Cpe) -<br>(2e corr. factor)                          | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.32      | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.33      | Windbelasting van Rechts + Onderdruk (Zadeldak -<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.34      | Sneeuwbelasting 1                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.35      | Sneeuwbelasting 2                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.36      | Sneeuwbelasting 3                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.37      | Kniklengte                                                                                    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| <b>B.G.</b> | <b>Omschrijving</b>                                                                           | <b>Fu.C.9<br/>(Overslaan<br/>)</b> | <b>Fu.C.10</b>                      | <b>Fu.C.11<br/>(Overslaan<br/>)</b> | <b>Fu.C.12</b> | <b>Fu.C.13<br/>(Overslaan<br/>)</b> | <b>Fu.C.14<br/>(Overslaan<br/>)</b> | <b>Fu.C.15<br/>(Overslaan<br/>)</b> | <b>Fu.C.16</b> |
| B.G.1       | Permanente Belasting                                                                          | 1.08                               | 1.08                                | 1.08                                | 1.08           | 1.08                                | 1.08                                | 1.08                                | 1.08           |
| B.G.2       | Windbelasting van Links + Overdruk                                                            | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.3       | Windbelasting van Links + Overdruk (2e Cpe)                                                   | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.4       | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                       | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.5       | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                       | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.6       | Windbelasting van Links + Overdruk (2e corr.<br>factor)                                       | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.7       | Windbelasting van Links + Overdruk (2e Cpe) (2e<br>corr. factor)                              | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)     | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)     | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.10      | Windbelasting van Links + Onderdruk                                                           | 1.13                               | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                                  | -                                  | 1.13                                | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                      | -                                  | -                                   | 1.13                                | -              | -                                   | -                                   | -                                   | -              |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                      | -                                  | -                                   | -                                   | 1.13           | -                                   | -                                   | -                                   | -              |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr.<br>factor)                                      | -                                  | -                                   | -                                   | -              | 1.13                                | -                                   | -                                   | -              |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe)<br>(2e corr. factor)                             | -                                  | -                                   | -                                   | -              | -                                   | 1.13                                | -                                   | -              |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | 1.13                                | -              |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | 1.13           |
| B.G.18      | Windbelasting van Rechts + Overdruk                                                           | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.19      | Windbelasting van Rechts + Overdruk (2e Cpe)                                                  | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.20      | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                      | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.21      | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                      | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.22      | Windbelasting van Rechts + Overdruk (2e corr.<br>factor)                                      | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.23      | Windbelasting van Rechts + Overdruk (2e Cpe)<br>(2e corr. factor)                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.24      | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.25      | Windbelasting van Rechts + Overdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.26      | Windbelasting van Rechts + Onderdruk                                                          | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.27      | Windbelasting van Rechts + Onderdruk (2e Cpe)                                                 | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.28      | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe)                     | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.29      | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe)                     | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.30      | Windbelasting van Rechts + Onderdruk (2e corr.<br>factor)                                     | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.31      | Windbelasting van Rechts + Onderdruk (2e Cpe)<br>(2e corr. factor)                            | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.32      | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.33      | Windbelasting van Rechts + Onderdruk (Zadeldak<br>FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.34      | Sneeuwbelasting 1                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.35      | Sneeuwbelasting 2                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.36      | Sneeuwbelasting 3                                                                             | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.37      | Kniklengte                                                                                    | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| <b>B.G.</b> | <b>Omschrijving</b>                                                                           | <b>Fu.C.17</b>                     | <b>Fu.C.18<br/>(Overslaan<br/>)</b> | <b>Fu.C.19</b>                      | <b>Fu.C.20</b> | <b>Fu.C.21</b>                      | <b>Fu.C.22<br/>(Overslaan<br/>)</b> | <b>Fu.C.23</b>                      | <b>Fu.C.24</b> |
| B.G.1       | Permanente Belasting                                                                          | 0.90                               | 0.90                                | 0.90                                | 0.90           | 0.90                                | 0.90                                | 0.90                                | 0.90           |
| B.G.2       | Windbelasting van Links + Overdruk                                                            | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |
| B.G.3       | Windbelasting van Links + Overdruk (2e Cpe)                                                   | -                                  | -                                   | -                                   | -              | -                                   | -                                   | -                                   | -              |

| Wopereis Staalbouw |  | Pos 3 - Tussenspan |
|--------------------|--|--------------------|
|--------------------|--|--------------------|

| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
|--------|------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|------------------------|------------------------|------------------------|---------|
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.10 | Windbelasting van Links + Onderdruk                                                      | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.14 | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                      | 1.13                   | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                      | 1.13    | -                      | -       | -                      | -                      | -                      | -       |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                      | -       | 1.13                   | -       | -                      | -                      | -                      | -       |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                      | -       | -                      | 1.13    | -                      | -                      | -                      | -       |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                      | -       | -                      | -       | 1.13                   | -                      | -                      | -       |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                      | -       | -                      | -       | -                      | 1.13                   | -                      | -       |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                      | -       | -                      | -       | -                      | -                      | 1.13                   | -       |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                      | -       | -                      | -       | -                      | -                      | -                      | 1.13    |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.34 | Sneeuwbelasting 1                                                                        | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.35 | Sneeuwbelasting 2                                                                        | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.36 | Sneeuwbelasting 3                                                                        | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.37 | Kniklengte                                                                               | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.   | Omschrijving                                                                             | Fu.C.25<br>(Overslaan) | Fu.C.26 | Fu.C.27<br>(Overslaan) | Fu.C.28 | Fu.C.29<br>(Overslaan) | Fu.C.30<br>(Overslaan) | Fu.C.31<br>(Overslaan) | Fu.C.32 |
| B.G.1  | Permanente Belasting                                                                     | 1.08                   | 1.08    | 1.08                   | 1.08    | 1.08                   | 1.08                   | 1.08                   | 1.08    |
| B.G.2  | Windbelasting van Links + Overdruk                                                       | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.3  | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.10 | Windbelasting van Links + Onderdruk                                                      | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                      | -       | -                      | -       | -                      | -                      | -                      | -       |

| Wopereis Staalbouw |  | Pos 3 - Tussenspan |  |  |  |  |  |  |
|--------------------|--|--------------------|--|--|--|--|--|--|
|--------------------|--|--------------------|--|--|--|--|--|--|

| B.G.14 | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -       | -       | -       | -                   | -                   | -    | -    |
|--------|------------------------------------------------------------------------------------------|---------|---------|---------|---------------------|---------------------|------|------|
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                      | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                     | 1.13    | -       | -       | -                   | -                   | -    | -    |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -       | 1.13    | -       | -                   | -                   | -    | -    |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -       | -       | 1.13    | -                   | -                   | -    | -    |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -       | -       | -       | 1.13                | -                   | -    | -    |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -       | -       | -       | -                   | 1.13                | -    | -    |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -       | -       | -       | -                   | -                   | 1.13 | -    |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -       | -       | -       | -                   | -                   | -    | 1.13 |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -       | -       | -       | -                   | -                   | -    | 1.13 |
| B.G.34 | Sneeuwbelasting 1                                                                        | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.35 | Sneeuwbelasting 2                                                                        | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.36 | Sneeuwbelasting 3                                                                        | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.37 | Kniklengte                                                                               | -       | -       | -       | -                   | -                   | -    | -    |
| B.G.   | Omschrijving                                                                             | Fu.C.33 | Fu.C.34 | Fu.C.35 | Fu.C.36 (Overslaan) | Fu.C.37 (Overslaan) |      |      |
| B.G.1  | Permanente Belasting                                                                     | 1.08    | 1.08    | 1.08    | 1.22                | 0.90                |      |      |
| B.G.2  | Windbelasting van Links + Overdruk                                                       | -       | -       | -       | -                   | -                   |      |      |
| B.G.3  | Windbelasting van Links + Overdruk (2e Cpe)                                              | -       | -       | -       | -                   | -                   |      |      |
| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -       | -       | -       | -                   | -                   |      |      |
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -       | -       | -       | -                   | -                   |      |      |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -       | -       | -       | -                   | -                   |      |      |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -       | -       | -       | -                   | -                   |      |      |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -       | -       | -       | -                   | -                   |      |      |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -       | -       | -       | -                   | -                   |      |      |
| B.G.10 | Windbelasting van Links + Onderdruk                                                      | -       | -       | -       | -                   | -                   |      |      |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -       | -       | -       | -                   | -                   |      |      |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.14 | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -       | -       | -       | -                   | -                   |      |      |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   |      |      |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -       | -       | -                   | -                   |      |      |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                      | -       | -       | -       | -                   | -                   |      |      |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -       | -       | -       | -                   | -                   |      |      |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -       | -       | -       | -                   | -                   |      |      |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -       | -       | -       | -                   | -                   |      |      |

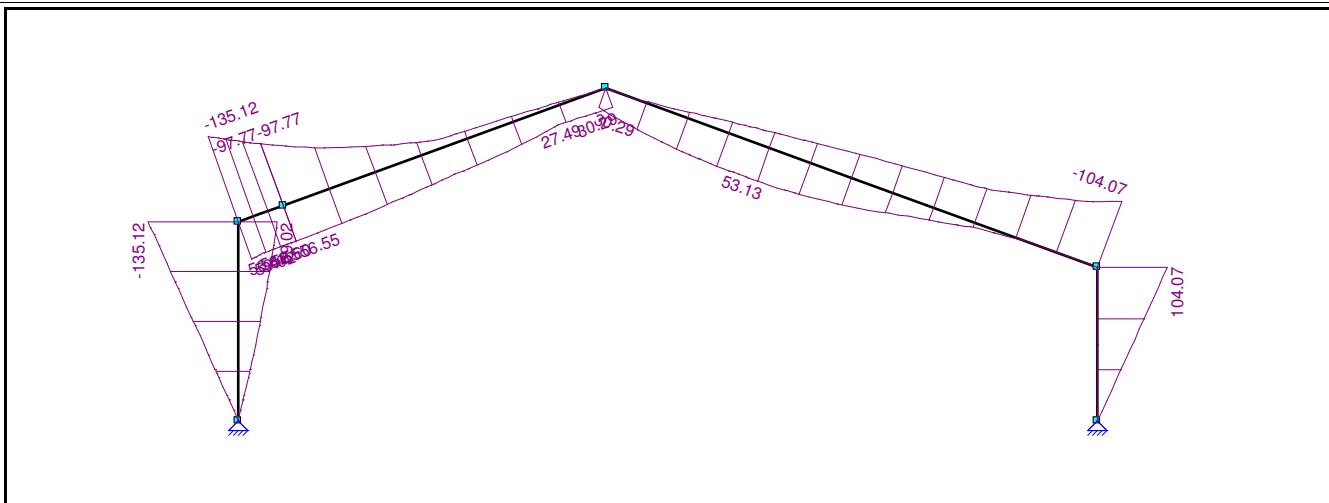
|        |                                                                                            |      |      |      |   |
|--------|--------------------------------------------------------------------------------------------|------|------|------|---|
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -    | -    | -    | - |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -    | -    | -    | - |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                       | -    | -    | -    | - |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                              | -    | -    | -    | - |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe)                   | -    | -    | -    | - |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe)                   | -    | -    | -    | - |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                     | -    | -    | -    | - |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                            | -    | -    | -    | - |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -    | -    | -    | - |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -    | -    | -    | - |
| B.G.34 | Sneeuwbelasting 1                                                                          | 1.01 | -    | -    | - |
| B.G.35 | Sneeuwbelasting 2                                                                          | -    | 1.01 | -    | - |
| B.G.36 | Sneeuwbelasting 3                                                                          | -    | -    | 1.01 | - |
| B.G.37 | Kniklengte                                                                                 | -    | -    | -    | - |

## UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

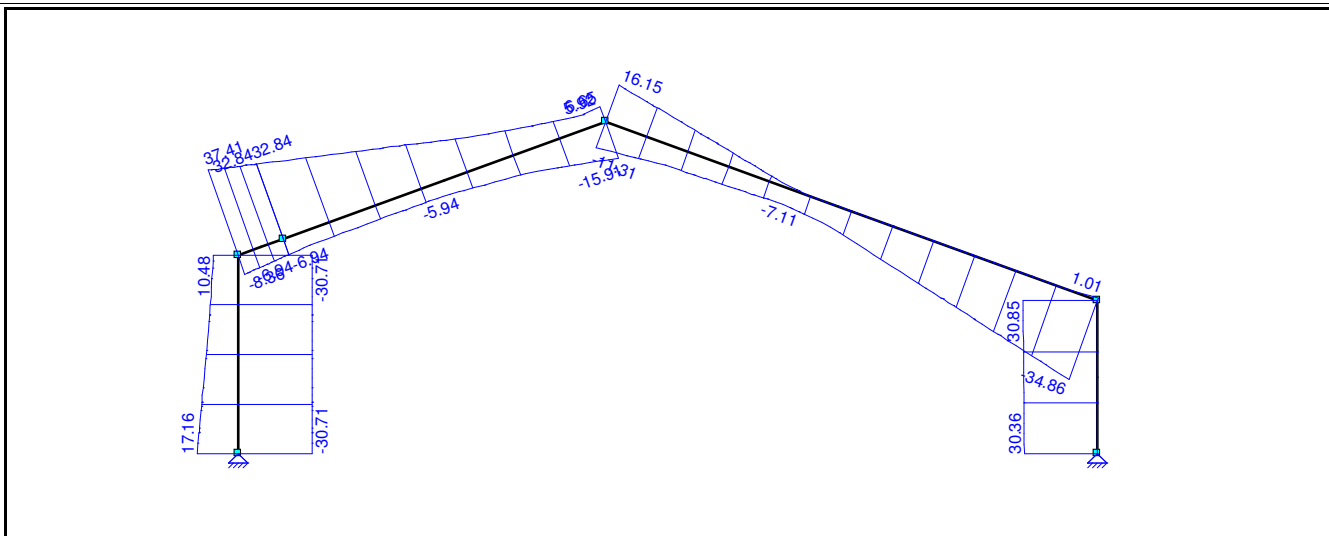
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



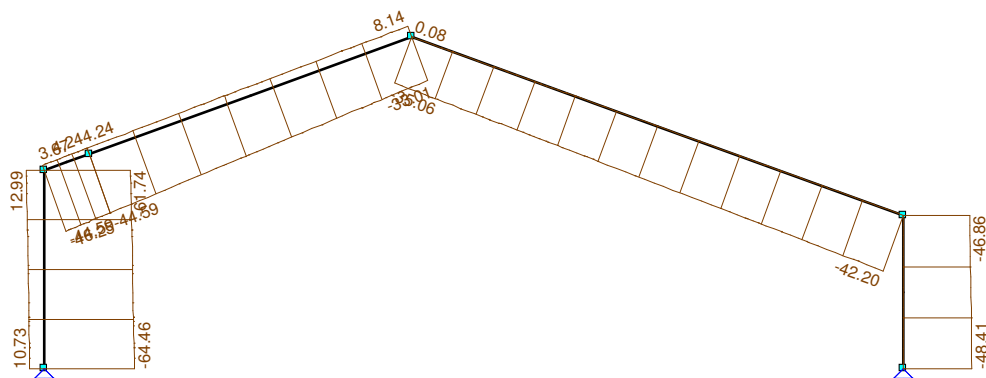
AFB. FU.C. DRWARKRACHT (VZ) / SHEAR FORCE (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) / NORMAL FORCE (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



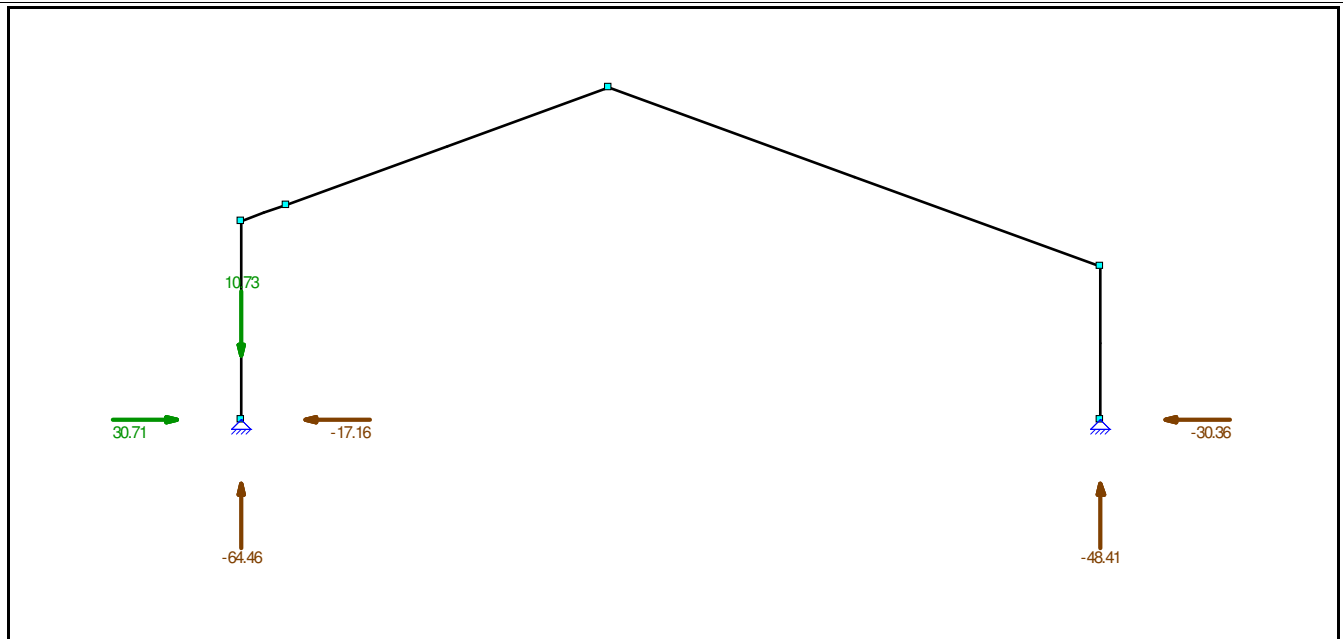
## FU.C. STAAFKRACHTEN

| Staaf | B.C.    | Mb    | Mmax   | xMmax  | Me      | x-M0  | x-M0 T/D | Nmax   | Vb     | Vmax   | Ve     |
|-------|---------|-------|--------|--------|---------|-------|----------|--------|--------|--------|--------|
| S1    | Fu.C.1  | 0.00  |        |        | 59.02   | 0.000 | 0.000 T  | 12.99  | 17.16  | 17.16  | 9.67   |
|       | Fu.C.3  | 0.00  |        |        | 28.20   | 0.000 | 0.000 T  | 6.60   | 10.15  | 10.15  | 2.67   |
|       | Fu.C.4  | 0.00  |        |        | 55.93   | 0.000 | 0.000 T  | 2.14   | 16.45  | 16.45  | 8.97   |
|       | Fu.C.5  | 0.00  |        |        | 56.91   | 0.000 | 0.000 T  | 12.87  | 15.38  | 15.38  | 10.48  |
|       | Fu.C.7  | 0.00  |        |        | 26.09   | 0.000 | 0.000 T  | 6.48   | 8.38   | 8.38   | 3.48   |
|       | Fu.C.8  | 0.00  |        |        | 53.82   | 0.000 | 0.000 T  | 2.02   | 14.68  | 14.68  | 9.78   |
|       | Fu.C.10 | 0.00  | 1.93   | 1.056  | -17.49  | 2.111 | 0.000 D  | -27.37 | 3.67   | -11.61 | -11.61 |
|       | Fu.C.12 | 0.00  | 16.40  | 3.073  | 13.34   | 0.000 | 0.000 D  | -20.99 | 10.67  | 10.67  | -4.61  |
|       | Fu.C.16 | 0.00  | 13.72  | 3.084  | 11.22   | 0.000 | 0.000 D  | -21.11 | 8.90   | 8.90   | -3.80  |
|       | Fu.C.17 | 0.00  |        |        | 17.97   | 0.000 | 0.000 T  | 7.32   | 0.50   | 7.66   | 7.66   |
|       | Fu.C.19 | 0.00  | -0.19  | 0.481  | 12.31   | 0.961 | 0.000 D  | -2.46  | -0.78  | 6.38   | 6.38   |
|       | Fu.C.20 | 0.00  |        |        | -18.10  | 0.000 | 0.000 D  | -1.99  | -7.69  | -7.69  | -0.53  |
|       | Fu.C.21 | 0.00  | -0.36  | 0.573  | 15.85   | 1.146 | 0.000 T  | 7.20   | -1.27  | 8.48   | 8.48   |
|       | Fu.C.23 | 0.00  | -1.47  | 1.153  | 10.20   | 2.307 | 0.000 D  | -2.58  | -2.55  | 7.19   | 7.19   |
|       | Fu.C.24 | 0.00  | -20.23 | 4.274  | -20.21  | 0.000 | 0.000 D  | -2.11  | -9.47  | -9.47  | 0.28   |
|       | Fu.C.26 | 0.00  |        |        | -66.35  | 0.000 | 0.000 D  | -30.37 | -14.76 | -15.40 | -15.40 |
|       | Fu.C.28 | 0.00  |        |        | -60.69  | 0.000 | 0.000 D  | -22.86 | -13.48 | -14.11 | -14.11 |
|       | Fu.C.32 | 0.00  |        |        | -62.81  | 0.000 | 0.000 D  | -22.98 | -15.25 | -15.25 | -13.30 |
|       | Fu.C.33 | 0.00  |        |        | -135.12 | 0.000 | 0.000 D  | -64.46 | -30.71 | -30.71 | -30.71 |
|       | Fu.C.34 | 0.00  |        |        | -121.59 | 0.000 | 0.000 D  | -55.40 | -27.63 | -27.63 | -27.63 |
| S3    | Fu.C.35 | 0.00  |        |        | -114.73 | 0.000 | 0.000 D  | -60.04 | -26.08 | -26.08 | -26.08 |
|       | Fu.C.1  | 5.87  |        |        | -42.92  | 0.701 | 0.000 D  | -10.92 | -9.01  | -9.01  | -1.19  |
|       | Fu.C.3  | 6.26  |        |        | -48.18  | 3.421 | 0.000 D  | -15.33 | -0.62  | -8.79  | -8.79  |
|       | Fu.C.4  | 9.14  |        |        | -64.33  | 0.883 | 0.000 D  | -18.39 | -11.15 | -11.15 | -3.33  |
|       | Fu.C.5  | 7.14  |        |        | -43.56  | 0.848 | 0.000 D  | -10.12 | -9.18  | -9.18  | -1.36  |
|       | Fu.C.7  | 7.52  |        |        | -48.82  | 3.635 | 0.000 D  | -14.52 | -0.78  | -8.95  | -8.95  |
|       | Fu.C.8  | 10.40 |        |        | -64.97  | 0.999 | 0.000 D  | -17.59 | -11.31 | -11.31 | -3.49  |
|       | Fu.C.10 | 9.75  | 16.58  | 2.225  | -104.07 | 5.690 | 0.000 D  | -42.20 | 6.15   | -25.82 | -25.82 |
|       | Fu.C.12 | 9.36  |        |        | -98.81  | 3.033 | 0.000 D  | -37.80 | -2.25  | -18.22 | -18.22 |
|       | Fu.C.16 | 10.62 |        |        | -99.44  | 3.179 | 0.000 D  | -36.99 | -2.41  | -18.39 | -18.39 |
|       | Fu.C.17 | 4.27  | -13.03 | 10.852 | -12.67  | 2.065 | 0.000 D  | -6.67  | -2.17  | -2.17  | 1.01   |
|       | Fu.C.19 | 9.26  |        |        | -31.50  | 2.249 | 0.000 D  | -13.31 | -4.23  | -4.23  | -1.05  |
|       | Fu.C.20 | 1.29  | 18.74  | 4.812  | -16.06  | 9.798 | 0.000 D  | -11.97 | 7.25   | -10.66 | -10.66 |
|       | Fu.C.21 | 5.53  | -13.55 | 10.968 | -13.30  | 2.503 | 0.000 D  | -5.87  | -2.33  | -2.33  | 0.85   |
|       | Fu.C.23 | 10.52 |        |        | -32.13  | 2.463 | 0.000 D  | -12.51 | -4.39  | -4.39  | -1.21  |
|       | Fu.C.24 | 2.55  | 19.22  | 4.703  | -16.69  | 9.753 | 0.000 D  | -11.17 | 7.09   | -10.82 | -10.82 |
|       | Fu.C.26 | 6.51  | 34.38  | 3.954  | -69.36  | 8.346 | 0.000 D  | -38.02 | 14.10  | -27.61 | -27.61 |
|       | Fu.C.28 | 1.52  | 38.12  | 4.532  | -50.53  | 9.157 | 0.000 D  | -31.38 | 16.15  | -25.56 | -25.56 |
| S4    | Fu.C.32 | 2.78  | 38.65  | 4.486  | -51.17  | 9.142 | 0.000 D  | -30.57 | 15.99  | -25.72 | -25.72 |
|       | Fu.C.33 | 30.29 | 52.98  | 3.284  | -91.44  | 8.303 | 0.000 D  | -41.27 | 13.82  | -34.86 | -34.86 |
|       | Fu.C.34 | 26.09 | 53.13  | 3.585  | -80.98  | 8.611 | 0.000 D  | -37.54 | 15.08  | -33.59 | -33.59 |
|       | Fu.C.35 | 28.46 | 39.52  | 2.737  | -75.69  | 7.911 | 0.000 D  | -33.16 | 8.08   | -26.09 | -26.09 |
|       | Fu.C.1  | 0.00  |        |        | 42.92   | 0.000 | 0.000 D  | -6.14  | 15.39  | 15.39  | 9.86   |
|       | Fu.C.3  | 0.00  |        |        | 48.18   | 0.000 | 0.000 D  | -14.79 | 16.94  | 16.94  | 11.40  |

| Wopereis Staalbouw |         |         |        |       |        |       | Pos 3 - Tussenspannt |        |       |        |        |
|--------------------|---------|---------|--------|-------|--------|-------|----------------------|--------|-------|--------|--------|
| Staaf              | B.C.    | Mb      | Mmax   | xMmax | Me     | x-M0  | x-M0 T/D             | Nmax   | Vb    | Vmax   | Ve     |
| S4                 | Fu.C.4  | 0.00    |        |       | 64.33  | 0.000 | 0.000 D              | -10.70 | 21.69 | 21.69  | 16.15  |
|                    | Fu.C.5  | 0.00    |        |       | 43.56  | 0.000 | 0.000 D              | -6.02  | 16.58 | 16.58  | 9.05   |
|                    | Fu.C.7  | 0.00    |        |       | 48.82  | 0.000 | 0.000 D              | -14.67 | 18.12 | 18.12  | 10.59  |
|                    | Fu.C.8  | 0.00    |        |       | 64.97  | 0.000 | 0.000 D              | -10.58 | 22.87 | 22.87  | 15.34  |
|                    | Fu.C.10 | 0.00    |        |       | 104.07 | 0.000 | 0.000 D              | -40.23 | 30.36 | 30.85  | 30.85  |
|                    | Fu.C.12 | 0.00    |        |       | 98.81  | 0.000 | 0.000 D              | -31.59 | 28.82 | 29.31  | 29.31  |
|                    | Fu.C.16 | 0.00    |        |       | 99.44  | 0.000 | 0.000 D              | -31.47 | 30.00 | 30.00  | 28.49  |
|                    | Fu.C.17 | 0.00    |        |       | 12.67  | 0.000 | 0.000 D              | -2.62  | 0.83  | 6.62   | 6.62   |
|                    | Fu.C.19 | 0.00    |        |       | 31.50  | 0.000 | 0.000 D              | -6.82  | 6.37  | 12.16  | 12.16  |
|                    | Fu.C.20 | 0.00    |        |       | 16.06  | 0.000 | 0.000 D              | -15.40 | 1.83  | 7.61   | 7.61   |
|                    | Fu.C.21 | 0.00    |        |       | 13.30  | 0.000 | 0.000 D              | -2.50  | 2.02  | 5.81   | 5.81   |
|                    | Fu.C.23 | 0.00    |        |       | 32.13  | 0.000 | 0.000 D              | -6.70  | 7.56  | 11.34  | 11.34  |
|                    | Fu.C.24 | 0.00    |        |       | 16.69  | 0.000 | 0.000 D              | -15.28 | 3.02  | 6.80   | 6.80   |
|                    | Fu.C.26 | 0.00    |        |       | 69.36  | 0.000 | 0.000 D              | -40.49 | 14.50 | 26.31  | 26.31  |
|                    | Fu.C.28 | 0.00    |        |       | 50.53  | 0.000 | 0.000 D              | -36.29 | 8.96  | 20.77  | 20.77  |
|                    | Fu.C.32 | 0.00    |        |       | 51.17  | 0.000 | 0.000 D              | -36.16 | 10.14 | 19.95  | 19.95  |
|                    | Fu.C.33 | 0.00    |        |       | 91.44  | 0.000 | 0.000 D              | -48.41 | 26.89 | 26.89  | 26.89  |
|                    | Fu.C.34 | 0.00    |        |       | 80.98  | 0.000 | 0.000 D              | -45.94 | 23.82 | 23.82  | 23.82  |
|                    | Fu.C.35 | 0.00    |        |       | 75.69  | 0.000 | 0.000 D              | -37.39 | 22.26 | 22.26  | 22.26  |
| S8                 | Fu.C.1  | 59.02   |        |       | 50.87  | 0.000 | 0.000 T              | 3.52   | -8.36 | -8.36  | -6.94  |
|                    | Fu.C.3  | 28.20   |        |       | 23.89  | 0.000 | 0.000 D              | -5.82  | -4.75 | -4.75  | -3.33  |
|                    | Fu.C.4  | 55.93   | 56.60  | 0.844 | 56.55  | 0.000 | 0.000 D              | -1.42  | 1.60  | 1.60   | -0.40  |
|                    | Fu.C.5  | 56.91   |        |       | 49.17  | 0.000 | 0.000 T              | 4.24   | -7.97 | -7.97  | -6.55  |
|                    | Fu.C.7  | 26.09   |        |       | 22.19  | 0.000 | 0.000 D              | -5.09  | -4.36 | -4.36  | -2.94  |
|                    | Fu.C.8  | 53.82   | 54.86  | 1.059 | 54.86  | 0.000 | 0.000 D              | -0.69  | 1.99  | 1.99   | -0.01  |
|                    | Fu.C.10 | -17.49  |        |       | 0.55   | 1.027 | 0.000 D              | -29.66 | 19.07 | 19.07  | 14.87  |
|                    | Fu.C.12 | 13.34   |        |       | 27.53  | 0.000 | 0.000 D              | -20.89 | 15.46 | 15.46  | 11.26  |
|                    | Fu.C.16 | 11.22   |        |       | 25.83  | 0.000 | 0.000 D              | -20.17 | 15.85 | 15.85  | 11.65  |
|                    | Fu.C.17 | 17.97   |        |       | 14.10  | 0.000 | 0.000 T              | 2.39   | -3.85 | -3.85  | -3.40  |
|                    | Fu.C.19 | 12.31   |        |       | 14.81  | 0.000 | 0.000 D              | -1.96  | 2.77  | 2.77   | 1.94   |
|                    | Fu.C.20 | -18.10  | -18.10 | 0.072 | -17.90 | 0.000 | 0.000 D              | -8.30  | -0.03 | 0.43   | 0.43   |
|                    | Fu.C.21 | 15.85   |        |       | 12.40  | 0.000 | 0.000 T              | 3.11   | -3.46 | -3.46  | -3.01  |
|                    | Fu.C.23 | 10.20   |        |       | 13.11  | 0.000 | 0.000 D              | -1.24  | 3.16  | 3.16   | 2.33   |
|                    | Fu.C.24 | -20.21  |        |       | -19.60 | 0.000 | 0.000 D              | -7.57  | 0.36  | 0.82   | 0.82   |
|                    | Fu.C.26 | -66.35  |        |       | -46.21 | 0.000 | 0.000 D              | -31.55 | 20.46 | 20.46  | 17.43  |
|                    | Fu.C.28 | -60.69  |        |       | -46.92 | 0.000 | 0.000 D              | -27.77 | 13.83 | 13.83  | 12.08  |
|                    | Fu.C.32 | -62.81  |        |       | -48.62 | 0.000 | 0.000 D              | -27.05 | 14.22 | 14.22  | 12.48  |
|                    | Fu.C.33 | -135.12 |        |       | -97.77 | 0.000 | 0.000 D              | -46.25 | 37.41 | 37.41  | 32.84  |
|                    | Fu.C.34 | -121.59 |        |       | -91.47 | 0.000 | 0.000 D              | -40.27 | 29.94 | 29.94  | 26.70  |
|                    | Fu.C.35 | -114.73 |        |       | -80.12 | 0.000 | 0.000 D              | -40.39 | 34.84 | 34.84  | 30.27  |
| S9                 | Fu.C.1  | 50.87   |        |       | 5.87   | 0.000 | 0.000 T              | 7.42   | -6.94 | -6.94  | -5.54  |
|                    | Fu.C.3  | 23.89   |        |       | 6.26   | 0.000 | 0.000 D              | -5.24  | -3.33 | -3.33  | -1.93  |
|                    | Fu.C.4  | 56.55   |        |       | 9.14   | 0.000 | 0.000 T              | 3.05   | -0.40 | -11.97 | -11.97 |
|                    | Fu.C.5  | 49.17   |        |       | 7.14   | 0.000 | 0.000 T              | 8.14   | -6.55 | -6.55  | -5.15  |
|                    | Fu.C.7  | 22.19   |        |       | 7.52   | 0.000 | 0.000 D              | -4.52  | -2.94 | -2.94  | -1.54  |
|                    | Fu.C.8  | 54.86   |        |       | 10.40  | 0.000 | 0.000 T              | 3.77   | -0.01 | -11.58 | -11.58 |
|                    | Fu.C.10 | 0.55    | 30.97  | 4.129 | 9.75   | 0.000 | 0.000 D              | -28.97 | 14.87 | 14.87  | -12.30 |
|                    | Fu.C.12 | 27.53   | 44.87  | 3.116 | 9.36   | 0.000 | 0.000 D              | -20.20 | 11.26 | -15.91 | -15.91 |
|                    | Fu.C.16 | 25.83   | 44.41  | 3.226 | 10.62  | 0.000 | 0.000 D              | -19.48 | 11.65 | -15.52 | -15.52 |
|                    | Fu.C.17 | 14.10   | 2.64   | 6.236 | 4.27   | 0.000 | 0.000 T              | 6.28   | -3.40 | -3.40  | 2.43   |
|                    | Fu.C.19 | 14.81   | 17.48  | 2.753 | 9.26   | 0.000 | 0.000 T              | 2.51   | 1.94  | -3.41  | -3.41  |
|                    | Fu.C.20 | -17.90  |        |       | 1.29   | 7.367 | 0.000 D              | -7.72  | 0.43  | 6.26   | 6.26   |
|                    | Fu.C.21 | 12.40   | 3.33   | 6.016 | 5.53   | 0.000 | 0.000 T              | 7.00   | -3.01 | -3.01  | 2.82   |
|                    | Fu.C.23 | 13.11   | 16.97  | 3.306 | 10.52  | 0.000 | 0.000 T              | 3.23   | 2.33  | -3.02  | -3.02  |
|                    | Fu.C.24 | -19.60  |        |       | 2.55   | 7.174 | 0.000 D              | -7.00  | 0.82  | 6.65   | 6.65   |
|                    | Fu.C.26 | -46.21  | 8.75   | 6.307 | 6.51   | 3.791 | 0.000 D              | -30.86 | 17.43 | 17.43  | -3.52  |
|                    | Fu.C.28 | -46.92  |        |       | 1.52   | 6.948 | 0.000 D              | -27.08 | 12.08 | 12.08  | 2.32   |
|                    | Fu.C.32 | -48.62  |        |       | 2.78   | 6.600 | 0.000 D              | -26.36 | 12.48 | 12.48  | 2.71   |
|                    | Fu.C.33 | -97.77  |        |       | 30.29  | 4.004 | 0.000 D              | -44.59 | 32.84 | 32.84  | 0.95   |
|                    | Fu.C.34 | -91.47  |        |       | 26.09  | 4.591 | 0.000 D              | -39.09 | 26.70 | 26.70  | 4.31   |
|                    | Fu.C.35 | -80.12  | 28.77  | 7.195 | 28.46  | 3.496 | 0.000 D              | -38.73 | 30.27 | 30.27  | -1.62  |
| -                  | -       | kNm     | kNm    | m     | kNm    | m     | m -                  | kN     | kN    | kN     | kN     |

AFB. FU.C. OPLEGREACTIES / SUPPORT REACTIONS OMHULLENDE

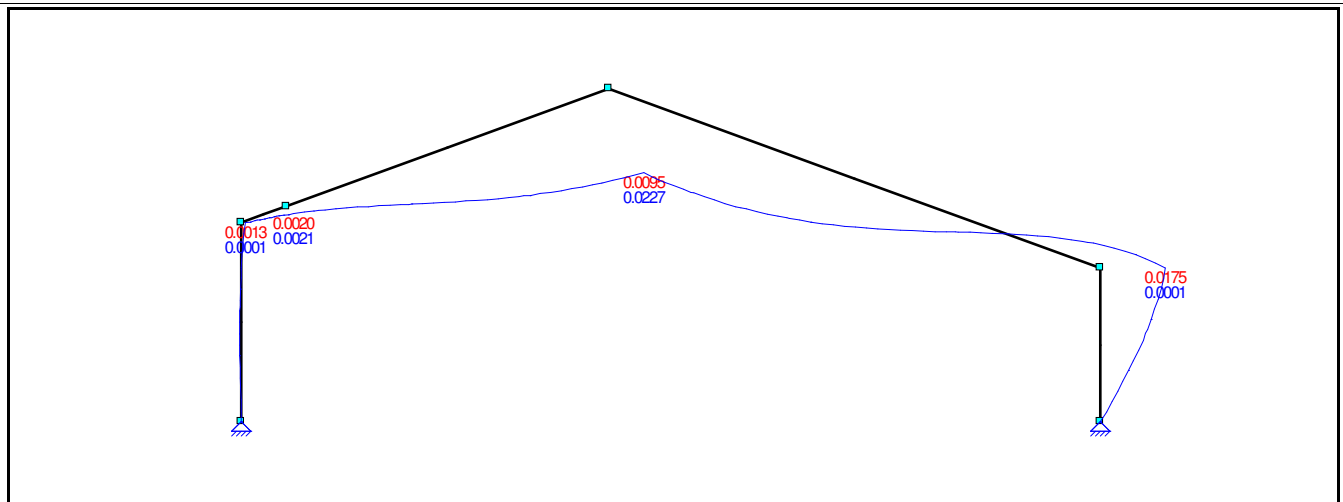
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES**

| Oplegging                      | Knoop | B.C.    | Xmax   | Z      | My B.C.     | X      | Zmax   | My B.C. | X   | Z  | Mymax |
|--------------------------------|-------|---------|--------|--------|-------------|--------|--------|---------|-----|----|-------|
| O1                             | K1    | Fu.C.33 | 30.71  | -64.46 | 0.00Fu.C.1  | -17.16 | 10.73  | 0.00    |     |    |       |
| O1                             | K1    | Fu.C.1  | -17.16 | 10.73  | 0.00Fu.C.33 | 30.71  | -64.46 | 0.00    |     |    |       |
| O2                             | K5    | Fu.C.10 | -30.36 | -40.23 | 0.00Fu.C.33 | -26.89 | -48.41 | 0.00    |     |    |       |
| <b>Globale extreme waarden</b> |       |         |        |        |             |        |        |         |     |    |       |
| O1                             | K1    | Fu.C.33 | 30.71  | -64.46 | 0.00        |        |        |         |     |    |       |
| O2                             | K5    | Fu.C.10 | -30.36 | -40.23 | 0.00        |        |        |         |     |    |       |
| O1                             | K1    |         |        |        | Fu.C.1      | -17.16 | 10.73  | 0.00    |     |    |       |
| O1                             | K1    |         |        |        | Fu.C.33     | 30.71  | -64.46 | 0.00    |     |    |       |
| -                              | -     | -       | kN     | kN     | kNm         | -      | kN     | kN      | kNm | kN | kN    |

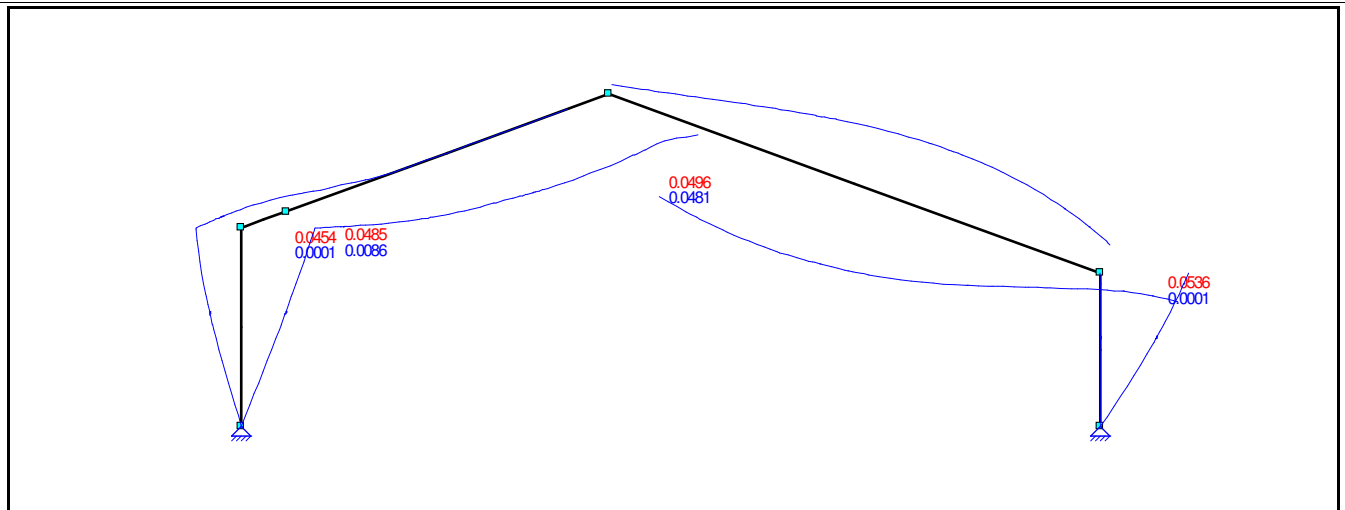
AFB. KA.C.(W1) VERPLAATSINGEN / DISPLACEMENTS

Ka.C.(w1) Belastingscombinaties



AFB. KA.C. VERPLAATSINGEN / DISPLACEMENTS OMHULLENDE

Karakteristiek Belastingcombinaties



## KA.C. KNOOPVERPLAATSINGEN

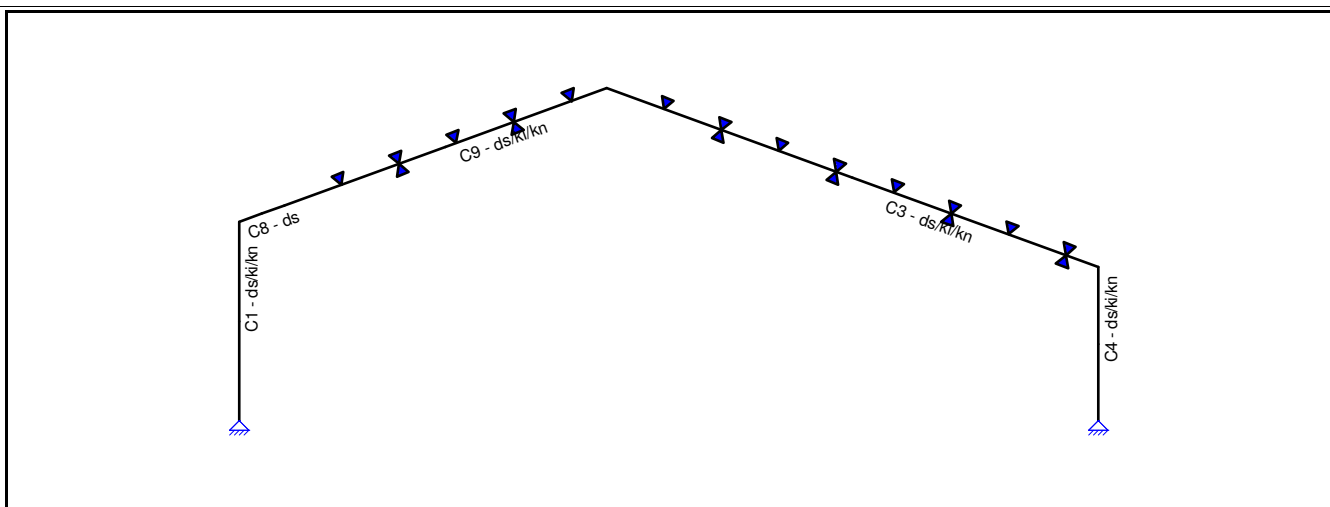
| Knoop | B.C.      | X       | Z      | Yr          |
|-------|-----------|---------|--------|-------------|
| K1    | Ka.C.(w1) | 0.0000  | 0.0000 | 0.410e-03   |
|       | Ka.C.2    | 0.0000  | 0.0000 | -8.891e-03  |
|       | Ka.C.5    | 0.0000  | 0.0000 | -11.111e-03 |
|       | Ka.C.6    | 0.0000  | 0.0000 | -8.667e-03  |
|       | Ka.C.9    | 0.0000  | 0.0000 | -10.887e-03 |
|       | Ka.C.11   | 0.0000  | 0.0000 | -5.188e-03  |
|       | Ka.C.13   | 0.0000  | 0.0000 | -8.944e-03  |
|       | Ka.C.17   | 0.0000  | 0.0000 | -8.720e-03  |
|       | Ka.C.18   | 0.0000  | 0.0000 | -1.960e-03  |
|       | Ka.C.21   | 0.0000  | 0.0000 | 2.825e-03   |
|       | Ka.C.22   | 0.0000  | 0.0000 | -1.736e-03  |
|       | Ka.C.25   | 0.0000  | 0.0000 | 3.048e-03   |
|       | Ka.C.27   | 0.0000  | 0.0000 | 3.495e-03   |
|       | Ka.C.29   | 0.0000  | 0.0000 | 4.992e-03   |
|       | Ka.C.31   | 0.0000  | 0.0000 | 3.718e-03   |
|       | Ka.C.33   | 0.0000  | 0.0000 | 5.216e-03   |
|       | Ka.C.34   | 0.0000  | 0.0000 | 8.251e-03   |
|       | Ka.C.35   | 0.0000  | 0.0000 | 8.431e-03   |
|       | Ka.C.36   | 0.0000  | 0.0000 | 6.175e-03   |
| K2    | Ka.C.(w1) | 0.0013  | 0.0001 | -1.713e-03  |
|       | Ka.C.2    | 0.0355  | 0.0000 | -6.521e-03  |
|       | Ka.C.5    | 0.0454  | 0.0000 | -8.889e-03  |
|       | Ka.C.6    | 0.0348  | 0.0000 | -6.488e-03  |
|       | Ka.C.9    | 0.0448  | 0.0000 | -8.856e-03  |
|       | Ka.C.11   | 0.0235  | 0.0001 | -5.910e-03  |
|       | Ka.C.13   | 0.0379  | 0.0001 | -8.195e-03  |
|       | Ka.C.17   | 0.0372  | 0.0001 | -8.163e-03  |
|       | Ka.C.18   | 0.0090  | 0.0000 | -2.061e-03  |
|       | Ka.C.21   | -0.0096 | 0.0000 | 1.003e-03   |
|       | Ka.C.22   | 0.0083  | 0.0000 | -2.029e-03  |
|       | Ka.C.25   | -0.0102 | 0.0000 | 1.035e-03   |
|       | Ka.C.27   | -0.0102 | 0.0001 | -0.071e-03  |
|       | Ka.C.29   | -0.0171 | 0.0001 | 1.696e-03   |
|       | Ka.C.31   | -0.0108 | 0.0001 | -0.039e-03  |
|       | Ka.C.33   | -0.0178 | 0.0001 | 1.729e-03   |
|       | Ka.C.34   | -0.0262 | 0.0001 | 1.382e-03   |
|       | Ka.C.35   | -0.0280 | 0.0001 | 2.208e-03   |
|       | Ka.C.36   | -0.0185 | 0.0001 | 0.279e-03   |
| K3    | Ka.C.(w1) | 0.0095  | 0.0227 | -0.942e-03  |
|       | Ka.C.2    | 0.0381  | 0.0072 | 3.769e-03   |
|       | Ka.C.5    | 0.0496  | 0.0116 | 5.381e-03   |
|       | Ka.C.6    | 0.0377  | 0.0080 | 3.693e-03   |
|       | Ka.C.9    | 0.0493  | 0.0124 | 5.305e-03   |
|       | Ka.C.11   | 0.0332  | 0.0272 | 1.238e-03   |
|       | Ka.C.13   | 0.0453  | 0.0209 | 3.805e-03   |
|       | Ka.C.17   | 0.0450  | 0.0217 | 3.729e-03   |
|       | Ka.C.18   | 0.0119  | 0.0082 | 0.474e-03   |

| Wopereis Staalbouw |           |         | Pos 3 - Tussenspan |             |
|--------------------|-----------|---------|--------------------|-------------|
| Knoop              | B.C.      | X       | Z                  | Yr          |
| K3                 | Ka.C.21   | -0.0045 | 0.0141             | -2.762e-03  |
|                    | Ka.C.22   | 0.0116  | 0.0090             | 0.398e-03   |
|                    | Ka.C.25   | -0.0049 | 0.0149             | -2.838e-03  |
|                    | Ka.C.27   | 0.0000  | 0.0284             | -3.158e-03  |
|                    | Ka.C.29   | -0.0088 | 0.0234             | -4.338e-03  |
|                    | Ka.C.31   | -0.0004 | 0.0293             | -3.234e-03  |
|                    | Ka.C.33   | -0.0092 | 0.0243             | -4.414e-03  |
|                    | Ka.C.34   | -0.0091 | 0.0481             | -5.148e-03  |
|                    | Ka.C.35   | -0.0124 | 0.0436             | -5.724e-03  |
| K4                 | Ka.C.36   | -0.0038 | 0.0414             | -3.329e-03  |
|                    | Ka.C.(w1) | 0.0175  | 0.0001             | -1.876e-03  |
|                    | Ka.C.2    | 0.0405  | 0.0000             | -8.664e-03  |
|                    | Ka.C.5    | 0.0536  | 0.0000             | -11.483e-03 |
|                    | Ka.C.6    | 0.0405  | 0.0000             | -8.587e-03  |
|                    | Ka.C.9    | 0.0536  | 0.0000             | -11.407e-03 |
|                    | Ka.C.11   | 0.0427  | 0.0001             | -6.927e-03  |
|                    | Ka.C.13   | 0.0526  | 0.0001             | -10.090e-03 |
|                    | Ka.C.17   | 0.0525  | 0.0001             | -10.014e-03 |
|                    | Ka.C.18   | 0.0148  | 0.0000             | -2.776e-03  |
|                    | Ka.C.21   | 0.0004  | 0.0001             | 1.617e-03   |
|                    | Ka.C.22   | 0.0148  | 0.0000             | -2.700e-03  |
|                    | Ka.C.25   | 0.0004  | 0.0001             | 1.694e-03   |
|                    | Ka.C.27   | 0.0099  | 0.0001             | 0.809e-03   |
|                    | Ka.C.29   | -0.0006 | 0.0001             | 3.010e-03   |
|                    | Ka.C.31   | 0.0099  | 0.0001             | 0.886e-03   |
|                    | Ka.C.33   | -0.0006 | 0.0001             | 3.087e-03   |
|                    | Ka.C.34   | 0.0081  | 0.0001             | 2.656e-03   |
|                    | Ka.C.35   | 0.0031  | 0.0001             | 3.606e-03   |
|                    | Ka.C.36   | 0.0110  | 0.0001             | 1.042e-03   |
| K5                 | Ka.C.(w1) | 0.0000  | 0.0000             | -6.787e-03  |
|                    | Ka.C.2    | 0.0000  | 0.0000             | -13.606e-03 |
|                    | Ka.C.5    | 0.0000  | 0.0000             | -17.962e-03 |
|                    | Ka.C.6    | 0.0000  | 0.0000             | -13.656e-03 |
|                    | Ka.C.9    | 0.0000  | 0.0000             | -18.012e-03 |
|                    | Ka.C.11   | 0.0000  | 0.0000             | -15.353e-03 |
|                    | Ka.C.13   | 0.0000  | 0.0000             | -18.138e-03 |
|                    | Ka.C.17   | 0.0000  | 0.0000             | -18.188e-03 |
|                    | Ka.C.18   | 0.0000  | 0.0000             | -5.087e-03  |
|                    | Ka.C.21   | 0.0000  | 0.0000             | -0.937e-03  |
|                    | Ka.C.22   | 0.0000  | 0.0000             | -5.138e-03  |
|                    | Ka.C.25   | 0.0000  | 0.0000             | -0.988e-03  |
|                    | Ka.C.27   | 0.0000  | 0.0000             | -4.666e-03  |
|                    | Ka.C.29   | 0.0000  | 0.0000             | -1.113e-03  |
|                    | Ka.C.31   | 0.0000  | 0.0000             | -4.716e-03  |
|                    | Ka.C.33   | 0.0000  | 0.0000             | -1.164e-03  |
|                    | Ka.C.34   | 0.0000  | 0.0000             | -4.883e-03  |
|                    | Ka.C.35   | 0.0000  | 0.0000             | -3.183e-03  |
|                    | Ka.C.36   | 0.0000  | 0.0000             | -5.367e-03  |
| K9                 | Ka.C.(w1) | 0.0020  | 0.0021             | -2.428e-03  |
|                    | Ka.C.2    | 0.0377  | 0.0062             | -5.629e-03  |
|                    | Ka.C.5    | 0.0485  | 0.0086             | -7.939e-03  |
|                    | Ka.C.6    | 0.0371  | 0.0062             | -5.636e-03  |
|                    | Ka.C.9    | 0.0479  | 0.0086             | -7.945e-03  |
|                    | Ka.C.11   | 0.0257  | 0.0061             | -6.171e-03  |
|                    | Ka.C.13   | 0.0408  | 0.0082             | -7.860e-03  |
|                    | Ka.C.17   | 0.0401  | 0.0081             | -7.866e-03  |
|                    | Ka.C.18   | 0.0097  | 0.0020             | -1.974e-03  |
|                    | Ka.C.21   | -0.0099 | -0.0007            | 0.385e-03   |
|                    | Ka.C.22   | 0.0090  | 0.0020             | -1.981e-03  |
|                    | Ka.C.25   | -0.0105 | -0.0008            | 0.379e-03   |
|                    | Ka.C.27   | -0.0100 | 0.0006             | -1.334e-03  |
|                    | Ka.C.29   | -0.0176 | -0.0012            | 0.464e-03   |
|                    | Ka.C.31   | -0.0106 | 0.0006             | -1.341e-03  |
|                    | Ka.C.33   | -0.0183 | -0.0012            | 0.458e-03   |
|                    | Ka.C.34   | -0.0264 | -0.0003            | -1.095e-03  |
|                    | Ka.C.35   | -0.0285 | -0.0012            | -0.083e-03  |
|                    | Ka.C.36   | -0.0184 | 0.0007             | -1.806e-03  |
| -                  | -         | m       | m                  | rad         |

**KA.C. EXTREME DOORBUIGINGEN**

| Staaf | B.C.      | Knoop Begin |        | Staaf  |                | Knoop Eind |       |
|-------|-----------|-------------|--------|--------|----------------|------------|-------|
|       |           | X           | Z      | Z'afst | Z'             | X          | Z     |
| S1    | Ka.C.2    | 0,000       | 0,000  | 2.493  | <b>0.0014</b>  | 0,035      | 0,000 |
| S1    | Ka.C.34   | 0,000       | 0,000  | 2.540  | <b>-0.0039</b> | -0,026     | 0,000 |
| S3    | Ka.C.5    | 0,050       | 0,012  | 7.031  | <b>-0.0254</b> | 0,054      | 0,000 |
| S3    | Ka.C.35   | -0,012      | 0,044  | 4.593  | <b>0.0242</b>  | 0,003      | 0,000 |
| S4    | Ka.C.11   | 0,000       | 0,000  | 1.964  | <b>0.0037</b>  | 0,043      | 0,000 |
| S8    | Ka.C.(w1) | 0,001       | 0,000  | 0.582  | <b>-0.0001</b> | 0,002      | 0,002 |
| S8    | Ka.C.5    | 0,045       | 0,000  | 0.609  | <b>0.0001</b>  | 0,049      | 0,009 |
| S9    | Ka.C.5    | 0,049       | 0,009  | 3.575  | <b>0.0135</b>  | 0,050      | 0,012 |
| S9    | Ka.C.35   | -0,028      | -0,001 | 2.165  | <b>-0.0058</b> | -0,012     | 0,044 |
| -     | -         | m           | m      | m      | m              | m          | m     |

## AFB. STAALCONTROLE / STEEL CODE CHECK

**SAMENSTELLING CONSTRUCTIEDELEN**

| Constructiedeel | Staaf/staven |
|-----------------|--------------|
| C1              | S1           |
| C3              | S3           |
| C4              | S4           |
| C8              | S8           |
| C9              | S9           |

**KNIKLENGTEGEGEVEN**

| Staaf                  | Profiel | Lokale Y-as |             |        |           | Lokale Z-as       |       |           |
|------------------------|---------|-------------|-------------|--------|-----------|-------------------|-------|-----------|
|                        |         | Lsys        | methode     | Lbuc   | Lbuc/Lsys | methode           | Lbuc  | Lbuc/Lsys |
| C1 - V1 (0.000-4.400)  | P1      | 4.400       | Ongeschoord | 14.532 | 3.30      | Cons. gesch.      | 4.400 | 1.00      |
| C3 - V1 (0.000-11.570) | P2      | 11.570      | Ongeschoord | 23.944 | 2.07      | Handmatige Invoer | 2.700 | 0.23      |
| C4 - V1 (0.000-3.400)  | P2      | 3.400       | Ongeschoord | 10.987 | 3.23      | Cons. gesch.      | 3.400 | 1.00      |
| C9 - V1 (0.000-7.580)  | P2      | 7.580       | Ongeschoord | 16.687 | 2.20      | Handmatige Invoer | 2.700 | 0.36      |
| -                      | -       | m           | -           | m      | -         | -                 | m     | -         |

**KIPSTEUNENGEGEVEN**

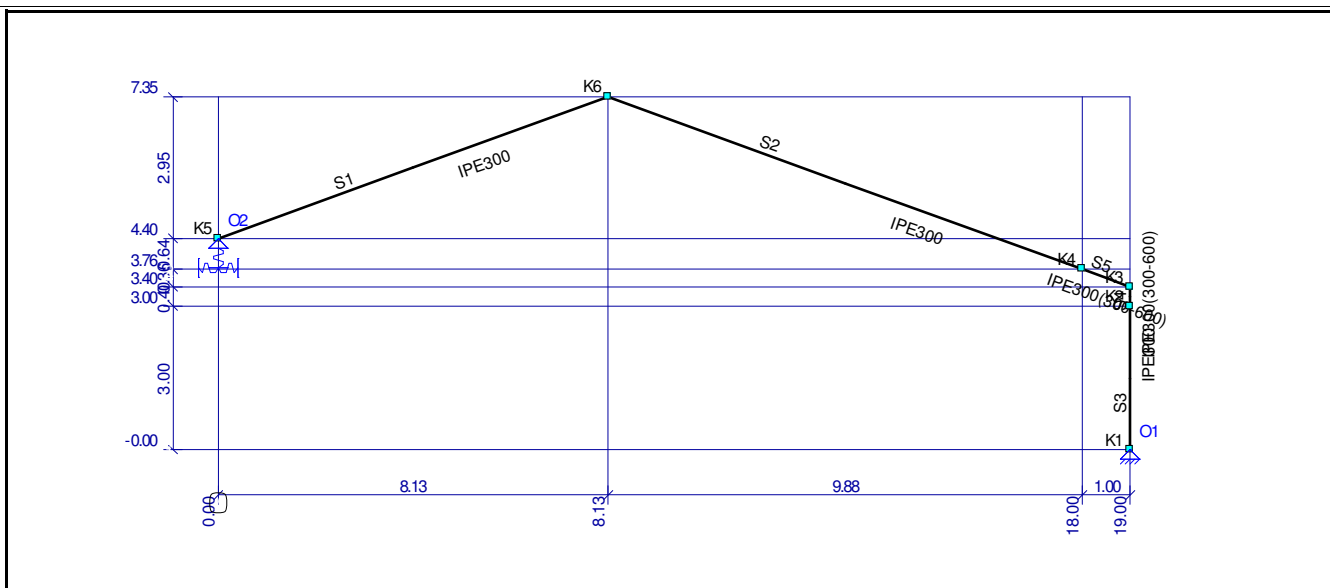
| Staaf                  | Profiel | Begin:   | Eind:    | Kipsteunen boven                            | Kipsteunen onder    | Aangrijphoogte  |
|------------------------|---------|----------|----------|---------------------------------------------|---------------------|-----------------|
| C1 - V1 (0.000-4.400)  | P1      | Gesteund | Gesteund |                                             |                     | Centrum         |
| C3 - V1 (0.000-11.570) | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75, 8.1, 9.45, 10.8 | 2.7, 5.4, 8.1, 10.8 | Bovenflens +10% |
| C4 - V1 (0.000-3.400)  | P2      | Gesteund | Gesteund |                                             |                     | Centrum         |
| C9 - V1 (0.000-7.580)  | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75                  | 2.7, 5.4            | Centrum         |
| -                      | -       | -        | -        | m                                           | m                   | -               |

**UNITY CHECK NEN-EN1993-1-1:2009/NB:2011**

| Veld                 | Toetsing    | Combinatie | Artikel                   | UC max |
|----------------------|-------------|------------|---------------------------|--------|
| C1-V1 (0.000-4.400)  | Doorsnede   | Fu.C.33    | NEN-EN1993-1-1(6.12)      | 0,56   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,06   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,08   |
| C1-V1 (0.000-4.400)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.61&6.62) | 0,80   |
| C1-V1 (0.000-4.400)  | Kiptoetsing | Fu.C.33    | NEN-EN1993-1-1(6.54)      | 0,73   |
| C3-V1 (0.000-11.570) | Doorsnede   | Fu.C.10    | NEN-EN1993-1-1(6.12)      | 0,70   |
| C3-V1 (0.000-11.570) | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,16   |
| C3-V1 (0.000-11.570) | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,05   |
| C3-V1 (0.000-11.570) | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.61&6.62) | 0,90   |
| C3-V1 (0.000-11.570) | Kiptoetsing | Fu.C.16    | NEN-EN1993-1-1(6.54)      | 0,66   |
| C4-V1 (0.000-3.400)  | Doorsnede   | Fu.C.10    | NEN-EN1993-1-1(6.12)      | 0,70   |
| C4-V1 (0.000-3.400)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,04   |
| C4-V1 (0.000-3.400)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.46)      | 0,06   |
| C4-V1 (0.000-3.400)  | Stabiliteit | Fu.C.10    | NEN-EN1993-1-1(6.61&6.62) | 0,85   |
| C4-V1 (0.000-3.400)  | Kiptoetsing | Fu.C.10    | NEN-EN1993-1-1(6.54)      | 0,80   |
| C8-V1 (0.000-1.064)  | Doorsnede   | Fu.C.33    | NEN-EN1993-1-1(6.12)      | 0,69   |
| C9-V1 (0.000-7.580)  | Doorsnede   | Fu.C.33    | NEN-EN1993-1-1(6.12)      | 0,66   |
| C9-V1 (0.000-7.580)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,09   |
| C9-V1 (0.000-7.580)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46)      | 0,05   |
| C9-V1 (0.000-7.580)  | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.61&6.62) | 0,80   |
| C9-V1 (0.000-7.580)  | Kiptoetsing | Fu.C.33    | NEN-EN1993-1-1(6.54)      | 0,76   |

| Wopereis Staalbouw |                                                                                                                             | Pos 4 - Tussenspant |            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Projectnaam        |                                                                                                                             | Projectnummer       |            |
| Omschrijving       |                                                                                                                             | Constructeur        |            |
| Opdrachtgever      |                                                                                                                             | Eenheden            | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\ Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161003 - Pos 4 - Tussenspant.mxf |                     |            |

#### AFB. GEOMETRIE RAAMWERK



#### STAVEN

| Staaf | Knoop B | B   | Scharnier E | Knoop E | Profiel | X-B    | Z-B    | X-E    | Z-E    | Lengte |
|-------|---------|-----|-------------|---------|---------|--------|--------|--------|--------|--------|
| S1    | K5      | NVM | NVM         | K6      | P2      | 0,000  | -4,400 | 8,125  | -7,350 | 8,644  |
| S2    | K6      | NVM | NVM         | K4      | P2      | 8,125  | -7,350 | 18,000 | -3,763 | 10,506 |
| S3    | K1      | NVM | NVM         | K2      | P2      | 19,000 | 0,000  | 19,000 | -3,000 | 3,000  |
| S4    | K2      | NVM | NVM         | K3      | P3      | 19,000 | -3,000 | 19,000 | -3,400 | 0,400  |
| S5    | K4      | NVM | NVM         | K3      | P3      | 18,000 | -3,763 | 19,000 | -3,400 | 1,064  |
| -     | -       | -   | -           | -       | -       | m      | m      | m      | m      | m      |

#### PROFIELEN

| Profiel | Profielnaam     | Oppervlakte | Iy         | Materiaal | Hoek |
|---------|-----------------|-------------|------------|-----------|------|
| P2      | IPE300          | 5.3812e-03  | 8.3561e-05 | S235      | 0    |
| P3      | IPE300(300-600) | 5.3812e-03  | 8.3561e-05 | S235      | 0    |
| -       | -               | m2          | m4         | -         | °    |

#### PROFIELVORMEN

| Profiel | Verl. h. | hB    | hE    | tf    | tw    | tf2   | B     | bL    | bR Raatl. | Hoogte |
|---------|----------|-------|-------|-------|-------|-------|-------|-------|-----------|--------|
| P3      | Ja       | 0.300 | 0.600 | 0.011 | 0.007 | 0.011 | 0.150 | 0.000 | 0.000 Nee | 0.000  |
| -       | -        | m     | m     | m     | m     | m     | m     | m     | m -       | m      |

#### MATERIALEN

| Materiaal | Dichtheid | E-Modulus  | Uitzettingcoeff |
|-----------|-----------|------------|-----------------|
| S235      | 78.50     | 2.1000e+08 | 12.0000e-06     |
| -         | kN/m3     | kN/m2      | C°m             |

#### PROFIELEN (GEAVANCEERD)

| Profiel | Ivv        | Avz        | Trek | Druk | Kabelement | Voorspanning |
|---------|------------|------------|------|------|------------|--------------|
| P3      | 6.0378e-06 | 2.5682e-03 | Ja   | Ja   | Nee        | 0.00         |
| -       | m4         | m2         | -    | -    | -          | kN           |

#### OPLEGGINGEN

| Oplegging | Knoop | X    | Z    | Yr     | HoekYr |
|-----------|-------|------|------|--------|--------|
| O1        | K1    | vast | vast | vrij   | 0      |
| O2        | K5    | 8375 | 1035 | vrij   | 0      |
| -         | -     | kN/m | kN/m | kNmrad | °      |

## GEWICHTSBEREKENING

| Index      | Staven                                                           | Berekening                                                                | Waarde Eenheden |
|------------|------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|
|            | Belastingen en vervormingen                                      | NEN-EN1991                                                                |                 |
| Lsys1      | Systeemmaat                                                      | 5.00                                                                      | 5,00 [m]        |
| Height1    | Totale hoogte van constructie                                    | 7.35                                                                      | 7,35 [m]        |
| Width1     | Totale breedte van constructie                                   | 19.00                                                                     | 19,00 [m]       |
| <b>LR1</b> |                                                                  |                                                                           |                 |
|            | Permanente Belasting                                             | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
|            | Hellend dak (S2,S3)                                              |                                                                           |                 |
| Pp1        | Golfplaten en gordingen (0.25)                                   | 0.25                                                                      | 0,25 [kN/m²]    |
| q1         | Permanente Belasting                                             | Pp1*Lsys1                                                                 | 1,25 [kN/m]     |
| <b>LR2</b> |                                                                  |                                                                           |                 |
|            | Opgelegde belastingen                                            | NEN-EN1991-1-1:2011/NB:2011                                               |                 |
|            | S2-S3                                                            |                                                                           |                 |
| qk1        | Opgelegde belastingen (qk)                                       | NEN-EN1991-1-1#6.3(Cat=H, Hoek=20)                                        | 0,00 [kN/m²]    |
| q2         | Opgelegde belastingen (q) (Lsys=5.00)                            | qk1 * Min(5.0, Lsys1)                                                     | 0,00 [kN/m]     |
| <b>LR3</b> |                                                                  |                                                                           |                 |
|            | Windbelasting van Links + Overdruk                               | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height2    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width2     | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width3     | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A1         | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co1        | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd1      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width2,h=Height2,T<br>errein=Onbebouwd,Regio=3,C0=Co1) | 0,85            |
| Cpe1       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| Cpi1       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=<br>0.00,Over=True)                   | 0,20            |
| Z1         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                      | 7,35 [m]        |
| Qp1        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebo<br>uwd,Regio=3,C0=Co1)               | 0,63 [kN/m²]    |
| q3         | Interne druk; Verdeelde element belasting (q)                    | (Cpi1*Qp1) * Lsys1                                                        | 0,63 [kN/m]     |
| Cpe2       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| q4         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*Cpe2*CsCd1) * Lsys1                                                  | 2,14 [kN/m]     |
| Cpe3       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,<br>hd=0.39)                           | -0,50           |
| C1         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe2-Cpe3) * 0.85                                                        | 1,11            |
| q5         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*(Cpe3+C1)*CsCd1) * Lsys1                                             | 1,62 [kN/m]     |
| Cpe4       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=G,Hoek=19.95)                    | -0,70           |
| q6         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe4*CsCd1) * Lsys1                                                  | -1,87 [kN/m]    |
| Cpe5       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=H,Hoek=19.95)                    | -0,27           |
| q7         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe5*CsCd1) * Lsys1                                                  | -0,71 [kN/m]    |
| Cpe6       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=J,Hoek=19.96)                    | -0,83           |
| q8         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe6*CsCd1) * Lsys1                                                  | -2,23 [kN/m]    |
| Cpe7       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone<br>=I,Hoek=19.96)                    | -0,40           |
| q9         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe7*CsCd1) * Lsys1                                                  | -1,07 [kN/m]    |
| q10        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*Cpe3*CsCd1) * Lsys1                                                  | -1,34 [kN/m]    |
| q11        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*(Cpe2-C1)*CsCd1) * Lsys1                                             | -0,81 [kN/m]    |
| <b>LR4</b> |                                                                  |                                                                           |                 |
|            | Windbelasting van Links + Overdruk (2e Cpe)                      | NEN-EN1991-1-4:2011/NB:2011                                               |                 |
| Height3    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                      | 7,35 [m]        |
| Width4     | Gemiddelde breedte (b)                                           | 20.00                                                                     | 20,00 [m]       |
| Width5     | Constructie diepte (d)                                           | 19.00                                                                     | 19,00 [m]       |
| A2         | Belast oppervlak (A)                                             | 147.00                                                                    | 147,00 [m²]     |
| Co2        | Orthografie factor (C0)                                          | 1.00                                                                      | 1,00            |
| CsCd2      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width4,h=Height3,T<br>errein=Onbebouwd,Regio=3,C0=Co2) | 0,85            |
| Cpe8       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39)                           | 0,80            |
| Cpi2       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe8,Openingen=<br>0.00,Over=True)                   | 0,20            |
| Z2         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                      | 7,35 [m]        |
| Qp2        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebo<br>uwd,Regio=3,C0=Co2)               | 0,63 [kN/m²]    |
| q12        | Interne druk; Verdeelde element belasting (q)                    | (Cpi2*Qp2) * Lsys1                                                        | 0,63 [kN/m]     |
| Cpe9       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,<br>hd=0.39,Eerst=False)               | 0,80            |
| q13        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*Cpe9*CsCd2) * Lsys1                                                  | 2,14 [kN/m]     |

|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 4 - Tussenspannt</b> |
|---------------------------|--|-----------------------------|

| Index      | Staven                                                           | Berekening                                                            | Waarde Eenheden |
|------------|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| <b>LR4</b> |                                                                  |                                                                       |                 |
| Cpe10      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)               | -0,50           |
| C2         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe9-Cpe10) * 0.85                                                   | 1,11            |
| q14        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*(Cpe10+C2)*CsCd2) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe11      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)        | 0,37            |
| q15        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe11*CsCd2) * Lsys1                                             | 0,97 [kN/m]     |
| Cpe12      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)        | 0,27            |
| q16        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe12*CsCd2) * Lsys1                                             | 0,71 [kN/m]     |
| Cpe13      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)        | 0,00            |
| q17        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe13*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| Cpe14      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)        | 0,00            |
| q18        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe14*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| q19        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*Cpe10*CsCd2) * Lsys1                                             | -1,34 [kN/m]    |
| q20        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*(Cpe9-C2)*CsCd2) * Lsys1                                         | -0,81 [kN/m]    |
| <b>LR5</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk                              | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height4    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width6     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width7     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A3         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co3        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd3      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width6,h=Height4,Terrein=Onbebouwd,Regio=3,C0=Co3) | 0,85            |
| Cpe15      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi3       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe15,Openingen=0.00,Over=False)                 | -0,30           |
| Z3         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp3        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebouwd,Regio=3,C0=Co3)               | 0,63 [kN/m²]    |
| q21        | Interne druk; Verdeelde element belasting (q)                    | (Cpi3*Qp3) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe16      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| q22        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*Cpe16*CsCd3) * Lsys1                                             | 2,14 [kN/m]     |
| Cpe17      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| C3         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe16-Cpe17) * 0.85                                                  | 1,11            |
| q23        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*(Cpe17+C3)*CsCd3) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe18      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95)                    | -0,70           |
| q24        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe18*CsCd3) * Lsys1                                             | -1,87 [kN/m]    |
| Cpe19      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95)                    | -0,27           |
| q25        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe19*CsCd3) * Lsys1                                             | -0,71 [kN/m]    |
| Cpe20      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96)                    | -0,83           |
| q26        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe20*CsCd3) * Lsys1                                             | -2,23 [kN/m]    |
| Cpe21      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96)                    | -0,40           |
| q27        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe21*CsCd3) * Lsys1                                             | -1,07 [kN/m]    |
| q28        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*Cpe17*CsCd3) * Lsys1                                             | -1,34 [kN/m]    |
| q29        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*(Cpe16-C3)*CsCd3) * Lsys1                                        | -0,81 [kN/m]    |
| <b>LR6</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height5    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width8     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width9     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A4         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co4        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd4      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width8,h=Height5,Terrein=Onbebouwd,Regio=3,C0=Co4) | 0,85            |
| Cpe22      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi4       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe22,Openingen=0.00,Over=False)                 | -0,30           |
| Z4         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp4        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebouwd,Regio=3,C0=Co4)               | 0,63 [kN/m²]    |
| q30        | Interne druk; Verdeelde element belasting (q)                    | (Cpi4*Qp4) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe23      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)               | 0,80            |

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| <b>LR6</b> |                                                                  |                                                                         |                 |
| q31        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*Cpe23*CsCd4) * Lsys1                                               | 2,14 [kN/m]     |
| Cpe24      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)                 | -0,50           |
| C4         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe23-Cpe24) * 0.85                                                    | 1,11            |
| q32        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*(Cpe24+C4)*CsCd4) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe25      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)          | 0,37            |
| q33        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe25*CsCd4) * Lsys1                                               | 0,97 [kN/m]     |
| Cpe26      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)          | 0,27            |
| q34        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe26*CsCd4) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe27      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)          | 0,00            |
| q35        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe27*CsCd4) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe28      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)          | 0,00            |
| q36        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe28*CsCd4) * Lsys1                                               | 0,00 [kN/m]     |
| q37        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*Cpe24*CsCd4) * Lsys1                                               | -1,34 [kN/m]    |
| q38        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*(Cpe23-C4)*CsCd4) * Lsys1                                          | -0,81 [kN/m]    |
| <b>LR7</b> |                                                                  |                                                                         |                 |
|            | Windbelasting van Rechts + Overdruk                              | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height6    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width10    | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width11    | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A5         | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co5        | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd5      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width10,h=Height6,Terrrein=Onbebouwd,Regio=3,C0=Co5) | 0,85            |
| Cpe29      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| Cpi5       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe29,Openingen=0.00,Over=True)                    | 0,20            |
| Z5         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp5        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z5,Terrrein=Onbebo uwd,Regio=3,C0=Co5)               | 0,63 [kN/m²]    |
| q39        | Interne druk; Verdeelde element belasting (q)                    | (Cpi5*Qp5) * Lsys1                                                      | 0,63 [kN/m]     |
| Cpe30      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                             | -0,50           |
| q40        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*Cpe30*CsCd5) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe31      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| C5         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe31-Cpe30) * 0.85                                                    | 1,11            |
| q41        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe31-C5)*CsCd5) * Lsys1                                          | -0,81 [kN/m]    |
| q42        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe30+C5)*CsCd5) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe32      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95)                      | -0,40           |
| q43        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe32*CsCd5) * Lsys1                                               | -1,07 [kN/m]    |
| Cpe33      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95)                      | -0,84           |
| q44        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe33*CsCd5) * Lsys1                                               | -2,23 [kN/m]    |
| Cpe34      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96)                      | -0,27           |
| q45        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe34*CsCd5) * Lsys1                                               | -0,71 [kN/m]    |
| Cpe35      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96)                      | -0,70           |
| q46        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe35*CsCd5) * Lsys1                                               | -1,87 [kN/m]    |
| q47        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp5*Cpe31*CsCd5) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR8</b> |                                                                  |                                                                         |                 |
|            | Windbelasting van Rechts + Overdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height7    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width12    | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width13    | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A6         | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co6        | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd6      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width12,h=Height7,Terrrein=Onbebouwd,Regio=3,C0=Co6) | 0,85            |
| Cpe36      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                             | 0,80            |
| Cpi6       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe36,Openingen=0.00,Over=True)                    | 0,20            |
| Z6         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp6        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z6,Terrrein=Onbebo uwd,Regio=3,C0=Co6)               | 0,63 [kN/m²]    |
| q48        | Interne druk; Verdeelde element belasting (q)                    | (Cpi6*Qp6) * Lsys1                                                      | 0,63 [kN/m]     |

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| <b>LR8</b>  |                                                                  |                                                                        |                 |
| Cpe37       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)                | -0,50           |
| q49         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*Cpe37*CsCd6) * Lsys1                                              | -1,34 [kN/m]    |
| Cpe38       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)                | 0,80            |
| C6          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe38-Cpe37) * 0.85                                                   | 1,11            |
| q50         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe38-C6)*CsCd6) * Lsys1                                         | -0,81 [kN/m]    |
| q51         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe37+C6)*CsCd6) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe39       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95,Eerst=False)         | 0,00            |
| q52         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe39*CsCd6) * Lsys1                                              | 0,00 [kN/m]     |
| Cpe40       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95,Eerst=False)         | 0,00            |
| q53         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe40*CsCd6) * Lsys1                                              | 0,00 [kN/m]     |
| Cpe41       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96,Eerst=False)         | 0,27            |
| q54         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe41*CsCd6) * Lsys1                                              | 0,71 [kN/m]     |
| Cpe42       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96,Eerst=False)         | 0,37            |
| q55         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe42*CsCd6) * Lsys1                                              | 0,98 [kN/m]     |
| q56         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp6*Cpe38*CsCd6) * Lsys1                                              | 2,14 [kN/m]     |
| <b>LR9</b>  |                                                                  |                                                                        |                 |
|             | Windbelasting van Rechts + Onderdruk                             | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height8     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width14     | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width15     | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A7          | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co7         | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |
| CsCd7       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width14,h=Height8,Terrein=Onbebouwd,Regio=3,C0=Co7) | 0,85            |
| Cpe43       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| Cpi7        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen=0.00,Over=False)                  | -0,30           |
| Z7          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp7         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebouwd,Regio=3,C0=Co7)                | 0,63 [kN/m²]    |
| q57         | Interne druk; Verdeelde element belasting (q)                    | (Cpi7*Qp7) * Lsys1                                                     | -0,94 [kN/m]    |
| Cpe44       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| q58         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*Cpe44*CsCd7) * Lsys1                                              | -1,34 [kN/m]    |
| Cpe45       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                            | 0,80            |
| C7          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe45-Cpe44) * 0.85                                                   | 1,11            |
| q59         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe45-C7)*CsCd7) * Lsys1                                         | -0,81 [kN/m]    |
| q60         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe44+C7)*CsCd7) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe46       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95)                     | -0,40           |
| q61         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe46*CsCd7) * Lsys1                                              | -1,07 [kN/m]    |
| Cpe47       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95)                     | -0,84           |
| q62         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe47*CsCd7) * Lsys1                                              | -2,23 [kN/m]    |
| Cpe48       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96)                     | -0,27           |
| q63         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe48*CsCd7) * Lsys1                                              | -0,71 [kN/m]    |
| Cpe49       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96)                     | -0,70           |
| q64         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe49*CsCd7) * Lsys1                                              | -1,87 [kN/m]    |
| q65         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp7*Cpe45*CsCd7) * Lsys1                                              | 2,14 [kN/m]     |
| <b>LR10</b> |                                                                  |                                                                        |                 |
|             | Windbelasting van Rechts + Onderdruk (2e Cpe)                    | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height9     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width16     | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width17     | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A8          | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co8         | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |
| CsCd8       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width16,h=Height9,Terrein=Onbebouwd,Regio=3,C0=Co8) | 0,85            |
| Cpe50       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| Cpi8        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe50,Openingen=0.00,Over=False)                  | -0,30           |
| Z8          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp8         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebouwd,Regio=3,C0=Co8)                | 0,63 [kN/m²]    |
| q66         | Interne druk; Verdeelde element belasting (q)                    | (Cpi8*Qp8) * Lsys1                                                     | -0,94 [kN/m]    |

| Index       | Staven                                                                    | Berekening                                                     | Waarde Eenheden |
|-------------|---------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|
| <b>LR10</b> |                                                                           |                                                                |                 |
| Cpe51       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)        | -0,50           |
| q67         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*Cpe51*CsCd8) * Lsys1                                      | -1,34 [kN/m]    |
| Cpe52       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)        | 0,80            |
| C8          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor          | (Cpe52-Cpe51) * 0.85                                           | 1,11            |
| q68         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe52-C8)*CsCd8) * Lsys1                                 | -0,81 [kN/m]    |
| q69         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe51+C8)*CsCd8) * Lsys1                                 | 1,62 [kN/m]     |
| Cpe53       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95,Eerst=False) | 0,00            |
| q70         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe53*CsCd8) * Lsys1                                      | 0,00 [kN/m]     |
| Cpe54       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95,Eerst=False) | 0,00            |
| q71         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe54*CsCd8) * Lsys1                                      | 0,00 [kN/m]     |
| Cpe55       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96,Eerst=False) | 0,27            |
| q72         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe55*CsCd8) * Lsys1                                      | 0,71 [kN/m]     |
| Cpe56       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96,Eerst=False) | 0,37            |
| q73         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe56*CsCd8) * Lsys1                                      | 0,98 [kN/m]     |
| q74         | Vertikale wand S4; Verdeelde element belasting (q)                        | (Qp8*Cpe52*CsCd8) * Lsys1                                      | 2,14 [kN/m]     |
| <b>LR11</b> |                                                                           |                                                                |                 |
| Sk1         | Sneeuwbelasting                                                           | NEN-EN1991-1-3:2011/NB:2011                                    |                 |
| Ce1         | Karakteristiek waarde van de sneeuwlast op de grond (Sk)                  | NEN-EN1991-1-3#4.1(Zone=1)                                     | 0,70 [kN/m²]    |
| Ct1         | De milieucoefficient (Ce)                                                 | NEN-EN1991-1-3#5.2.7()                                         | 1,00            |
|             | De thermische coefficient (Ct)                                            | NEN-EN1991-1-3#5.2.8()                                         | 1,00            |
| Mu1         | Zadeldak, Mu1 Hoek: 19.95; S2,S3<br>Mu1; Sneeuwbelasting coefficient (Mu) | EN1991-1-3#5.3(Dak=Hellend,Hoek=19.95,Mu=Mu1,Sk=Sk1)           | 0,80            |
| q75         | Verdeelde element belasting (q)                                           | (Sk1*Ce1*Ct1*Mu1) * Lsys1                                      | 2,80 [kN/m]     |
| q76         | Verdeelde element belasting (q)                                           | q75*0.50                                                       | 1,40 [kN/m]     |

### BELASTINGSGEVALLEN TYPEN

| Oplegg. | Staven                                                                                  | B.G.Type      | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|-----------------------------------------------------------------------------------------|---------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.1   | Permanente Belasting                                                                    | Permanent     | -            |         | N.v.t. | N.v.t. |      |      |      |       |
| B.G.2   | Windbelasting van Links + Overdruk                                                      | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.3   | Windbelasting van Links + Overdruk (2e Cpe)                                             | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.4   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.5   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.6   | Windbelasting van Links + Overdruk (2e corr. factor)                                    | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.7   | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                           | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.8   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.9   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.10  | Windbelasting van Links + Onderdruk                                                     | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.11  | Windbelasting van Links + Onderdruk (2e Cpe)                                            | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.12  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.13  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.14  | Windbelasting van Links + Onderdruk (2e corr. factor)                                   | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.15  | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                          | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.16  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |

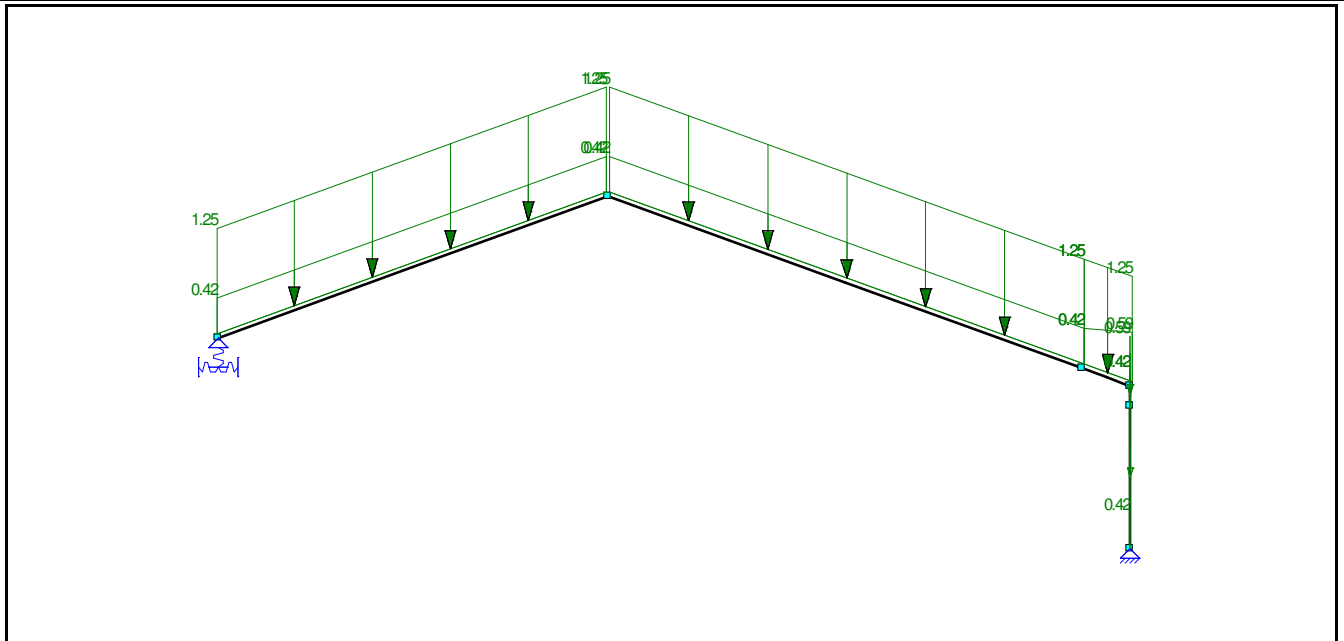
|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 4 - Tussenspannt</b> |
|---------------------------|--|-----------------------------|

| Oplegg. | Staven                                                                                            | B.G.Type        | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|---------------------------------------------------------------------------------------------------|-----------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.17  | Windbelasting van Links +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor)  | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.18  | Windbelasting van Rechts +<br>Overdruk                                                            | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.19  | Windbelasting van Rechts +<br>Overdruk (2e Cpe)                                                   | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.20  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe)                       | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.21  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe)                       | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.22  | Windbelasting van Rechts +<br>Overdruk (2e corr. factor)                                          | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.23  | Windbelasting van Rechts +<br>Overdruk (2e Cpe) (2e corr.<br>factor)                              | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.24  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe) (2e corr.<br>factor)  | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.25  | Windbelasting van Rechts +<br>Overdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor)  | Windbelasting   | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.26  | Windbelasting van Rechts +<br>Onderdruk                                                           | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.27  | Windbelasting van Rechts +<br>Onderdruk (2e Cpe)                                                  | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.28  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe)                      | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.29  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe)                      | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.30  | Windbelasting van Rechts +<br>Onderdruk (2e corr. factor)                                         | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.31  | Windbelasting van Rechts +<br>Onderdruk (2e Cpe) (2e corr.<br>factor)                             | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.32  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 1e<br>Cpe + IJ 2e Cpe) (2e corr.<br>factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.33  | Windbelasting van Rechts +<br>Onderdruk (Zadeldak FGH 2e<br>Cpe + IJ 1e Cpe) (2e corr.<br>factor) | Windbelasting   | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.34  | Sneeuwbelasting 1                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.35  | Sneeuwbelasting 2                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.36  | Sneeuwbelasting 3                                                                                 | Sneeuwbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.37  | Kniklengte                                                                                        | Kniklengte      |              |         | N.v.t. | N.v.t. |      |      |      |       |

### B.G.1: PERMANENTE BELASTING

| Type                               | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.1: Permanente Belasting</b> |                |                    |              |             |                         |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 8,644(L)    | Z" S1                   |
| q                                  | 1,25 (q1)      | 1,25 (q1)          | 0,000        | 8,644(L)    | Z" S1-S2,S5             |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 10,506(L)   | Z" S2                   |
| qG                                 | 0,42 (1.00x)   | 0,59 (1.00x)       | 0,000        | 1,064(L)    | Z" S5                   |
| qG                                 | 0,42 (1.00x)   | 0,42 (1.00x)       | 0,000        | 3,000(L)    | Z" S3                   |
| qG                                 | 0,42 (1.00x)   | 0,59 (1.00x)       | 0,000        | 0,400(L)    | Z" S4                   |
| <b>Som lasten</b>                  | <b>X: 0,00</b> | <b>kN Z: 35,37</b> | <b>kN</b>    |             |                         |
| -                                  | -              | -                  | m            | m           | - -                     |

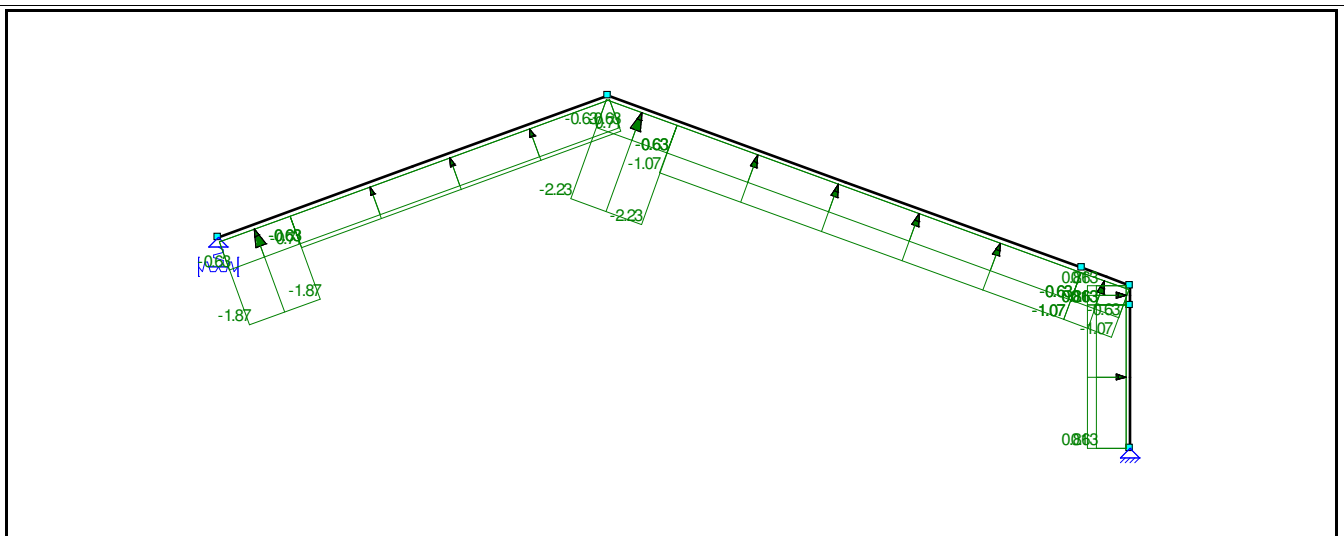
## B.G.1: PERMANENTE BELASTING



## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK

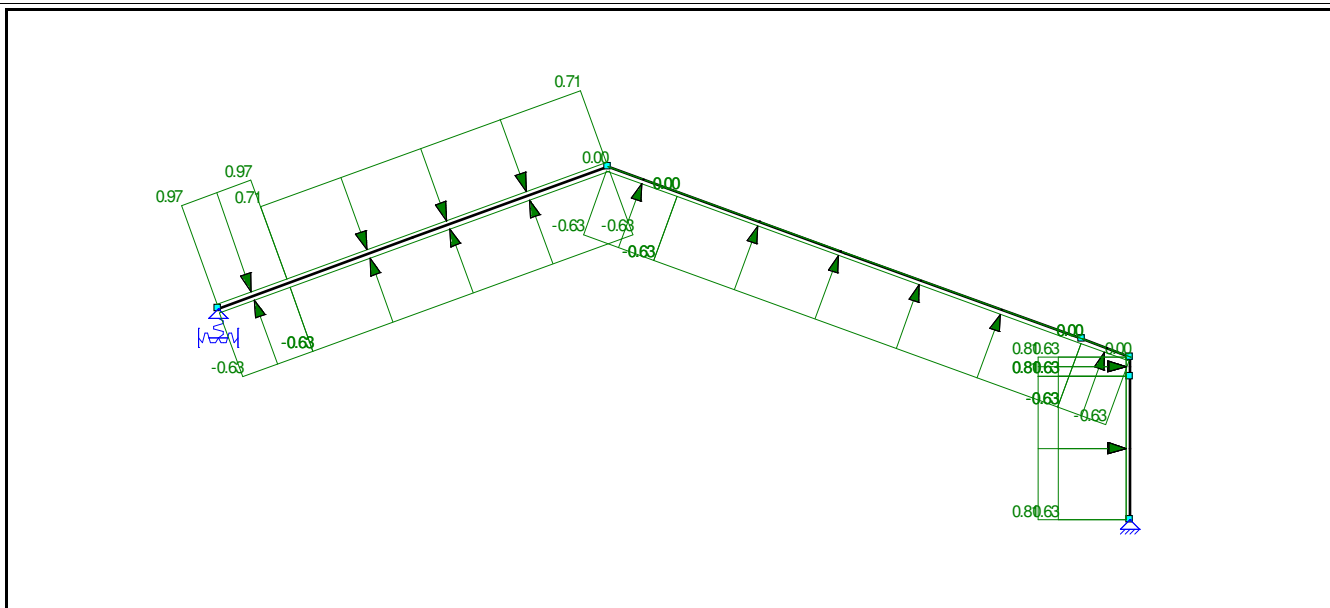
| Type                                             | Beginwaarde    | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.2: Windbelasting van Links + Overdruk</b> |                |                     |              |             |                         |
| q                                                | -1,87 (q6)     | -1,87 (q6)          | 0,000        | 1,564       | Z' S1                   |
| q                                                | -0,63 (-q3)    | -0,63 (-q3)         | 0,000        | 1,564       | Z' S1-S2                |
| q                                                | -0,71 (q7)     | -0,71 (q7)          | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                | -0,63 (-q3)    | -0,63 (-q3)         | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                | -2,23 (q8)     | -2,23 (q8)          | 0,000        | 1,564       | Z' S2                   |
| q                                                | -1,07 (q9)     | -1,07 (q9)          | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                | -1,07 (q9)     | -1,07 (q9)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                | -0,63 (-q3)    | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                | 0,81 (-q11)    | 0,81 (-q11)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                | 0,63 (q3)      | 0,63 (q3)           | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                | <b>X: 7,65</b> | <b>kN Z: -32,77</b> | <b>kN</b>    |             |                         |
| -                                                | -              | -                   | m            | m           | - -                     |

## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK



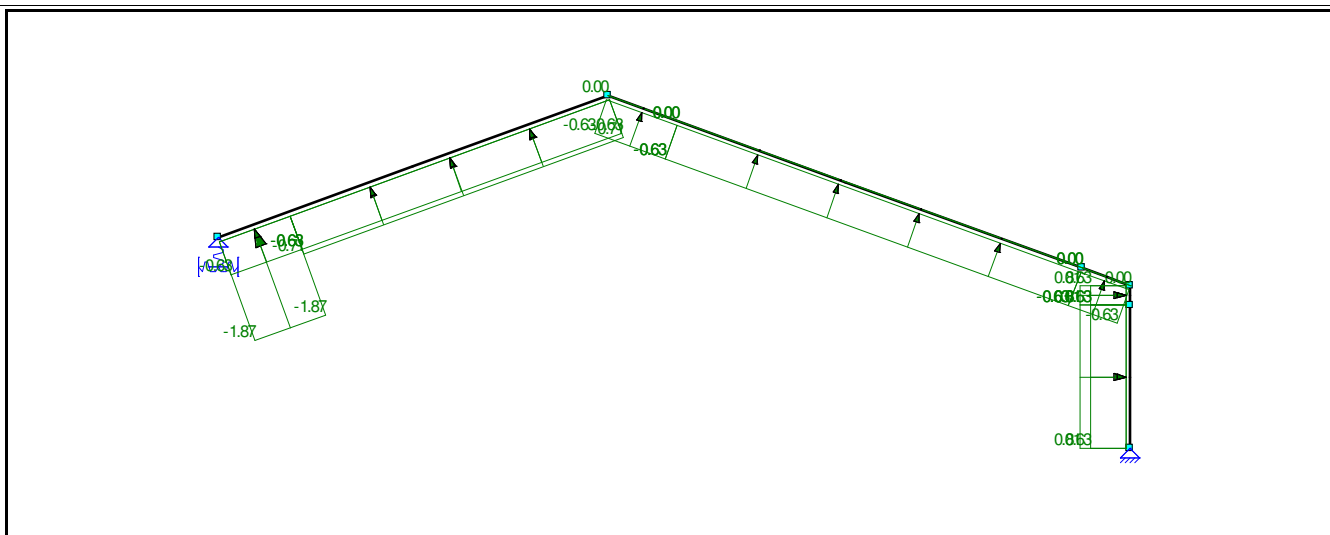
**B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)**

| Type                                                      | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.3: Windbelasting van Links + Overdruk (2e Cpe)</b> |                |                    |              |             |                         |
| q                                                         | 0,97 (q15)     | 0,97 (q15)         | 0,000        | 1,564       | Z' S1                   |
| q                                                         | -0,63 (-q12)   | -0,63 (-q12)       | 0,000        | 1,564       | Z' S1-S2                |
| q                                                         | 0,71 (q16)     | 0,71 (q16)         | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                         | -0,63 (-q12)   | -0,63 (-q12)       | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                         | 0,00 (q17)     | 0,00 (q17)         | 0,000        | 1,564       | Z' S2                   |
| q                                                         | 0,00 (q18)     | 0,00 (q18)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                         | 0,00 (q18)     | 0,00 (q18)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                         | -0,63 (-q12)   | -0,63 (-q12)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                         | 0,81 (-q20)    | 0,81 (-q20)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                         | 0,63 (q12)     | 0,63 (q12)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                         | <b>X: 7,77</b> | <b>kN Z: -5,78</b> | <b>kN</b>    |             |                         |
| -                                                         | -              | -                  | m            | m           | - -                     |

**B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)****B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                               | Beginwaarde    | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.4: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                |                     |              |             |                         |
| q                                                                                  | -1,87 (q6)     | -1,87 (q6)          | 0,000        | 1,564       | Z' S1                   |
| q                                                                                  | -0,63 (-q3)    | -0,63 (-q3)         | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                  | -0,71 (q7)     | -0,71 (q7)          | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                  | -0,63 (-q3)    | -0,63 (-q3)         | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                  | 0,00 (q17)     | 0,00 (q17)          | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | 0,00 (q18)     | 0,00 (q18)          | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                  | 0,00 (q18)     | 0,00 (q18)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                  | -0,63 (-q3)    | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                  | 0,81 (-q11)    | 0,81 (-q11)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                  | 0,63 (q3)      | 0,63 (q3)           | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                  | <b>X: 2,81</b> | <b>kN Z: -19,44</b> | <b>kN</b>    |             |                         |
| -                                                                                  | -              | -                   | m            | m           | - -                     |

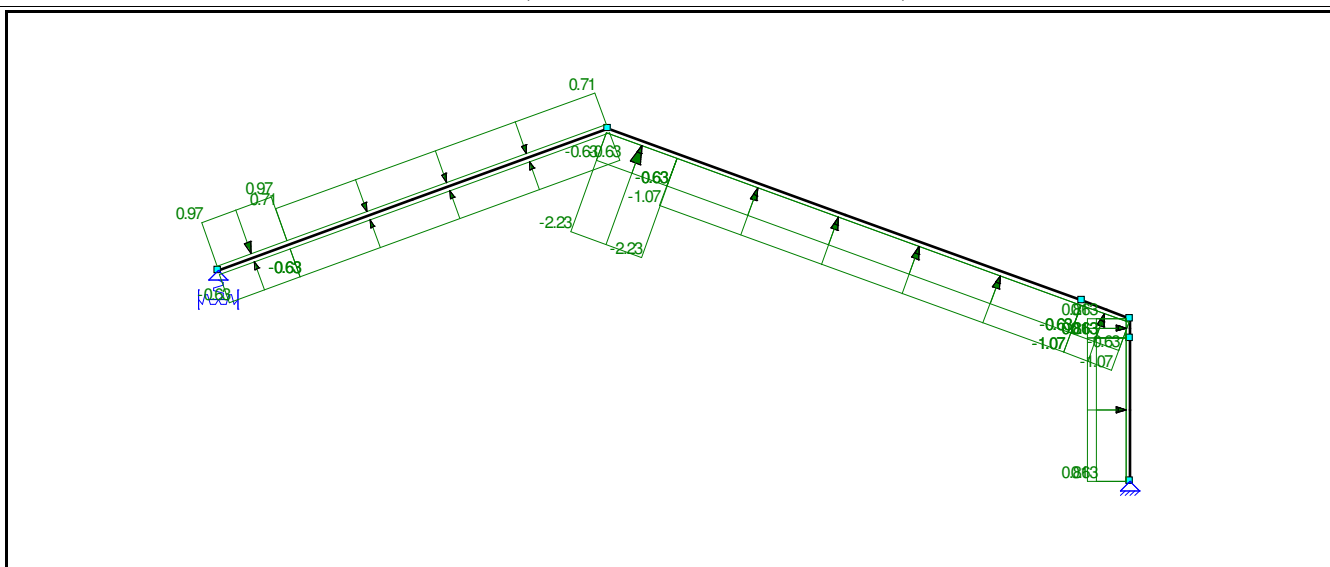
## B.G.4: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

| Type                                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.5: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                  | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,564       | Z' S1                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                  | 0,71 (q16)      | 0,71 (q16)          | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                  | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S2                   |
| q                                                                                  | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                  | -1,07 (q9)      | -1,07 (q9)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                  | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                  | <b>X: 12,61</b> | <b>kN Z: -19,11</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                                                  | -               | -                   | m            | m           | - -                     |

## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

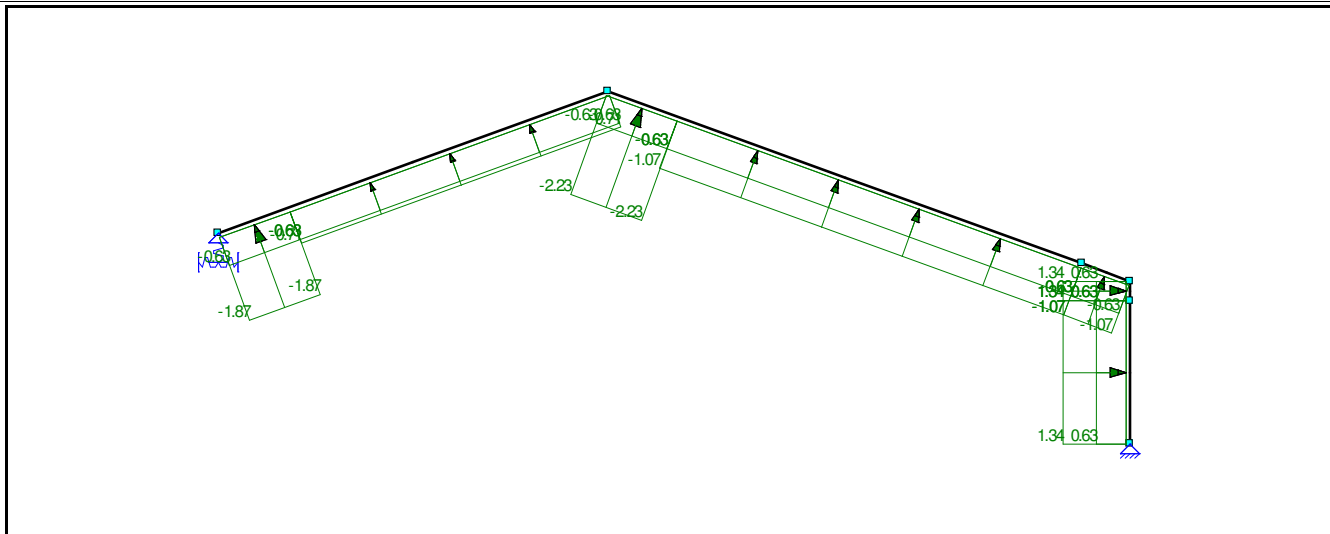


## B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)

| Type                                                               | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.6: Windbelasting van Links + Overdruk (2e corr. factor)</b> |             |             |              |             |                         |
| q                                                                  | -1,87 (q6)  | -1,87 (q6)  | 0,000        | 1,564       | Z' S1                   |
| q                                                                  | -0,63 (-q3) | -0,63 (-q3) | 0,000        | 1,564       | Z' S1-S2                |

| Type                                                               | Beginwaarde    | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------|----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.6: Windbelasting van Links + Overdruk (2e corr. factor)</b> |                |                     |              |             |                         |
| q                                                                  | -0,71 (q7)     | -0,71 (q7)          | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                  | -0,63 (-q3)    | -0,63 (-q3)         | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                  | -2,23 (q8)     | -2,23 (q8)          | 0,000        | 1,564       | Z' S2                   |
| q                                                                  | -1,07 (q9)     | -1,07 (q9)          | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                  | -1,07 (q9)     | -1,07 (q9)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                  | -0,63 (-q3)    | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                  | 1,34 (-q10)    | 1,34 (-q10)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                  | 0,63 (q3)      | 0,63 (q3)           | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                  | <b>X: 9,42</b> | <b>kN Z: -32,77</b> | <b>kN</b>    |             |                         |
| -                                                                  | -              | -                   | m            | m           | - -                     |

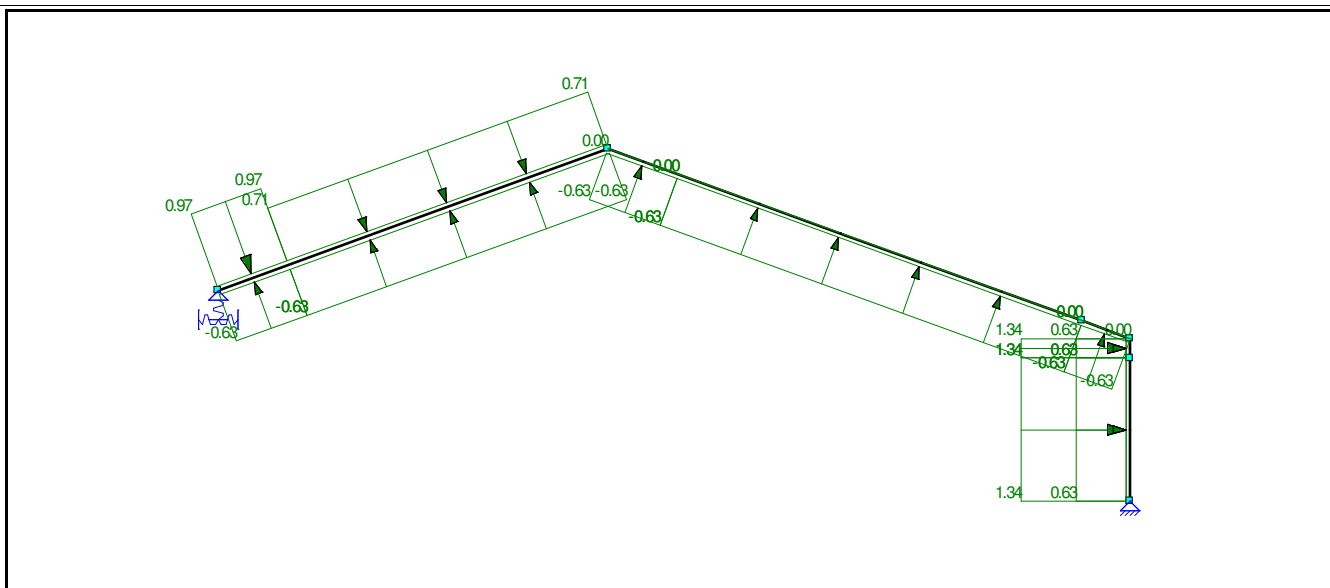
B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)

| Type                                                                        | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.7: Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)</b> |                |                    |              |             |                         |
| q                                                                           | 0,97 (q15)     | 0,97 (q15)         | 0,000        | 1,564       | Z' S1                   |
| q                                                                           | -0,63 (-q12)   | -0,63 (-q12)       | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                           | 0,71 (q16)     | 0,71 (q16)         | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                           | -0,63 (-q12)   | -0,63 (-q12)       | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                           | 0,00 (q17)     | 0,00 (q17)         | 0,000        | 1,564       | Z' S2                   |
| q                                                                           | 0,00 (q18)     | 0,00 (q18)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                           | 0,00 (q18)     | 0,00 (q18)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                           | -0,63 (-q12)   | -0,63 (-q12)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                           | 1,34 (-q19)    | 1,34 (-q19)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                           | 0,63 (q12)     | 0,63 (q12)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                           | <b>X: 9,54</b> | <b>kN Z: -5,78</b> | <b>kN</b>    |             |                         |
| -                                                                           | -              | -                  | m            | m           | - -                     |

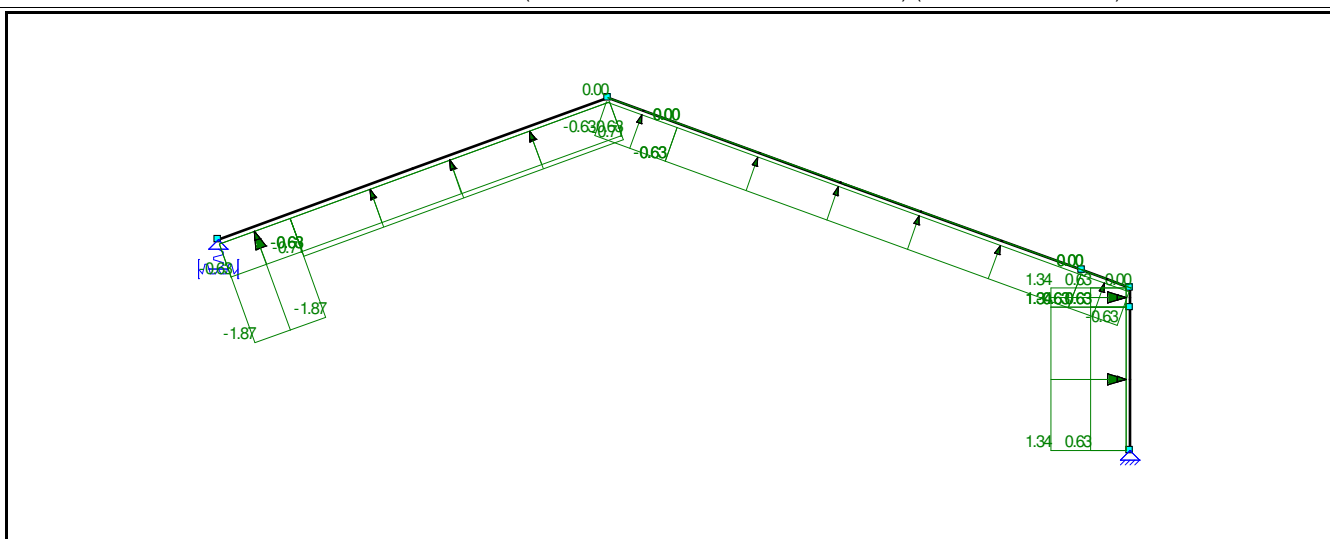
B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

| Type                                                                                          | Beginwaarde | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------------------|
| B.G.8: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |             |              |              |             |                         |
| q                                                                                             | -1,87 (q6)  | -1,87 (q6)   | 0,000        | 1,564       | Z' S1                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                             | -0,71 (q7)  | -0,71 (q7)   | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                             | 0,00 (q17)  | 0,00 (q17)   | 0,000        | 1,564       | Z' S2                   |
| q                                                                                             | 0,00 (q18)  | 0,00 (q18)   | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                             | 0,00 (q18)  | 0,00 (q18)   | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                             | 1,34 (-q10) | 1,34 (-q10)  | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                             | 0,63 (q3)   | 0,63 (q3)    | 0,000        | 3,000(L)    | Z' S3-S4                |
| Som lasten                                                                                    | X: 4,58     | kN Z: -19,44 | kN           |             |                         |
| -                                                                                             | -           | -            | m            | m           | - -                     |

B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

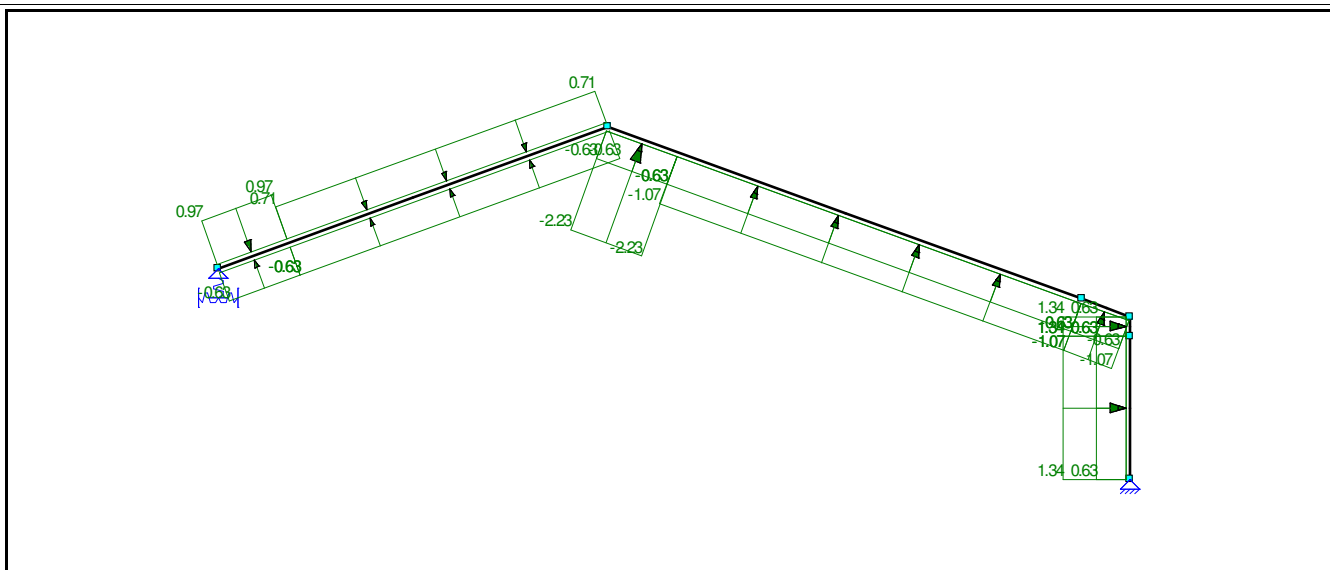


B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

| Type | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------|-------------|------------|--------------|-------------|-------------------------|
|------|-------------|------------|--------------|-------------|-------------------------|

| Type                                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.9: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                                                    | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,564       | Z' S1                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                                    | 0,71 (q16)      | 0,71 (q16)          | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                                    | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                    | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                                    | -1,07 (q9)      | -1,07 (q9)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                    | 1,34 (-q10)     | 1,34 (-q10)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                    | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                                    | <b>X: 14,38</b> | <b>kN Z: -19,11</b> | <b>kN</b>    |             |                         |
| -                                                                                                    | -               | -                   | m            | m           | - -                     |

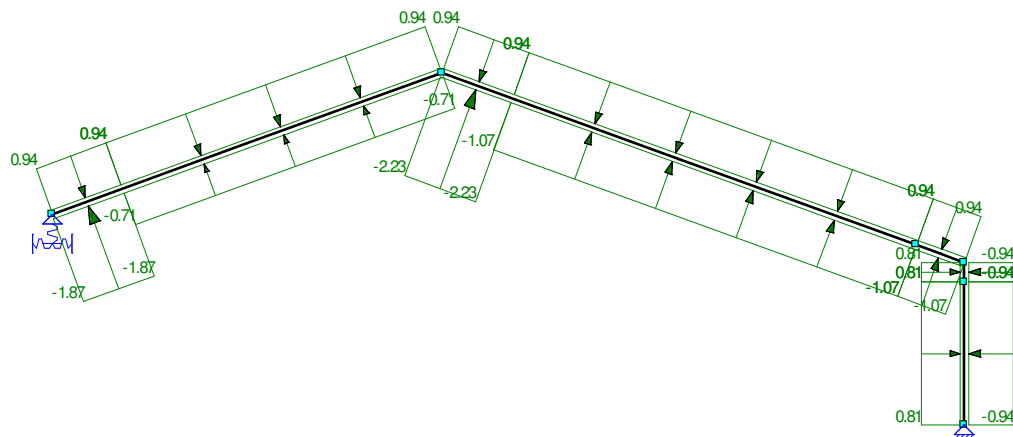
B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK

| Type                                               | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.10: Windbelasting van Links + Onderdruk</b> |                |                    |              |             |                         |
| q                                                  | -1,87 (q24)    | -1,87 (q24)        | 0,000        | 1,564       | Z' S1                   |
| q                                                  | 0,94 (-q21)    | 0,94 (-q21)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                  | -0,71 (q25)    | -0,71 (q25)        | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                  | 0,94 (-q21)    | 0,94 (-q21)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                  | -2,23 (q26)    | -2,23 (q26)        | 0,000        | 1,564       | Z' S2                   |
| q                                                  | -1,07 (q27)    | -1,07 (q27)        | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                  | -1,07 (q27)    | -1,07 (q27)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                  | 0,94 (-q21)    | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                  | 0,81 (-q29)    | 0,81 (-q29)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                  | -0,94 (q21)    | -0,94 (q21)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                  | <b>X: 0,74</b> | <b>kN Z: -2,91</b> | <b>kN</b>    |             |                         |
| -                                                  | -              | -                  | m            | m           | - -                     |

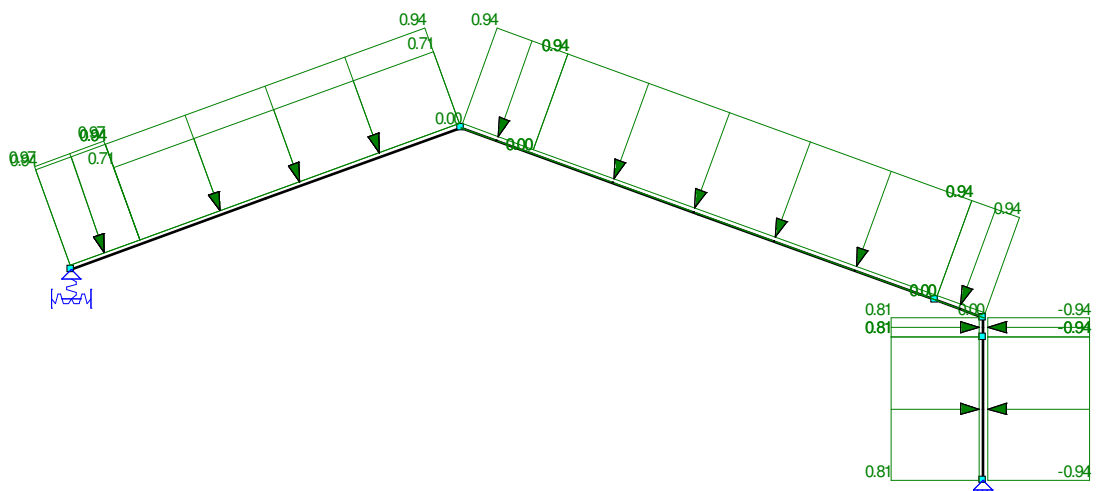
## B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK



## B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)

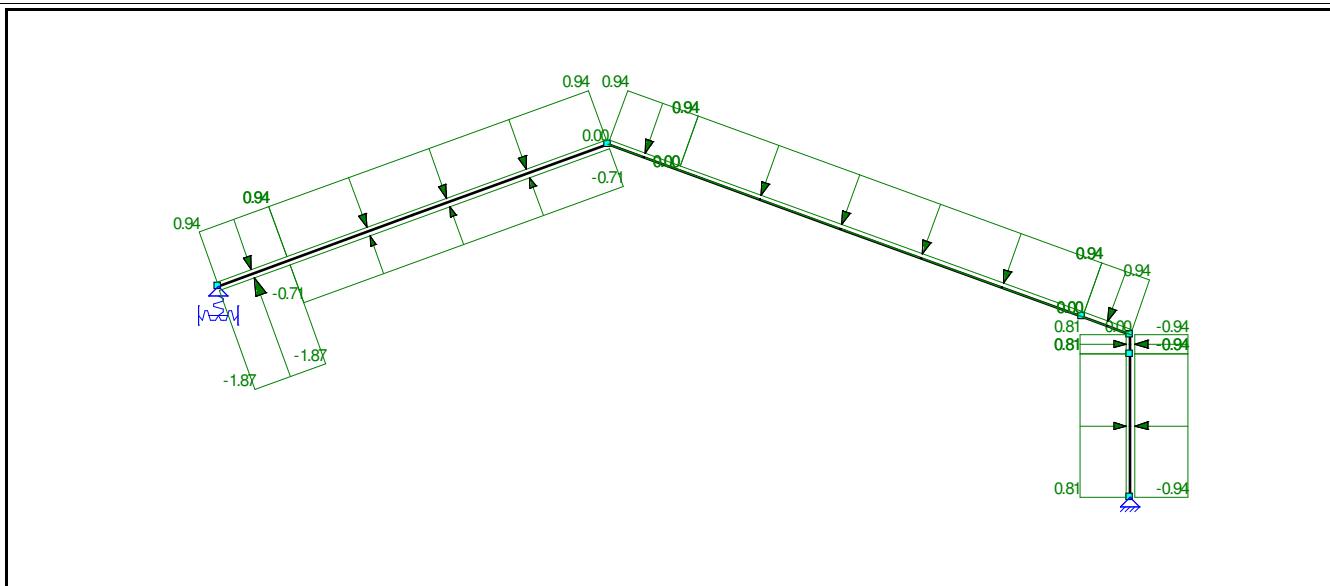
| Type                                                        | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.11: Windbelasting van Links + Onderdruk (2e Cpe)</b> |                |                    |              |             |                         |
| q                                                           | 0,97 (q33)     | 0,97 (q33)         | 0,000        | 1,564       | Z' S1                   |
| q                                                           | 0,94 (-q30)    | 0,94 (-q30)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                           | 0,71 (q34)     | 0,71 (q34)         | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                           | 0,94 (-q30)    | 0,94 (-q30)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                           | 0,00 (q35)     | 0,00 (q35)         | 0,000        | 1,564       | Z' S2                   |
| q                                                           | 0,00 (q36)     | 0,00 (q36)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                           | 0,00 (q36)     | 0,00 (q36)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                           | 0,94 (-q30)    | 0,94 (-q30)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                           | 0,81 (-q38)    | 0,81 (-q38)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                           | -0,94 (q30)    | -0,94 (q30)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                           | <b>X: 0,86</b> | <b>kN Z: 24,07</b> | <b>kN</b>    |             |                         |
| -                                                           | -              | -                  | m            | m           | - -                     |

## B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)



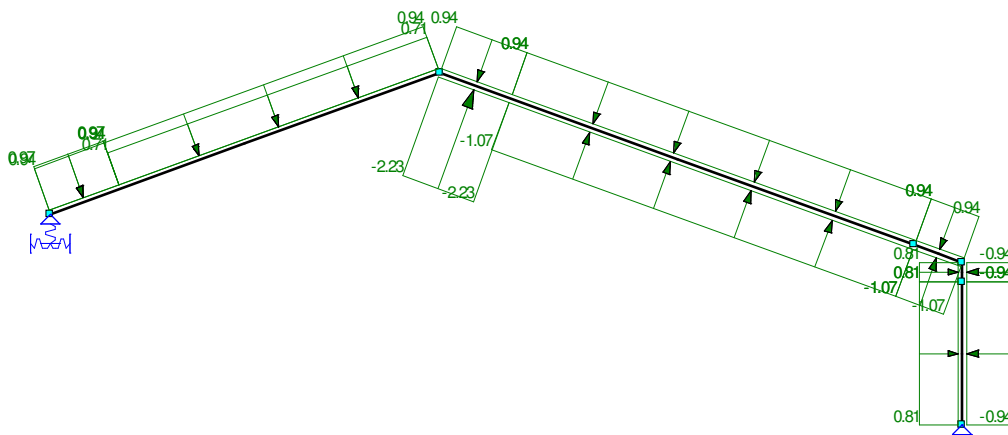
**B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.12: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                                                    | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,564       | Z' S1                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                    | -0,71 (q25)     | -0,71 (q25)        | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                    | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       | Z' S2                   |
| q                                                                                    | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                    | 0,00 (q36)      | 0,00 (q36)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | 0,81 (-q29)     | 0,81 (-q29)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                    | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                    | <b>X: -4,10</b> | <b>kN Z: 10,41</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                  | m            | m           | - -                     |

**B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)****B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                 | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.13: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                |                    |              |             |                         |
| q                                                                                    | 0,97 (q33)     | 0,97 (q33)         | 0,000        | 1,564       | Z' S1                   |
| q                                                                                    | 0,94 (-q21)    | 0,94 (-q21)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                    | 0,71 (q34)     | 0,71 (q34)         | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                    | 0,94 (-q21)    | 0,94 (-q21)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                    | -2,23 (q26)    | -2,23 (q26)        | 0,000        | 1,564       | Z' S2                   |
| q                                                                                    | -1,07 (q27)    | -1,07 (q27)        | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                    | -1,07 (q27)    | -1,07 (q27)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | 0,94 (-q21)    | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | 0,81 (-q29)    | 0,81 (-q29)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                    | -0,94 (q21)    | -0,94 (q21)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                    | <b>X: 5,70</b> | <b>kN Z: 10,75</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -              | -                  | m            | m           | - -                     |

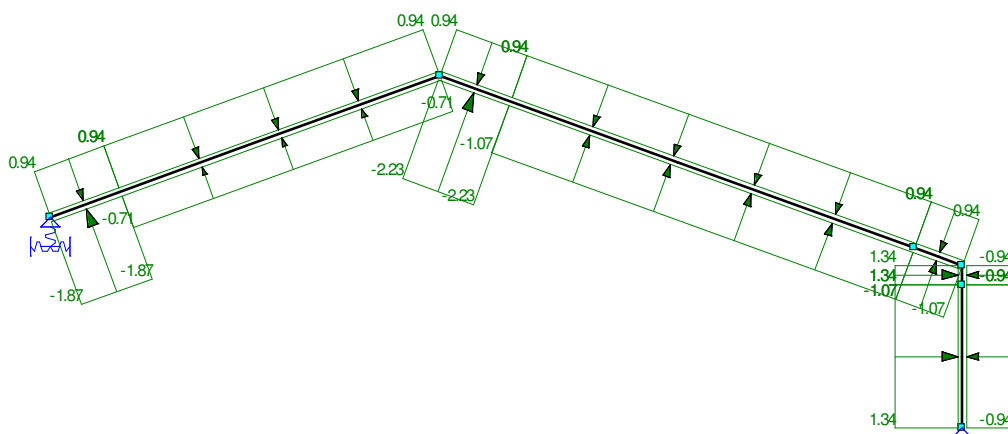
B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)

| Type                                                          | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| B.G.14: Windbelasting van Links + Onderdruk (2e corr. factor) |             |             |              |             |                         |
| q                                                             | -1,87 (q24) | -1,87 (q24) | 0,000        | 1,564       | Z' S1                   |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S1-S2                |
| q                                                             | -0,71 (q25) | -0,71 (q25) | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                             | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,564       | Z' S2                   |
| q                                                             | -1,07 (q27) | -1,07 (q27) | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                             | -1,07 (q27) | -1,07 (q27) | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                             | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                             | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                             | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,000(L)    | Z' S3-S4                |
| Som lasten                                                    | X: 2,51     | kN Z: -2,91 | kN           |             |                         |
| -                                                             | -           | -           | m            | m           | - -                     |

B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)

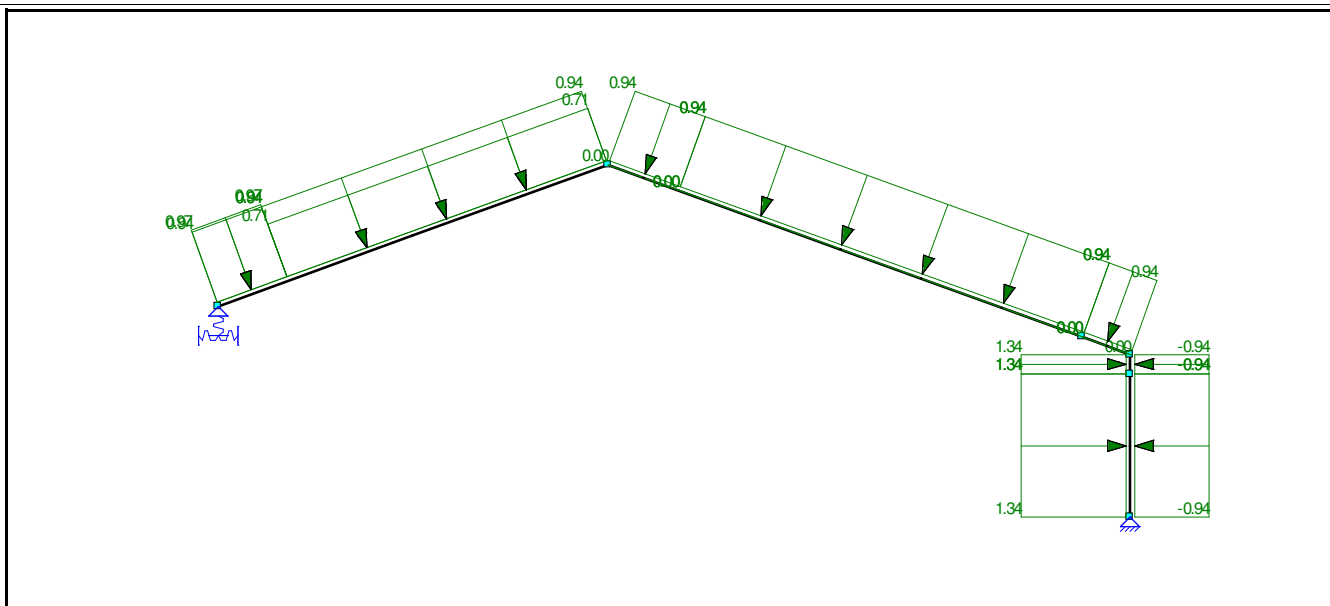


B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)

| Type                                                                   | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------|-------------|------------|--------------|-------------|-------------------------|
| B.G.15: Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor) |             |            |              |             |                         |

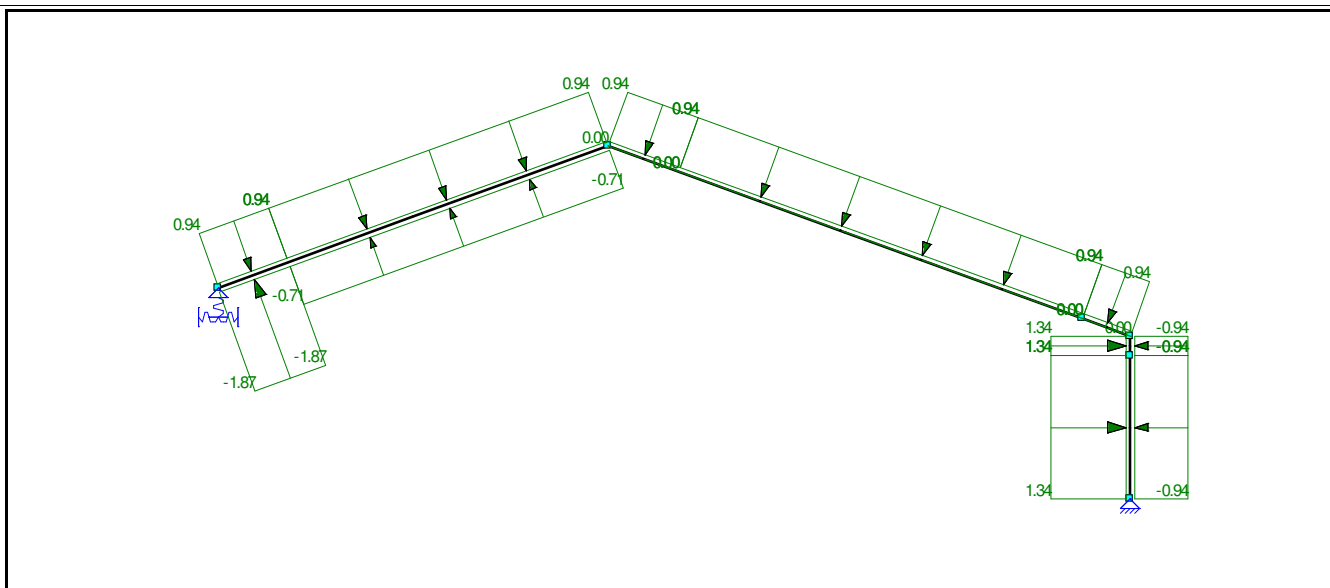
| Type                                                                          | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.15: Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)</b> |                |                    |              |             |                         |
| q                                                                             | 0,97 (q33)     | 0,97 (q33)         | 0,000        | 1,564       | Z' S1                   |
| q                                                                             | 0,94 (-q30)    | 0,94 (-q30)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                             | 0,71 (q34)     | 0,71 (q34)         | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                             | 0,94 (-q30)    | 0,94 (-q30)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                             | 0,00 (q35)     | 0,00 (q35)         | 0,000        | 1,564       | Z' S2                   |
| q                                                                             | 0,00 (q36)     | 0,00 (q36)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                             | 0,00 (q36)     | 0,00 (q36)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                             | 0,94 (-q30)    | 0,94 (-q30)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                             | 1,34 (-q37)    | 1,34 (-q37)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                             | -0,94 (q30)    | -0,94 (q30)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                             | <b>X: 2,63</b> | <b>kN Z: 24,07</b> | <b>kN</b>    |             |                         |
| -                                                                             | -              | -                  | m            | m           | - -                     |

B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)

**B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.16: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                                                      | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,564       | Z' S1                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z' S1-S2                |
| q                                                                                                      | -0,71 (q25)     | -0,71 (q25)        | 1,564        | 8,644(L)    | Z' S1                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 8,644(L)    | Z' S1-S2                |
| q                                                                                                      | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       | Z' S2                   |
| q                                                                                                      | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 10,506(L)   | Z' S2                   |
| q                                                                                                      | 0,00 (q36)      | 0,00 (q36)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | 1,34 (-q28)     | 1,34 (-q28)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                      | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                                      | <b>X: -2,33</b> | <b>kN Z: 10,41</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -               | -                  | m            | m           | - -                     |

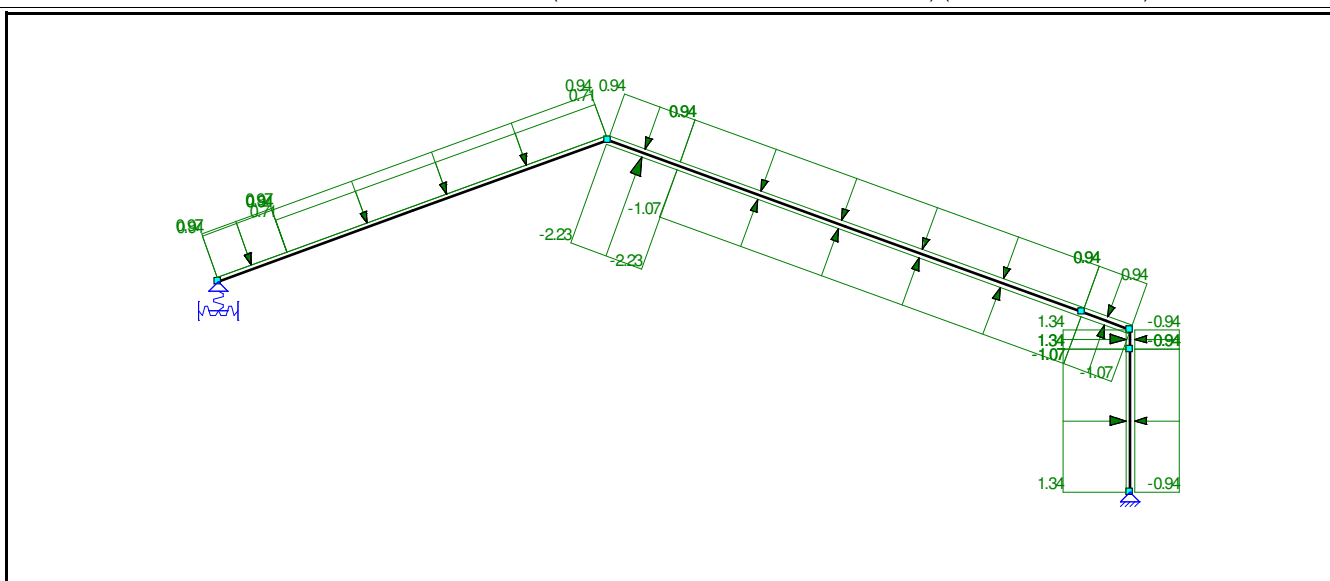
B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

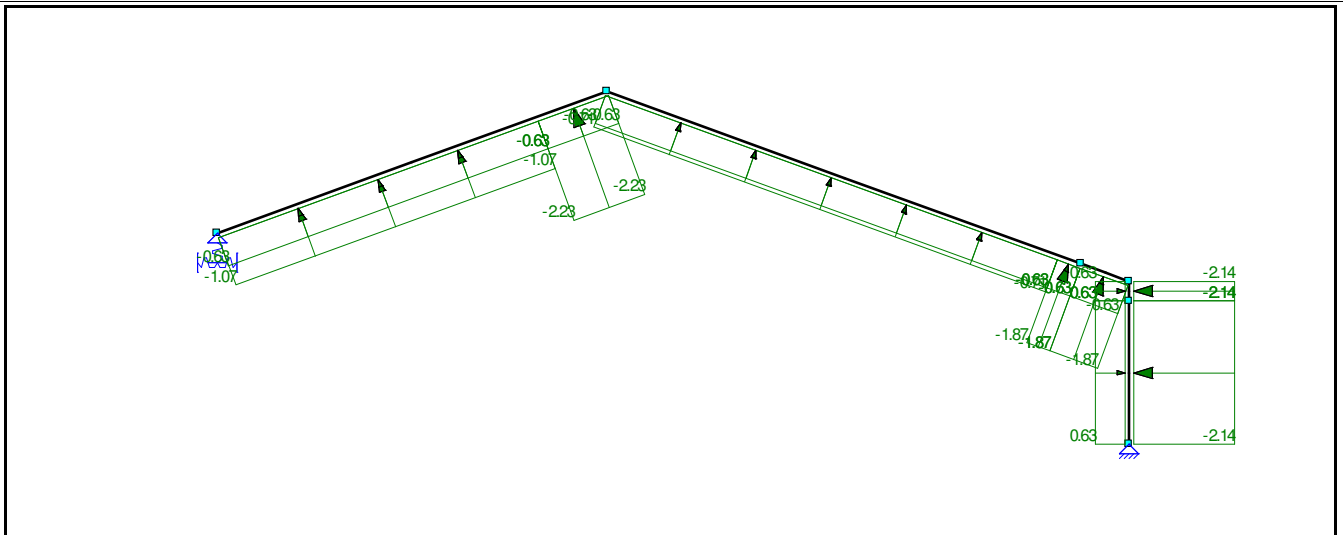
| Type                                                                                            | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf van knoop |
|-------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|--------------------------|
| B.G.17: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) |             |             |              |             |                          |
| q                                                                                               | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,564       | Z' S1                    |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z' S1-S2                 |
| q                                                                                               | 0,71 (q34)  | 0,71 (q34)  | 1,564        | 8,644(L)    | Z' S1                    |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 8,644(L)    | Z' S1-S2                 |
| q                                                                                               | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,564       | Z' S2                    |
| q                                                                                               | -1,07 (q27) | -1,07 (q27) | 1,564        | 10,506(L)   | Z' S2                    |
| q                                                                                               | -1,07 (q27) | -1,07 (q27) | 0,000        | 1,064(L)    | Z' S5                    |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,064(L)    | Z' S5                    |
| q                                                                                               | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,000(L)    | Z' S3-S4                 |
| q                                                                                               | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,000(L)    | Z' S3-S4                 |
| Som lasten                                                                                      | X: 7,47     | kN Z: 10,75 | kN           | m           | - -                      |
| -                                                                                               | -           | -           | m            | m           | - -                      |

B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



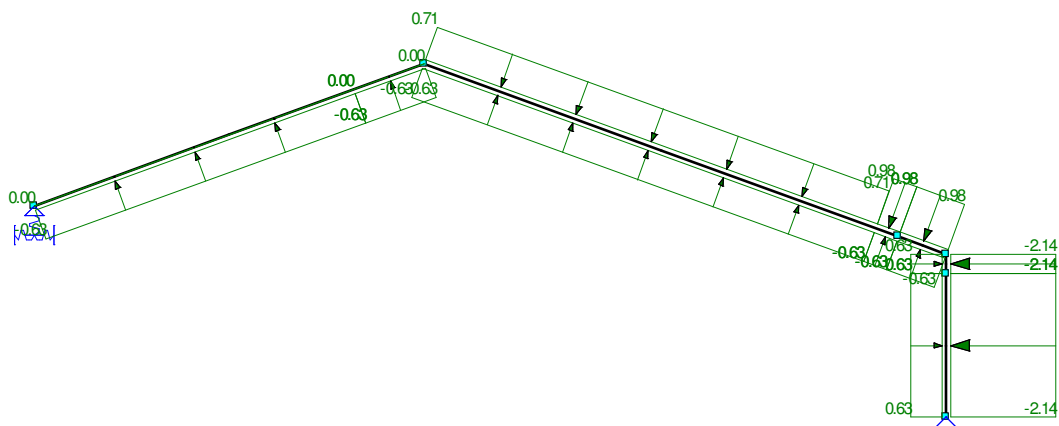
**B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK**

| Type                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.18: Windbelasting van Rechts + Overdruk</b> |                 |                     |              |             |                         |
| q                                                  | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 7,080       | Z' S1                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1                   |
| q                                                  | -2,23 (q44)     | -2,23 (q44)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                  | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S2                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2                   |
| q                                                  | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                  | -1,87 (q46)     | -1,87 (q46)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                  | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                  | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                  | <b>X: -4,84</b> | <b>kN Z: -31,79</b> | <b>kN</b>    |             |                         |
| -                                                  | -               | -                   | m            | m           | - -                     |

**B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK****B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)**

| Type                                                        | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.19: Windbelasting van Rechts + Overdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                           | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 7,080       | Z' S1                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 7,080       | Z' S1                   |
| q                                                           | 0,00 (q53)      | 0,00 (q53)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                           | 0,71 (q54)      | 0,71 (q54)         | 0,000        | 10,006      | Z' S2                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 10,006      | Z' S2                   |
| q                                                           | 0,98 (q55)      | 0,98 (q55)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                           | 0,98 (q55)      | 0,98 (q55)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                           | -2,14 (-q56)    | -2,14 (-q56)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                           | 0,63 (q48)      | 0,63 (q48)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                           | <b>X: -7,45</b> | <b>kN Z: -3,82</b> | <b>kN</b>    |             |                         |
| -                                                           | -               | -                  | m            | m           | - -                     |

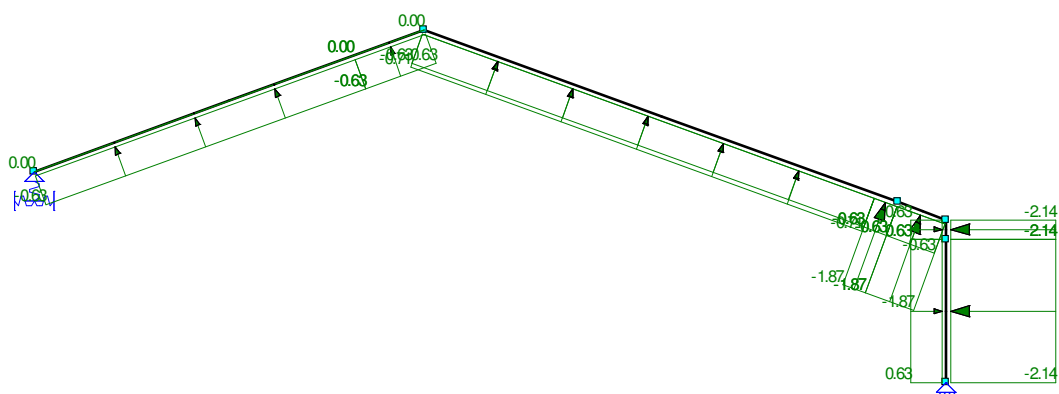
B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)



B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)

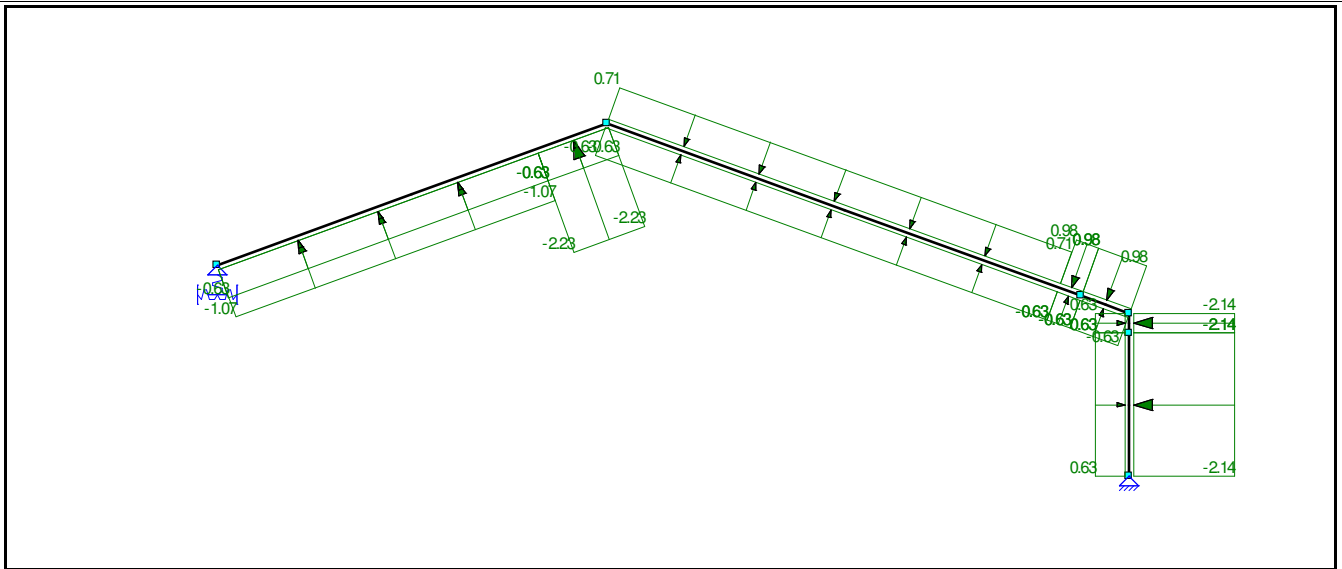
| Type                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting | Staat of knoop |
|--------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|----------|----------------|
| <b>B.G.20: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                     |              |             |          |                |
| q                                                                                    | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 7,080       | Z' S1    |                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1    |                |
| q                                                                                    | 0,00 (q53)      | 0,00 (q53)          | 7,080        | 8,644(L)    | Z' S1    |                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1    |                |
| q                                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S2    |                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2    |                |
| q                                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 10,506(L)   | Z' S2    |                |
| q                                                                                    | -1,87 (q46)     | -1,87 (q46)         | 0,000        | 1,064(L)    | Z' S5    |                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2    |                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5    |                |
| q                                                                                    | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,000(L)    | Z' S3-S4 |                |
| q                                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4 |                |
| <b>Som lasten</b>                                                                    | <b>X: -1,06</b> | <b>kN Z: -21,40</b> | <b>kN</b>    | <b>m</b>    | <b>-</b> | <b>-</b>       |
| -                                                                                    | -               | -                   | m            | m           | -        | -              |

B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



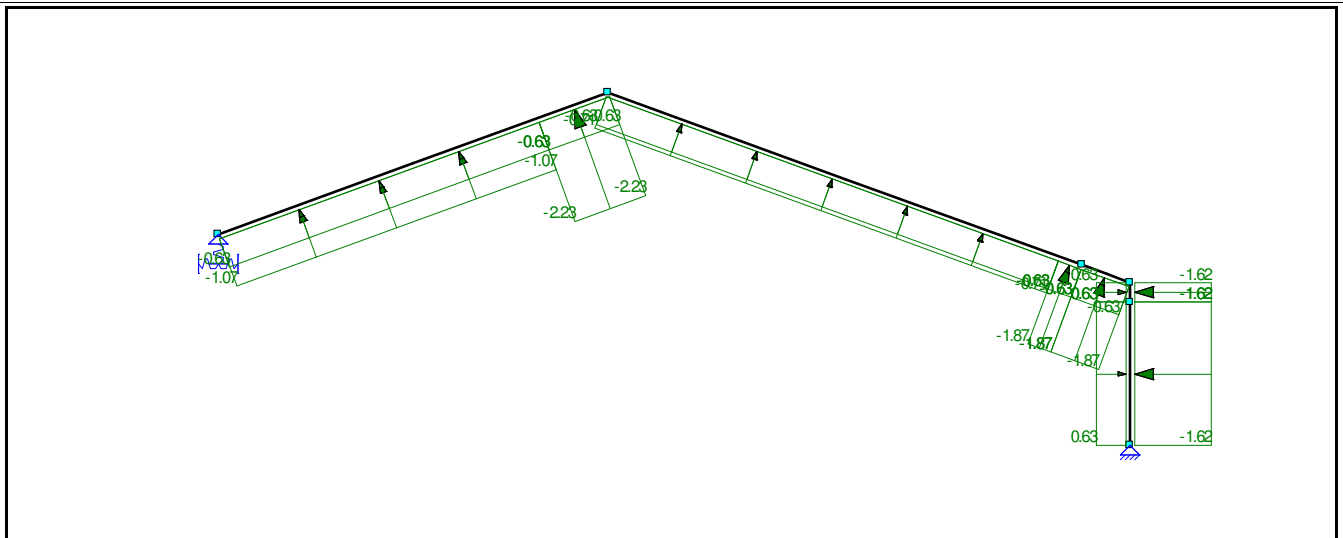
**B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                 | Beginwaarde      | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|------------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.21: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                  |                     |              |             |                         |
| q                                                                                    | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 7,080       | Z' S1                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                    | -2,23 (q44)      | -2,23 (q44)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                    | 0,71 (q54)       | 0,71 (q54)          | 0,000        | 10,006      | Z' S2                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                                    | 0,98 (q55)       | 0,98 (q55)          | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                    | 0,98 (q55)       | 0,98 (q55)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                    | -2,14 (-q47)     | -2,14 (-q47)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                    | 0,63 (q39)       | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                    | <b>X: -11,22</b> | <b>kN Z: -14,21</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -                | -                   | m            | m           | - -                     |

**B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)****B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)**

| Type                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.22: Windbelasting van Rechts + Overdruk (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                    | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 7,080       | Z' S1                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                    | -2,23 (q44)     | -2,23 (q44)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                    | -1,87 (q46)     | -1,87 (q46)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                    | -1,62 (-q42)    | -1,62 (-q42)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                    | <b>X: -3,07</b> | <b>kN Z: -31,79</b> | <b>kN</b>    |             |                         |
| -                                                                    | -               | -                   | m            | m           | - -                     |

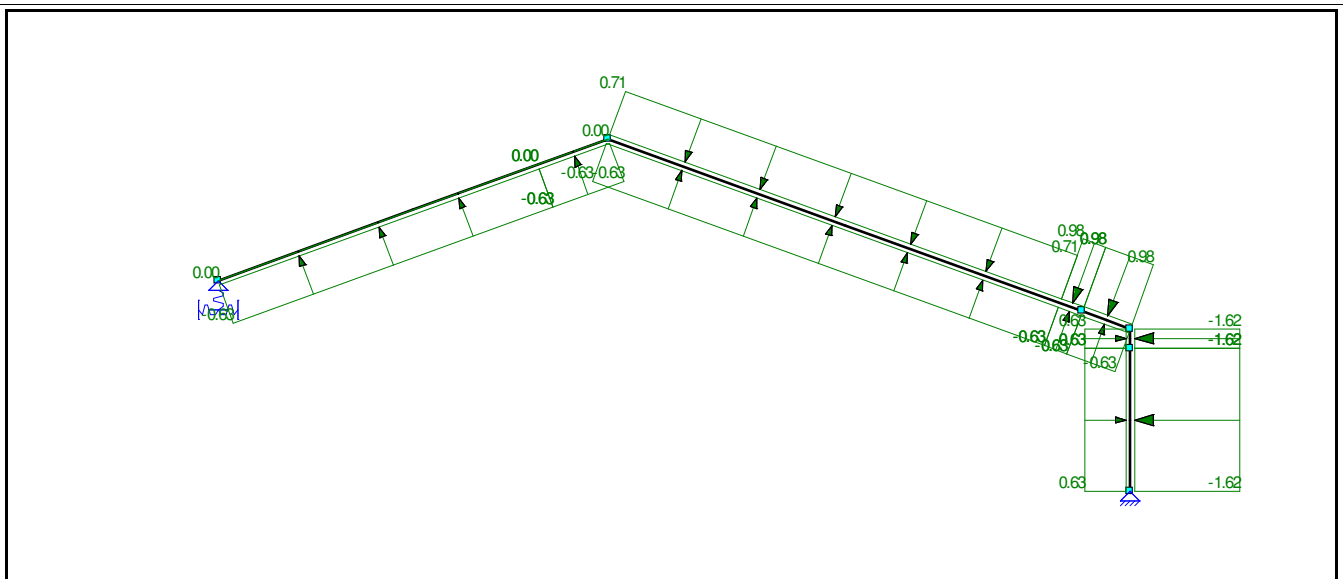
## B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)



## B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)

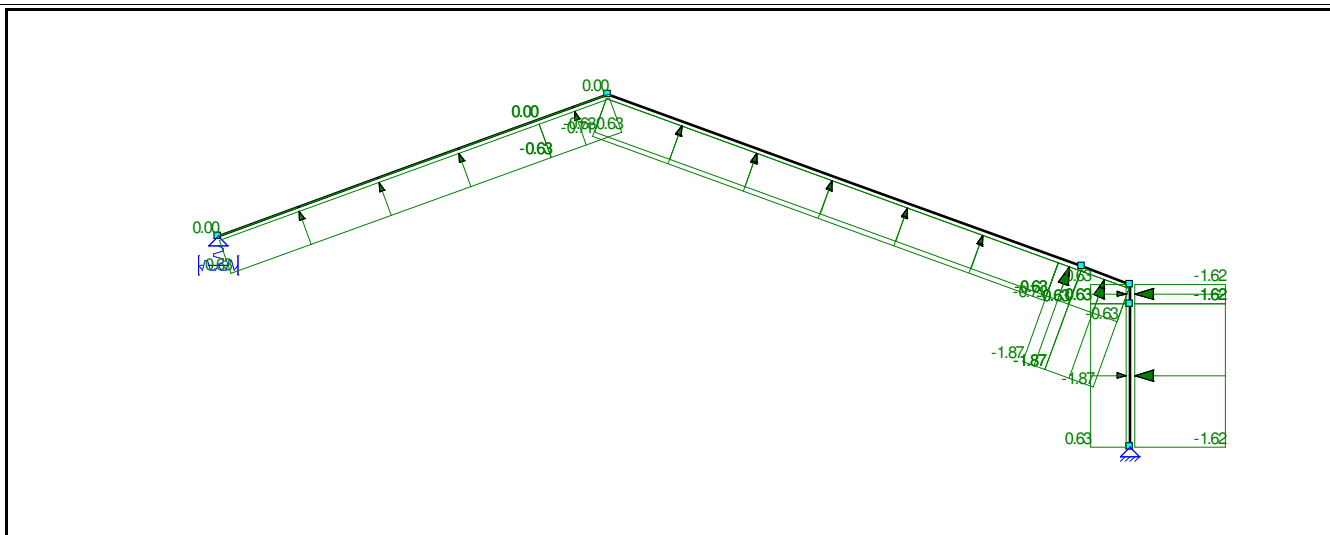
| Type                                                                          | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.23: Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                             | 0,00 (q52)      | 0,00 (q52)         | 0,000        | 7,080       | Z' S1                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 7,080       | Z' S1                   |
| q                                                                             | 0,00 (q53)      | 0,00 (q53)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                             | 0,71 (q54)      | 0,71 (q54)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 10,006      | Z' S2                   |
| q                                                                             | 0,98 (q55)      | 0,98 (q55)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                             | 0,98 (q55)      | 0,98 (q55)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                             | -1,62 (-q51)    | -1,62 (-q51)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                             | 0,63 (q48)      | 0,63 (q48)         | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                             | <b>X: -5,68</b> | <b>kN Z: -3,82</b> | <b>kN</b>    |             |                         |
| -                                                                             | -               | -                  | m            | m           | - -                     |

## B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



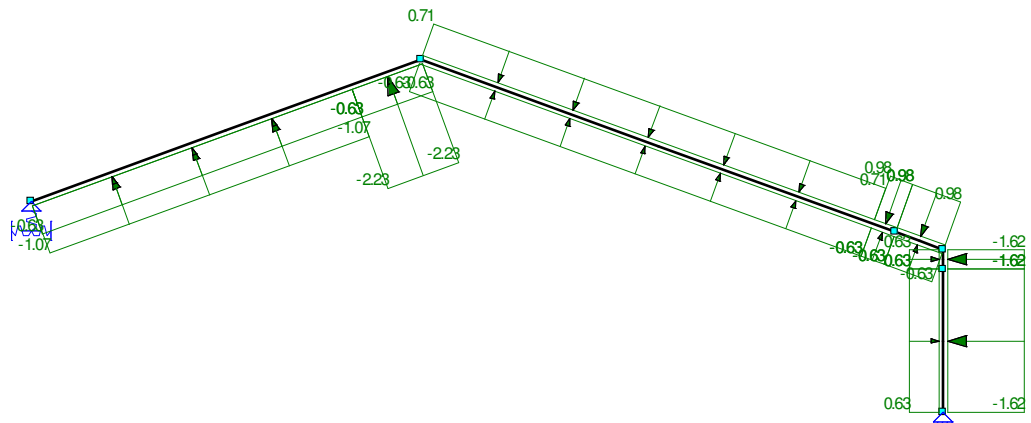
**B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde    | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.24: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                |                     |              |             |                         |
| q                                                                                                      | 0,00 (q52)     | 0,00 (q52)          | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                      | -0,63 (-q39)   | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                      | 0,00 (q53)     | 0,00 (q53)          | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                      | -0,63 (-q39)   | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                      | -0,71 (q45)    | -0,71 (q45)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                      | -0,63 (-q39)   | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                      | -1,87 (q46)    | -1,87 (q46)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                      | -1,87 (q46)    | -1,87 (q46)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | -0,63 (-q39)   | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                      | -0,63 (-q39)   | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | -1,62 (-q42)   | -1,62 (-q42)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                      | 0,63 (q39)     | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                                      | <b>X: 0,71</b> | <b>kN Z: -21,40</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -              | -                   | m            | m           | - -                     |

**B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)****B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.25: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                                                      | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                      | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                      | -2,23 (q44)     | -2,23 (q44)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                      | -0,63 (-q39)    | -0,63 (-q39)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                      | 0,71 (q54)      | 0,71 (q54)          | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                      | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                      | 0,98 (q55)      | 0,98 (q55)          | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                      | 0,98 (q55)      | 0,98 (q55)          | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                      | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                      | -1,62 (-q42)    | -1,62 (-q42)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                      | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                                      | <b>X: -9,45</b> | <b>kN Z: -14,21</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -               | -                   | m            | m           | - -                     |

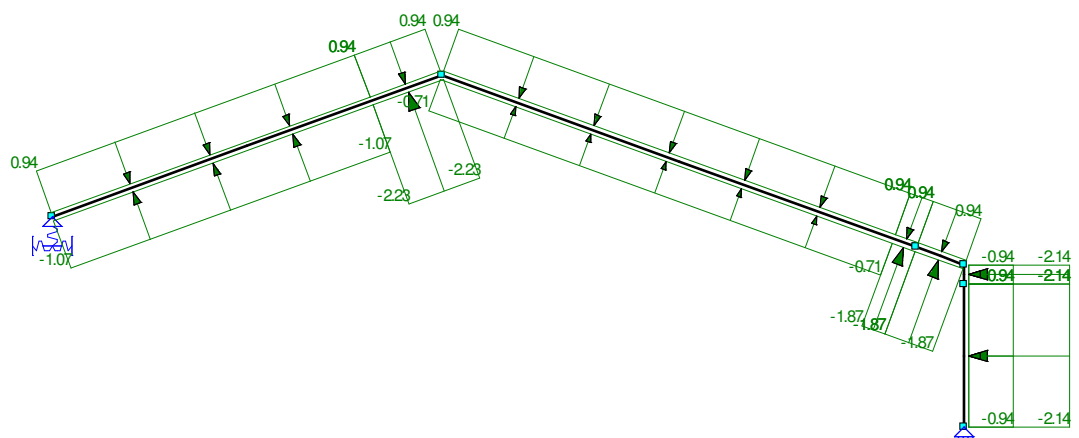
B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK

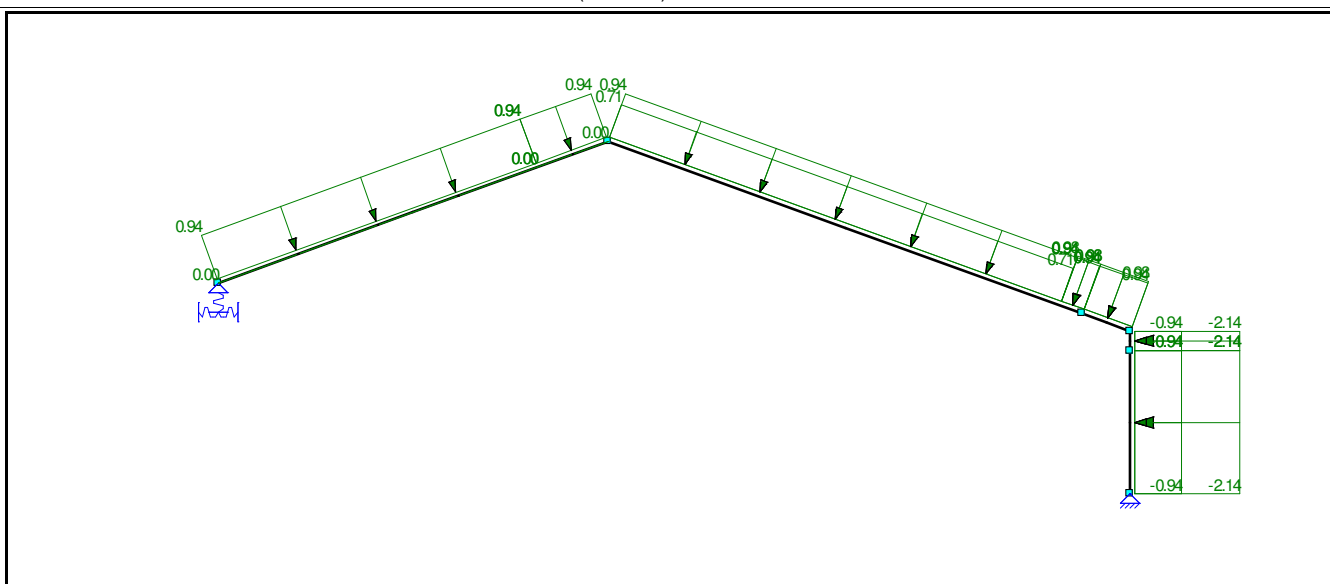
| Type                                                | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.26: Windbelasting van Rechts + Onderdruk</b> |                  |                    |              |             |                         |
| q                                                   | -1,07 (q61)      | -1,07 (q61)        | 0,000        | 7,080       | Z' S1                   |
| q                                                   | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 7,080       | Z' S1                   |
| q                                                   | -2,23 (q62)      | -2,23 (q62)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                   | 0,94 (-q57)      | 0,94 (-q57)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                   | -0,71 (q63)      | -0,71 (q63)        | 0,000        | 10,006      | Z' S2                   |
| q                                                   | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 10,006      | Z' S2                   |
| q                                                   | -1,87 (q64)      | -1,87 (q64)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                   | -1,87 (q64)      | -1,87 (q64)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                   | 0,94 (-q57)      | 0,94 (-q57)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                   | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                   | -2,14 (-q65)     | -2,14 (-q65)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                   | -0,94 (q57)      | -0,94 (q57)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                   | <b>X: -11,75</b> | <b>kN Z: -1,93</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                   | -                | -                  | m            | m           | - -                     |

B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK



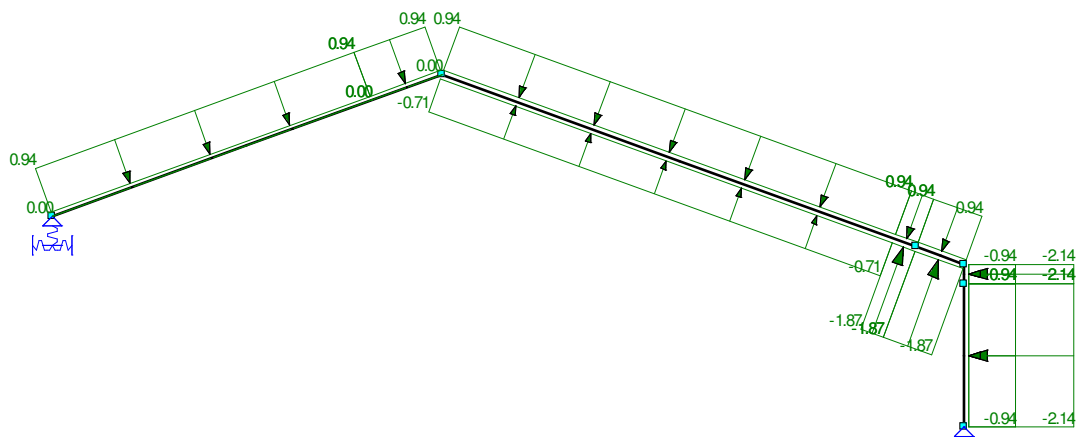
**B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)**

| Type                                                         | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.27: Windbelasting van Rechts + Onderdruk (2e Cpe)</b> |                  |                    |              |             |                         |
| q                                                            | 0,00 (q70)       | 0,00 (q70)         | 0,000        | 7,080       | Z' S1                   |
| q                                                            | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 7,080       | Z' S1                   |
| q                                                            | 0,00 (q71)       | 0,00 (q71)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                            | 0,94 (-q66)      | 0,94 (-q66)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                            | 0,71 (q72)       | 0,71 (q72)         | 0,000        | 10,006      | Z' S2                   |
| q                                                            | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 10,006      | Z' S2                   |
| q                                                            | 0,98 (q73)       | 0,98 (q73)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                            | 0,98 (q73)       | 0,98 (q73)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                            | 0,94 (-q66)      | 0,94 (-q66)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                            | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                            | -2,14 (-q74)     | -2,14 (-q74)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                            | -0,94 (q66)      | -0,94 (q66)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                            | <b>X: -14,36</b> | <b>kN Z: 26,03</b> | <b>kN</b>    |             |                         |
| -                                                            | -                | -                  | m            | m           | - -                     |

**B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)****B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                  | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.28: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                   |              |             |                         |
| q                                                                                     | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 7,080       | Z' S1                   |
| q                                                                                     | 0,00 (q71)      | 0,00 (q71)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                     | -0,71 (q63)     | -0,71 (q63)       | 0,000        | 10,006      | Z' S2                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 10,006      | Z' S2                   |
| q                                                                                     | -1,87 (q64)     | -1,87 (q64)       | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                     | -1,87 (q64)     | -1,87 (q64)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                     | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                     | -2,14 (-q65)    | -2,14 (-q65)      | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                     | -0,94 (q57)     | -0,94 (q57)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                     | <b>X: -7,98</b> | <b>kN Z: 8,45</b> | <b>kN</b>    |             |                         |
| -                                                                                     | -               | -                 | m            | m           | - -                     |

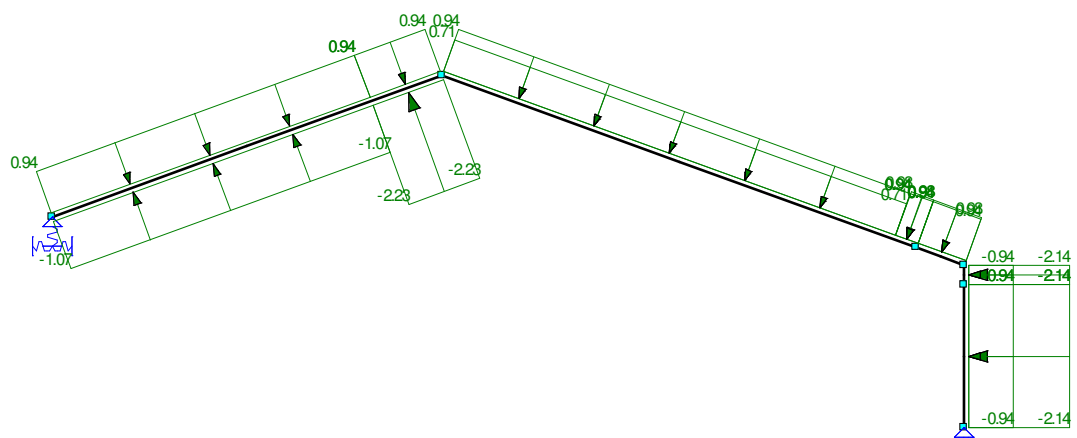
B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

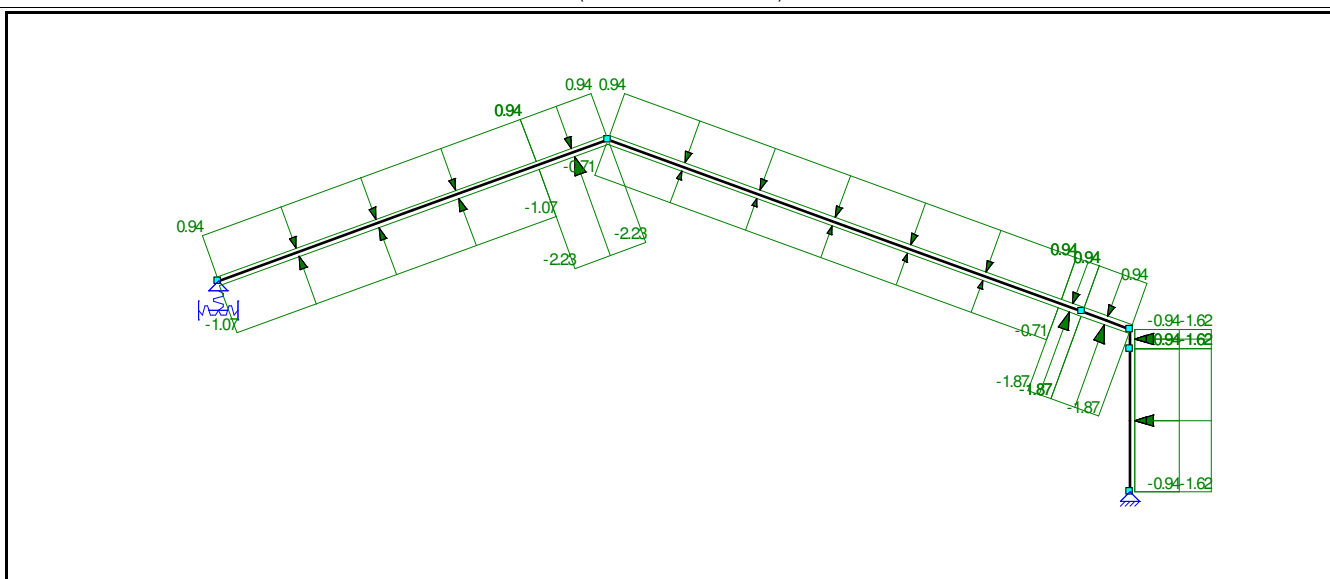
| Type                                                                           | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| B.G.29: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) |                  |                    |              |             |                         |
| q                                                                              | -1,07 (q61)      | -1,07 (q61)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                              | -2,23 (q62)      | -2,23 (q62)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                              | 0,71 (q72)       | 0,71 (q72)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                              | 0,98 (q73)       | 0,98 (q73)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                              | 0,98 (q73)       | 0,98 (q73)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                              | -2,14 (-q65)     | -2,14 (-q65)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                              | -0,94 (q57)      | -0,94 (q57)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                              | <b>X: -18,13</b> | <b>kN Z: 15,64</b> | <b>kN</b>    |             |                         |
| -                                                                              | -                | -                  | m            | m           | - -                     |

B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



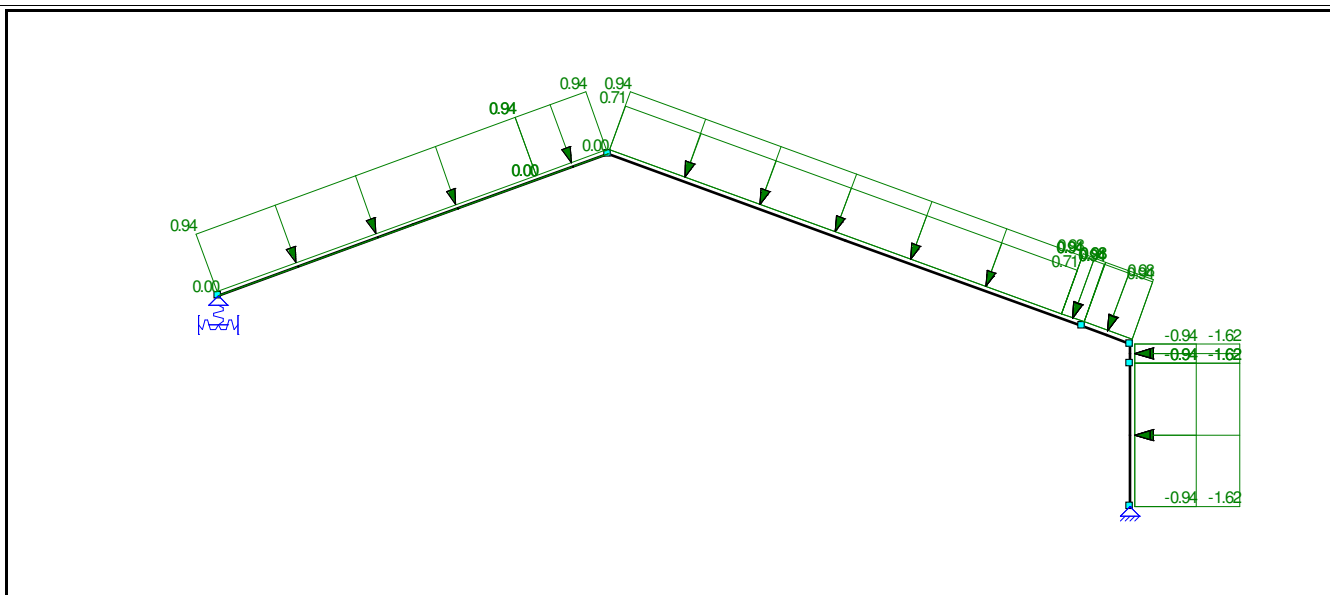
**B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)**

| Type                                                                  | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.30: Windbelasting van Rechts + Onderdruk (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                     | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                     | -2,23 (q62)     | -2,23 (q62)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                     | -0,71 (q63)     | -0,71 (q63)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                     | -1,87 (q64)     | -1,87 (q64)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                     | -1,87 (q64)     | -1,87 (q64)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                     | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                     | -1,62 (-q60)    | -1,62 (-q60)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                     | -0,94 (q57)     | -0,94 (q57)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                     | <b>X: -9,98</b> | <b>kN Z: -1,93</b> | <b>kN</b>    |             |                         |
| -                                                                     | -               | -                  | m            | m           | - -                     |

**B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)****B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                           | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.31: Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)</b> |                  |                    |              |             |                         |
| q                                                                              | 0,00 (q70)       | 0,00 (q70)         | 0,000        | 7,080       | Z' S1                   |
| q                                                                              | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                              | 0,00 (q71)       | 0,00 (q71)         | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                              | 0,94 (-q66)      | 0,94 (-q66)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                              | 0,71 (q72)       | 0,71 (q72)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                              | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                              | 0,98 (q73)       | 0,98 (q73)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                              | 0,98 (q73)       | 0,98 (q73)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                              | 0,94 (-q66)      | 0,94 (-q66)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                              | 0,94 (-q66)      | 0,94 (-q66)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                              | -1,62 (-q69)     | -1,62 (-q69)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                              | -0,94 (q66)      | -0,94 (q66)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                              | <b>X: -12,59</b> | <b>kN Z: 26,03</b> | <b>kN</b>    |             |                         |
| -                                                                              | -                | -                  | m            | m           | - -                     |

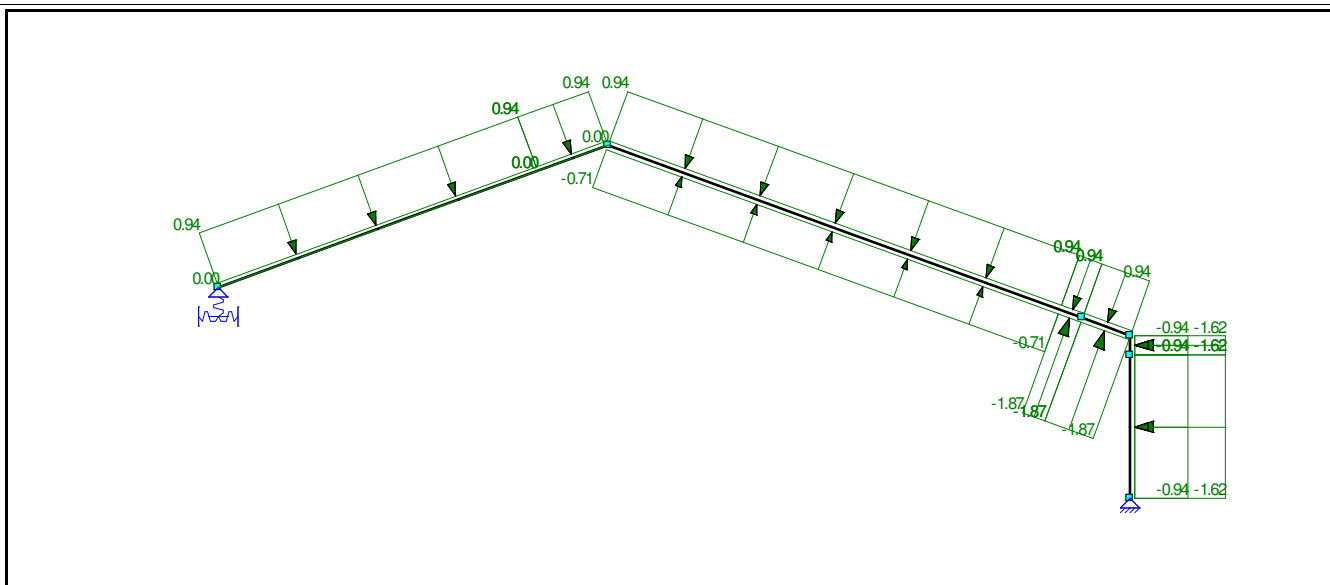
## B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



## B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

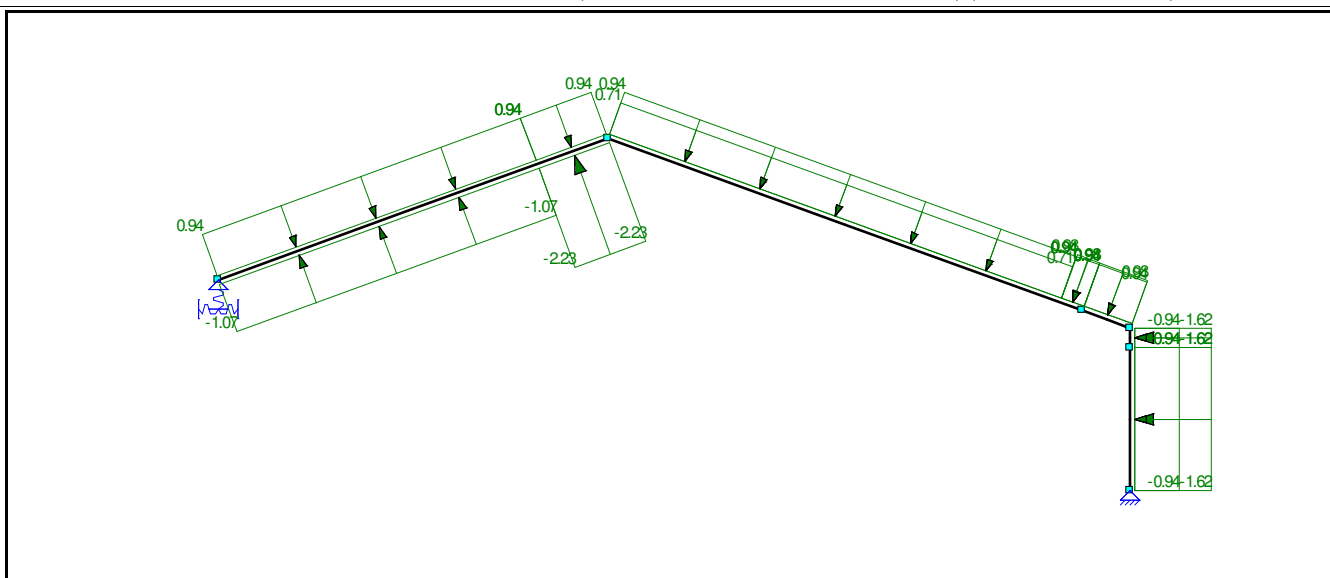
| Type                                                                                             | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.32: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |              |              |              |             |                         |
| q                                                                                                | 0,00 (q70)   | 0,00 (q70)   | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                | 0,00 (q71)   | 0,00 (q71)   | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                | -1,87 (q64)  | -1,87 (q64)  | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                | -1,87 (q64)  | -1,87 (q64)  | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,000(L)    | Z' S3-S4                |
| Som lasten                                                                                       | X: -6,21     | kN Z: 8,45   | kN           | m           | - -                     |
| -                                                                                                | -            | -            | m            | m           | - -                     |

## B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



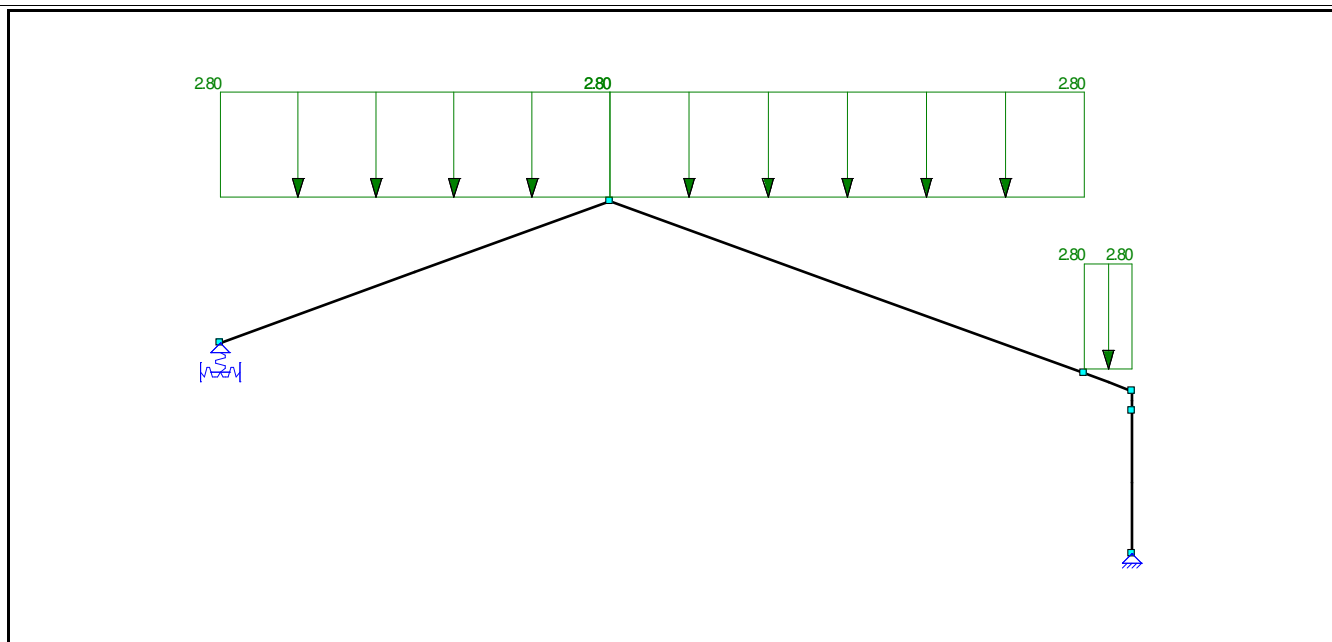
**B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)**

| Type                                                                                                    | Beginwaarde      | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------------------------|------------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.33: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                  |                    |              |             |                         |
| q                                                                                                       | -1,07 (q61)      | -1,07 (q61)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                       | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 7,080       | Z' S1                   |
| q                                                                                                       | -2,23 (q62)      | -2,23 (q62)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                       | 0,94 (-q57)      | 0,94 (-q57)        | 7,080        | 8,644(L)    | Z' S1                   |
| q                                                                                                       | 0,71 (q72)       | 0,71 (q72)         | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                       | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 10,006      | Z' S2                   |
| q                                                                                                       | 0,98 (q73)       | 0,98 (q73)         | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                       | 0,98 (q73)       | 0,98 (q73)         | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                       | 0,94 (-q57)      | 0,94 (-q57)        | 10,006       | 10,506(L)   | Z' S2                   |
| q                                                                                                       | 0,94 (-q57)      | 0,94 (-q57)        | 0,000        | 1,064(L)    | Z' S5                   |
| q                                                                                                       | -1,62 (-q60)     | -1,62 (-q60)       | 0,000        | 3,000(L)    | Z' S3-S4                |
| q                                                                                                       | -0,94 (q57)      | -0,94 (q57)        | 0,000        | 3,000(L)    | Z' S3-S4                |
| <b>Som lasten</b>                                                                                       | <b>X: -16,36</b> | <b>kN Z: 15,64</b> | <b>kN</b>    |             |                         |
| -                                                                                                       | -                | -                  | m            | m           | - -                     |

**B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)****B.G.34: SNEEUWBELASTING 1**

| Type                             | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.34: Sneeuwbelasting 1</b> |                |                    |              |             |                         |
| q                                | 2,80 (q75)     | 2,80 (q75)         | 0,000        | 8,125(L)    | Z S1-S2,S5              |
| <b>Som lasten</b>                | <b>X: 0,00</b> | <b>kN Z: 53,20</b> | <b>kN</b>    |             |                         |
| -                                | -              | -                  | m            | m           | - -                     |

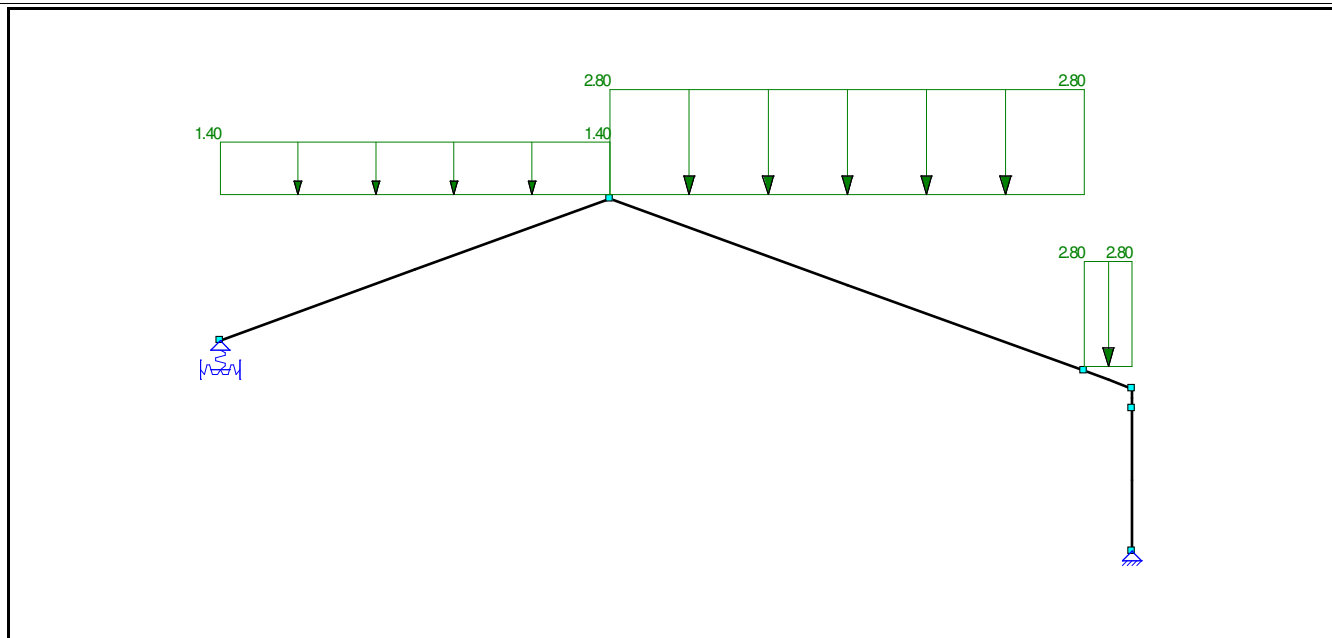
## B.G.34: SNEEUWBELASTING 1



## B.G.35: SNEEUWBELASTING 2

| Type                             | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.35: Sneeuwbelasting 2</b> |                |                    |              |             |                         |
| q                                | 1,40 (q76)     | 1,40 (q76)         | 0,000        | 8,125(L)    | Z S1                    |
| q                                | 2,80 (q75)     | 2,80 (q75)         | 0,000        | 9,875(L)    | Z S2,S5                 |
| <b>Som lasten</b>                | <b>X: 0,00</b> | <b>kN Z: 41,83</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                | -              | -                  | m            | m           | - -                     |

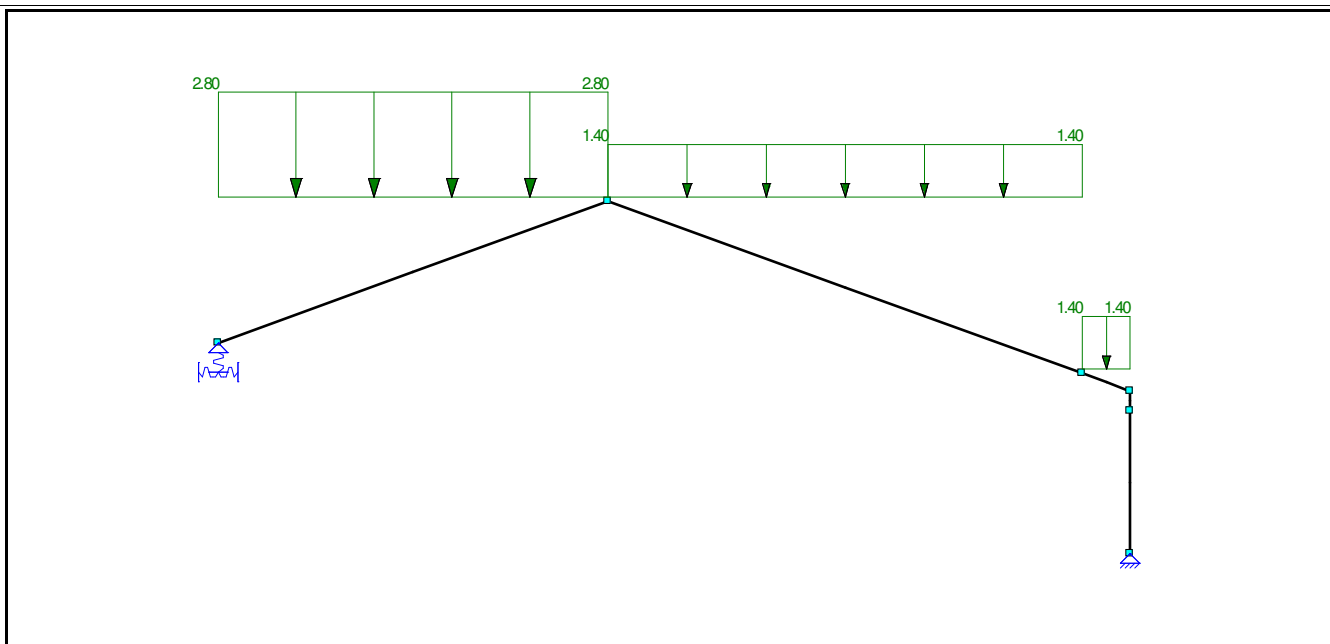
## B.G.35: SNEEUWBELASTING 2



## B.G.36: SNEEUWBELASTING 3

| Type                             | Beginwaarde    | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.36: Sneeuwbelasting 3</b> |                |                    |              |             |                         |
| q                                | 2,80 (q75)     | 2,80 (q75)         | 0,000        | 8,125(L)    | Z S1                    |
| q                                | 1,40 (q76)     | 1,40 (q76)         | 0,000        | 9,875(L)    | Z S2,S5                 |
| <b>Som lasten</b>                | <b>X: 0,00</b> | <b>kN Z: 37,98</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                | -              | -                  | m            | m           | - -                     |

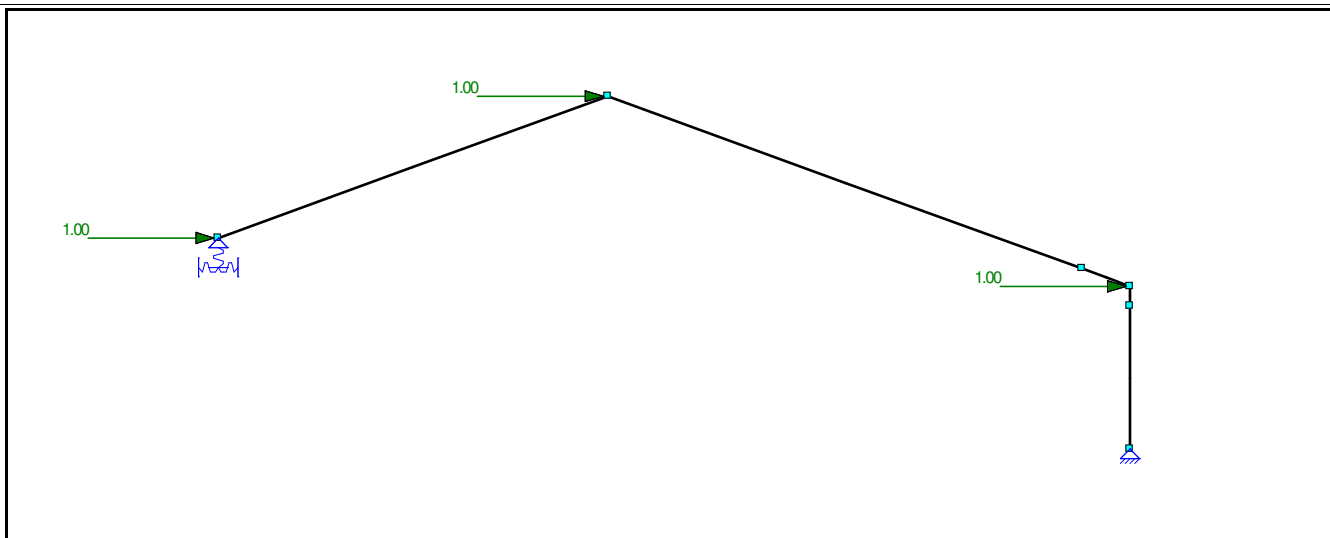
## B.G.36: SNEEUWBELASTING 3



## B.G.37: KNIKLENGTE

| Type               | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------|-------------|------------|--------------|-------------|-------------------------|
| B.G.37: Kniklengte |             |            |              |             |                         |
| N                  | 1,00        |            |              |             | X K3,K5-K6              |
| Som lasten         | X: 3,00     | kN Z: 0,00 | kN           | m           | - -                     |
| -                  | -           | -          | m            | m           | - -                     |

## B.G.37: KNIKLENGTE



## FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

| B.G.  | Omschrijving                                                         | Fu.C.1 | Fu.C.2<br>(Overslaan) | Fu.C.3 | Fu.C.4 | Fu.C.5 | Fu.C.6<br>(Overslaan) | Fu.C.7 | Fu.C.8 |
|-------|----------------------------------------------------------------------|--------|-----------------------|--------|--------|--------|-----------------------|--------|--------|
| B.G.1 | Permanente Belasting                                                 | 0.90   | 0.90                  | 0.90   | 0.90   | 0.90   | 0.90                  | 0.90   | 0.90   |
| B.G.2 | Windbelasting van Links + Overdruk                                   | 1.13   | -                     | -      | -      | -      | -                     | -      | -      |
| B.G.3 | Windbelasting van Links + Overdruk (2e Cpe)                          | -      | 1.13                  | -      | -      | -      | -                     | -      | -      |
| B.G.4 | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) | -      | -                     | 1.13   | -      | -      | -                     | -      | -      |
| B.G.5 | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) | -      | -                     | -      | 1.13   | -      | -                     | -      | -      |
| B.G.6 | Windbelasting van Links + Overdruk (2e corr. factor)                 | -      | -                     | -      | -      | 1.13   | -                     | -      | -      |
| B.G.7 | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)        | -      | -                     | -      | -      | -      | 1.13                  | -      | -      |

| Wopereis Staalbouw |  |  |  | Pos 4 - Tussenspannt |  |  |  |  |  |
|--------------------|--|--|--|----------------------|--|--|--|--|--|
|--------------------|--|--|--|----------------------|--|--|--|--|--|

|             |                                                                                          |                               |                |                                |                |                                |                                |                                |                |
|-------------|------------------------------------------------------------------------------------------|-------------------------------|----------------|--------------------------------|----------------|--------------------------------|--------------------------------|--------------------------------|----------------|
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                             | -              | -                              | -              | -                              | -                              | 1.13                           | -              |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                             | -              | -                              | -              | -                              | -                              | -                              | 1.13           |
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.18      | Windbelasting van Rechts + Overdruk                                                      | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.19      | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.20      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.21      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.22      | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.23      | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.24      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.25      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.26      | Windbelasting van Rechts + Onderdruk                                                     | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.27      | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.28      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.29      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.30      | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.31      | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.32      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.33      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.34      | Sneeuwbelasting 1                                                                        | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.35      | Sneeuwbelasting 2                                                                        | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.36      | Sneeuwbelasting 3                                                                        | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.37      | Kniklengte                                                                               | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| <b>B.G.</b> | <b>Omschrijving</b>                                                                      | <b>Fu.C.9<br/>(Overslaan)</b> | <b>Fu.C.10</b> | <b>Fu.C.11<br/>(Overslaan)</b> | <b>Fu.C.12</b> | <b>Fu.C.13<br/>(Overslaan)</b> | <b>Fu.C.14<br/>(Overslaan)</b> | <b>Fu.C.15<br/>(Overslaan)</b> | <b>Fu.C.16</b> |
| B.G.1       | Permanente Belasting                                                                     | 1.08                          | 1.08           | 1.08                           | 1.08           | 1.08                           | 1.08                           | 1.08                           | 1.08           |
| B.G.2       | Windbelasting van Links + Overdruk                                                       | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.3       | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.4       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.5       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.6       | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.7       | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                             | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | 1.13                          | -              | -                              | -              | -                              | -                              | -                              | -              |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                             | 1.13           | -                              | -              | -                              | -                              | -                              | -              |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                             | -              | 1.13                           | -              | -                              | -                              | -                              | -              |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                             | -              | -                              | 1.13           | -                              | -                              | -                              | -              |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                             | -              | -                              | -              | 1.13                           | -                              | -                              | -              |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                             | -              | -                              | -              | -                              | 1.13                           | -                              | -              |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | 1.13                           | -              |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                             | -              | -                              | -              | -                              | -                              | -                              | 1.13           |

| Wopereis Staalbouw |  | Pos 4 - Tussenspannt |
|--------------------|--|----------------------|
|--------------------|--|----------------------|

| B.G.18 | Windbelasting van Rechts + Overdruk                                                      | -       | -                      | -       | -       | -       | -                      | -       | -       |
|--------|------------------------------------------------------------------------------------------|---------|------------------------|---------|---------|---------|------------------------|---------|---------|
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                     | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.34 | Sneeuwbelasting 1                                                                        | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.35 | Sneeuwbelasting 2                                                                        | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.36 | Sneeuwbelasting 3                                                                        | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.37 | Kniklengte                                                                               | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.   | Omschrijving                                                                             | Fu.C.17 | Fu.C.18<br>(Overslaan) | Fu.C.19 | Fu.C.20 | Fu.C.21 | Fu.C.22<br>(Overslaan) | Fu.C.23 | Fu.C.24 |
| B.G.1  | Permanente Belasting                                                                     | 0.90    | 0.90                   | 0.90    | 0.90    | 0.90    | 0.90                   | 0.90    | 0.90    |
| B.G.2  | Windbelasting van Links + Overdruk                                                       | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.3  | Windbelasting van Links + Overdruk (2e Cpe)                                              | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.10 | Windbelasting van Links + Onderdruk                                                      | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.14 | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                      | 1.13    | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -       | 1.13                   | -       | -       | -       | -                      | -       | -       |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -       | -                      | 1.13    | -       | -       | -                      | -       | -       |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -       | -                      | -       | 1.13    | -       | -                      | -       | -       |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -       | -                      | -       | -       | 1.13    | -                      | -       | -       |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -       | -                      | -       | -       | -       | 1.13                   | -       | -       |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | 1.13    | -       |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -       | -                      | -       | -       | -       | -                      | -       | 1.13    |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                     | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -       | -                      | -       | -       | -       | -                      | -       | -       |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -       | -                      | -       | -       | -       | -                      | -       | -       |

| Wopereis Staalbouw |  | Pos 4 - Tussenspan |
|--------------------|--|--------------------|
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| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe)                   | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
|--------|--------------------------------------------------------------------------------------------|------------------------|---------|------------------------|------------------------|------------------------|------------------------|------------------------|---------|
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                     | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                            | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.34 | Sneeuwbelasting 1                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.35 | Sneeuwbelasting 2                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.36 | Sneeuwbelasting 3                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.37 | Kniklengte                                                                                 | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.   | Omschrijving                                                                               | Fu.C.25<br>(Overslaan) | Fu.C.26 | Fu.C.27<br>(Overslaan) | Fu.C.28                | Fu.C.29<br>(Overslaan) | Fu.C.30<br>(Overslaan) | Fu.C.31<br>(Overslaan) | Fu.C.32 |
| B.G.1  | Permanente Belasting                                                                       | 1.08                   | 1.08    | 1.08                   | 1.08                   | 1.08                   | 1.08                   | 1.08                   | 1.08    |
| B.G.2  | Windbelasting van Links + Overdruk                                                         | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.3  | Windbelasting van Links + Overdruk (2e Cpe)                                                | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.4  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                       | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.5  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                       | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.6  | Windbelasting van Links + Overdruk (2e corr. factor)                                       | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.7  | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                              | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.8  | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)     | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.9  | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)     | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.10 | Windbelasting van Links + Onderdruk                                                        | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.11 | Windbelasting van Links + Onderdruk (2e Cpe)                                               | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.12 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.13 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.14 | Windbelasting van Links + Onderdruk (2e corr. factor)                                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.15 | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                             | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.16 | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.17 | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.18 | Windbelasting van Rechts + Overdruk                                                        | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.19 | Windbelasting van Rechts + Overdruk (2e Cpe)                                               | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.20 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.21 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.22 | Windbelasting van Rechts + Overdruk (2e corr. factor)                                      | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.23 | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                             | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.24 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.25 | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.26 | Windbelasting van Rechts + Onderdruk                                                       | 1.13                   | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.27 | Windbelasting van Rechts + Onderdruk (2e Cpe)                                              | -                      | 1.13    | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.28 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                      | -       | 1.13                   | -                      | -                      | -                      | -                      | -       |
| B.G.29 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                      | -       | -                      | 1.13                   | -                      | -                      | -                      | -       |
| B.G.30 | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                     | -                      | -       | -                      | -                      | 1.13                   | -                      | -                      | -       |
| B.G.31 | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                            | -                      | -       | -                      | -                      | -                      | 1.13                   | -                      | -       |
| B.G.32 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                      | -       | -                      | -                      | -                      | -                      | 1.13                   | -       |
| B.G.33 | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                      | -       | -                      | -                      | -                      | -                      | -                      | 1.13    |
| B.G.34 | Sneeuwbelasting 1                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.35 | Sneeuwbelasting 2                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.36 | Sneeuwbelasting 3                                                                          | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.37 | Kniklengte                                                                                 | -                      | -       | -                      | -                      | -                      | -                      | -                      | -       |
| B.G.   | Omschrijving                                                                               | Fu.C.33                | Fu.C.34 | Fu.C.35                | Fu.C.36<br>(Overslaan) | Fu.C.37<br>(Overslaan) |                        |                        |         |
| B.G.1  | Permanente Belasting                                                                       | 1.08                   | 1.08    | 1.08                   | 1.22                   | 0.90                   |                        |                        |         |

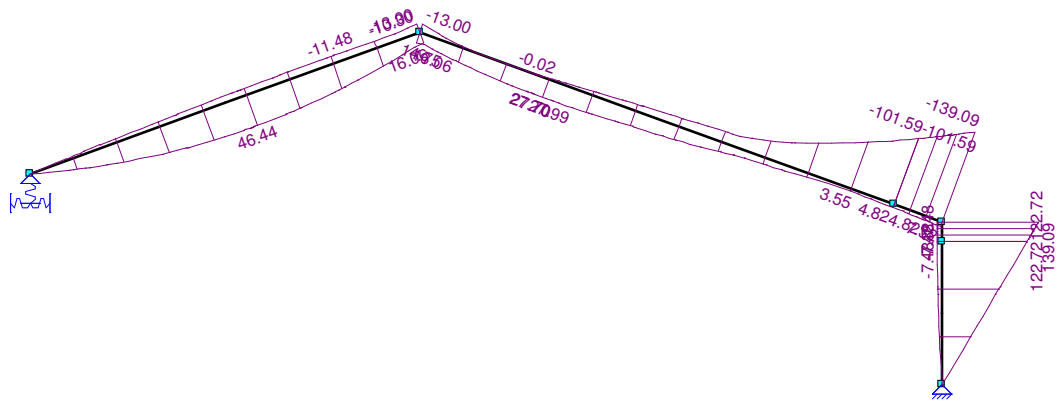
| Wopereis Staalbouw |                                                                                          | Pos 4 - Tussenspannt |      |      |   |   |
|--------------------|------------------------------------------------------------------------------------------|----------------------|------|------|---|---|
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -                    | -    | -    | - | - |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                    | -    | -    | - | - |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                    | -    | -    | - | - |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                    | -    | -    | - | - |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                    | -    | -    | - | - |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                    | -    | -    | - | - |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                    | -    | -    | - | - |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                    | -    | -    | - | - |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -                    | -    | -    | - | - |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                    | -    | -    | - | - |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                    | -    | -    | - | - |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                    | -    | -    | - | - |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                    | -    | -    | - | - |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                    | -    | -    | - | - |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                    | -    | -    | - | - |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                    | -    | -    | - | - |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -                    | -    | -    | - | - |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                    | -    | -    | - | - |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                    | -    | -    | - | - |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                    | -    | -    | - | - |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                    | -    | -    | - | - |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                    | -    | -    | - | - |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                    | -    | -    | - | - |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                    | -    | -    | - | - |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -                    | -    | -    | - | - |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                    | -    | -    | - | - |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                    | -    | -    | - | - |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                    | -    | -    | - | - |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                    | -    | -    | - | - |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                    | -    | -    | - | - |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                    | -    | -    | - | - |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                    | -    | -    | - | - |
| B.G.34             | Sneeuwbelasting 1                                                                        | 1.01                 | -    | -    | - | - |
| B.G.35             | Sneeuwbelasting 2                                                                        | -                    | 1.01 | -    | - | - |
| B.G.36             | Sneeuwbelasting 3                                                                        | -                    | -    | 1.01 | - | - |
| B.G.37             | Kniklengte                                                                               | -                    | -    | -    | - | - |

## UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

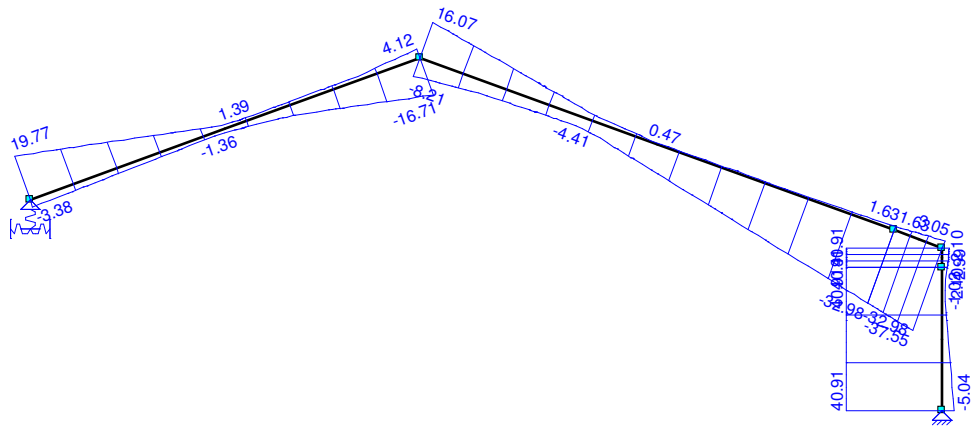
AFB. FU.C. MOMENT (MY) OMHULLENDE

## Fundamenteel Belastingscombinaties



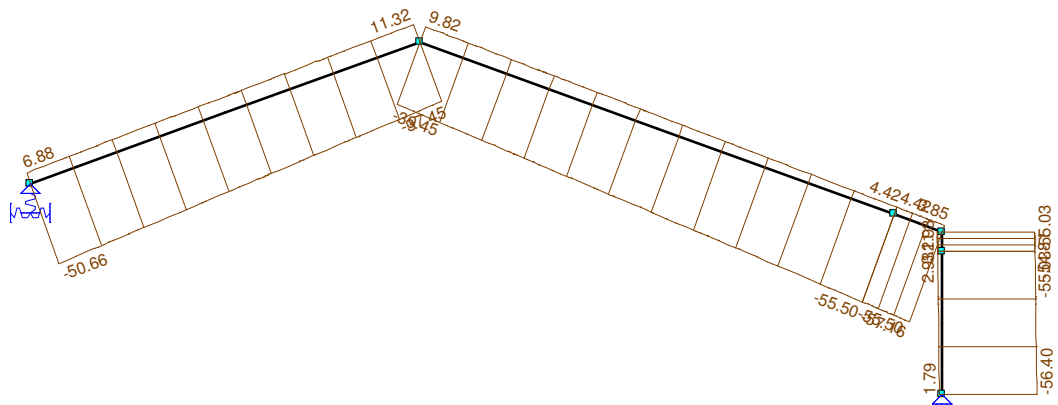
AFB. FU.C. DRWARSKRACHT (VZ) / SHEAR FORCE (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) / NORMAL FORCE (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



|                    |  |                      |
|--------------------|--|----------------------|
| Wopereis Staalbouw |  | Pos 4 - Tussenspannt |
|--------------------|--|----------------------|

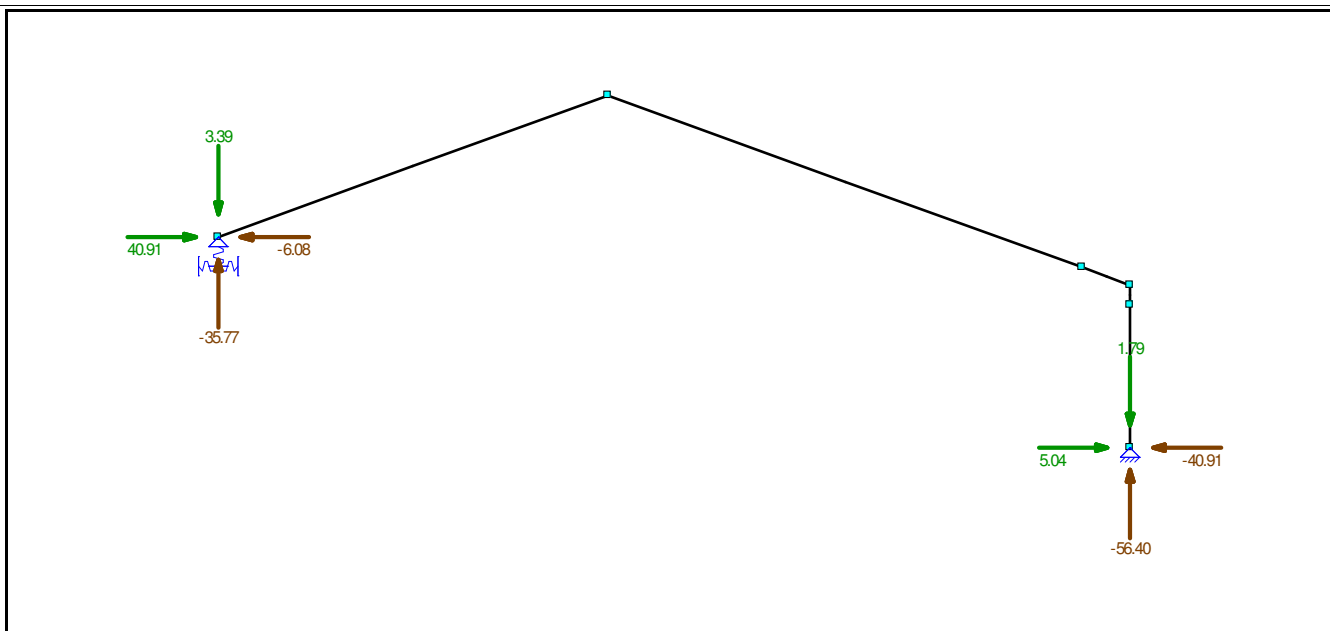
# FU.C. STAAFKRACHTEN

| Staaf | B.C.    | Mb     | Mmax   | xMmax | Me      | x-M0  | x-M0 T/D | Nmax   | Vb    | Vmax   | Ve     |
|-------|---------|--------|--------|-------|---------|-------|----------|--------|-------|--------|--------|
| S1    | Fu.C.1  | 0.00   | -0.54  | 0.878 | 9.07    | 1.781 | 0.000 T  | 10.81  | -1.23 | 1.66   | 1.66   |
|       | Fu.C.3  | 0.00   | -1.05  | 1.221 | 4.91    | 3.268 | 0.000 D  | -5.79  | -1.72 | -1.72  | 1.18   |
|       | Fu.C.4  | 0.00   | 22.72  | 5.446 | 15.01   | 0.000 | 0.000 T  | 6.66   | 8.68  | 8.68   | -4.82  |
|       | Fu.C.5  | 0.00   | -0.44  | 0.792 | 10.12   | 1.584 | 0.000 T  | 11.32  | -1.11 | 1.78   | 1.78   |
|       | Fu.C.7  | 0.00   | -0.90  | 1.134 | 5.96    | 2.736 | 0.000 D  | -5.29  | -1.59 | -1.59  | 1.30   |
|       | Fu.C.8  | 0.00   | 23.38  | 5.527 | 16.06   | 0.000 | 0.000 T  | 7.17   | 8.80  | 8.80   | -4.70  |
|       | Fu.C.10 | 0.00   | 36.99  | 4.533 | 6.87    | 0.000 | 0.000 D  | -34.17 | 16.62 | 16.62  | -14.65 |
|       | Fu.C.12 | 0.00   | 39.20  | 4.668 | 11.03   | 0.000 | 0.000 D  | -22.01 | 17.11 | 17.11  | -14.17 |
|       | Fu.C.16 | 0.00   | 39.77  | 4.702 | 12.08   | 0.000 | 0.000 D  | -21.50 | 17.23 | 17.23  | -14.05 |
|       | Fu.C.17 | 0.00   | -5.60  | 4.738 | -0.19   | 0.000 | 0.000 T  | 4.86   | -2.36 | 4.00   | 4.00   |
|       | Fu.C.19 | 0.00   | 10.39  | 5.426 | 6.74    | 0.000 | 0.000 D  | -3.48  | 3.83  | 3.83   | -2.27  |
|       | Fu.C.20 | 0.00   | -11.48 | 6.786 | -9.02   | 0.000 | 0.000 D  | -13.76 | -3.38 | -3.38  | 2.98   |
|       | Fu.C.21 | 0.00   | -5.04  | 4.495 | 0.86    | 8.425 | 0.000 T  | 5.37   | -2.24 | 4.12   | 4.12   |
|       | Fu.C.23 | 0.00   | 11.06  | 5.598 | 7.79    | 0.000 | 0.000 D  | -2.97  | 3.95  | 3.95   | -2.15  |
|       | Fu.C.24 | 0.00   | -10.68 | 6.542 | -7.97   | 0.000 | 0.000 D  | -13.25 | -3.26 | -3.26  | 3.10   |
|       | Fu.C.26 | 0.00   | 22.86  | 4.068 | -6.07   | 8.136 | 0.000 D  | -41.89 | 11.24 | -12.64 | -12.64 |
|       | Fu.C.28 | 0.00   | 8.17   | 3.238 | -13.00  | 6.476 | 0.000 D  | -37.99 | 5.05  | -6.37  | -6.37  |
|       | Fu.C.32 | 0.00   | 8.57   | 3.316 | -11.95  | 6.632 | 0.000 D  | -37.49 | 5.17  | -6.25  | -6.25  |
|       | Fu.C.33 | 0.00   | 45.92  | 4.672 | 12.74   | 0.000 | 0.000 D  | -50.66 | 19.66 | 19.66  | -16.71 |
|       | Fu.C.34 | 0.00   | 31.73  | 4.635 | 8.00    | 0.000 | 0.000 D  | -43.63 | 13.69 | 13.69  | -11.84 |
|       | Fu.C.35 | 0.00   | 46.44  | 4.698 | 13.69   | 0.000 | 0.000 D  | -42.59 | 19.77 | 19.77  | -16.60 |
| S2    | Fu.C.1  | 9.07   | -5.64  | 7.250 | -2.99   | 2.495 | 0.000 T  | 9.36   | -5.66 | -5.66  | 1.62   |
|       | Fu.C.3  | 4.91   | 7.13   | 2.508 | -15.45  | 7.003 | 0.000 D  | -5.68  | 1.77  | -5.65  | -5.65  |
|       | Fu.C.4  | 15.01  |        |       | -21.31  | 2.533 | 0.000 D  | -3.38  | -7.97 | -7.97  | -0.68  |
|       | Fu.C.5  | 10.12  | -6.32  | 7.715 | -4.38   | 2.679 | 0.000 T  | 9.82   | -5.90 | -5.90  | 1.39   |
|       | Fu.C.7  | 5.96   | 7.64   | 2.180 | -16.84  | 6.831 | 0.000 D  | -5.21  | 1.54  | -5.88  | -5.88  |
|       | Fu.C.8  | 16.06  |        |       | -22.70  | 2.628 | 0.000 D  | -2.91  | -8.21 | -8.21  | -0.92  |
|       | Fu.C.10 | 6.87   | 16.42  | 2.629 | -69.29  | 6.077 | 0.000 D  | -38.00 | 7.26  | -21.76 | -21.76 |
|       | Fu.C.12 | 11.03  |        |       | -56.84  | 4.887 | 0.000 D  | -28.37 | -0.17 | -14.49 | -14.49 |
|       | Fu.C.16 | 12.08  |        |       | -58.23  | 4.873 | 0.000 D  | -27.90 | -0.40 | -14.72 | -14.72 |
|       | Fu.C.17 | -0.19  | -0.21  | 0.551 | 4.82    | 2.609 | 0.000 T  | 6.29   | -0.05 | 1.63   | 1.63   |
|       | Fu.C.19 | 6.74   |        |       | -12.47  | 3.048 | 0.000 D  | -6.12  | -2.36 | -2.36  | -0.68  |
|       | Fu.C.20 | -9.02  | 13.63  | 5.481 | -5.44   | 1.229 | 9.733 D  | -10.64 | 8.26  | 8.26   | -7.73  |
|       | Fu.C.21 | 0.86   | 0.44   | 2.916 | 3.43    | 0.000 | 0.000 T  | 6.76   | -0.29 | 1.40   | 1.40   |
|       | Fu.C.23 | 7.79   |        |       | -13.86  | 3.198 | 0.000 D  | -5.65  | -2.59 | -2.59  | -0.91  |
|       | Fu.C.24 | -7.97  | 13.42  | 5.327 | -6.83   | 1.108 | 9.547 D  | -10.17 | 8.03  | 8.03   | -7.96  |
|       | Fu.C.26 | -6.07  | 20.49  | 3.860 | -58.27  | 0.470 | 7.251 D  | -42.64 | 13.76 | -23.84 | -23.84 |
|       | Fu.C.28 | -13.00 | 23.21  | 4.507 | -40.97  | 0.899 | 8.116 D  | -35.62 | 16.07 | -21.53 | -21.53 |
|       | Fu.C.32 | -11.95 | 23.22  | 4.442 | -42.36  | 0.833 | 8.051 D  | -35.16 | 15.83 | -21.77 | -21.77 |
|       | Fu.C.33 | 12.74  | 27.70  | 2.666 | -101.59 | 6.295 | 0.000 D  | -55.50 | 11.22 | -32.98 | -32.98 |
|       | Fu.C.34 | 8.00   | 27.99  | 3.083 | -87.92  | 6.731 | 0.000 D  | -50.01 | 12.97 | -31.23 | -31.23 |
|       | Fu.C.35 | 13.69  | 20.04  | 2.073 | -84.97  | 5.757 | 0.000 D  | -44.46 | 6.12  | -24.91 | -24.91 |
| S3    | Fu.C.1  | 0.00   | 2.88   | 1.882 | 1.87    | 0.000 | 0.000 T  | 2.93   | 3.06  | 3.06   | -1.82  |
|       | Fu.C.3  | 0.00   |        |       | 20.28   | 0.000 | 0.000 D  | -9.54  | 9.20  | 9.20   | 4.32   |
|       | Fu.C.4  | 0.00   |        |       | 20.19   | 0.000 | 0.000 D  | -2.89  | 9.17  | 9.17   | 4.29   |
|       | Fu.C.5  | 0.00   | 4.66   | 2.051 | 3.66    | 0.000 | 0.000 T  | 2.87   | 4.54  | 4.54   | -2.10  |
|       | Fu.C.7  | 0.00   |        |       | 22.08   | 0.000 | 0.000 D  | -9.60  | 10.68 | 10.68  | 4.04   |
|       | Fu.C.8  | 0.00   |        |       | 21.99   | 0.000 | 0.000 D  | -2.95  | 10.65 | 10.65  | 4.01   |
|       | Fu.C.10 | 0.00   |        |       | 82.89   | 0.000 | 0.000 D  | -38.10 | 27.41 | 27.85  | 27.85  |
|       | Fu.C.12 | 0.00   |        |       | 64.48   | 0.000 | 0.000 D  | -26.77 | 21.28 | 21.71  | 21.71  |
|       | Fu.C.16 | 0.00   |        |       | 66.27   | 0.000 | 0.000 D  | -26.83 | 22.75 | 22.75  | 21.43  |
|       | Fu.C.17 | 0.00   | -7.48  | 2.966 | -7.48   | 0.000 | 0.000 T  | 2.79   | -5.04 | -5.04  | 0.06   |
|       | Fu.C.19 | 0.00   |        |       | 9.94    | 0.000 | 0.000 D  | -2.91  | 0.76  | 5.87   | 5.87   |
|       | Fu.C.20 | 0.00   |        |       | 11.96   | 0.000 | 0.000 D  | -14.29 | 1.44  | 6.54   | 6.54   |
|       | Fu.C.21 | 0.00   |        |       | -5.68   | 0.000 | 0.000 T  | 2.74   | -3.57 | -3.57  | -0.22  |
|       | Fu.C.23 | 0.00   |        |       | 11.74   | 0.000 | 0.000 D  | -2.97  | 2.24  | 5.58   | 5.58   |
|       | Fu.C.24 | 0.00   |        |       | 13.76   | 0.000 | 0.000 D  | -14.35 | 2.91  | 6.26   | 6.26   |
|       | Fu.C.26 | 0.00   |        |       | 73.66   | 0.000 | 0.000 D  | -42.74 | 19.34 | 29.76  | 29.76  |
|       | Fu.C.28 | 0.00   |        |       | 56.24   | 0.000 | 0.000 D  | -38.18 | 13.54 | 23.96  | 23.96  |
|       | Fu.C.32 | 0.00   |        |       | 58.04   | 0.000 | 0.000 D  | -38.23 | 15.02 | 23.67  | 23.67  |
|       | Fu.C.33 | 0.00   |        |       | 122.72  | 0.000 | 0.000 D  | -56.40 | 40.91 | 40.91  | 40.91  |
|       | Fu.C.34 | 0.00   |        |       | 109.03  | 0.000 | 0.000 D  | -52.87 | 36.34 | 36.34  | 36.34  |
|       | Fu.C.35 | 0.00   |        |       | 99.86   | 0.000 | 0.000 D  | -43.62 | 33.29 | 33.29  | 33.29  |
| S4    | Fu.C.1  | 1.87   |        |       | 1.01    | 0.000 | 0.000 T  | 3.11   | -1.82 | -2.47  | -2.47  |
|       | Fu.C.3  | 20.28  |        |       | 21.88   | 0.000 | 0.000 D  | -8.40  | 4.32  | 4.32   | 3.67   |

| Wopereis Staalbouw |         |         |        |       |         |       | Pos 4 - Tussenspan |        |        |        |        |
|--------------------|---------|---------|--------|-------|---------|-------|--------------------|--------|--------|--------|--------|
| Staat              | B.C.    | Mb      | Mmax   | xMmax | Me      | x-M0  | x-M0 T/D           | Nmax   | Vb     | Vmax   | Ve     |
| S4                 | Fu.C.4  | 20.19   |        |       | 21.78   | 0.000 | 0.000 D            | -1.75  | 4.29   | 4.29   | 3.64   |
|                    | Fu.C.5  | 3.66    |        |       | 2.64    | 0.000 | 0.000 T            | 3.05   | -2.10  | -2.99  | -2.99  |
|                    | Fu.C.7  | 22.08   |        |       | 23.51   | 0.000 | 0.000 D            | -8.46  | 4.04   | 4.04   | 3.15   |
|                    | Fu.C.8  | 21.99   |        |       | 23.42   | 0.000 | 0.000 D            | -1.81  | 4.01   | 4.01   | 3.12   |
|                    | Fu.C.10 | 82.89   |        |       | 94.04   | 0.000 | 0.000 D            | -36.73 | 27.85  | 27.91  | 27.91  |
|                    | Fu.C.12 | 64.48   |        |       | 73.17   | 0.000 | 0.000 D            | -25.40 | 21.71  | 21.77  | 21.77  |
|                    | Fu.C.16 | 66.27   |        |       | 74.81   | 0.000 | 0.000 D            | -25.46 | 21.43  | 21.43  | 21.25  |
|                    | Fu.C.17 | -7.48   |        |       | -7.32   | 0.000 | 0.000 T            | 2.98   | 0.06   | 0.74   | 0.74   |
|                    | Fu.C.19 | 9.94    |        |       | 12.42   | 0.000 | 0.000 D            | -1.77  | 5.87   | 6.55   | 6.55   |
|                    | Fu.C.20 | 11.96   |        |       | 14.71   | 0.000 | 0.000 D            | -13.15 | 6.54   | 7.22   | 7.22   |
|                    | Fu.C.21 | -5.68   | -5.71  | 0.200 | -5.69   | 0.000 | 0.000 T            | 2.92   | -0.22  | -0.22  | 0.22   |
|                    | Fu.C.23 | 11.74   |        |       | 14.06   | 0.000 | 0.000 D            | -1.83  | 5.58   | 6.03   | 6.03   |
|                    | Fu.C.24 | 13.76   |        |       | 16.35   | 0.000 | 0.000 D            | -13.21 | 6.26   | 6.70   | 6.70   |
|                    | Fu.C.26 | 73.66   |        |       | 85.85   | 0.000 | 0.000 D            | -41.37 | 29.76  | 31.15  | 31.15  |
|                    | Fu.C.28 | 56.24   |        |       | 66.10   | 0.000 | 0.000 D            | -36.80 | 23.96  | 25.35  | 25.35  |
|                    | Fu.C.32 | 58.04   |        |       | 67.74   | 0.000 | 0.000 D            | -36.86 | 23.67  | 24.83  | 24.83  |
|                    | Fu.C.33 | 122.72  |        |       | 139.09  | 0.000 | 0.000 D            | -55.03 | 40.91  | 40.91  | 40.91  |
|                    | Fu.C.34 | 109.03  |        |       | 123.56  | 0.000 | 0.000 D            | -51.50 | 36.34  | 36.34  | 36.34  |
|                    | Fu.C.35 | 99.86   |        |       | 113.17  | 0.000 | 0.000 D            | -42.25 | 33.29  | 33.29  | 33.29  |
| S5                 | Fu.C.1  | -2.99   |        |       | -1.01   | 0.000 | 0.000 T            | 3.96   | 1.62   | 2.08   | 2.08   |
|                    | Fu.C.3  | -15.45  |        |       | -21.88  | 0.000 | 0.000 D            | -6.25  | -5.65  | -6.47  | -6.47  |
|                    | Fu.C.4  | -21.31  |        |       | -21.78  | 0.000 | 0.000 D            | -3.95  | -0.68  | -0.68  | -0.23  |
|                    | Fu.C.5  | -4.38   |        |       | -2.64   | 0.000 | 0.000 T            | 4.42   | 1.39   | 1.85   | 1.85   |
|                    | Fu.C.7  | -16.84  |        |       | -23.51  | 0.000 | 0.000 D            | -5.79  | -5.88  | -6.70  | -6.70  |
|                    | Fu.C.8  | -22.70  |        |       | -23.42  | 0.000 | 0.000 D            | -3.49  | -0.92  | -0.92  | -0.46  |
|                    | Fu.C.10 | -69.29  |        |       | -94.04  | 0.000 | 0.000 D            | -38.69 | -21.76 | -24.79 | -24.79 |
|                    | Fu.C.12 | -56.84  |        |       | -73.17  | 0.000 | 0.000 D            | -29.06 | -14.49 | -16.24 | -16.24 |
|                    | Fu.C.16 | -58.23  |        |       | -74.81  | 0.000 | 0.000 D            | -28.59 | -14.72 | -16.47 | -16.47 |
|                    | Fu.C.17 | 4.82    |        |       | 7.32    | 0.000 | 0.000 T            | 0.90   | 1.63   | 3.05   | 3.05   |
|                    | Fu.C.19 | -12.47  | -12.64 | 0.492 | -12.42  | 0.000 | 0.000 D            | -6.69  | -0.68  | 0.74   | 0.74   |
|                    | Fu.C.20 | -5.44   |        |       | -14.71  | 0.000 | 0.000 D            | -11.21 | -7.73  | -9.72  | -9.72  |
|                    | Fu.C.21 | 3.43    |        |       | 5.69    | 0.000 | 0.000 T            | 1.36   | 1.40   | 2.82   | 2.82   |
|                    | Fu.C.23 | -13.86  | -14.16 | 0.666 | -14.06  | 0.000 | 0.000 D            | -6.23  | -0.91  | -0.91  | 0.51   |
|                    | Fu.C.24 | -6.83   |        |       | -16.35  | 0.000 | 0.000 D            | -10.75 | -7.96  | -9.95  | -9.95  |
|                    | Fu.C.26 | -58.27  |        |       | -85.85  | 0.000 | 0.000 D            | -43.33 | -23.84 | -28.04 | -28.04 |
|                    | Fu.C.28 | -40.97  |        |       | -66.10  | 0.000 | 0.000 D            | -36.31 | -21.53 | -25.73 | -25.73 |
|                    | Fu.C.32 | -42.36  |        |       | -67.74  | 0.000 | 0.000 D            | -35.85 | -21.77 | -25.97 | -25.97 |
|                    | Fu.C.33 | -101.59 |        |       | -139.09 | 0.000 | 0.000 D            | -57.16 | -32.98 | -37.55 | -37.55 |
|                    | Fu.C.34 | -87.92  |        |       | -123.56 | 0.000 | 0.000 D            | -51.67 | -31.23 | -35.80 | -35.80 |
|                    | Fu.C.35 | -84.97  |        |       | -113.17 | 0.000 | 0.000 D            | -45.63 | -24.91 | -28.14 | -28.14 |
| -                  | -       | kNm     | kNm    | m     | kNm     | m     | m -                | kN     | kN     | kN     | kN     |

AFB. FU.C. OPLEGREACTIES / SUPPORT REACTIONS OMHULLENDE

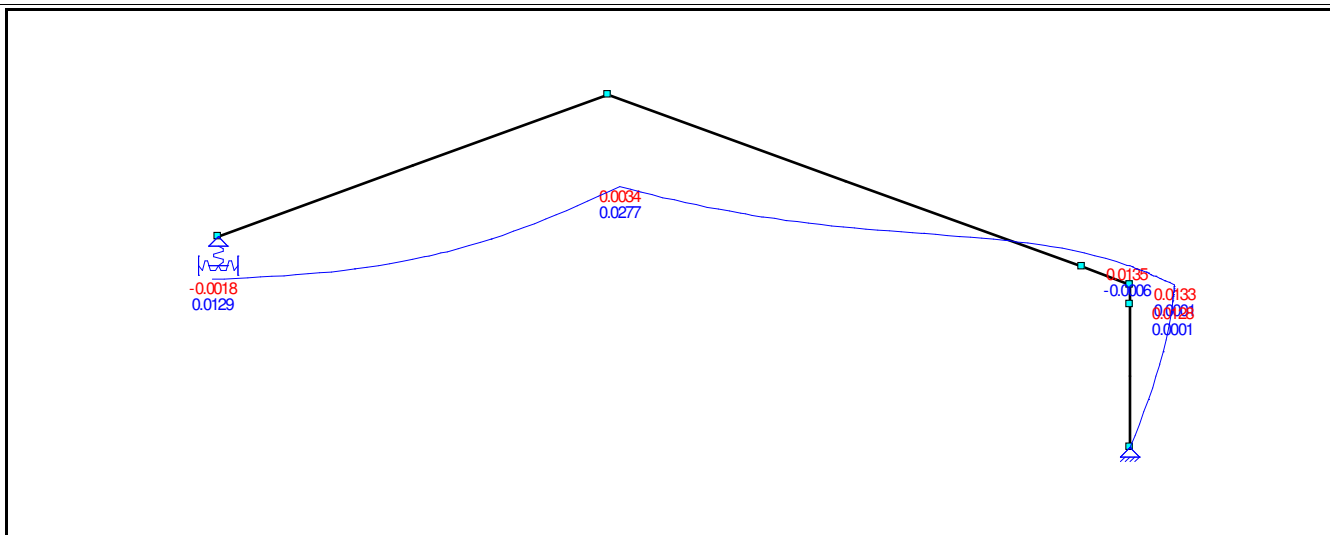
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES**

| Oplegging               | Knoop | B.C.    | Xmax   | Z      | My B.C.     | X      | Zmax   | My B.C. | X   | Z  | Mymax |     |
|-------------------------|-------|---------|--------|--------|-------------|--------|--------|---------|-----|----|-------|-----|
| O1                      | K1    | Fu.C.17 | 5.04   | 1.65   | 0.00Fu.C.1  | -3.06  | 1.79   | 0.00    |     |    |       |     |
| O1                      | K1    | Fu.C.33 | -40.91 | -56.40 | 0.00Fu.C.33 | -40.91 | -56.40 | 0.00    |     |    |       |     |
| O2                      | K5    | Fu.C.33 | 40.91  | -35.77 | 0.00Fu.C.5  | -6.08  | 3.39   | 0.00    |     |    |       |     |
| O2                      | K5    | Fu.C.5  | -6.08  | 3.39   | 0.00Fu.C.33 | 40.91  | -35.77 | 0.00    |     |    |       |     |
| Globale extreme waarden |       |         |        |        |             |        |        |         |     |    |       |     |
| O2                      | K5    | Fu.C.33 | 40.91  | -35.77 | 0.00        |        |        |         |     |    |       |     |
| O1                      | K1    | Fu.C.33 | -40.91 | -56.40 | 0.00        |        |        |         |     |    |       |     |
| O2                      | K5    |         |        |        | Fu.C.5      | -6.08  | 3.39   | 0.00    |     |    |       |     |
| O1                      | K1    |         |        |        | Fu.C.33     | -40.91 | -56.40 | 0.00    |     |    |       |     |
| -                       | -     | -       | kN     | kN     | kNm         | -      | kN     | kN      | kNm | kN | kN    | kNm |

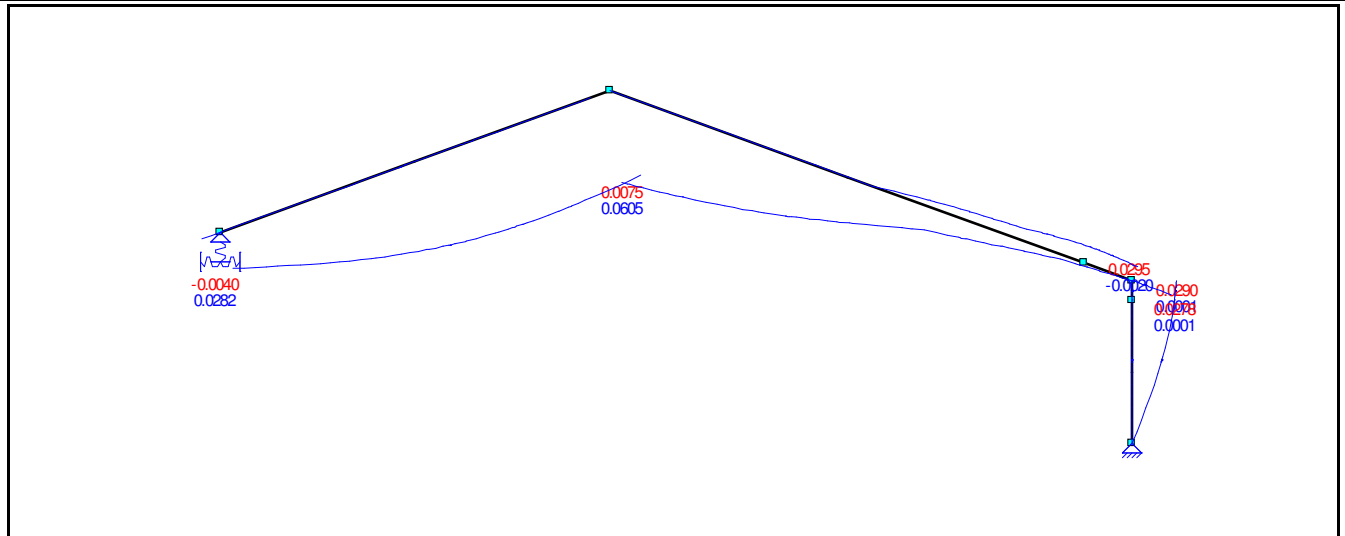
AFB. KA.C.(W1) VERPLAATSINGEN / DISPLACEMENTS

Ka.C.(w1) Belastingscombinaties



AFB. KA.C. VERPLAATSINGEN / DISPLACEMENTS OMHULLENDE

Karakteristiek Belastingscombinaties



## KA.C. KNOOPVERPLAATSINGEN

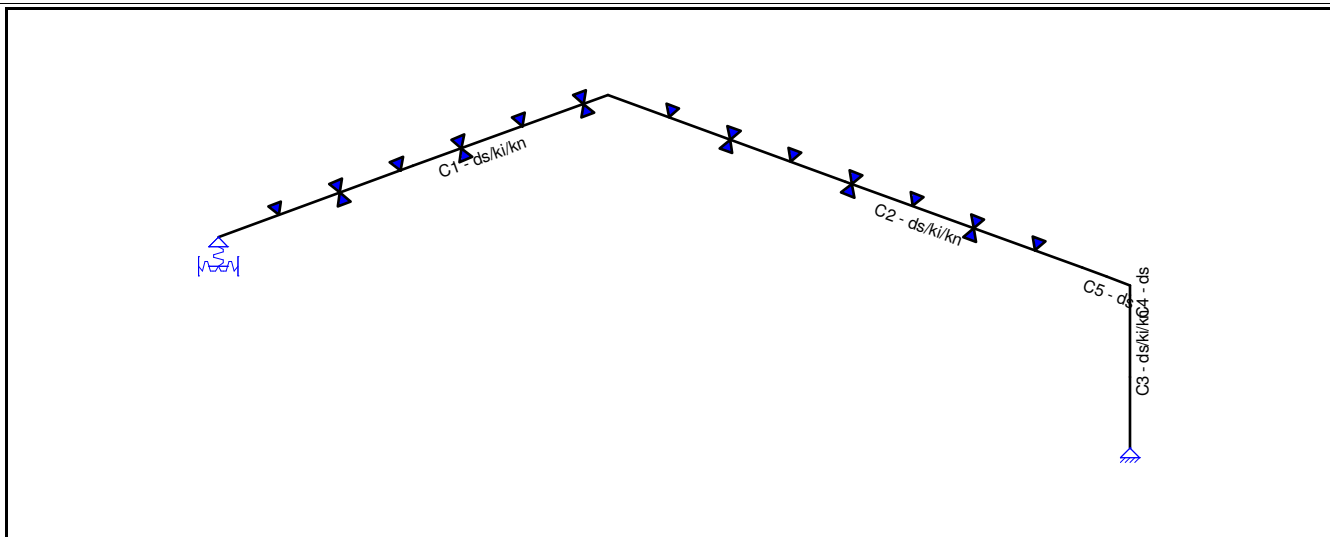
| Knoop | B.C.      | X      | Z       | Yr          |
|-------|-----------|--------|---------|-------------|
| K1    | Ka.C.(w1) | 0.0000 | 0.0000  | -5.560e-03  |
|       | Ka.C.2    | 0.0000 | 0.0000  | -2.829e-03  |
|       | Ka.C.5    | 0.0000 | 0.0000  | -5.344e-03  |
|       | Ka.C.6    | 0.0000 | 0.0000  | -3.088e-03  |
|       | Ka.C.9    | 0.0000 | 0.0000  | -5.603e-03  |
|       | Ka.C.11   | 0.0000 | 0.0000  | -8.728e-03  |
|       | Ka.C.13   | 0.0000 | 0.0000  | -7.901e-03  |
|       | Ka.C.17   | 0.0000 | 0.0000  | -8.161e-03  |
|       | Ka.C.18   | 0.0000 | 0.0000  | -0.956e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000  | -1.355e-03  |
|       | Ka.C.22   | 0.0000 | 0.0000  | -1.215e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000  | -1.614e-03  |
|       | Ka.C.27   | 0.0000 | 0.0000  | -6.292e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000  | -3.913e-03  |
|       | Ka.C.31   | 0.0000 | 0.0000  | -6.551e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000  | -4.172e-03  |
|       | Ka.C.34   | 0.0000 | 0.0000  | -12.129e-03 |
|       | Ka.C.35   | 0.0000 | 0.0000  | -10.301e-03 |
|       | Ka.C.36   | 0.0000 | 0.0000  | -10.673e-03 |
| K3    | Ka.C.(w1) | 0.0133 | 0.0001  | -1.126e-03  |
|       | Ka.C.2    | 0.0073 | 0.0000  | -1.066e-03  |
|       | Ka.C.5    | 0.0142 | 0.0000  | -2.268e-03  |
|       | Ka.C.6    | 0.0079 | 0.0000  | -1.142e-03  |
|       | Ka.C.9    | 0.0148 | 0.0000  | -2.344e-03  |
|       | Ka.C.11   | 0.0211 | 0.0001  | -1.923e-03  |
|       | Ka.C.13   | 0.0199 | 0.0001  | -2.415e-03  |
|       | Ka.C.17   | 0.0205 | 0.0001  | -2.491e-03  |
|       | Ka.C.18   | 0.0024 | 0.0000  | -0.172e-03  |
|       | Ka.C.21   | 0.0020 | 0.0001  | 0.821e-03   |
|       | Ka.C.22   | 0.0030 | 0.0000  | -0.248e-03  |
|       | Ka.C.25   | 0.0026 | 0.0001  | 0.745e-03   |
|       | Ka.C.27   | 0.0142 | 0.0001  | -0.458e-03  |
|       | Ka.C.29   | 0.0077 | 0.0001  | 0.674e-03   |
|       | Ka.C.31   | 0.0148 | 0.0001  | -0.534e-03  |
|       | Ka.C.33   | 0.0083 | 0.0001  | 0.598e-03   |
| K4    | Ka.C.34   | 0.0290 | 0.0001  | -2.458e-03  |
|       | Ka.C.35   | 0.0240 | 0.0001  | -1.611e-03  |
|       | Ka.C.36   | 0.0261 | 0.0001  | -2.640e-03  |
|       | Ka.C.(w1) | 0.0135 | -0.0006 | 0.093e-03   |
|       | Ka.C.2    | 0.0076 | -0.0009 | -0.611e-03  |
|       | Ka.C.5    | 0.0149 | -0.0019 | -1.409e-03  |
|       | Ka.C.6    | 0.0082 | -0.0009 | -0.656e-03  |
|       | Ka.C.9    | 0.0155 | -0.0020 | -1.454e-03  |
|       | Ka.C.11   | 0.0215 | -0.0011 | -0.039e-03  |
|       | Ka.C.13   | 0.0206 | -0.0017 | -0.855e-03  |
|       | Ka.C.17   | 0.0212 | -0.0018 | -0.900e-03  |

| Knoop | B.C.      | X       | Z       | Yr          |
|-------|-----------|---------|---------|-------------|
| K4    | Ka.C.18   | 0.0024  | 0.0000  | 0.116e-03   |
|       | Ka.C.21   | 0.0016  | 0.0011  | 1.409e-03   |
|       | Ka.C.22   | 0.0030  | -0.0001 | 0.071e-03   |
|       | Ka.C.25   | 0.0022  | 0.0011  | 1.364e-03   |
|       | Ka.C.27   | 0.0142  | 0.0003  | 1.214e-03   |
|       | Ka.C.29   | 0.0073  | 0.0013  | 1.963e-03   |
|       | Ka.C.31   | 0.0148  | 0.0002  | 1.169e-03   |
|       | Ka.C.33   | 0.0079  | 0.0012  | 1.918e-03   |
|       | Ka.C.34   | 0.0295  | -0.0013 | 0.200e-03   |
|       | Ka.C.35   | 0.0243  | -0.0006 | 0.746e-03   |
| K5    | Ka.C.36   | 0.0268  | -0.0017 | -0.399e-03  |
|       | Ka.C.(w1) | -0.0018 | 0.0129  | -4.621e-03  |
|       | Ka.C.2    | -0.0001 | 0.0019  | -2.351e-03  |
|       | Ka.C.5    | -0.0002 | 0.0096  | -5.450e-03  |
|       | Ka.C.6    | -0.0001 | 0.0019  | -2.513e-03  |
|       | Ka.C.9    | -0.0001 | 0.0096  | -5.611e-03  |
|       | Ka.C.11   | -0.0027 | 0.0221  | -7.816e-03  |
|       | Ka.C.13   | -0.0017 | 0.0195  | -7.841e-03  |
|       | Ka.C.17   | -0.0016 | 0.0194  | -8.002e-03  |
|       | Ka.C.18   | -0.0006 | 0.0026  | -0.620e-03  |
| K6    | Ka.C.21   | -0.0019 | 0.0054  | -0.077e-03  |
|       | Ka.C.22   | -0.0006 | 0.0026  | -0.781e-03  |
|       | Ka.C.25   | -0.0018 | 0.0053  | -0.238e-03  |
|       | Ka.C.27   | -0.0035 | 0.0204  | -5.178e-03  |
|       | Ka.C.29   | -0.0034 | 0.0152  | -2.468e-03  |
|       | Ka.C.31   | -0.0035 | 0.0203  | -5.340e-03  |
|       | Ka.C.33   | -0.0033 | 0.0152  | -2.629e-03  |
|       | Ka.C.34   | -0.0040 | 0.0282  | -10.083e-03 |
|       | Ka.C.35   | -0.0036 | 0.0224  | -7.799e-03  |
|       | Ka.C.36   | -0.0033 | 0.0263  | -9.635e-03  |
| K2    | Ka.C.(w1) | 0.0034  | 0.0277  | 1.372e-03   |
|       | Ka.C.2    | 0.0032  | 0.0112  | 0.822e-03   |
|       | Ka.C.5    | 0.0053  | 0.0247  | 2.770e-03   |
|       | Ka.C.6    | 0.0036  | 0.0119  | 0.852e-03   |
|       | Ka.C.9    | 0.0056  | 0.0254  | 2.800e-03   |
|       | Ka.C.11   | 0.0052  | 0.0446  | 2.787e-03   |
|       | Ka.C.13   | 0.0057  | 0.0400  | 3.521e-03   |
|       | Ka.C.17   | 0.0060  | 0.0408  | 3.551e-03   |
|       | Ka.C.18   | 0.0004  | 0.0055  | -0.047e-03  |
|       | Ka.C.21   | -0.0009 | 0.0083  | -1.115e-03  |
| K2    | Ka.C.22   | 0.0007  | 0.0063  | -0.017e-03  |
|       | Ka.C.25   | -0.0006 | 0.0091  | -1.085e-03  |
|       | Ka.C.27   | 0.0017  | 0.0355  | 1.185e-03   |
|       | Ka.C.29   | -0.0006 | 0.0237  | -0.364e-03  |
|       | Ka.C.31   | 0.0021  | 0.0362  | 1.215e-03   |
|       | Ka.C.33   | -0.0002 | 0.0244  | -0.334e-03  |
|       | Ka.C.34   | 0.0075  | 0.0605  | 2.994e-03   |
|       | Ka.C.35   | 0.0062  | 0.0501  | 1.563e-03   |
|       | Ka.C.36   | 0.0067  | 0.0545  | 3.614e-03   |
|       | Ka.C.(w1) | 0.0128  | 0.0001  | -1.640e-03  |
| K2    | Ka.C.2    | 0.0068  | 0.0000  | -1.249e-03  |
|       | Ka.C.5    | 0.0132  | 0.0000  | -2.604e-03  |
|       | Ka.C.6    | 0.0074  | 0.0000  | -1.339e-03  |
|       | Ka.C.9    | 0.0138  | 0.0000  | -2.693e-03  |
|       | Ka.C.11   | 0.0202  | 0.0001  | -2.713e-03  |
|       | Ka.C.13   | 0.0189  | 0.0001  | -3.053e-03  |
|       | Ka.C.17   | 0.0194  | 0.0001  | -3.142e-03  |
|       | Ka.C.18   | 0.0023  | 0.0000  | -0.284e-03  |
|       | Ka.C.21   | 0.0022  | 0.0000  | 0.548e-03   |
|       | Ka.C.22   | 0.0029  | 0.0000  | -0.374e-03  |
| K2    | Ka.C.25   | 0.0028  | 0.0000  | 0.458e-03   |
|       | Ka.C.27   | 0.0139  | 0.0001  | -1.178e-03  |
|       | Ka.C.29   | 0.0079  | 0.0001  | 0.099e-03   |
|       | Ka.C.31   | 0.0145  | 0.0001  | -1.267e-03  |
|       | Ka.C.33   | 0.0085  | 0.0001  | 0.009e-03   |
|       | Ka.C.34   | 0.0278  | 0.0001  | -3.578e-03  |
|       | Ka.C.35   | 0.0232  | 0.0001  | -2.617e-03  |
|       | Ka.C.36   | 0.0249  | 0.0001  | -3.570e-03  |
| -     | -         | m       | m       | rad         |

**KA.C. EXTREME DOORBUIGINGEN**

| Staat | B.C.    | Knoop Begin |        | Staat  |         | Knoop Eind |        |
|-------|---------|-------------|--------|--------|---------|------------|--------|
|       |         | X           | Z      | Z'afst | Z'      | X          | Z      |
| S1    | Ka.C.21 | -0,002      | 0,005  | 5.380  | -0.0011 | -0,001     | 0,008  |
| S1    | Ka.C.36 | -0,003      | 0,026  | 4.428  | 0.0172  | 0,007      | 0,055  |
| S2    | Ka.C.9  | 0,006       | 0,025  | 7.060  | -0.0064 | 0,016      | -0,002 |
| S2    | Ka.C.29 | -0,001      | 0,024  | 4.551  | 0.0087  | 0,007      | 0,001  |
| S3    | Ka.C.34 | 0,000       | 0,000  | 1.732  | 0.0033  | 0,028      | 0,000  |
| S4    | Ka.C.34 | 0,028       | 0,000  | 0.175  | 0.0001  | 0,029      | 0,000  |
| S5    | Ka.C.34 | 0,030       | -0,001 | 0.475  | -0.0003 | 0,029      | 0,000  |
| -     | -       | m           | m      | m      | m       | m          | m      |

## AFB. STAALCONTROLE / STEEL CODE CHECK

**SAMENSTELLING CONSTRUCTIEDELEN**

| Constructiedeel | Staat/staven |
|-----------------|--------------|
| C1              | S1           |
| C2              | S2           |
| C3              | S3           |
| C4              | S4           |
| C5              | S5           |

**KNIKLENGTEGEGEVENS**

| Staat                  | Profiel | Lokale Y-as |              |        |           | Lokale Z-as       |       |           |
|------------------------|---------|-------------|--------------|--------|-----------|-------------------|-------|-----------|
|                        |         | Lsys        | methode      | Lbuc   | Lbuc/Lsys | methode           | Lbuc  | Lbuc/Lsys |
| C1 - V1 (0.000-8.644)  | P2      | 8.640       | Ongeschoord  | 19.651 | 2.27      | Handmatige Invoer | 2.700 | 0.31      |
| C2 - V1 (0.000-10.506) | P2      | 10.510      | Ongeschoord  | 15.325 | 1.46      | Handmatige Invoer | 2.700 | 0.26      |
| C3 - V1 (0.000-3.000)  | P2      | 3.000       | Cons. gesch. | 3.000  | 1.00      | Cons. gesch.      | 3.000 | 1.00      |
| -                      | -       | m           | -            | m      | -         | -                 | m     | -         |

**KIPSTEUNENGEGEVENS**

| Staat                  | Profiel | Begin:   | Eind:    | Kipsteunen boven                      | Kipsteunen onder | Aangrijphoogte  |
|------------------------|---------|----------|----------|---------------------------------------|------------------|-----------------|
| C1 - V1 (0.000-8.644)  | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75, 8.1       | 2.7, 5.4, 8.1    | Bovenflens +10% |
| C2 - V1 (0.000-10.506) | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75, 8.1, 9.45 | 2.7, 5.4, 8.1    | Bovenflens +10% |
| C3 - V1 (0.000-3.000)  | P2      | Gesteund | Gesteund |                                       |                  | Centrum         |
| -                      | -       | -        | -        | m                                     | m                | -               |

**UNITY CHECK NEN-EN1993-1-1:2009/NB:2011**

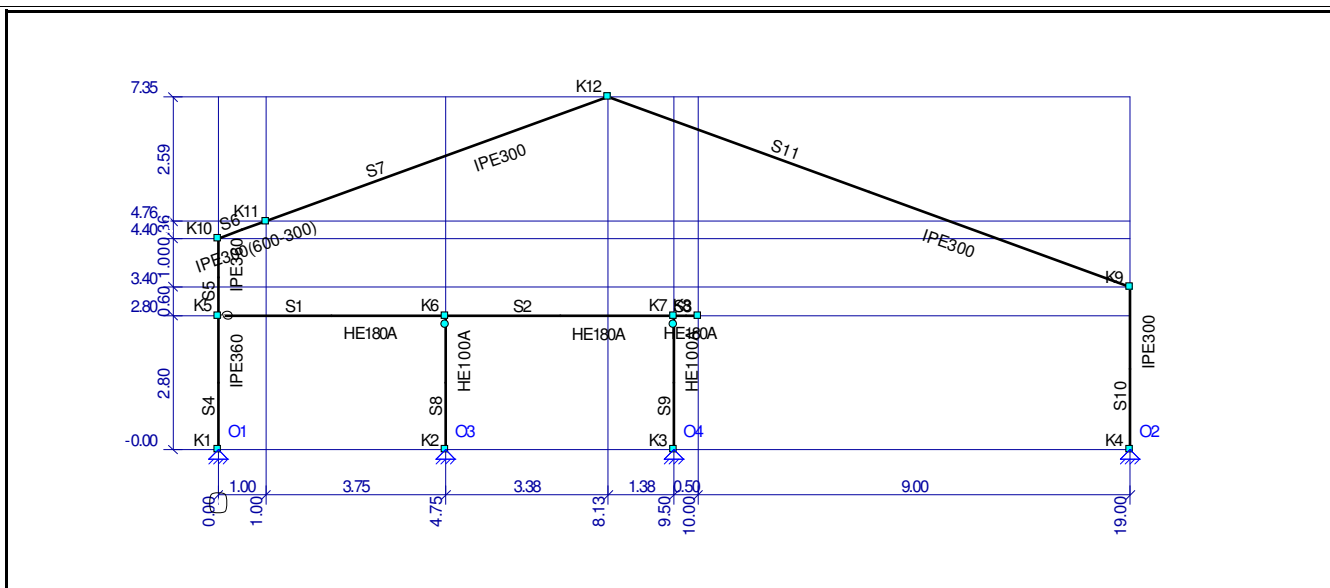
| Veld                | Toetsing    | Combinatie | Artikel              | UC max |
|---------------------|-------------|------------|----------------------|--------|
| C1-V1 (0.000-8.644) | Doorsnede   | Fu.C.35    | NEN-EN1993-1-1(6.12) | 0,31   |
| C1-V1 (0.000-8.644) | Stabiliteit | Fu.C.33    | NEN-EN1993-1-1(6.46) | 0,13   |

|                           |  |                           |
|---------------------------|--|---------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 4 - Tussenspan</b> |
|---------------------------|--|---------------------------|

| <b>Veld</b>          | <b>Toetsing</b> | <b>Combinatie</b> | <b>Artikel</b>            | <b>UC max</b> |
|----------------------|-----------------|-------------------|---------------------------|---------------|
| C1-V1 (0.000-8.644)  | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.46)      | 0,06          |
| C1-V1 (0.000-8.644)  | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.61&6.62) | 0,48          |
| C1-V1 (0.000-8.644)  | Kiptoetsing     | Fu.C.16           | NEN-EN1993-1-1(6.54)      | 0,14          |
| C2-V1 (0.000-10.506) | Doorsnede       | Fu.C.33           | NEN-EN1993-1-1(6.12)      | 0,69          |
| C2-V1 (0.000-10.506) | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.46)      | 0,09          |
| C2-V1 (0.000-10.506) | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.46)      | 0,06          |
| C2-V1 (0.000-10.506) | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.61&6.62) | 0,77          |
| C2-V1 (0.000-10.506) | Kiptoetsing     | Fu.C.35           | NEN-EN1993-1-1(6.54)      | 0,64          |
| C3-V1 (0.000-3.000)  | Doorsnede       | Fu.C.33           | NEN-EN1993-1-1(6.12)      | 0,83          |
| C3-V1 (0.000-3.000)  | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.46)      | 0,05          |
| C3-V1 (0.000-3.000)  | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.46)      | 0,07          |
| C3-V1 (0.000-3.000)  | Stabiliteit     | Fu.C.33           | NEN-EN1993-1-1(6.61&6.62) | 0,98          |
| C3-V1 (0.000-3.000)  | Kiptoetsing     | Fu.C.33           | NEN-EN1993-1-1(6.54)      | 0,93          |
| C4-V1 (0.000-0.400)  | Doorsnede       | Fu.C.33           | NEN-EN1993-1-1(6.12)      | 0,84          |
| C5-V1 (0.000-1.064)  | Doorsnede       | Fu.C.33           | NEN-EN1993-1-1(6.12)      | 0,71          |

| Wopereis Staalbouw |                                                                                                                            | Pos 5 - Tussenspant |            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Projectnaam        |                                                                                                                            | Projectnummer       |            |
| Omschrijving       |                                                                                                                            | Constructeur        |            |
| Opdrachtgever      |                                                                                                                            | Eenheden            | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161003 - Pos 5 - Tussenspant.mxf |                     |            |

#### AFB. GEOMETRIE RAAMWERK



#### STAVEN

STAVEN

| Staaf | Knoop<br>B | B  | Scharnier<br>E | Knoop<br>E | Profiel | X-B    | Z-B    | X-E    | Z-E    | Lengte |
|-------|------------|----|----------------|------------|---------|--------|--------|--------|--------|--------|
| S1    | K5         | A3 | A1             | K6         | P4      | 0,000  | -2,800 | 4,750  | -2,800 | 4,750  |
| S2    | K6         | A1 | A1             | K7         | P4      | 4,750  | -2,800 | 9,500  | -2,800 | 4,750  |
| S3    | K7         | A1 | A1             | K8         | P4      | 9,500  | -2,800 | 10,000 | -2,800 | 0,500  |
| S4    | K1         | A1 | A1             | K5         | P1      | 0,000  | 0,000  | 0,000  | -2,800 | 2,800  |
| S5    | K5         | A1 | A1             | K10        | P1      | 0,000  | -2,800 | 0,000  | -4,400 | 1,600  |
| S6    | K10        | A1 | A1             | K11        | P3      | 0,000  | -4,400 | 1,000  | -4,763 | 1,064  |
| S7    | K11        | A1 | A1             | K12        | P2      | 1,000  | -4,763 | 8,125  | -7,350 | 7,580  |
| S8    | K2         | A1 | A2             | K6         | P5      | 4,750  | 0,000  | 4,750  | -2,800 | 2,800  |
| S9    | K3         | A1 | A2             | K7         | P5      | 9,500  | 0,000  | 9,500  | -2,800 | 2,800  |
| S10   | K4         | A1 | A1             | K9         | P2      | 19,000 | 0,000  | 19,000 | -3,400 | 3,400  |
| S11   | K12        | A1 | A1             | K9         | P2      | 8,125  | -7,350 | 19,000 | -3,400 | 11,570 |
| -     | -          | -  | -              | -          | -       | m      | m      | m      | m      | m      |

#### PROFIELEN

| Profiel | Profielnaam     | Oppervlakte | Iy         | Materiaal | Hoek |
|---------|-----------------|-------------|------------|-----------|------|
| P1      | IPE360          | 7.2729e-03  | 1.6266e-04 | S235      | 0    |
| P2      | IPE300          | 5.3812e-03  | 8.3561e-05 | S235      | 0    |
| P3      | IPE300(600-300) | 7.5112e-03  | 4.0912e-04 | S235      | 0    |
| P4      | HE180A          | 4.5251e-03  | 2.5103e-05 | S235      | 0    |
| P5      | HE100A          | 2.1236e-03  | 3.4923e-06 | S235      | 0    |
| -       | -               | m2          | m4         | -         | °    |

#### PROFIELVORMEN

| Profiel | Verl. h. | hB    | hE    | tf    | tw    | tf2   | B     | bL    | bR Raatl. | Hoogte |
|---------|----------|-------|-------|-------|-------|-------|-------|-------|-----------|--------|
| P3      | Ja       | 0.600 | 0.300 | 0.011 | 0.007 | 0.011 | 0.150 | 0.000 | 0.000 Nee | 0.000  |
| -       | -        | m     | m     | m     | m     | m     | m     | m     | m -       | m      |

#### MATERIALEN

| Materiaal | Dichtheid | E-Modulus  | Uitzettingcoeff |
|-----------|-----------|------------|-----------------|
| S235      | 78.50     | 2.1000e+08 | 12.0000e-06     |
| -         | kN/m3     | kN/m2      | C°m             |

#### PROFIELEN (GEAVANCEERD)

| Profiel | Ivv        | Avz        | Trek | Druk | Kabelelement | Voorspanning |
|---------|------------|------------|------|------|--------------|--------------|
| P3      | 6.0467e-06 | 4.6982e-03 | Ja   | Ja   | Nee          | 0.00         |
| -       | m4         | m2         | -    | -    | -            | kN           |

|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspanst</b> |
|---------------------------|--|-----------------------------|

## OPLEGGINGEN

| Oplegging | Knoop | X           | Z           | Yr            | HoekYr   |
|-----------|-------|-------------|-------------|---------------|----------|
| O1        | K1    | vast        | vast        | vrij          | 0        |
| O2        | K4    | vast        | vast        | vrij          | 0        |
| O3        | K2    | vast        | vast        | vrij          | 0        |
| O4        | K3    | vast        | vast        | vrij          | 0        |
| -         | -     | <b>kN/m</b> | <b>kN/m</b> | <b>kNmrad</b> | <b>°</b> |

## GEWICHTSBEREKENING

| Index   | Staven                                                           | Berekening                                                            | Waarde Eenheden |
|---------|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| Lsys1   | Belastingen en vervormingen                                      | NEN-EN1991                                                            |                 |
| Height1 | Systeemmaat                                                      | 5.00                                                                  | 5,00 [m]        |
| Width1  | Totale hoogte van constructie                                    | 7.35                                                                  | 7,35 [m]        |
| LR1     | Totale breedte van constructie                                   | 19.00                                                                 | 19,00 [m]       |
|         | Permanente Belasting                                             | NEN-EN1991-1-1:2011/NB:2011                                           |                 |
| Pp1     | Hellend dak (S2,S3)                                              |                                                                       |                 |
| q1      | Golfplaten en gordingen (0.25)                                   | 0.25                                                                  | 0,25 [kN/m²]    |
| LR2     | Permanente Belasting                                             | Pp1*Lsys1                                                             | 1,25 [kN/m]     |
|         | Opgelegde belastingen                                            | NEN-EN1991-1-1:2011/NB:2011                                           |                 |
| qk1     | S2-S3                                                            |                                                                       |                 |
| q2      | Opgelegde belastingen (qk)                                       | NEN-EN1991-1-1#6.3(Cat=H, Hoek=20)                                    | 0,00 [kN/m²]    |
| LR3     | Opgelegde belastingen (q) (Lsys=5.00)                            | qk1 * Min(5.0, Lsys1)                                                 | 0,00 [kN/m]     |
|         | Windbelasting van Links + Overdruk                               | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height2 | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width2  | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width3  | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A1      | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co1     | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd1   | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width2,h=Height2,Terrein=Onbebouwd,Regio=3,C0=Co1) | 0,85            |
| Cpe1    | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| Cpi1    | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=0.00,Over=True)                   | 0,20            |
| Z1      | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp1     | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebouwd,Regio=3,C0=Co1)               | 0,63 [kN/m²]    |
| q3      | Interne druk; Verdeelde element belasting (q)                    | (Cpi1*Qp1) * Lsys1                                                    | 0,63 [kN/m]     |
| Cpe2    | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| q4      | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*Cpe2*CsCd1) * Lsys1                                              | 2,14 [kN/m]     |
| Cpe3    | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| C1      | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe2-Cpe3) * 0.85                                                    | 1,11            |
| q5      | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp1*(Cpe3+C1)*CsCd1) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe4    | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95)                    | -0,70           |
| q6      | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe4*CsCd1) * Lsys1                                              | -1,87 [kN/m]    |
| Cpe5    | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95)                    | -0,27           |
| q7      | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp1*Cpe5*CsCd1) * Lsys1                                              | -0,71 [kN/m]    |
| Cpe6    | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96)                    | -0,83           |
| q8      | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe6*CsCd1) * Lsys1                                              | -2,23 [kN/m]    |
| Cpe7    | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96)                    | -0,40           |
| q9      | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp1*Cpe7*CsCd1) * Lsys1                                              | -1,07 [kN/m]    |
| q10     | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*Cpe3*CsCd1) * Lsys1                                              | -1,34 [kN/m]    |
| q11     | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp1*(Cpe2-C1)*CsCd1) * Lsys1                                         | -0,81 [kN/m]    |
| LR4     |                                                                  |                                                                       |                 |
|         | Windbelasting van Links + Overdruk (2e Cpe)                      | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height3 | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width4  | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width5  | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A2      | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co2     | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd2   | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width4,h=Height3,Terrein=Onbebouwd,Regio=3,C0=Co2) | 0,85            |
| Cpe8    | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |

|                           |  |                             |
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| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspanst</b> |
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| Index      | Staven                                                           | Berekening                                                            | Waarde Eenheden |
|------------|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| <b>LR4</b> |                                                                  |                                                                       |                 |
| Cpi2       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe8,Openingen=0.00,Over=True)                   | 0,20            |
| Z2         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp2        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebouwd,Regio=3,C0=Co2)               | 0,63 [kN/m²]    |
| q12        | Interne druk; Verdeelde element belasting (q)                    | (Cpi2*Qp2) * Lsys1                                                    | 0,63 [kN/m]     |
| Cpe9       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)               | 0,80            |
| q13        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*Cpe9*CsCd2) * Lsys1                                              | 2,14 [kN/m]     |
| Cpe10      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)               | -0,50           |
| C2         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe9-Cpe10) * 0.85                                                   | 1,11            |
| q14        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp2*(Cpe10+C2)*CsCd2) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe11      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)        | 0,37            |
| q15        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe11*CsCd2) * Lsys1                                             | 0,97 [kN/m]     |
| Cpe12      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)        | 0,27            |
| q16        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp2*Cpe12*CsCd2) * Lsys1                                             | 0,71 [kN/m]     |
| Cpe13      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)        | 0,00            |
| q17        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe13*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| Cpe14      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)        | 0,00            |
| q18        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp2*Cpe14*CsCd2) * Lsys1                                             | 0,00 [kN/m]     |
| q19        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*Cpe10*CsCd2) * Lsys1                                             | -1,34 [kN/m]    |
| q20        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp2*(Cpe9-C2)*CsCd2) * Lsys1                                         | -0,81 [kN/m]    |
| <b>LR5</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk                              | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height4    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width6     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width7     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A3         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co3        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd3      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width6,h=Height4,Terrein=Onbebouwd,Regio=3,C0=Co3) | 0,85            |
| Cpe15      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| Cpi3       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe15,Openingen=0.00,Over=False)                 | -0,30           |
| Z3         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                  | 7,35 [m]        |
| Qp3        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebouwd,Regio=3,C0=Co3)               | 0,63 [kN/m²]    |
| q21        | Interne druk; Verdeelde element belasting (q)                    | (Cpi3*Qp3) * Lsys1                                                    | -0,94 [kN/m]    |
| Cpe16      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                           | 0,80            |
| q22        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*Cpe16*CsCd3) * Lsys1                                             | 2,14 [kN/m]     |
| Cpe17      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                           | -0,50           |
| C3         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe16-Cpe17) * 0.85                                                  | 1,11            |
| q23        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp3*(Cpe17+C3)*CsCd3) * Lsys1                                        | 1,62 [kN/m]     |
| Cpe18      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95)                    | -0,70           |
| q24        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe18*CsCd3) * Lsys1                                             | -1,87 [kN/m]    |
| Cpe19      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95)                    | -0,27           |
| q25        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp3*Cpe19*CsCd3) * Lsys1                                             | -0,71 [kN/m]    |
| Cpe20      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96)                    | -0,83           |
| q26        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe20*CsCd3) * Lsys1                                             | -2,23 [kN/m]    |
| Cpe21      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96)                    | -0,40           |
| q27        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp3*Cpe21*CsCd3) * Lsys1                                             | -1,07 [kN/m]    |
| q28        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*Cpe17*CsCd3) * Lsys1                                             | -1,34 [kN/m]    |
| q29        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp3*(Cpe16-C3)*CsCd3) * Lsys1                                        | -0,81 [kN/m]    |
| <b>LR6</b> |                                                                  |                                                                       |                 |
|            | Windbelasting van Links + Onderdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                           |                 |
| Height5    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                  | 7,35 [m]        |
| Width8     | Gemiddelde breedte (b)                                           | 20.00                                                                 | 20,00 [m]       |
| Width9     | Constructie diepte (d)                                           | 19.00                                                                 | 19,00 [m]       |
| A4         | Belast oppervlak (A)                                             | 147.00                                                                | 147,00 [m²]     |
| Co4        | Orthografie factor (C0)                                          | 1.00                                                                  | 1,00            |
| CsCd4      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width8,h=Height5,Terrein=Onbebouwd,Regio=3,C0=Co4) | 0,85            |

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| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspannt</b> |
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| Index      | Staven                                                           | Berekening                                                             | Waarde Eenheden |
|------------|------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|
| <b>LR6</b> |                                                                  |                                                                        |                 |
| Cpe22      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| Cpi4       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe22,Openingen=0.00,Over=False)                  | -0,30           |
| Z4         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp4        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebouwd,Regio=3,C0=Co4)                | 0,63 [kN/m²]    |
| q30        | Interne druk; Verdeelde element belasting (q)                    | (Cpi4*Qp4) * Lsys1                                                     | -0,94 [kN/m]    |
| Cpe23      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39,Eerst=False)                | 0,80            |
| q31        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*Cpe23*CsCd4) * Lsys1                                              | 2,14 [kN/m]     |
| Cpe24      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39,Eerst=False)                | -0,50           |
| C4         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe23-Cpe24) * 0.85                                                   | 1,11            |
| q32        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp4*(Cpe24+C4)*CsCd4) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe25      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.95,Eerst=False)         | 0,37            |
| q33        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe25*CsCd4) * Lsys1                                              | 0,97 [kN/m]     |
| Cpe26      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.95,Eerst=False)         | 0,27            |
| q34        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp4*Cpe26*CsCd4) * Lsys1                                              | 0,71 [kN/m]     |
| Cpe27      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.96,Eerst=False)         | 0,00            |
| q35        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe27*CsCd4) * Lsys1                                              | 0,00 [kN/m]     |
| Cpe28      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.96,Eerst=False)         | 0,00            |
| q36        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp4*Cpe28*CsCd4) * Lsys1                                              | 0,00 [kN/m]     |
| q37        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*Cpe24*CsCd4) * Lsys1                                              | -1,34 [kN/m]    |
| q38        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp4*(Cpe23-C4)*CsCd4) * Lsys1                                         | -0,81 [kN/m]    |
| <b>LR7</b> |                                                                  |                                                                        |                 |
|            | Windbelasting van Rechts + Overdruk                              | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height6    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width10    | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width11    | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A5         | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co5        | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |
| CsCd5      | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width10,h=Height6,Terrein=Onbebouwd,Regio=3,C0=Co5) | 0,85            |
| Cpe29      | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                            | 0,80            |
| Cpi5       | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe29,Openingen=0.00,Over=True)                   | 0,20            |
| Z5         | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                   | 7,35 [m]        |
| Qp5        | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z5,Terrein=Onbebouwd,Regio=3,C0=Co5)                | 0,63 [kN/m²]    |
| q39        | Interne druk; Verdeelde element belasting (q)                    | (Cpi5*Qp5) * Lsys1                                                     | 0,63 [kN/m]     |
| Cpe30      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.39)                            | -0,50           |
| q40        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*Cpe30*CsCd5) * Lsys1                                              | -1,34 [kN/m]    |
| Cpe31      | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.39)                            | 0,80            |
| C5         | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe31-Cpe30) * 0.85                                                   | 1,11            |
| q41        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe31-C5)*CsCd5) * Lsys1                                         | -0,81 [kN/m]    |
| q42        | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp5*(Cpe30+C5)*CsCd5) * Lsys1                                         | 1,62 [kN/m]     |
| Cpe32      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=I,Hoek=19.95)                     | -0,40           |
| q43        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe32*CsCd5) * Lsys1                                              | -1,07 [kN/m]    |
| Cpe33      | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=J,Hoek=19.95)                     | -0,84           |
| q44        | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp5*Cpe33*CsCd5) * Lsys1                                              | -2,23 [kN/m]    |
| Cpe34      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=H,Hoek=19.96)                     | -0,27           |
| q45        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe34*CsCd5) * Lsys1                                              | -0,71 [kN/m]    |
| Cpe35      | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone=G,Hoek=19.96)                     | -0,70           |
| q46        | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp5*Cpe35*CsCd5) * Lsys1                                              | -1,87 [kN/m]    |
| q47        | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp5*Cpe31*CsCd5) * Lsys1                                              | 2,14 [kN/m]     |
| <b>LR8</b> |                                                                  |                                                                        |                 |
|            | Windbelasting van Rechts + Overdruk (2e Cpe)                     | NEN-EN1991-1-4:2011/NB:2011                                            |                 |
| Height7    | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                   | 7,35 [m]        |
| Width12    | Gemiddelde breedte (b)                                           | 20.00                                                                  | 20,00 [m]       |
| Width13    | Constructie diepte (d)                                           | 19.00                                                                  | 19,00 [m]       |
| A6         | Belast oppervlak (A)                                             | 147.00                                                                 | 147,00 [m²]     |
| Co6        | Orthografie factor (C0)                                          | 1.00                                                                   | 1,00            |

| Wopereis Staalbouw |  | Pos 5 - Tussenspan |
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| Index       | Staven                                                           | Berekening                                                              | Waarde Eenheden |
|-------------|------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|
| <b>LR8</b>  |                                                                  |                                                                         |                 |
| CsCd6       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width12,h=Height7, Terrein=Onbebouwd,Regio=3,C0=Co6) | 0,85            |
| Cpe36       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39)                            | 0,80            |
| Cpi6        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe36,Openingen =0.00,Over=True)                   | 0,20            |
| Z6          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp6         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z6,Terrein=Onbebo uwd,Regio=3,C0=Co6)                | 0,63 [kN/m²]    |
| q48         | Interne druk; Verdeelde element belasting (q)                    | (Cpi6*Qp6) * Lsys1                                                      | 0,63 [kN/m]     |
| Cpe37       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39,Eerst=False)                | -0,50           |
| q49         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*Cpe37*CsCd6) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe38       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39,Eerst=False)                | 0,80            |
| C6          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe38-Cpe37) * 0.85                                                    | 1,11            |
| q50         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe38-C6)*CsCd6) * Lsys1                                          | -0,81 [kN/m]    |
| q51         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp6*(Cpe37+C6)*CsCd6) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe39       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95,Eerst=False)         | 0,00            |
| q52         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe39*CsCd6) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe40       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95,Eerst=False)         | 0,00            |
| q53         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp6*Cpe40*CsCd6) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe41       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96,Eerst=False)         | 0,27            |
| q54         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe41*CsCd6) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe42       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96,Eerst=False)         | 0,37            |
| q55         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp6*Cpe42*CsCd6) * Lsys1                                               | 0,98 [kN/m]     |
| q56         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp6*Cpe38*CsCd6) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR9</b>  |                                                                  |                                                                         |                 |
|             | Windbelasting van Rechts + Onderdruk                             | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height8     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width14     | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width15     | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A7          | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |
| Co7         | Orthografie factor (C0)                                          | 1.00                                                                    | 1,00            |
| CsCd7       | Constructie factor (CsCd)                                        | NEN-EN1991-1-4#6(b=Width14,h=Height8, Terrein=Onbebouwd,Regio=3,C0=Co7) | 0,85            |
| Cpe43       | Uitwendige druk; Druk coefficient (Cpe)                          | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| Cpi7        | Interne druk; Druk coefficient (Cpi)                             | EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen =0.00,Over=False)                  | -0,30           |
| Z7          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                          | 7.35                                                                    | 7,35 [m]        |
| Qp7         | Pieksnelheids druk (Qp voor referentieperiode 50)                | NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebo uwd,Regio=3,C0=Co7)                | 0,63 [kN/m²]    |
| q57         | Interne druk; Verdeelde element belasting (q)                    | (Cpi7*Qp7) * Lsys1                                                      | -0,94 [kN/m]    |
| Cpe44       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| q58         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*Cpe44*CsCd7) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe45       | Vertikale wand S1; Druk coefficient (Cpe)                        | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39)                            | 0,80            |
| C7          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor | (Cpe45-Cpe44) * 0.85                                                    | 1,11            |
| q59         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe45-C7)*CsCd7) * Lsys1                                          | -0,81 [kN/m]    |
| q60         | Vertikale wand S1; Verdeelde element belasting (q)               | (Qp7*(Cpe44+C7)*CsCd7) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe46       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95)                     | -0,40           |
| q61         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe46*CsCd7) * Lsys1                                               | -1,07 [kN/m]    |
| Cpe47       | Zadeldak S2; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95)                     | -0,84           |
| q62         | Zadeldak S2; Verdeelde element belasting (q)                     | (Qp7*Cpe47*CsCd7) * Lsys1                                               | -2,23 [kN/m]    |
| Cpe48       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96)                     | -0,27           |
| q63         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe48*CsCd7) * Lsys1                                               | -0,71 [kN/m]    |
| Cpe49       | Zadeldak S3; Druk coefficient (Cpe)                              | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96)                     | -0,70           |
| q64         | Zadeldak S3; Verdeelde element belasting (q)                     | (Qp7*Cpe49*CsCd7) * Lsys1                                               | -1,87 [kN/m]    |
| q65         | Vertikale wand S4; Verdeelde element belasting (q)               | (Qp7*Cpe45*CsCd7) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR10</b> |                                                                  |                                                                         |                 |
|             | Windbelasting van Rechts + Onderdruk (2e Cpe)                    | NEN-EN1991-1-4:2011/NB:2011                                             |                 |
| Height9     | Totale hoogte (incl. gedeelte boven de grond) (h)                | 7.35                                                                    | 7,35 [m]        |
| Width16     | Gemiddelde breedte (b)                                           | 20.00                                                                   | 20,00 [m]       |
| Width17     | Constructie diepte (d)                                           | 19.00                                                                   | 19,00 [m]       |
| A8          | Belast oppervlak (A)                                             | 147.00                                                                  | 147,00 [m²]     |

|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspannt</b> |
|---------------------------|--|-----------------------------|

| Index       | Staven                                                                    | Berekening                                                              | Waarde Eenheden |
|-------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|
| <b>LR10</b> |                                                                           |                                                                         |                 |
| Co8         | Orthografie factor (C0)                                                   | 1.00                                                                    | 1,00            |
| CsCd8       | Constructie factor (CsCd)                                                 | NEN-EN1991-1-4#6(b=Width16,h=Height9, Terrein=Onbebouwd,Regio=3,C0=Co8) | 0,85            |
| Cpe50       | Uitwendige druk; Druk coefficient (Cpe)                                   | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39)                            | -0,50           |
| Cpi8        | Interne druk; Druk coefficient (Cpi)                                      | EN1991-1-4#7.2.9(Cpe=Cpe50,Openingen =0.00,Over=False)                  | -0,30           |
| Z8          | z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5                                   | 7.35                                                                    | 7,35 [m]        |
| Qp8         | Pieksnelheids druk (Qp voor referentieperiode 50)                         | NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebouwd,Regio=3,C0=Co8)                 | 0,63 [kN/m²]    |
| q66         | Interne druk; Verdeelde element belasting (q)                             | (Cpi8*Qp8) * Lsys1                                                      | -0,94 [kN/m]    |
| Cpe51       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.39,Eerst=False)                | -0,50           |
| q67         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*Cpe51*CsCd8) * Lsys1                                               | -1,34 [kN/m]    |
| Cpe52       | Vertikale wand S1; Druk coefficient (Cpe)                                 | NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.39,Eerst=False)                | 0,80            |
| C8          | Vertikale wand S1; Druk coefficient (Cpe) incl. correlatiefactor          | (Cpe52-Cpe51) * 0.85                                                    | 1,11            |
| q68         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe52-C8)*CsCd8) * Lsys1                                          | -0,81 [kN/m]    |
| q69         | Vertikale wand S1; Verdeelde element belasting (q)                        | (Qp8*(Cpe51+C8)*CsCd8) * Lsys1                                          | 1,62 [kN/m]     |
| Cpe53       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =I,Hoek=19.95,Eerst=False)         | 0,00            |
| q70         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe53*CsCd8) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe54       | Zadeldak S2; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =J,Hoek=19.95,Eerst=False)         | 0,00            |
| q71         | Zadeldak S2; Verdeelde element belasting (q)                              | (Qp8*Cpe54*CsCd8) * Lsys1                                               | 0,00 [kN/m]     |
| Cpe55       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =H,Hoek=19.96,Eerst=False)         | 0,27            |
| q72         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe55*CsCd8) * Lsys1                                               | 0,71 [kN/m]     |
| Cpe56       | Zadeldak S3; Druk coefficient (Cpe)                                       | NEN-EN1991-1-4#7.2(Dak=Zadeldak,Zone =G,Hoek=19.96,Eerst=False)         | 0,37            |
| q73         | Zadeldak S3; Verdeelde element belasting (q)                              | (Qp8*Cpe56*CsCd8) * Lsys1                                               | 0,98 [kN/m]     |
| q74         | Vertikale wand S4; Verdeelde element belasting (q)                        | (Qp8*Cpe52*CsCd8) * Lsys1                                               | 2,14 [kN/m]     |
| <b>LR11</b> |                                                                           |                                                                         |                 |
|             | Sneeuwbelasting                                                           | NEN-EN1991-1-3:2011/NB:2011                                             |                 |
| Sk1         | Karakteristiek waarde van de sneeuwlast op de grond (Sk)                  | NEN-EN1991-1-3#4.1(Zone=1)                                              | 0,70 [kN/m²]    |
| Ce1         | De milieucoefficient (Ce)                                                 | NEN-EN1991-1-3#5.2.7()                                                  | 1,00            |
| Ct1         | De thermische coefficient (Ct)                                            | NEN-EN1991-1-3#5.2.8()                                                  | 1,00            |
| Mu1         | Zadeldak, Mu1 Hoek: 19.95; S2,S3<br>Mu1; Sneeuwbelasting coefficient (Mu) | EN1991-1-3#5.3(Dak=Hellend,Hoek=19.95 ,Mu=Mu1,Sk=Sk1)                   | 0,80            |
| q75         | Verdeelde element belasting (q)                                           | (Sk1*Ce1*Ct1*Mu1) * Lsys1                                               | 2,80 [kN/m]     |
| q76         | Verdeelde element belasting (q)                                           | q75*0.50                                                                | 1,40 [kN/m]     |

## BELASTINGSGEVALLEN TYPEN

| Oplegg. | Staven                                                                                 | B.G.Type      | Gunstig/Ong. | Element | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|----------------------------------------------------------------------------------------|---------------|--------------|---------|--------|--------|------|------|------|-------|
| B.G.1   | Permanente Belasting                                                                   | Permanent     | -            |         | N.v.t. | N.v.t. |      |      |      |       |
| B.G.2   | Windbelasting van Links + Overdruk                                                     | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.3   | Windbelasting van Links + Overdruk (2e Cpe)                                            | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.4   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.5   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.6   | Windbelasting van Links + Overdruk (2e corr. factor)                                   | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.7   | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.8   | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.9   | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting | +            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.10  | Windbelasting van Links + Onderdruk                                                    | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.11  | Windbelasting van Links + Onderdruk (2e Cpe)                                           | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.12  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                  | Windbelasting | -            |         | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |

|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspannt</b> |
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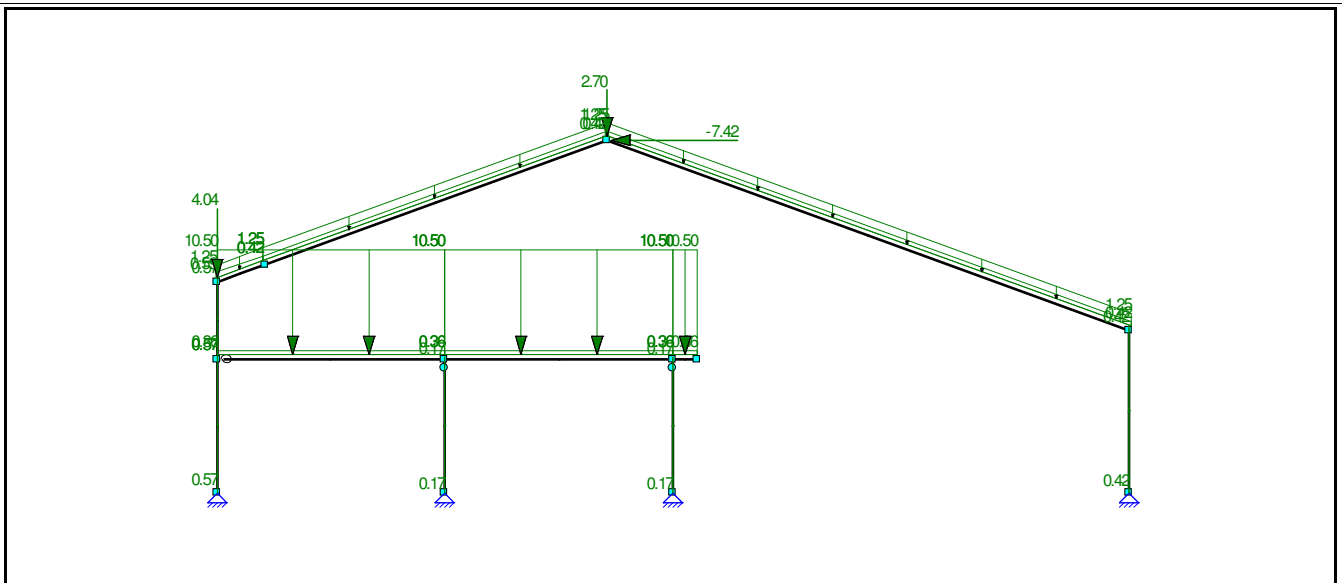
| Oplegg. | Staven                                                                                  | B.G.Type                          | Gunstig/Ong. | Element                   | Niveau | Veld   | Psi0 | Psi1 | Psi2 | Cprob |
|---------|-----------------------------------------------------------------------------------------|-----------------------------------|--------------|---------------------------|--------|--------|------|------|------|-------|
| B.G.13  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.14  | Windbelasting van Links + Onderdruk (2e corr. factor)                                   | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.15  | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                          | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.16  | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.17  | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.18  | Windbelasting van Rechts + Overdruk                                                     | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.19  | Windbelasting van Rechts + Overdruk (2e Cpe)                                            | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.20  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.21  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.22  | Windbelasting van Rechts + Overdruk (2e corr. factor)                                   | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.23  | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.24  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.25  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting                     | +            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.26  | Windbelasting van Rechts + Overdruk                                                     | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.27  | Windbelasting van Rechts + Overdruk (2e Cpe)                                            | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.28  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.29  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.30  | Windbelasting van Rechts + Overdruk (2e corr. factor)                                   | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.31  | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                          | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.32  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.33  | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | Windbelasting                     | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,91  |
| B.G.34  | Sneeuwbelasting 1                                                                       | Sneeuwbelasting                   | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.35  | Sneeuwbelasting 2                                                                       | Sneeuwbelasting                   | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.36  | Sneeuwbelasting 3                                                                       | Sneeuwbelasting                   | -            |                           | N.v.t. | N.v.t. |      | 0.20 |      | 0,75  |
| B.G.37  | Kniklengte                                                                              | Kniklengte                        |              |                           | N.v.t. | N.v.t. |      |      |      |       |
| B.G.38  | Verdeelde veranderlijke belasting                                                       | Verdeelde veranderlijke belasting | -            | Cat. E2) Industriefunctie | 1      | 1      | 1.00 | 0.90 | 0.80 | 1,00  |
| B.G.39  | Verdeelde veranderlijke belasting                                                       | Verdeelde veranderlijke belasting | -            | Cat. E2) Industriefunctie | 1      | 2      | 1.00 | 0.90 | 0.80 | 1,00  |
| B.G.40  | Verdeelde veranderlijke belasting                                                       | Verdeelde veranderlijke belasting | -            | Cat. E2) Industriefunctie | 1      | 3      | 1.00 | 0.90 | 0.80 | 1,00  |

#### B.G.1: PERMANENTE BELASTING

| Type                        | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting | Staaaf of knoop |
|-----------------------------|--------------|--------------|--------------|-------------|----------|-----------------|
| B.G.1: Permanente Belasting |              |              |              |             |          |                 |
| qG                          | 0,42 (1.00x) | 0,42 (1.00x) | 0,000        | 11,570(L)   | Z"       | S11             |

| Type                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.1: Permanente Belasting</b> |                 |                     |              |             |                         |
| qG                                 | 0,42 (1.00x)    | 0,42 (1.00x)        | 0,000        | 3,400(L)    | Z" S10                  |
| q                                  | 1,25 (q1)       | 1,25 (q1)           | 0,000        | 11,570(L)   | Z" S6-S7,S11            |
| N                                  | 2,70            |                     |              |             | Z K12                   |
| N                                  | -7,42           |                     |              |             | X K12                   |
| qG                                 | 0,59 (1.00x)    | 0,42 (1.00x)        | 0,000        | 1,064(L)    | Z" S6                   |
| qG                                 | 0,42 (1.00x)    | 0,42 (1.00x)        | 0,000        | 7,580(L)    | Z" S7                   |
| qG                                 | 0,57 (1.00x)    | 0,57 (1.00x)        | 0,000        | 2,800(L)    | Z" S4                   |
| qG                                 | 0,57 (1.00x)    | 0,57 (1.00x)        | 0,000        | 1,600(L)    | Z" S5                   |
| qG                                 | 0,36 (1.00x)    | 0,36 (1.00x)        | 0,000        | 4,750(L)    | Z" S1-S2                |
| qG                                 | 0,36 (1.00x)    | 0,36 (1.00x)        | 0,000        | 0,500(L)    | Z" S3                   |
| qG                                 | 0,17 (1.00x)    | 0,17 (1.00x)        | 0,000        | 2,800(L)    | Z" S8-S9                |
| q                                  | 10,50           | 10,50               | 0,000        | 4,750(L)    | Z' S1-S3                |
| N                                  | 4,04            |                     |              |             | Z K10                   |
| <b>Som lasten</b>                  | <b>X: -7,42</b> | <b>kN Z: 154,07</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                  | -               | -                   | m            | m           | - -                     |

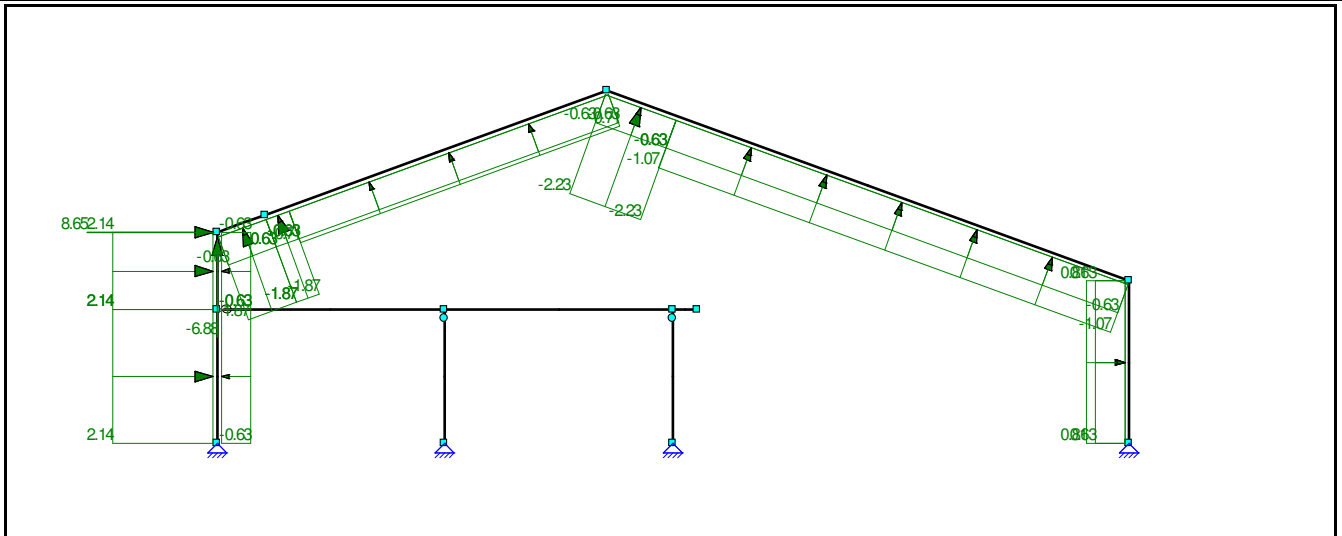
B.G.1: PERMANENTE BELASTING



B.G.2: WINDBELASTING VAN LINKS + OVERDRUK

| Type                                             | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.2: Windbelasting van Links + Overdruk</b> |                 |                     |              |             |                         |
| q                                                | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S11                  |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S11                  |
| q                                                | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                | -6,88           |                     |              |             | Z K10                   |
| N                                                | 8,65            |                     |              |             | X K10                   |
| q                                                | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S7                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S7                   |
| q                                                | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S7                   |
| q                                                | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S7                   |
| q                                                | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                | <b>X: 22,94</b> | <b>kN Z: -39,65</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                | -               | -                   | m            | m           | - -                     |

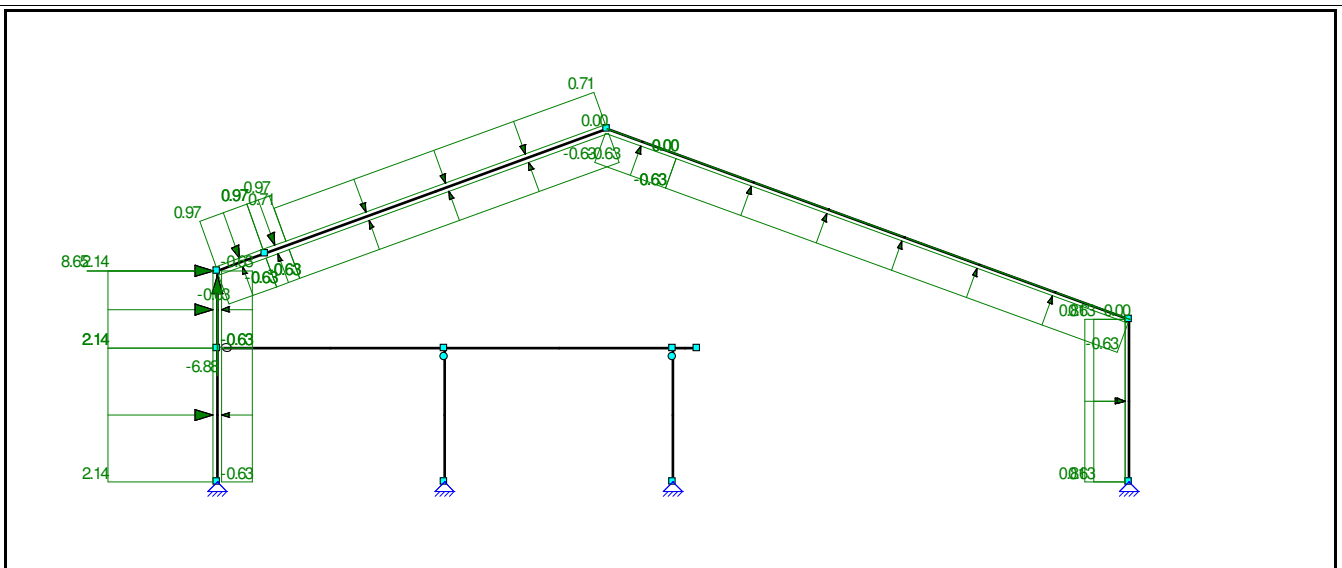
## B.G.2: WINDBELASTING VAN LINKS + OVERDRUK



## B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)

| Type                                                      | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.3: Windbelasting van Links + Overdruk (2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                         | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S11                  |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,564       | Z' S11                  |
| q                                                         | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                         | 0,81 (-q20)     | 0,81 (-q20)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                         | 0,63 (q12)      | 0,63 (q12)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                         | -6,88           |                     |              |             | Z K10                   |
| N                                                         | 8,65            |                     |              |             | X K10                   |
| q                                                         | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                         | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S7                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 0,500       | Z' S7                   |
| q                                                         | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S7                   |
| q                                                         | -0,63 (-q12)    | -0,63 (-q12)        | 0,500        | 7,580       | Z' S7                   |
| q                                                         | 2,14 (q13)      | 2,14 (q13)          | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                         | <b>X: 23,06</b> | <b>kN Z: -12,66</b> | <b>kN</b>    |             |                         |
| -                                                         | -               | -                   | m            | m           | - -                     |

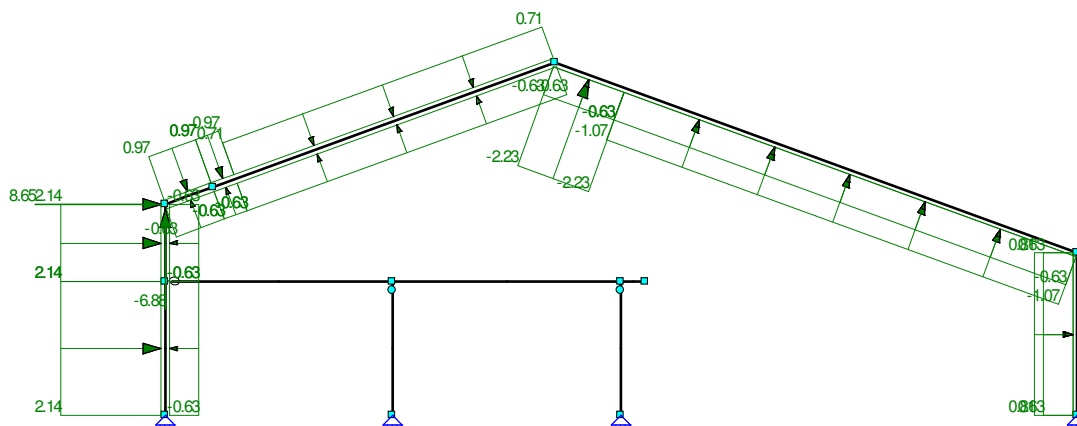
## B.G.3: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)



| Type                                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoep |
|------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.4: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                  | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S11                  |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S11                  |
| q                                                                                  | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                  | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                  | -6,88           |                     |              |             | Z K10                   |
| N                                                                                  | 8,65            |                     |              |             | X K10                   |
| q                                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S7                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S7                   |
| q                                                                                  | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S7                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S7                   |
| q                                                                                  | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                  | <b>X: 18,10</b> | <b>kN Z: -26,32</b> | <b>kN</b>    |             |                         |
| -                                                                                  | -               | -                   | m            | m           | - -                     |

| Type                                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.5: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                  | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S11                  |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S11                  |
| q                                                                                  | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                  | 0,81 (-q11)     | 0,81 (-q11)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                  | -6,88           |                     |              |             | Z K10                   |
| N                                                                                  | 8,65            |                     |              |             | X K10                   |
| q                                                                                  | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                  | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S7                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S7                   |
| q                                                                                  | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S7                   |
| q                                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S7                   |
| q                                                                                  | 2,14 (q4)       | 2,14 (q4)           | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                  | <b>X: 27,90</b> | <b>kN Z: -25,99</b> | <b>kN</b>    |             |                         |
| -                                                                                  | -               | -                   | m            | m           | - -                     |

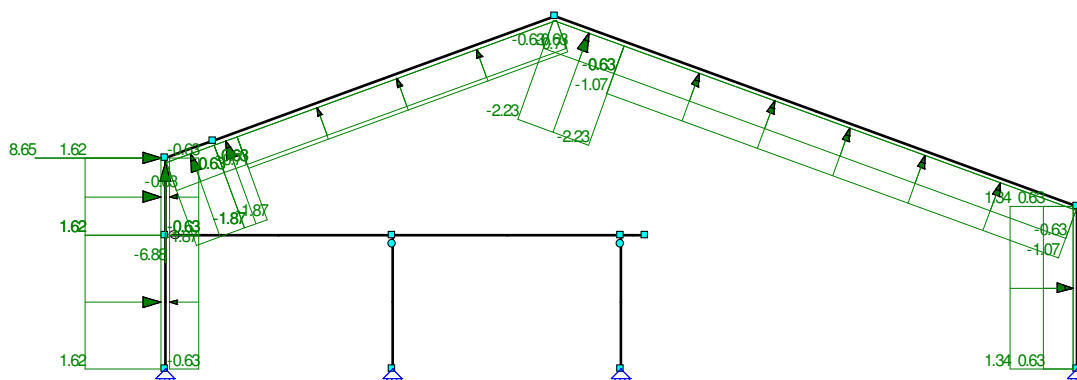
## B.G.5: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



## B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)

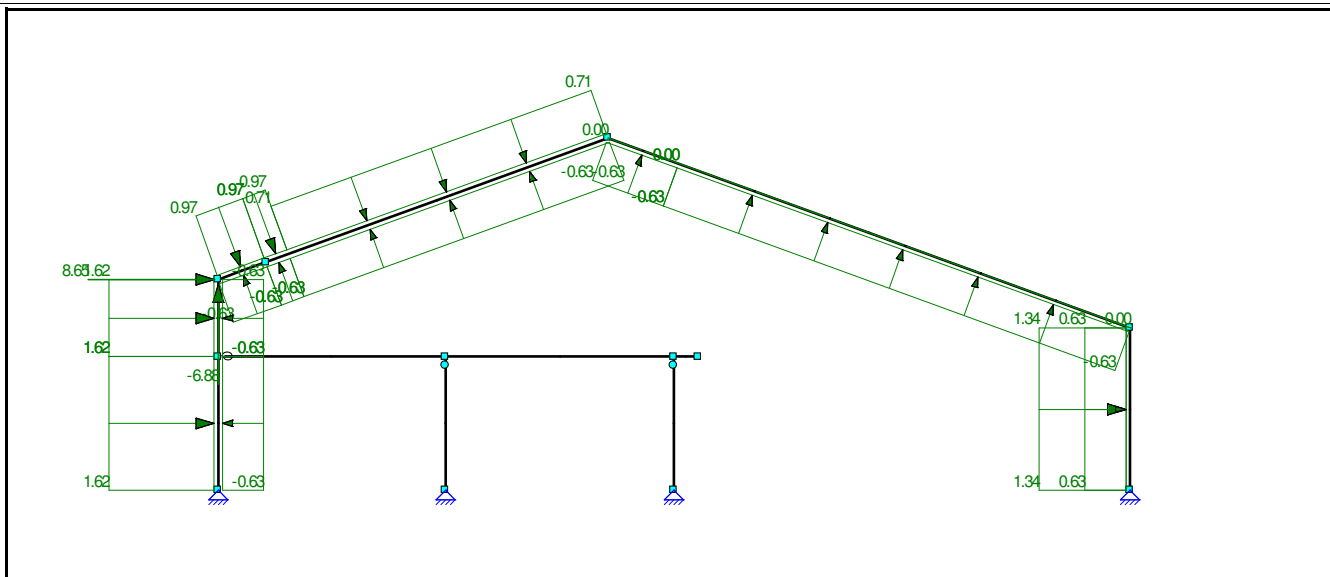
| Type                                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.6: Windbelasting van Links + Overdruk (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                  | 1,34 (-q10)     | 1,34 (-q10)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                  | -2,23 (q8)      | -2,23 (q8)          | 0,000        | 1,564       | Z' S11                  |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S11                  |
| q                                                                  | -1,07 (q9)      | -1,07 (q9)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                  | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                  | -6,88           |                     |              |             | Z K10                   |
| N                                                                  | 8,65            |                     |              |             | X K10                   |
| q                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                  | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S7                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S7                   |
| q                                                                  | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S7                   |
| q                                                                  | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S7                   |
| q                                                                  | 1,62 (q5)       | 1,62 (q5)           | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                  | <b>X: 22,42</b> | <b>kN Z: -39,65</b> | <b>kN</b>    |             |                         |
| -                                                                  | -               | -                   | m            | m           | - -                     |

## B.G.6: WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



**B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

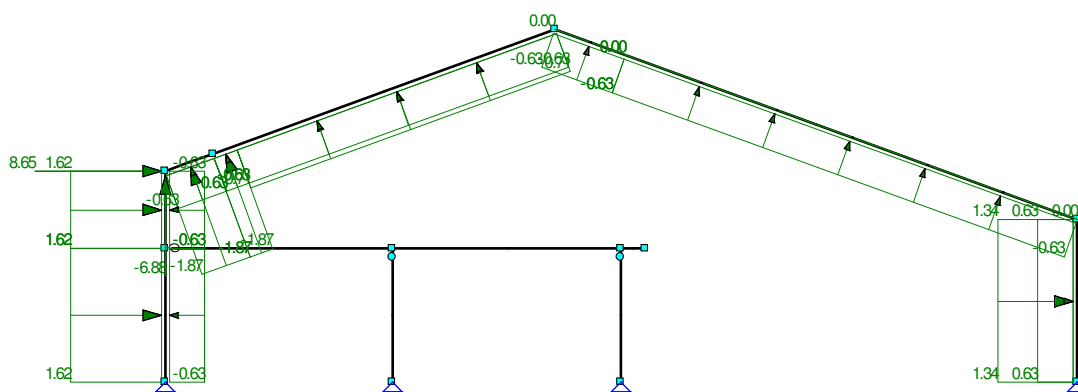
| Type                                                                        | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.7: Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                           | 1,34 (-q19)     | 1,34 (-q19)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                           | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S11                  |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                           | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                           | 0,63 (q12)      | 0,63 (q12)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                           | -6,88           |                     |              |             | Z K10                   |
| N                                                                           | 8,65            |                     |              |             | X K10                   |
| q                                                                           | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                           | 0,97 (q15)      | 0,97 (q15)          | 0,000        | 0,500       | Z' S7                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,000        | 0,500       | Z' S7                   |
| q                                                                           | 0,71 (q16)      | 0,71 (q16)          | 0,500        | 7,580       | Z' S7                   |
| q                                                                           | -0,63 (-q12)    | -0,63 (-q12)        | 0,500        | 7,580       | Z' S7                   |
| q                                                                           | 1,62 (q14)      | 1,62 (q14)          | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                           | <b>X: 22,54</b> | <b>kN Z: -12,66</b> | <b>kN</b>    |             |                         |
| -                                                                           | -               | -                   | m            | m           | - -                     |

**B.G.7: WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)****B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|------------------------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.8: Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                     |              |             |                         |
| q                                                                                                    | 1,34 (-q10)     | 1,34 (-q10)         | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                                    | 0,00 (q17)      | 0,00 (q17)          | 0,000        | 1,564       | Z' S11                  |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,564       | Z' S11                  |
| q                                                                                                    | 0,00 (q18)      | 0,00 (q18)          | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                                    | 0,63 (q3)       | 0,63 (q3)           | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                                    | -6,88           |                     |              |             | Z K10                   |
| N                                                                                                    | 8,65            |                     |              |             | X K10                   |
| q                                                                                                    | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                                    | -1,87 (q6)      | -1,87 (q6)          | 0,000        | 0,500       | Z' S7                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,000        | 0,500       | Z' S7                   |
| q                                                                                                    | -0,71 (q7)      | -0,71 (q7)          | 0,500        | 7,580       | Z' S7                   |
| q                                                                                                    | -0,63 (-q3)     | -0,63 (-q3)         | 0,500        | 7,580       | Z' S7                   |
| q                                                                                                    | 1,62 (q5)       | 1,62 (q5)           | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                                    | <b>X: 17,58</b> | <b>kN Z: -26,32</b> | <b>kN</b>    |             |                         |

- - - m m - -

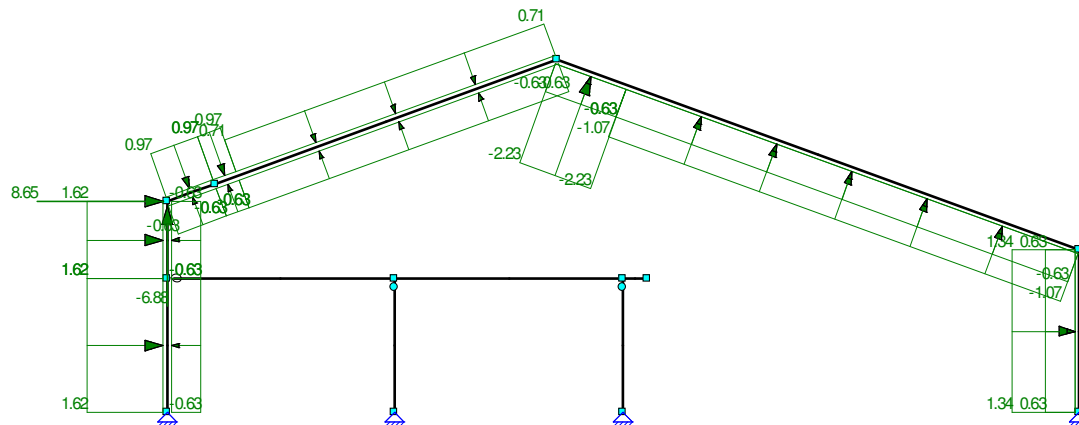
B.G.8: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

| Type                                                                                          | Beginwaarde | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf van knoop |
|-----------------------------------------------------------------------------------------------|-------------|--------------|--------------|-------------|--------------------------|
| B.G.9: Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) |             |              |              |             |                          |
| q                                                                                             | 1,34 (-q10) | 1,34 (-q10)  | 0,000        | 3,400(L)    | Z' S10                   |
| q                                                                                             | -2,23 (q8)  | -2,23 (q8)   | 0,000        | 1,564       | Z' S11                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 1,564       | Z' S11                   |
| q                                                                                             | -1,07 (q9)  | -1,07 (q9)   | 1,564        | 11,570(L)   | Z' S11                   |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 1,564        | 11,570(L)   | Z' S11                   |
| q                                                                                             | 0,63 (q3)   | 0,63 (q3)    | 0,000        | 3,400(L)    | Z' S10                   |
| N                                                                                             | -6,88       |              |              |             | Z K10                    |
| N                                                                                             | 8,65        |              |              |             | X K10                    |
| q                                                                                             | 0,97 (q15)  | 0,97 (q15)   | 0,000        | 1,064(L)    | Z' S6                    |
| q                                                                                             | 0,97 (q15)  | 0,97 (q15)   | 0,000        | 0,500       | Z' S7                    |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 1,064(L)    | Z' S4-S6                 |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,000        | 0,500       | Z' S7                    |
| q                                                                                             | 0,71 (q16)  | 0,71 (q16)   | 0,500        | 7,580       | Z' S7                    |
| q                                                                                             | -0,63 (-q3) | -0,63 (-q3)  | 0,500        | 7,580       | Z' S7                    |
| q                                                                                             | 1,62 (q5)   | 1,62 (q5)    | 0,000        | 2,800(L)    | Z' S4-S5                 |
| Som lasten                                                                                    | X: 27,38    | kN Z: -25,99 | kN           |             |                          |
| -                                                                                             | -           | -            | m            | m           | - -                      |

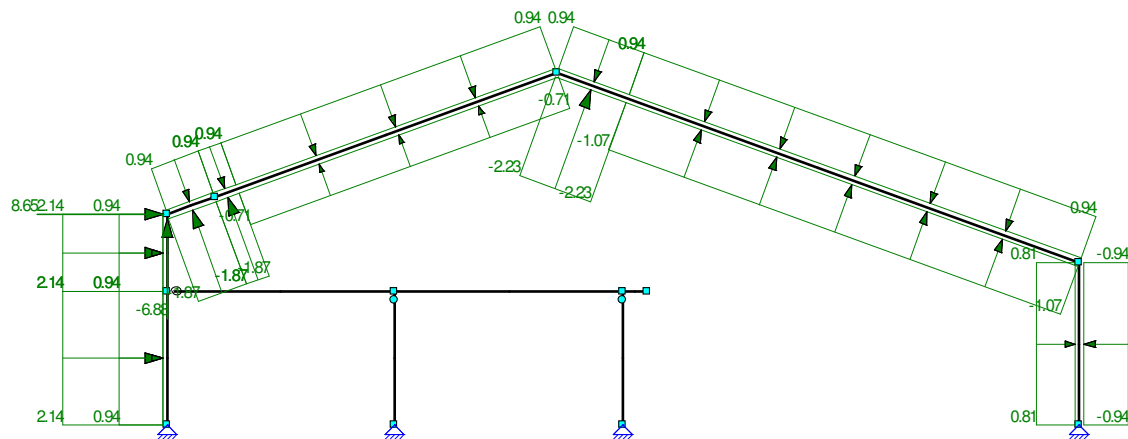
B.G.9: WINDBELASTING VAN LINKS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK

| Type                                               | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.10: Windbelasting van Links + Onderdruk</b> |                 |                    |              |             |                         |
| q                                                  | -2,23 (q26)     | -2,23 (q26)        | 0,000        | 1,564       | Z' S11                  |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z' S11                  |
| q                                                  | -1,07 (q27)     | -1,07 (q27)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                  | 0,81 (-q29)     | 0,81 (-q29)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                  | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                  | -6,88           |                    |              |             | Z K10                   |
| N                                                  | 8,65            |                    |              |             | X K10                   |
| q                                                  | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                  | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 0,500       | Z' S7                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 0,500       | Z' S7                   |
| q                                                  | -0,71 (q25)     | -0,71 (q25)        | 0,500        | 7,580       | Z' S7                   |
| q                                                  | 0,94 (-q21)     | 0,94 (-q21)        | 0,500        | 7,580       | Z' S7                   |
| q                                                  | 2,14 (q22)      | 2,14 (q22)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                  | <b>X: 22,94</b> | <b>kN Z: -9,79</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                  | -               | -                  | m            | m           | - -                     |

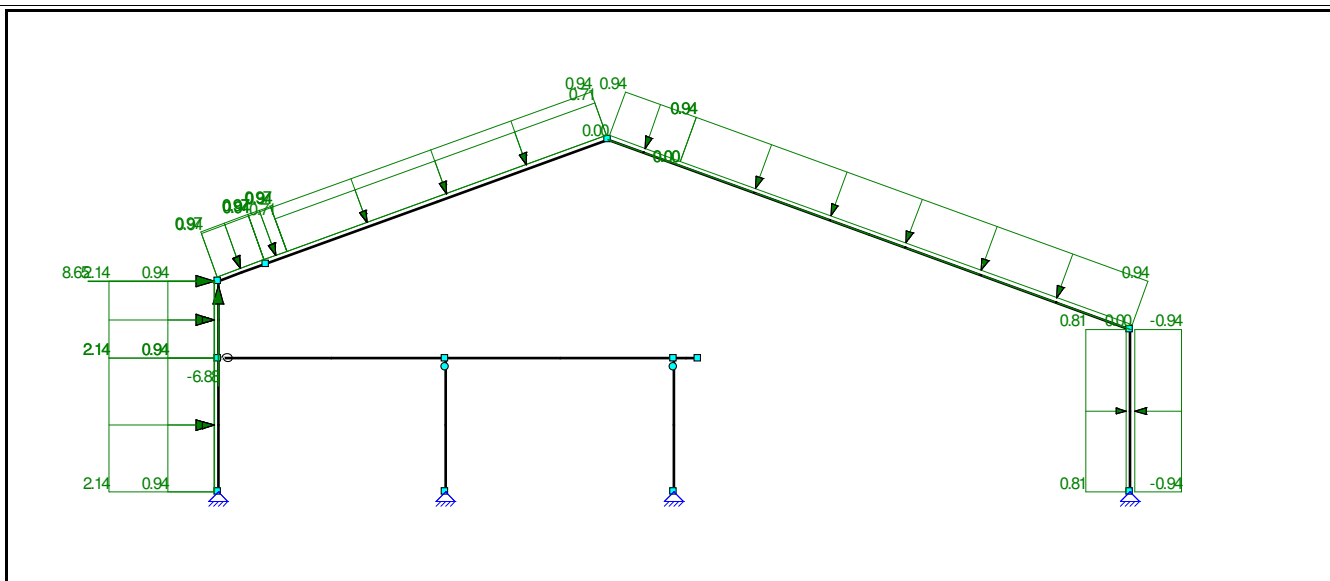
## B.G.10: WINDBELASTING VAN LINKS + ONDERDRUK



## B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)

| Type                                                        | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.11: Windbelasting van Links + Onderdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                           | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       | Z' S11                  |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,564       | Z' S11                  |
| q                                                           | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                           | 0,81 (-q38)     | 0,81 (-q38)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                           | -0,94 (q30)     | -0,94 (q30)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                           | -6,88           |                    |              |             | Z K10                   |
| N                                                           | 8,65            |                    |              |             | X K10                   |
| q                                                           | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                           | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 0,500       | Z' S7                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 0,500       | Z' S7                   |
| q                                                           | 0,71 (q34)      | 0,71 (q34)         | 0,500        | 7,580       | Z' S7                   |
| q                                                           | 0,94 (-q30)     | 0,94 (-q30)        | 0,500        | 7,580       | Z' S7                   |
| q                                                           | 2,14 (q31)      | 2,14 (q31)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                           | <b>X: 23,06</b> | <b>kN Z: 17,19</b> | <b>kN</b>    |             |                         |
| -                                                           | -               | -                  | m            | m           | - -                     |

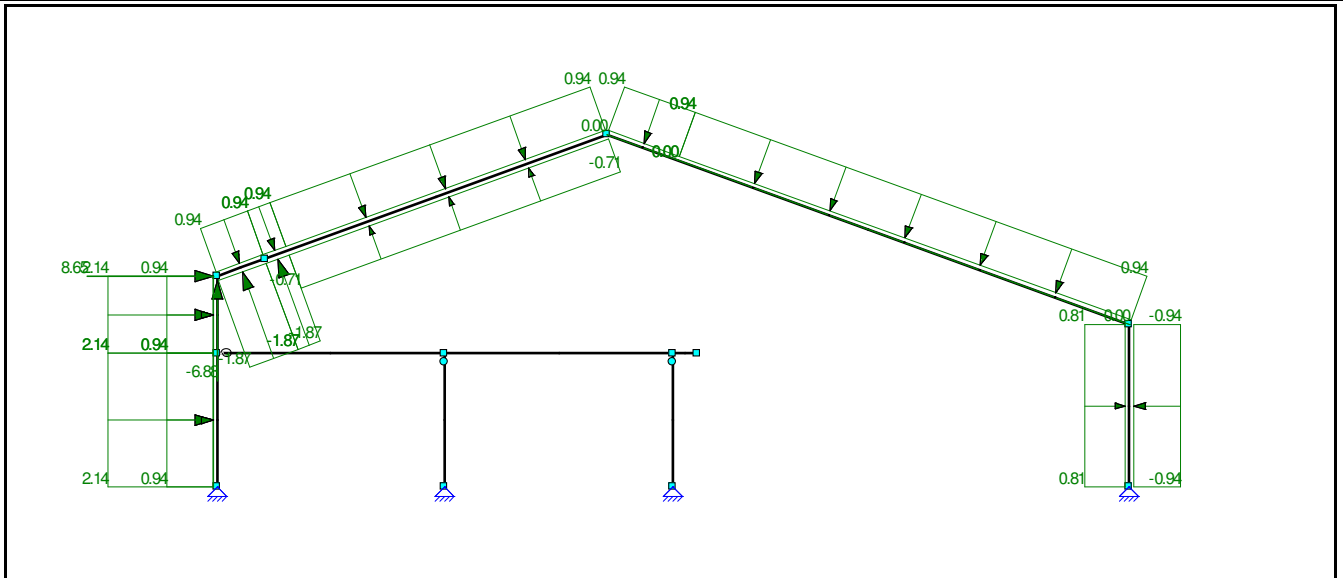
B.G.11: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)



B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)

| Type                                                                          | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| B.G.12: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) |                 |                   |              |             |                         |
| q                                                                             | 0,00 (q35)      | 0,00 (q35)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                             | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S11                  |
| q                                                                             | 0,00 (q36)      | 0,00 (q36)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                             | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                             | 0,81 (-q29)     | 0,81 (-q29)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                             | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                             | -6,88           |                   |              |             | Z K10                   |
| N                                                                             | 8,65            |                   |              |             | X K10                   |
| q                                                                             | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                             | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 0,500       | Z' S7                   |
| q                                                                             | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                             | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S7                   |
| q                                                                             | -0,71 (q25)     | -0,71 (q25)       | 0,500        | 7,580       | Z' S7                   |
| q                                                                             | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S7                   |
| q                                                                             | 2,14 (q22)      | 2,14 (q22)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                             | <b>X: 18,10</b> | <b>kN Z: 3,53</b> | <b>kN</b>    |             |                         |
| -                                                                             | -               | -                 | m            | m           | - -                     |

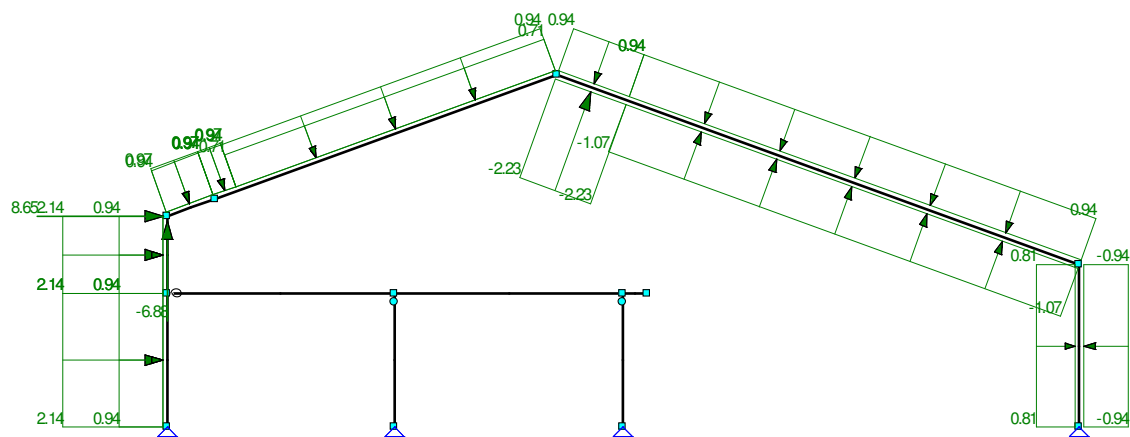
B.G.12: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



**B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.13: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                 |                   |              |             |                         |
| q                                                                                    | -2,23 (q26)     | -2,23 (q26)       | 0,000        | 1,564       | Z' S11                  |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S11                  |
| q                                                                                    | -1,07 (q27)     | -1,07 (q27)       | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                    | 0,81 (-q29)     | 0,81 (-q29)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                    | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                    | -6,88           |                   |              |             | Z K10                   |
| N                                                                                    | 8,65            |                   |              |             | X K10                   |
| q                                                                                    | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                    | 0,97 (q33)      | 0,97 (q33)        | 0,000        | 0,500       | Z' S7                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S7                   |
| q                                                                                    | 0,71 (q34)      | 0,71 (q34)        | 0,500        | 7,580       | Z' S7                   |
| q                                                                                    | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S7                   |
| q                                                                                    | 2,14 (q22)      | 2,14 (q22)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                    | <b>X: 27,90</b> | <b>kN Z: 3,87</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                 | m            | m           | - -                     |

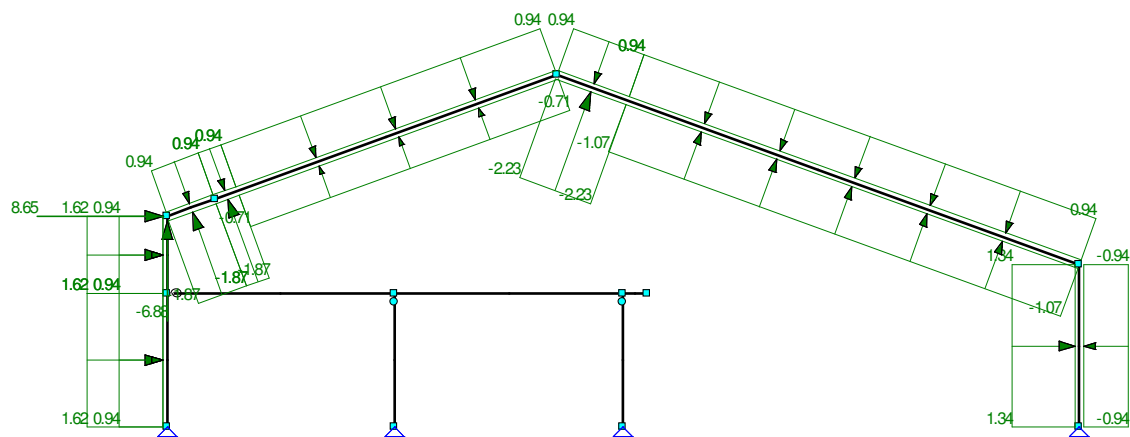
B.G.13: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)

| Type                                                                 | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.14: Windbelasting van Links + Onderdruk (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                    | 1,34 (-q28)     | 1,34 (-q28)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                    | -2,23 (q26)     | -2,23 (q26)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                    | -1,07 (q27)     | -1,07 (q27)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                    | -0,94 (q21)     | -0,94 (q21)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                    | -6,88           |                    |              |             | Z K10                   |
| N                                                                    | 8,65            |                    |              |             | X K10                   |
| q                                                                    | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                    | -1,87 (q24)     | -1,87 (q24)        | 0,000        | 0,500       | Z' S7                   |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,000        | 0,500       | Z' S7                   |
| q                                                                    | -0,71 (q25)     | -0,71 (q25)        | 0,500        | 7,580       | Z' S7                   |
| q                                                                    | 0,94 (-q21)     | 0,94 (-q21)        | 0,500        | 7,580       | Z' S7                   |
| q                                                                    | 1,62 (q23)      | 1,62 (q23)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                    | <b>X: 22,42</b> | <b>kN Z: -9,79</b> | <b>kN</b>    |             |                         |
| -                                                                    | -               | -                  | m            | m           | - -                     |

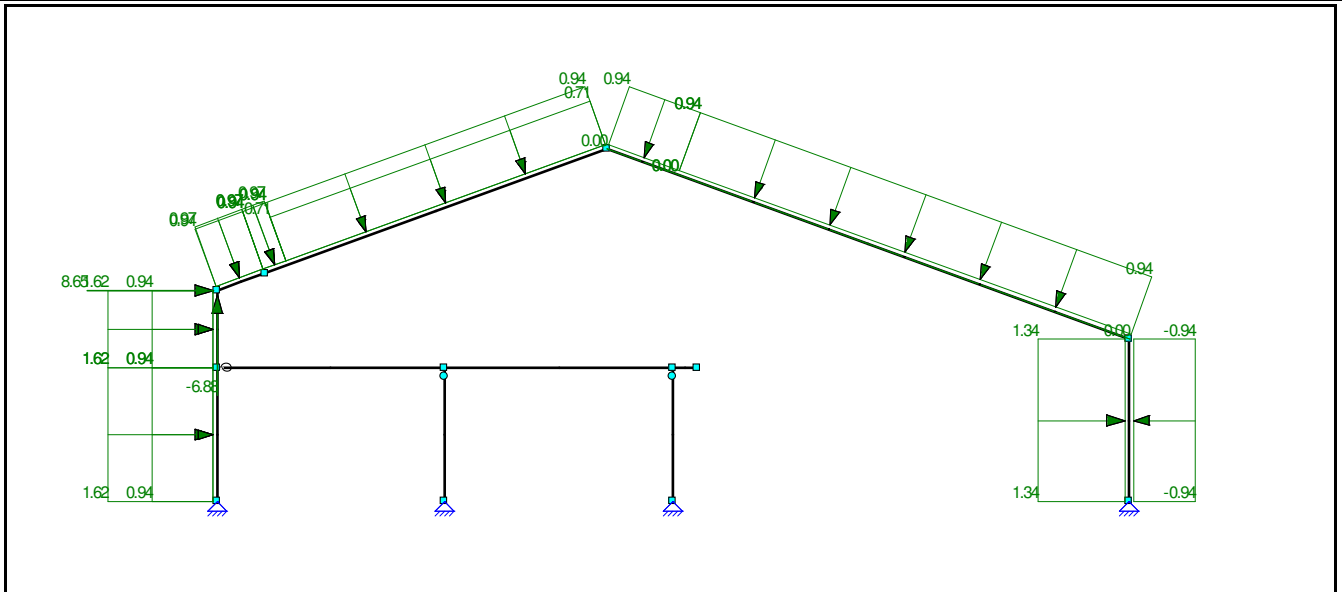
B.G.14: WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)



B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)

| Type                                                                          | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.15: Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                             | 1,34 (-q37)     | 1,34 (-q37)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                             | 0,00 (q35)      | 0,00 (q35)         | 0,000        | 1,564       | Z' S11                  |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                             | 0,00 (q36)      | 0,00 (q36)         | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                             | -0,94 (q30)     | -0,94 (q30)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                             | -6,88           |                    |              |             | Z K10                   |
| N                                                                             | 8,65            |                    |              |             | X K10                   |
| q                                                                             | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                             | 0,97 (q33)      | 0,97 (q33)         | 0,000        | 0,500       | Z' S7                   |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,000        | 0,500       | Z' S7                   |
| q                                                                             | 0,71 (q34)      | 0,71 (q34)         | 0,500        | 7,580       | Z' S7                   |
| q                                                                             | 0,94 (-q30)     | 0,94 (-q30)        | 0,500        | 7,580       | Z' S7                   |
| q                                                                             | 1,62 (q32)      | 1,62 (q32)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                             | <b>X: 22,54</b> | <b>kN Z: 17,19</b> | <b>kN</b>    |             |                         |
| -                                                                             | -               | -                  | m            | m           | - -                     |

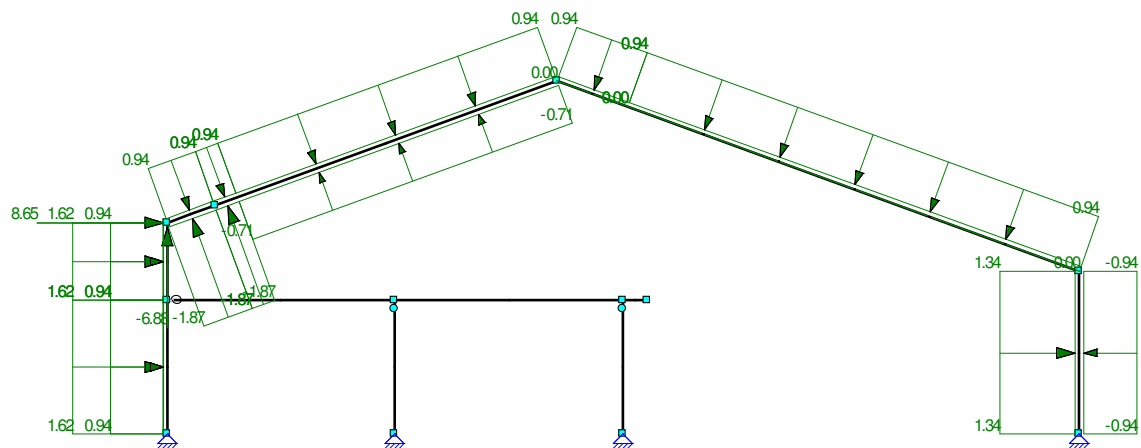
B.G.15: WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



**B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)**

| Type                                                                                                   | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.16: Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                   |              |             |                         |
| q                                                                                                      | 1,34 (-q28)     | 1,34 (-q28)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                                      | 0,00 (q35)      | 0,00 (q35)        | 0,000        | 1,564       | Z' S11                  |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,564       | Z' S11                  |
| q                                                                                                      | 0,00 (q36)      | 0,00 (q36)        | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 1,564        | 11,570(L)   | Z' S11                  |
| q                                                                                                      | -0,94 (q21)     | -0,94 (q21)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                                      | -6,88           |                   |              |             | Z K10                   |
| N                                                                                                      | 8,65            |                   |              |             | X K10                   |
| q                                                                                                      | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                                      | -1,87 (q24)     | -1,87 (q24)       | 0,000        | 0,500       | Z' S7                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,000        | 0,500       | Z' S7                   |
| q                                                                                                      | -0,71 (q25)     | -0,71 (q25)       | 0,500        | 7,580       | Z' S7                   |
| q                                                                                                      | 0,94 (-q21)     | 0,94 (-q21)       | 0,500        | 7,580       | Z' S7                   |
| q                                                                                                      | 1,62 (q23)      | 1,62 (q23)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                                      | <b>X: 17,58</b> | <b>kN Z: 3,53</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -               | -                 | m            | m           | - -                     |

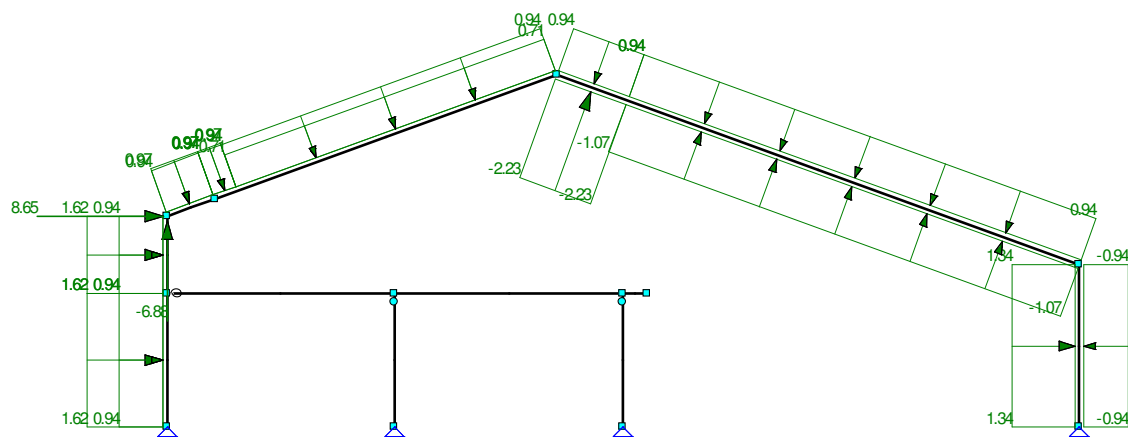
B.G.16: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

| Type                                                                                            | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting | Staat of knoop |
|-------------------------------------------------------------------------------------------------|-------------|-------------|--------------|-------------|----------|----------------|
| B.G.17: Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) |             |             |              |             |          |                |
| q                                                                                               | 1,34 (-q28) | 1,34 (-q28) | 0,000        | 3,400(L)    | Z'       | S10            |
| q                                                                                               | -2,23 (q26) | -2,23 (q26) | 0,000        | 1,564       | Z'       | S11            |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,564       | Z'       | S11            |
| q                                                                                               | -1,07 (q27) | -1,07 (q27) | 1,564        | 11,570(L)   | Z'       | S11            |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 1,564        | 11,570(L)   | Z'       | S11            |
| q                                                                                               | -0,94 (q21) | -0,94 (q21) | 0,000        | 3,400(L)    | Z'       | S10            |
| N                                                                                               | -6,88       |             |              |             | Z        | K10            |
| N                                                                                               | 8,65        |             |              |             | X        | K10            |
| q                                                                                               | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 1,064(L)    | Z'       | S6             |
| q                                                                                               | 0,97 (q33)  | 0,97 (q33)  | 0,000        | 0,500       | Z'       | S7             |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 1,064(L)    | Z'       | S4-S6          |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,000        | 0,500       | Z'       | S7             |
| q                                                                                               | 0,71 (q34)  | 0,71 (q34)  | 0,500        | 7,580       | Z'       | S7             |
| q                                                                                               | 0,94 (-q21) | 0,94 (-q21) | 0,500        | 7,580       | Z'       | S7             |
| q                                                                                               | 1,62 (q23)  | 1,62 (q23)  | 0,000        | 2,800(L)    | Z'       | S4-S5          |
| Som lasten                                                                                      | X: 27,38    | kN Z: 3,87  | kN           |             |          |                |
| -                                                                                               | -           | -           | m            | m           | -        | -              |

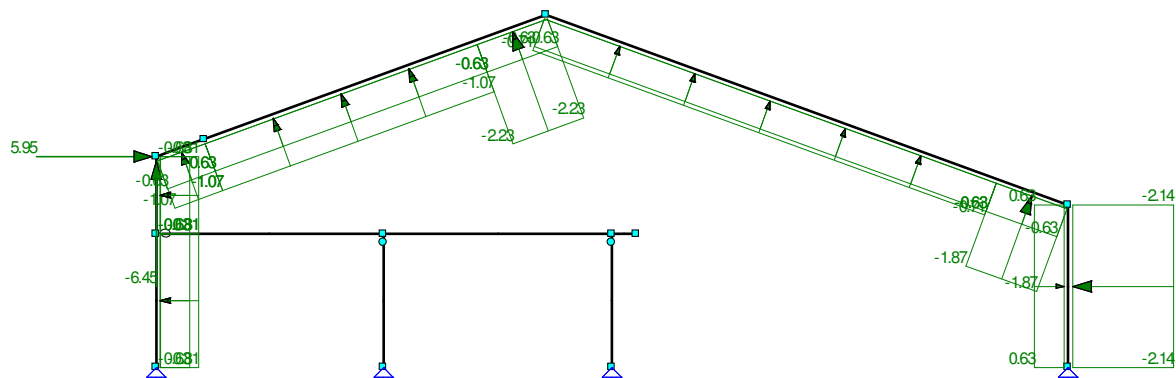
B.G.17: WINDBELASTING VAN LINKS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK

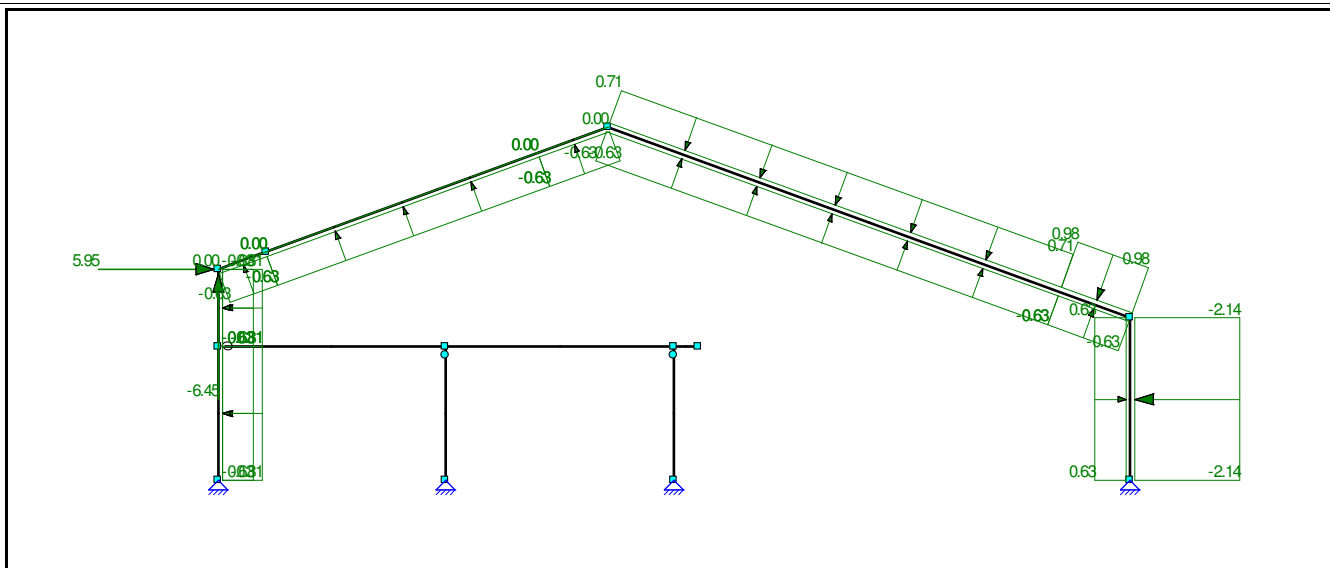
| Type                                               | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.18: Windbelasting van Rechts + Overdruk</b> |                 |                     |              |             |                         |
| q                                                  | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S11                  |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S11                  |
| q                                                  | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                  | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                  | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                  | -6,45           |                     |              |             | Z K10                   |
| N                                                  | 5,95            |                     |              |             | X K10                   |
| q                                                  | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                  | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 6,016       | Z' S7                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z' S7                   |
| q                                                  | -2,23 (q44)     | -2,23 (q44)         | 6,016        | 7,580       | Z' S7                   |
| q                                                  | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z' S7                   |
| q                                                  | -0,81 (q41)     | -0,81 (q41)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                  | <b>X: -5,24</b> | <b>kN Z: -38,24</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                  | -               | -                   | m            | m           | - -                     |

B.G.18: WINDBELASTING VAN RECHTS + OVERDRUK



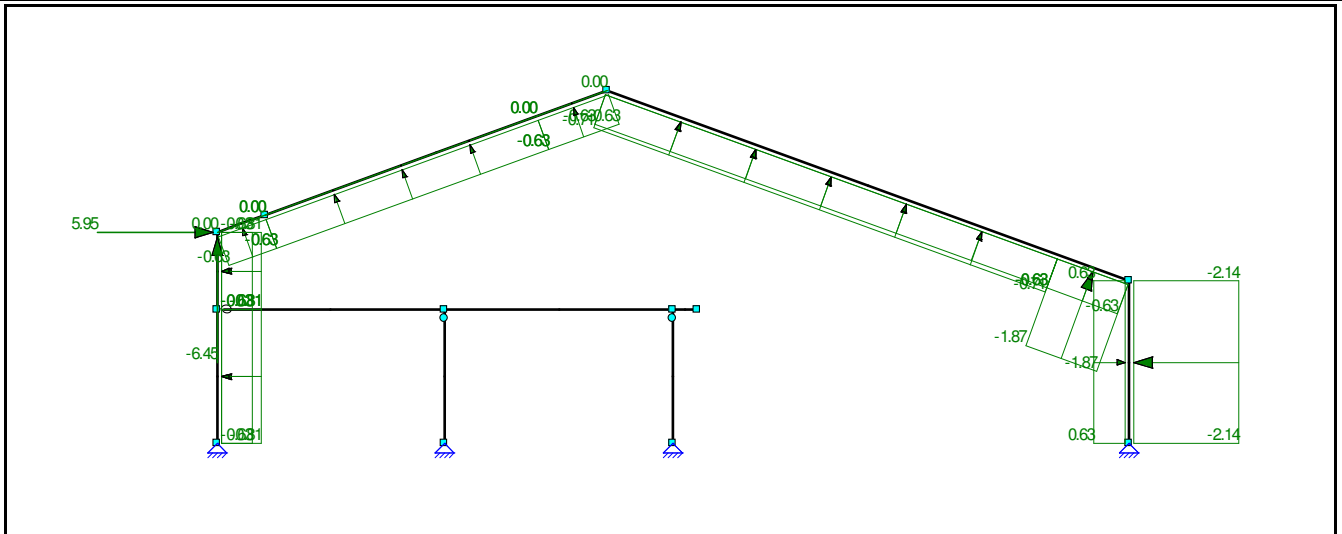
**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)**

| Type                                                        | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.19: Windbelasting van Rechts + Overdruk (2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                           | 0,71 (q54)      | 0,71 (q54)          | 0,000        | 10,006      | Z' S11                  |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 10,006      | Z' S11                  |
| q                                                           | 0,98 (q55)      | 0,98 (q55)          | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                           | -2,14 (-q56)    | -2,14 (-q56)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                           | 0,63 (q48)      | 0,63 (q48)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                           | -6,45           |                     |              |             | Z K10                   |
| N                                                           | 5,95            |                     |              |             | X K10                   |
| q                                                           | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                           | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 6,016       | Z' S7                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 6,016       | Z' S7                   |
| q                                                           | 0,00 (q53)      | 0,00 (q53)          | 6,016        | 7,580       | Z' S7                   |
| q                                                           | -0,63 (-q48)    | -0,63 (-q48)        | 6,016        | 7,580       | Z' S7                   |
| q                                                           | -0,81 (q50)     | -0,81 (q50)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                           | <b>X: -7,85</b> | <b>kN Z: -10,27</b> | <b>kN</b>    |             |                         |
| -                                                           | -               | -                   | m            | m           | - -                     |

**B.G.19: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)****B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)**

| Type                                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.20: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)</b> |                 |                     |              |             |                         |
| q                                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z' S11                  |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z' S11                  |
| q                                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                    | -2,14 (-q47)    | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                    | -6,45           |                     |              |             | Z K10                   |
| N                                                                                    | 5,95            |                     |              |             | X K10                   |
| q                                                                                    | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                    | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 6,016       | Z' S7                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                                    | 0,00 (q53)      | 0,00 (q53)          | 6,016        | 7,580       | Z' S7                   |
| q                                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                                    | -0,81 (q41)     | -0,81 (q41)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                    | <b>X: -1,46</b> | <b>kN Z: -27,85</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -               | -                   | m            | m           | - -                     |

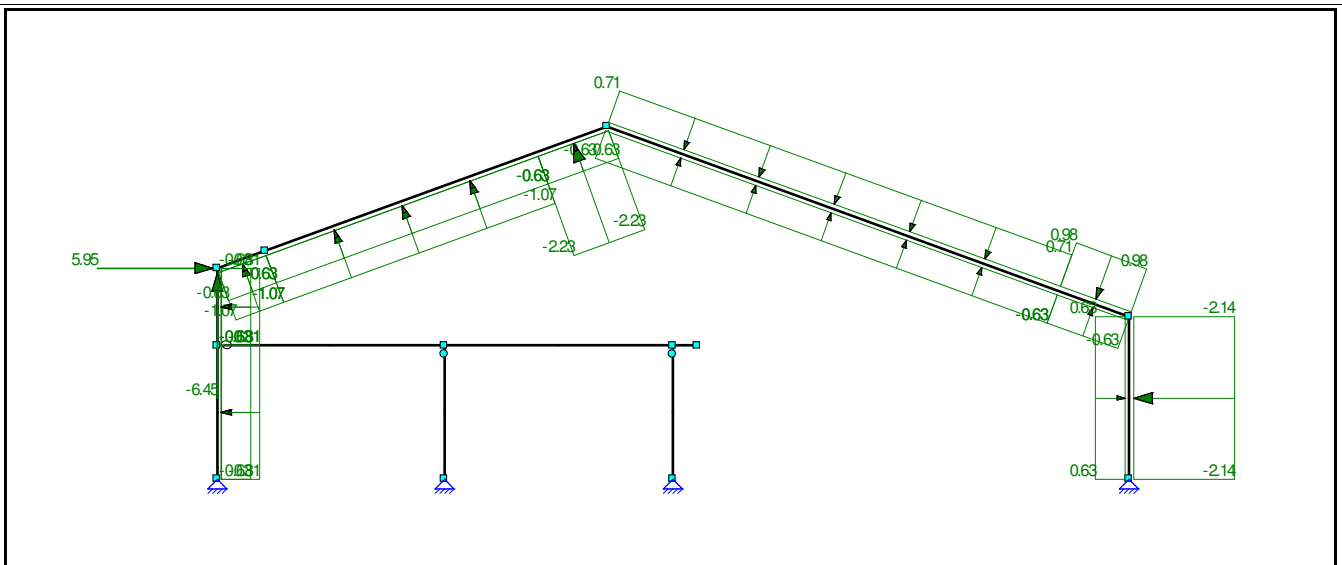
B.G.20: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



**B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)**

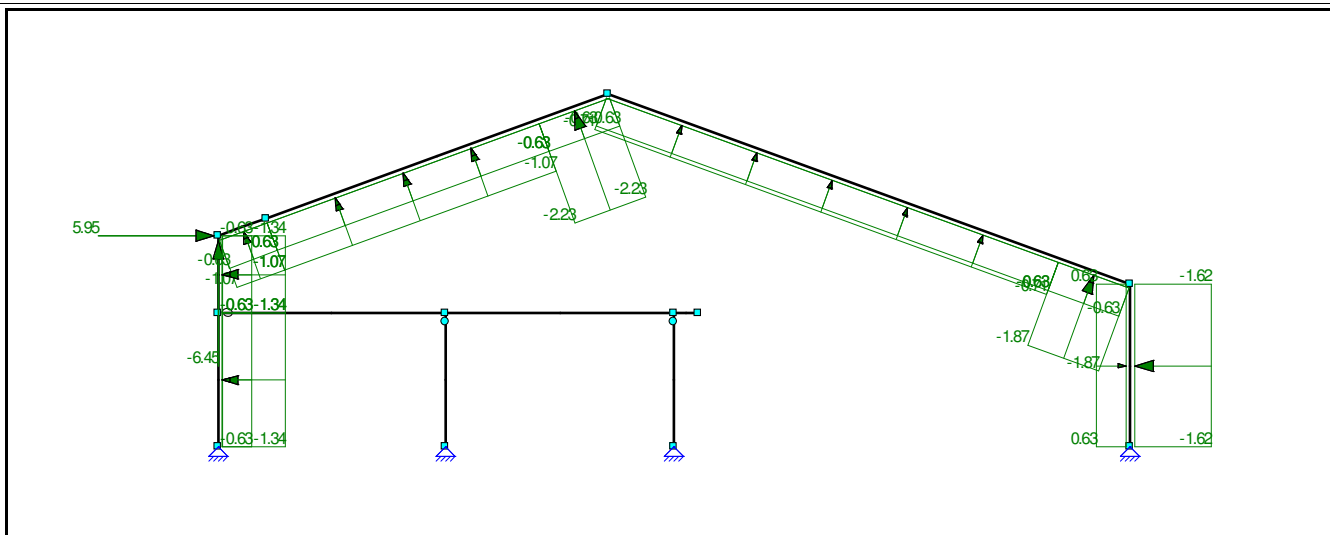
| Type                                                                                 | Beginwaarde      | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------|------------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.21: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)</b> |                  |                     |              |             |                         |
| q                                                                                    | 0,71 (q54)       | 0,71 (q54)          | 0,000        | 10,006      | Z' S11                  |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 10,006      | Z' S11                  |
| q                                                                                    | 0,98 (q55)       | 0,98 (q55)          | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                    | -2,14 (-q47)     | -2,14 (-q47)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                    | 0,63 (q39)       | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                    | -6,45            |                     |              |             | Z K10                   |
| N                                                                                    | 5,95             |                     |              |             | X K10                   |
| q                                                                                    | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                    | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 6,016       | Z' S7                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                                    | -2,23 (q44)      | -2,23 (q44)         | 6,016        | 7,580       | Z' S7                   |
| q                                                                                    | -0,63 (-q39)     | -0,63 (-q39)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                                    | -0,81 (q41)      | -0,81 (q41)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                    | <b>X: -11,62</b> | <b>kN Z: -20,66</b> | <b>kN</b>    |             |                         |
| -                                                                                    | -                | -                   | m            | m           | - -                     |

B.G.21: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



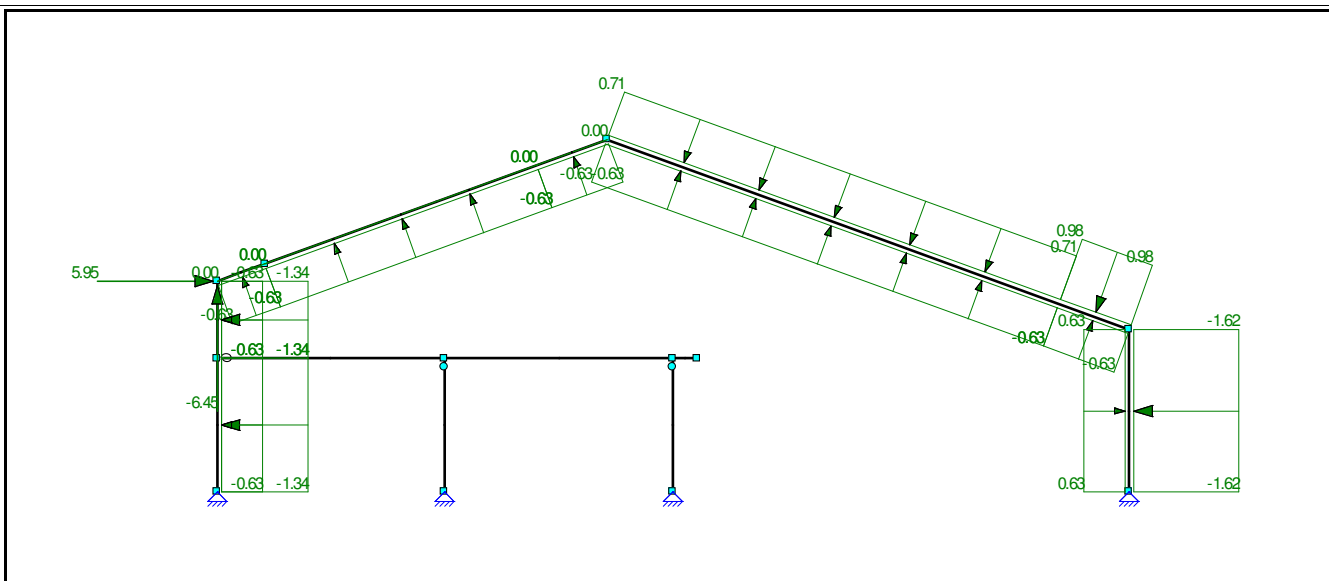
**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)**

| Type                                                                 | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting   | Staaf of knoop |
|----------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|------------|----------------|
| <b>B.G.22: Windbelasting van Rechts + Overdruk (2e corr. factor)</b> |                 |                     |              |             |            |                |
| q                                                                    | -1,62 (-q42)    | -1,62 (-q42)        | 0,000        | 3,400(L)    | Z'         | S10            |
| q                                                                    | -0,71 (q45)     | -0,71 (q45)         | 0,000        | 10,006      | Z'         | S11            |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 10,006      | Z'         | S11            |
| q                                                                    | -1,87 (q46)     | -1,87 (q46)         | 10,006       | 11,570(L)   | Z'         | S11            |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z'         | S11            |
| q                                                                    | 0,63 (q39)      | 0,63 (q39)          | 0,000        | 3,400(L)    | Z'         | S10            |
| N                                                                    | -6,45           |                     |              |             | Z          | K10            |
| N                                                                    | 5,95            |                     |              |             | X          | K10            |
| q                                                                    | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 1,064(L)    | Z'         | S6             |
| q                                                                    | -1,07 (q43)     | -1,07 (q43)         | 0,000        | 6,016       | Z'         | S7             |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z'         | S4-S6          |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 0,000        | 6,016       | Z'         | S7             |
| q                                                                    | -2,23 (q44)     | -2,23 (q44)         | 6,016        | 7,580       | Z'         | S7             |
| q                                                                    | -0,63 (-q39)    | -0,63 (-q39)        | 6,016        | 7,580       | Z'         | S7             |
| q                                                                    | -1,34 (q40)     | -1,34 (q40)         | 0,000        | 2,800(L)    | Z'         | S4-S5          |
| <b>Som lasten</b>                                                    | <b>X: -5,76</b> | <b>kN Z: -38,24</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b> |                |
| -                                                                    | -               | -                   | m            | m           | - -        |                |

**B.G.22: WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)****B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                          | Beginwaarde     | Eindwaarde          | Beginafstand | Eindafstand | Richting   | Staaf of knoop |
|-------------------------------------------------------------------------------|-----------------|---------------------|--------------|-------------|------------|----------------|
| <b>B.G.23: Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)</b> |                 |                     |              |             |            |                |
| q                                                                             | -1,62 (-q51)    | -1,62 (-q51)        | 0,000        | 3,400(L)    | Z'         | S10            |
| q                                                                             | 0,71 (q54)      | 0,71 (q54)          | 0,000        | 10,006      | Z'         | S11            |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 10,006      | Z'         | S11            |
| q                                                                             | 0,98 (q55)      | 0,98 (q55)          | 10,006       | 11,570(L)   | Z'         | S11            |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)        | 10,006       | 11,570(L)   | Z'         | S11            |
| q                                                                             | 0,63 (q48)      | 0,63 (q48)          | 0,000        | 3,400(L)    | Z'         | S10            |
| N                                                                             | -6,45           |                     |              |             | Z          | K10            |
| N                                                                             | 5,95            |                     |              |             | X          | K10            |
| q                                                                             | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 1,064(L)    | Z'         | S6             |
| q                                                                             | 0,00 (q52)      | 0,00 (q52)          | 0,000        | 6,016       | Z'         | S7             |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 1,064(L)    | Z'         | S4-S6          |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)        | 0,000        | 6,016       | Z'         | S7             |
| q                                                                             | 0,00 (q53)      | 0,00 (q53)          | 6,016        | 7,580       | Z'         | S7             |
| q                                                                             | -0,63 (-q48)    | -0,63 (-q48)        | 6,016        | 7,580       | Z'         | S7             |
| q                                                                             | -1,34 (q49)     | -1,34 (q49)         | 0,000        | 2,800(L)    | Z'         | S4-S5          |
| <b>Som lasten</b>                                                             | <b>X: -8,37</b> | <b>kN Z: -10,27</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b> |                |
| -                                                                             | -               | -                   | m            | m           | - -        |                |

B.G.23: WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)

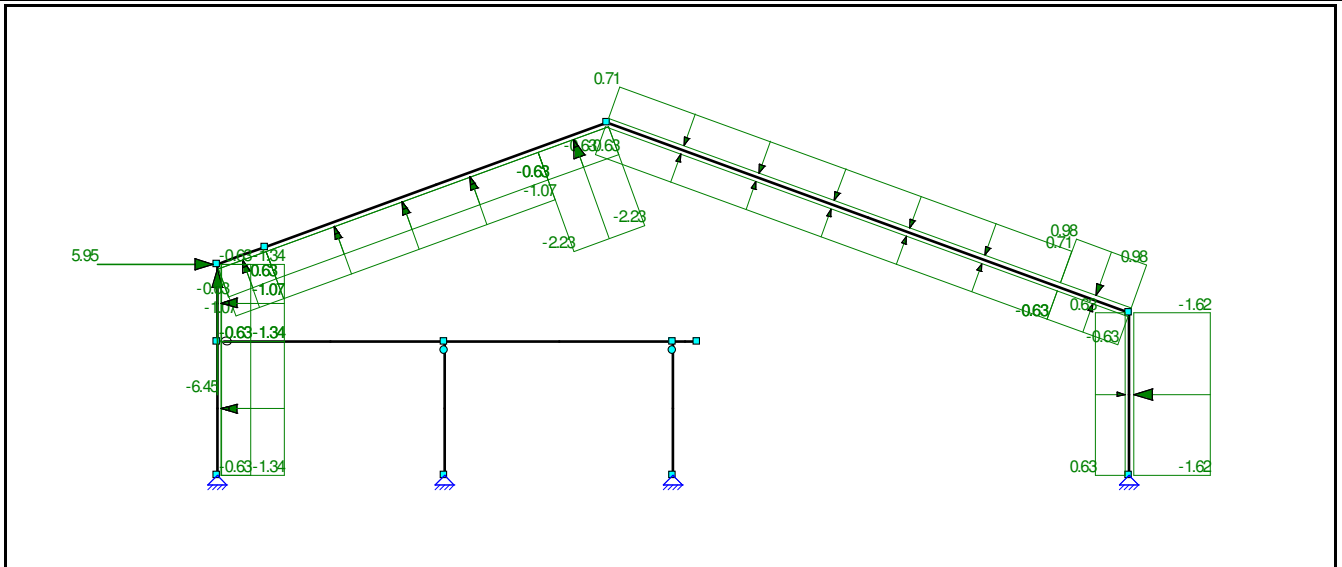


B.G.24: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

| Type                                                                                            | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.24: Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) |              |              |              |             |                         |
| q                                                                                               | -1,62 (-q42) | -1,62 (-q42) | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                               | -0,71 (q45)  | -0,71 (q45)  | 0,000        | 10,006      | Z' S11                  |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 10,006      | Z' S11                  |
| q                                                                                               | -1,87 (q46)  | -1,87 (q46)  | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                               | 0,63 (q39)   | 0,63 (q39)   | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                               | -6,45        |              |              |             | Z K10                   |
| N                                                                                               | 5,95         |              |              |             | X K10                   |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                               | 0,00 (q52)   | 0,00 (q52)   | 0,000        | 6,016       | Z' S7                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 0,000        | 6,016       | Z' S7                   |
| q                                                                                               | 0,00 (q53)   | 0,00 (q53)   | 6,016        | 7,580       | Z' S7                   |
| q                                                                                               | -0,63 (-q39) | -0,63 (-q39) | 6,016        | 7,580       | Z' S7                   |
| q                                                                                               | -1,34 (q40)  | -1,34 (q40)  | 0,000        | 2,800(L)    | Z' S4-S5                |
| Som lasten                                                                                      | X: -1,99     | kN Z: -27,85 | kN           |             |                         |
| -                                                                                               | -            | -            | m            | m           | - -                     |

| Type                                                                                                   | Beginwaarde      | Eindwaarde          | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------|-------------|-------------------------|
| <b>B.G.25: Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)</b> |                  |                     |              |             |                         |
| q                                                                                                      | -1,62 (-q42)     | -1,62 (-q42)        | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                                      | 0,71 (q54)       | 0,71 (q54)          | 0,000        | 10,006      | Z' S11                  |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 10,006      | Z' S11                  |
| q                                                                                                      | 0,98 (q55)       | 0,98 (q55)          | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                                      | 0,63 (q39)       | 0,63 (q39)          | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                                      | -6,45            |                     |              |             | Z K10                   |
| N                                                                                                      | 5,95             |                     |              |             | X K10                   |
| q                                                                                                      | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                                      | -1,07 (q43)      | -1,07 (q43)         | 0,000        | 6,016       | Z' S7                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                                                      | -2,23 (q44)      | -2,23 (q44)         | 6,016        | 7,580       | Z' S7                   |
| q                                                                                                      | -0,63 (-q39)     | -0,63 (-q39)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                                                      | -1,34 (q40)      | -1,34 (q40)         | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                                      | <b>X: -12,14</b> | <b>kN Z: -20,66</b> | <b>kN</b>    |             |                         |
| -                                                                                                      | -                | -                   | m            | m           | - -                     |

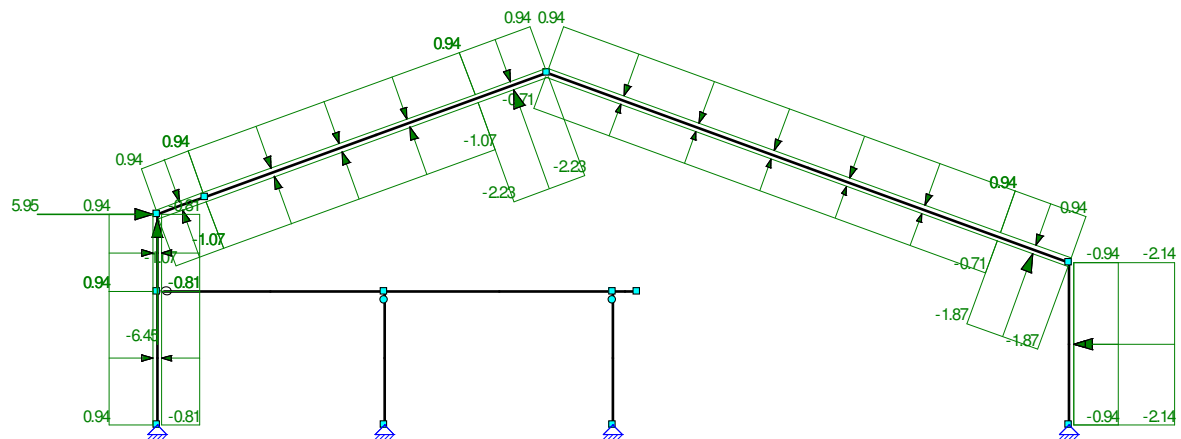
B.G.25: WINDBELASTING VAN RECHTS + OVERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK

| Type                                                | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|-----------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.26: Windbelasting van Rechts + Onderdruk</b> |                 |                    |              |             |                         |
| q                                                   | -0,71 (q63)     | -0,71 (q63)        | 0,000        | 10,006      | Z' S11                  |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 10,006      | Z' S11                  |
| q                                                   | -1,87 (q64)     | -1,87 (q64)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                   | -2,14 (-q65)    | -2,14 (-q65)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                   | -0,94 (q57)     | -0,94 (q57)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                   | -6,45           |                    |              |             | Z K10                   |
| N                                                   | 5,95            |                    |              |             | X K10                   |
| q                                                   | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                   | -1,07 (q61)     | -1,07 (q61)        | 0,000        | 6,016       | Z' S7                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 0,000        | 6,016       | Z' S7                   |
| q                                                   | -2,23 (q62)     | -2,23 (q62)        | 6,016        | 7,580       | Z' S7                   |
| q                                                   | 0,94 (-q57)     | 0,94 (-q57)        | 6,016        | 7,580       | Z' S7                   |
| q                                                   | -0,81 (q59)     | -0,81 (q59)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                   | <b>X: -5,24</b> | <b>kN Z: -8,38</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                   | -               | -                  | m            | m           | - -                     |

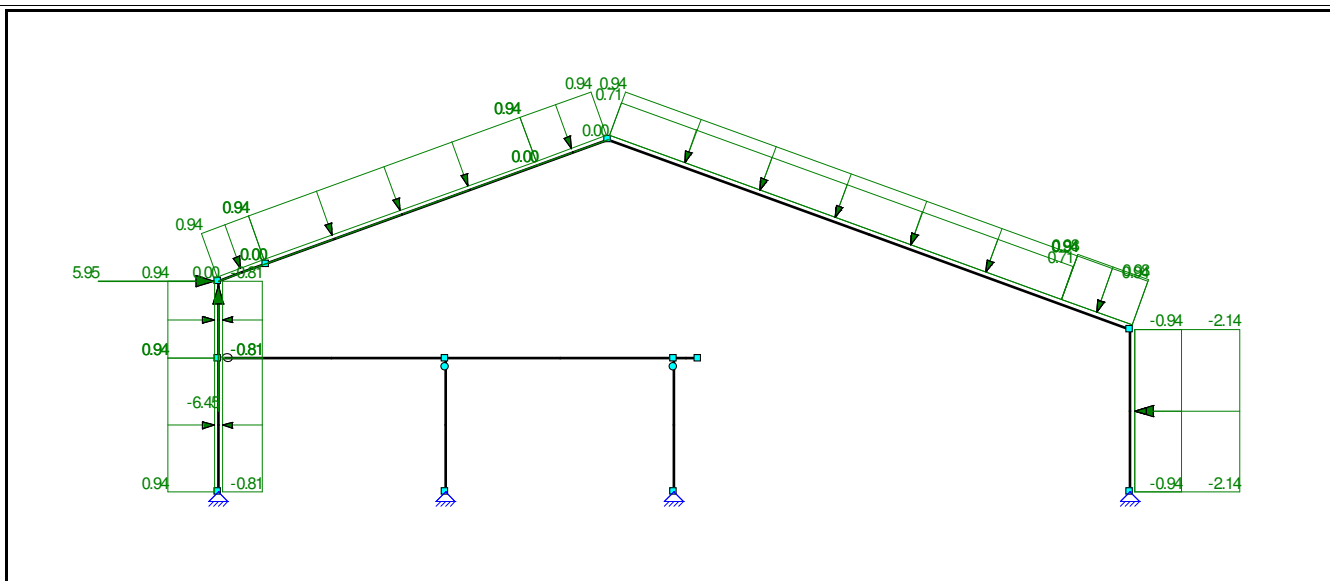
### B.G.26: WINDBELASTING VAN RECHTS + ONDERDRUK



### B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)

| Type                                                         | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.27: Windbelasting van Rechts + Onderdruk (2e Cpe)</b> |                 |                    |              |             |                         |
| q                                                            | 0,71 (q72)      | 0,71 (q72)         | 0,000        | 10,006      | Z' S11                  |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 10,006      | Z' S11                  |
| q                                                            | 0,98 (q73)      | 0,98 (q73)         | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                            | -2,14 (-q74)    | -2,14 (-q74)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                            | -0,94 (q66)     | -0,94 (q66)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                            | -6,45           |                    |              |             | Z K10                   |
| N                                                            | 5,95            |                    |              |             | X K10                   |
| q                                                            | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                            | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 6,016       | Z' S7                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 6,016       | Z' S7                   |
| q                                                            | 0,00 (q71)      | 0,00 (q71)         | 6,016        | 7,580       | Z' S7                   |
| q                                                            | 0,94 (-q66)     | 0,94 (-q66)        | 6,016        | 7,580       | Z' S7                   |
| q                                                            | -0,81 (q68)     | -0,81 (q68)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                            | <b>X: -7,85</b> | <b>kN Z: 19,58</b> | <b>kN</b>    |             |                         |
| -                                                            | -               | -                  | m            | m           | - -                     |

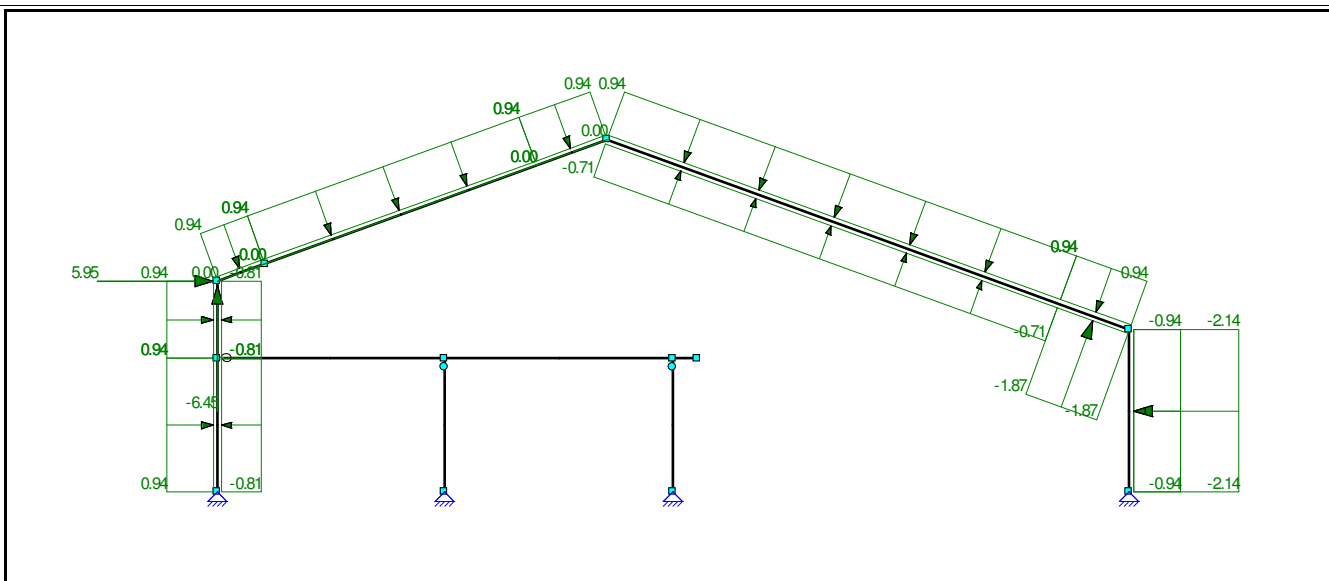
B.G.27: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)



B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)

| Type                                                                           | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| B.G.28: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) |                 |                   |              |             |                         |
| q                                                                              | -0,71 (q63)     | -0,71 (q63)       | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | -1,87 (q64)     | -1,87 (q64)       | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | 0,94 (-q57)     | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | -2,14 (-q65)    | -2,14 (-q65)      | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                              | -0,94 (q57)     | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                              | -6,45           |                   |              |             | Z K10                   |
| N                                                                              | 5,95            |                   |              |             | X K10                   |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                              | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | 0,00 (q71)      | 0,00 (q71)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | 0,94 (-q57)     | 0,94 (-q57)       | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | -0,81 (q59)     | -0,81 (q59)       | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                              | <b>X: -1,46</b> | <b>kN Z: 2,00</b> | <b>kN</b>    |             |                         |
| -                                                                              | -               | -                 | m            | m           | - -                     |

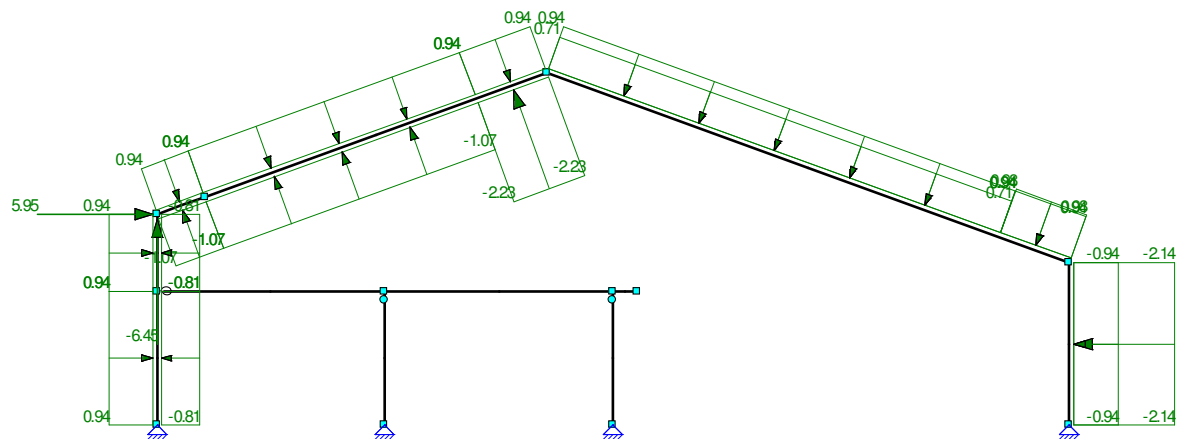
B.G.28: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE)



B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)

| Type                                                                           | Beginwaarde      | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|------------------|-------------------|--------------|-------------|-------------------------|
| B.G.29: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) |                  |                   |              |             |                         |
| q                                                                              | 0,71 (q72)       | 0,71 (q72)        | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | 0,98 (q73)       | 0,98 (q73)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | -2,14 (-q65)     | -2,14 (-q65)      | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                              | -0,94 (q57)      | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                              | -6,45            |                   |              |             | Z K10                   |
| N                                                                              | 5,95             |                   |              |             | X K10                   |
| q                                                                              | -1,07 (q61)      | -1,07 (q61)       | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                              | -1,07 (q61)      | -1,07 (q61)       | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)       | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | -2,23 (q62)      | -2,23 (q62)       | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | 0,94 (-q57)      | 0,94 (-q57)       | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | -0,81 (q59)      | -0,81 (q59)       | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                              | <b>X: -11,62</b> | <b>kN Z: 9,19</b> | <b>kN</b>    |             |                         |
| -                                                                              | -                | -                 | m            | m           | - -                     |

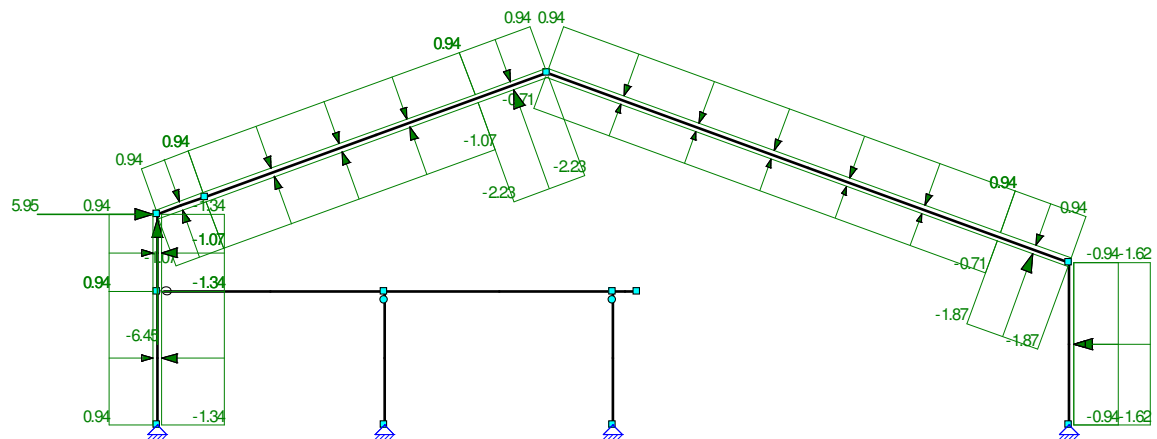
## B.G.29: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE)



## B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)

| Type                                                           | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------------------------------------|--------------|--------------|--------------|-------------|-------------------------|
| B.G.30: Windbelasting van Rechts + Onderdruk (2e corr. factor) |              |              |              |             |                         |
| q                                                              | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                              | -0,71 (q63)  | -0,71 (q63)  | 0,000        | 10,006      | Z' S11                  |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 10,006      | Z' S11                  |
| q                                                              | -1,87 (q64)  | -1,87 (q64)  | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                              | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                              | -6,45        |              |              |             | Z K10                   |
| N                                                              | 5,95         |              |              |             | X K10                   |
| q                                                              | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                              | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 6,016       | Z' S7                   |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 6,016       | Z' S7                   |
| q                                                              | -2,23 (q62)  | -2,23 (q62)  | 6,016        | 7,580       | Z' S7                   |
| q                                                              | 0,94 (-q57)  | 0,94 (-q57)  | 6,016        | 7,580       | Z' S7                   |
| q                                                              | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 2,800(L)    | Z' S4-S5                |
| Som lasten                                                     | X: -5,76     | kN Z: -8,38  | kN           |             |                         |
| -                                                              | -            | -            | m            | m           | - -                     |

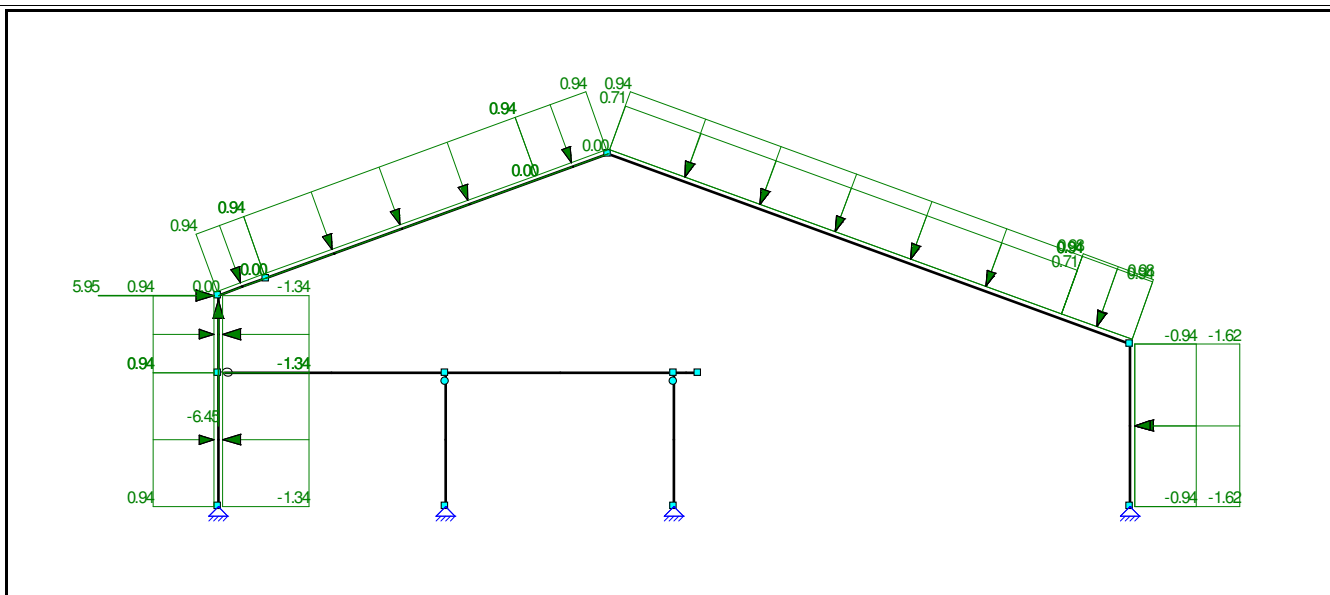
B.G.30: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)



**B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)**

| Type                                                                           | Beginwaarde     | Eindwaarde         | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------------------------------------|-----------------|--------------------|--------------|-------------|-------------------------|
| <b>B.G.31: Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)</b> |                 |                    |              |             |                         |
| q                                                                              | -1,62 (-q69)    | -1,62 (-q69)       | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                              | 0,71 (q72)      | 0,71 (q72)         | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 10,006      | Z' S11                  |
| q                                                                              | 0,98 (q73)      | 0,98 (q73)         | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                              | -0,94 (q66)     | -0,94 (q66)        | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                              | -6,45           |                    |              |             | Z K10                   |
| N                                                                              | 5,95            |                    |              |             | X K10                   |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                              | 0,00 (q70)      | 0,00 (q70)         | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                              | 0,00 (q71)      | 0,00 (q71)         | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | 0,94 (-q66)     | 0,94 (-q66)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                              | -1,34 (q67)     | -1,34 (q67)        | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                              | <b>X: -8,37</b> | <b>kN Z: 19,58</b> | <b>kN</b>    |             |                         |
| -                                                                              | -               | -                  | m            | m           | - -                     |

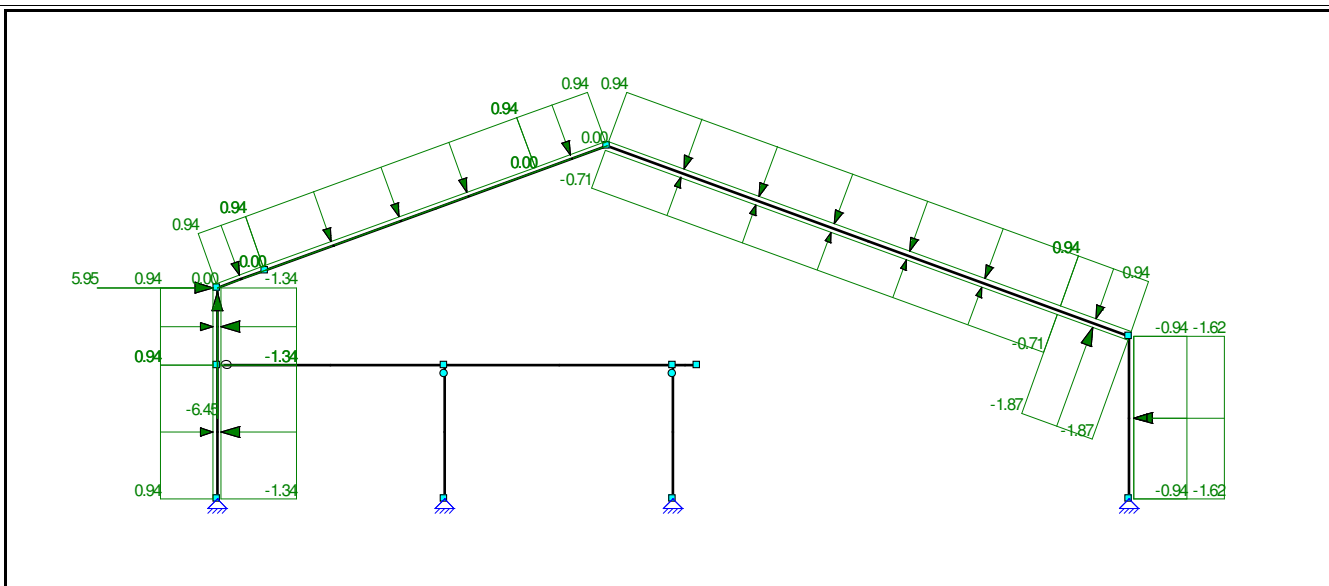
B.G.31: WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)

| Type                                                                                                    | Beginwaarde     | Eindwaarde        | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------|-------------|-------------------------|
| <b>B.G.32: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)</b> |                 |                   |              |             |                         |
| q                                                                                                       | -1,62 (-q60)    | -1,62 (-q60)      | 0,000        | 3,400(L)    | Z' S10                  |
| q                                                                                                       | -0,71 (q63)     | -0,71 (q63)       | 0,000        | 10,006      | Z' S11                  |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 10,006      | Z' S11                  |
| q                                                                                                       | -1,87 (q64)     | -1,87 (q64)       | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 10,006       | 11,570(L)   | Z' S11                  |
| q                                                                                                       | -0,94 (q57)     | -0,94 (q57)       | 0,000        | 3,400(L)    | Z' S10                  |
| N                                                                                                       | -6,45           |                   |              |             | Z K10                   |
| N                                                                                                       | 5,95            |                   |              |             | X K10                   |
| q                                                                                                       | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 1,064(L)    | Z' S6                   |
| q                                                                                                       | 0,00 (q70)      | 0,00 (q70)        | 0,000        | 6,016       | Z' S7                   |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 1,064(L)    | Z' S4-S6                |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 0,000        | 6,016       | Z' S7                   |
| q                                                                                                       | 0,00 (q71)      | 0,00 (q71)        | 6,016        | 7,580       | Z' S7                   |
| q                                                                                                       | 0,94 (-q57)     | 0,94 (-q57)       | 6,016        | 7,580       | Z' S7                   |
| q                                                                                                       | -1,34 (q58)     | -1,34 (q58)       | 0,000        | 2,800(L)    | Z' S4-S5                |
| <b>Som lasten</b>                                                                                       | <b>X: -1,99</b> | <b>kN Z: 2,00</b> | <b>kN</b>    | <b>m</b>    | <b>- -</b>              |
| -                                                                                                       | -               | -                 | m            | m           | - -                     |

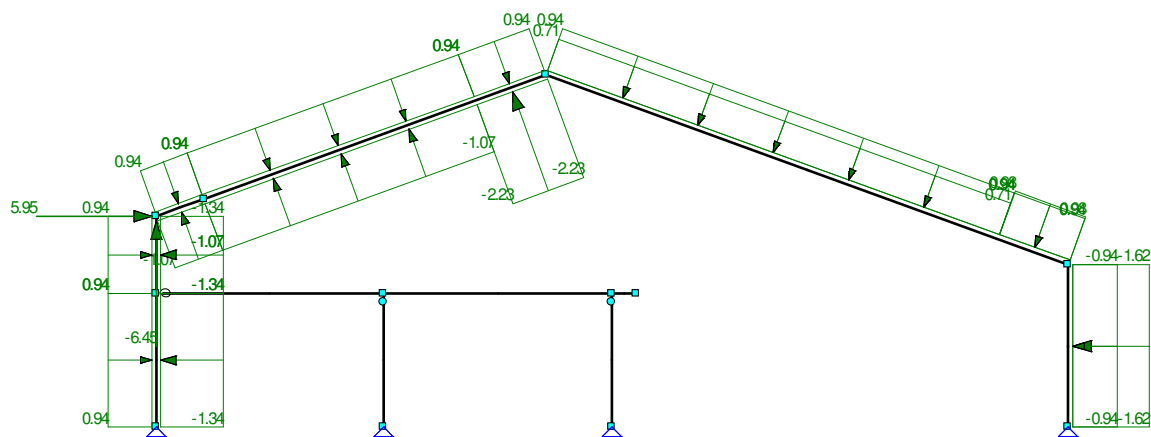
B.G.32: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 1E CPE + IJ 2E CPE) (2E CORR. FACTOR)



B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)

| Type                                                                                             | Beginwaarde  | Eindwaarde   | Beginafstand | Eindafstand | Richting | Staat of knoop |
|--------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|----------|----------------|
| B.G.33: Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) |              |              |              |             |          |                |
| q                                                                                                | -1,62 (-q60) | -1,62 (-q60) | 0,000        | 3,400(L)    | Z'       | S10            |
| q                                                                                                | 0,71 (q72)   | 0,71 (q72)   | 0,000        | 10,006      | Z'       | S11            |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 10,006      | Z'       | S11            |
| q                                                                                                | 0,98 (q73)   | 0,98 (q73)   | 10,006       | 11,570(L)   | Z'       | S11            |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 10,006       | 11,570(L)   | Z'       | S11            |
| q                                                                                                | -0,94 (q57)  | -0,94 (q57)  | 0,000        | 3,400(L)    | Z'       | S10            |
| N                                                                                                | -6,45        |              |              |             | Z        | K10            |
| N                                                                                                | 5,95         |              |              |             | X        | K10            |
| q                                                                                                | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 1,064(L)    | Z'       | S6             |
| q                                                                                                | -1,07 (q61)  | -1,07 (q61)  | 0,000        | 6,016       | Z'       | S7             |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 1,064(L)    | Z'       | S4-S6          |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 0,000        | 6,016       | Z'       | S7             |
| q                                                                                                | -2,23 (q62)  | -2,23 (q62)  | 6,016        | 7,580       | Z'       | S7             |
| q                                                                                                | 0,94 (-q57)  | 0,94 (-q57)  | 6,016        | 7,580       | Z'       | S7             |
| q                                                                                                | -1,34 (q58)  | -1,34 (q58)  | 0,000        | 2,800(L)    | Z'       | S4-S5          |
| Som lasten                                                                                       | X: -12,14    | kN Z: 9,19   | kN           |             |          |                |
| -                                                                                                | -            | -            | m            | m           | -        | -              |

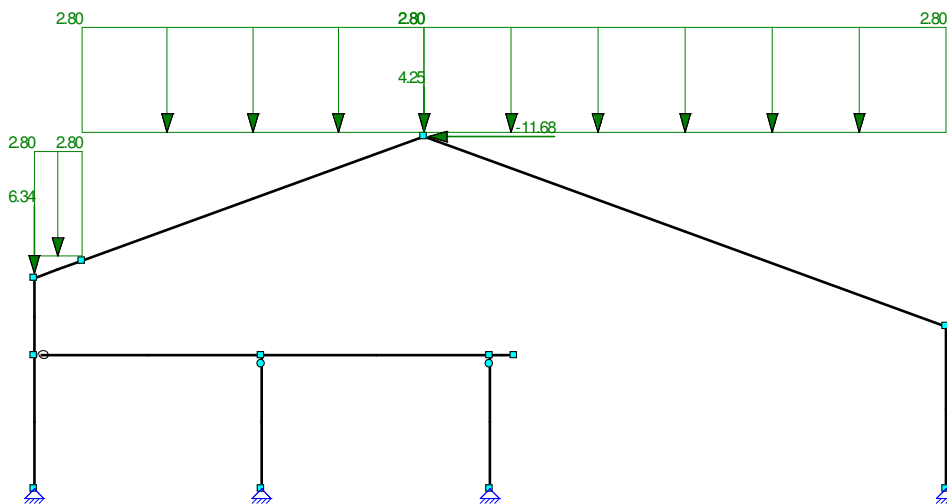
B.G.33: WINDBELASTING VAN RECHTS + ONDERDRUK (ZADELDAK FGH 2E CPE + IJ 1E CPE) (2E CORR. FACTOR)



B.G.34: SNEEUWBELASTING 1

| Type                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.34: Sneeuwbelasting 1</b> |             |             |              |             |                         |
| q                                | 2,80 (q75)  | 2,80 (q75)  | 0,000        | 10,875(L)   | Z S6-S7,S11             |
| N                                | 4,25        |             |              |             | Z K12                   |
| N                                | -11,68      |             |              |             | X K12                   |
| N                                | 6,34        |             |              |             | Z K10                   |
| Som lasten                       | X: -11,68   | kN Z: 63,79 | kN           |             |                         |
| -                                | -           | -           | m            | m           | - -                     |

B.G.34: SNEEUWBELASTING 1

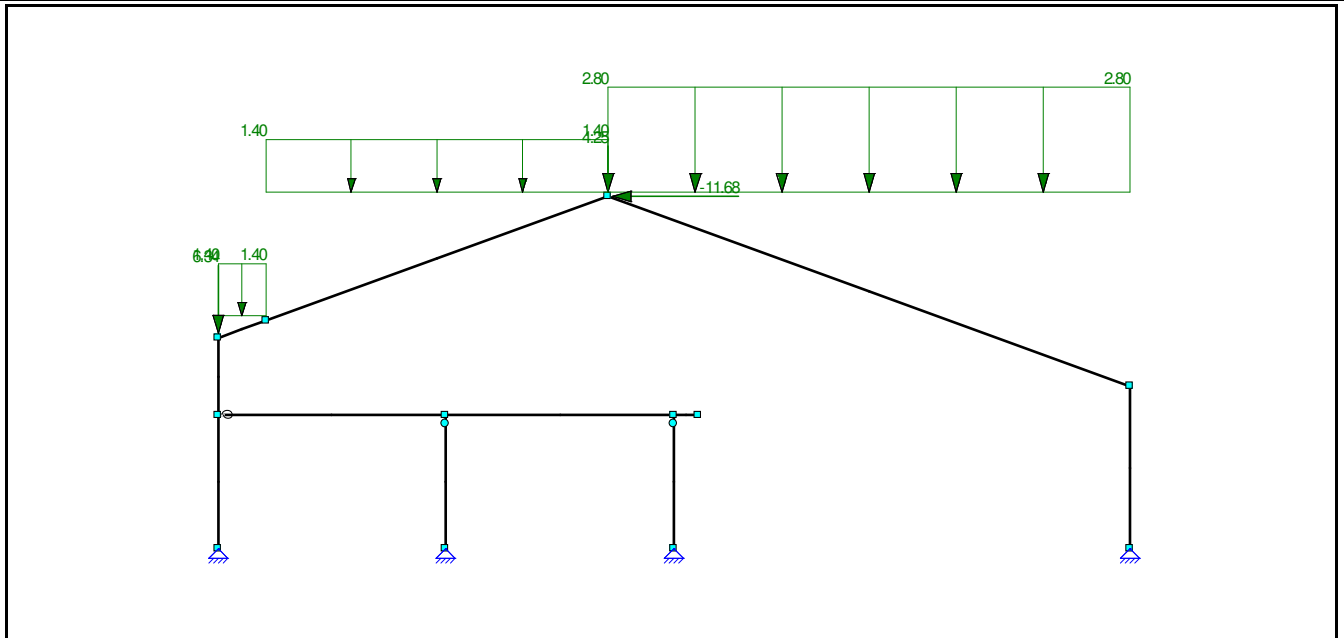


B.G.35: SNEEUWBELASTING 2

| Type                             | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|------------|--------------|-------------|-------------------------|
| <b>B.G.35: Sneeuwbelasting 2</b> |             |            |              |             |                         |
| q                                | 2,80 (q75)  | 2,80 (q75) | 0,000        | 10,875(L)   | Z S11                   |
| N                                | 4,25        |            |              |             | Z K12                   |
| N                                | -11,68      |            |              |             | X K12                   |
| q                                | 1,40 (q76)  | 1,40 (q76) | 0,000        | 1,000(L)    | Z S6-S7                 |

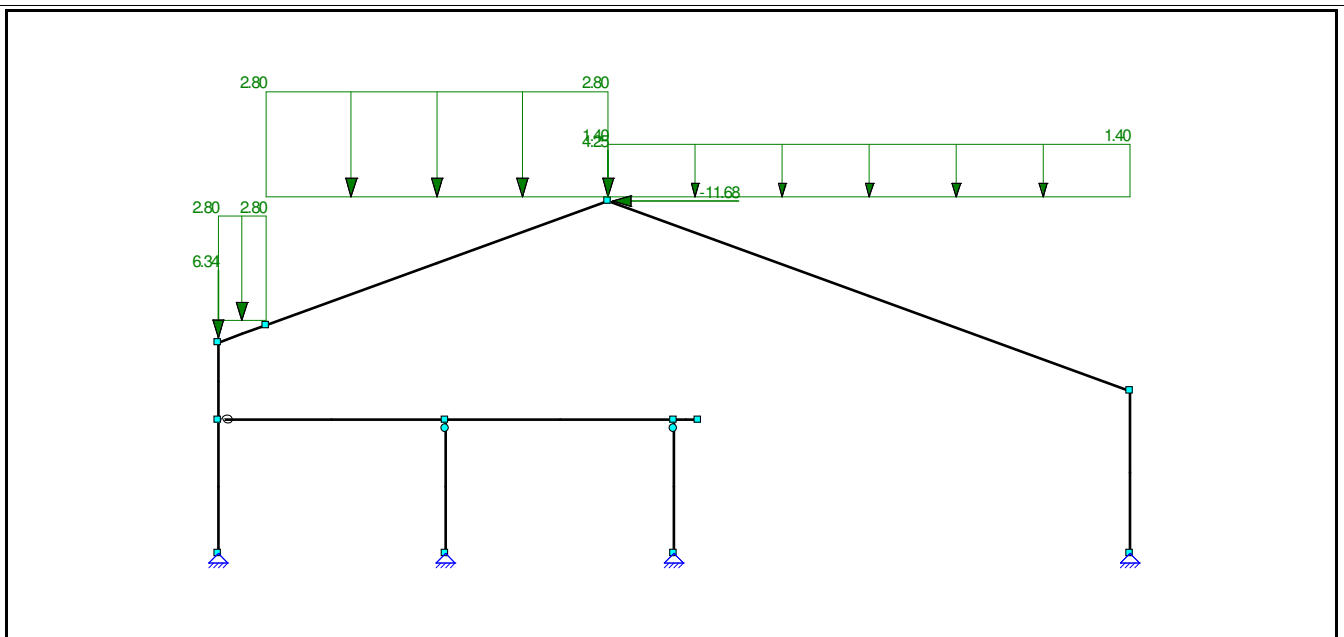
| Type                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.35: Sneeuwbelasting 2</b> |             |             |              |             |                         |
| N                                | 6,34        |             |              |             | Z K10                   |
| Som lasten                       | X: -11,68   | kN Z: 52,42 | kN           |             |                         |
| -                                | -           | -           | m            | m           | - -                     |

B.G.35: SNEEUWBELASTING 2

**B.G.36: SNEEUWBELASTING 3**

| Type                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|----------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.36: Sneeuwbelasting 3</b> |             |             |              |             |                         |
| q                                | 1,40 (q76)  | 1,40 (q76)  | 0,000        | 10,875(L)   | Z S11                   |
| N                                | 4,25        |             |              |             | Z K12                   |
| N                                | -11,68      |             |              |             | X K12                   |
| q                                | 2,80 (q75)  | 2,80 (q75)  | 0,000        | 1,000(L)    | Z S6-S7                 |
| N                                | 6,34        |             |              |             | Z K10                   |
| Som lasten                       | X: -11,68   | kN Z: 48,57 | kN           |             |                         |
| -                                | -           | -           | m            | m           | - -                     |

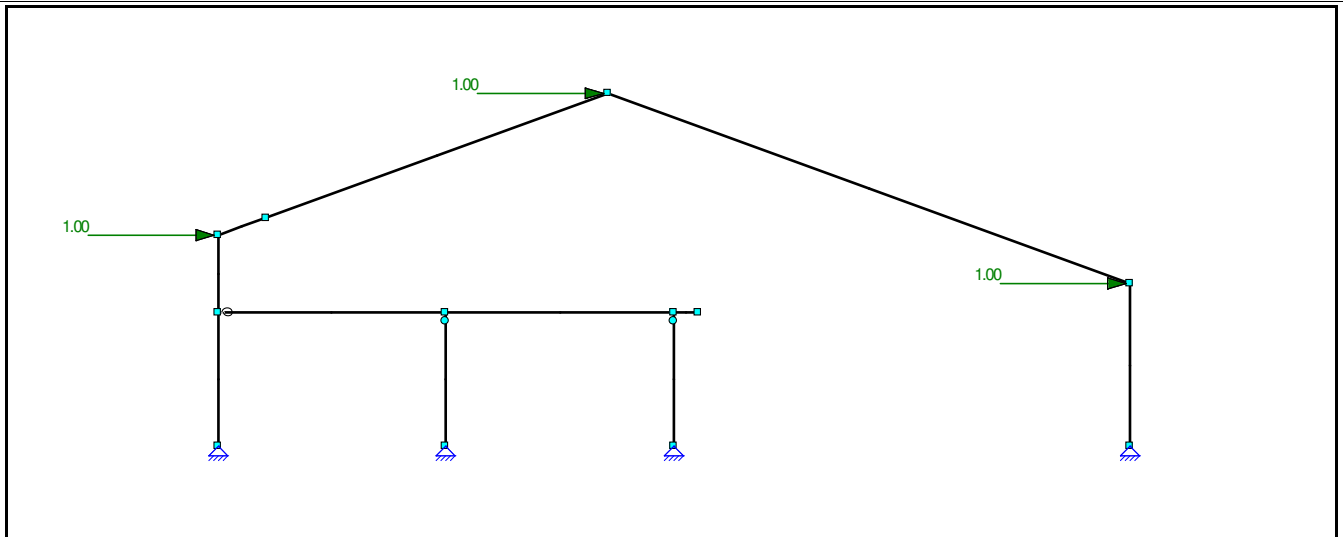
B.G.36: SNEEUWBELASTING 3



**B.G.37: KNIKLENGTE**

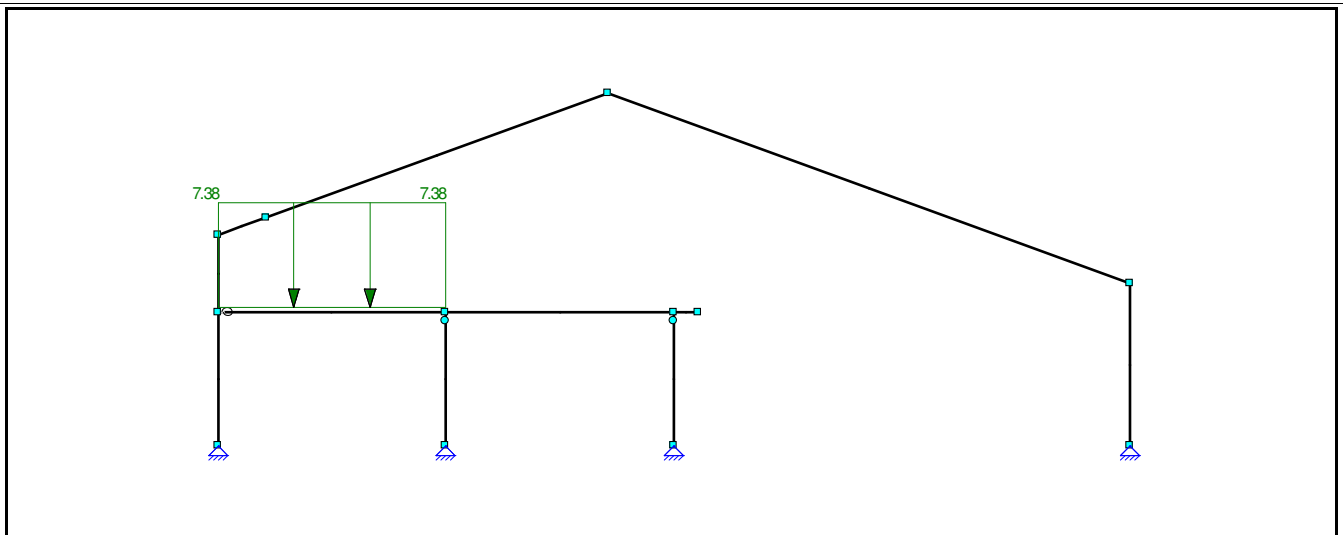
| Type                      | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|---------------------------|-------------|------------|--------------|-------------|-------------------------|
| <b>B.G.37: Kniklengte</b> |             |            |              |             |                         |
| N                         | 1,00        |            |              |             | X K9-K10,K12            |
| Som lasten                | X: 3,00     | kN Z: 0,00 | kN           | m           | - -                     |
| -                         | -           | -          | m            | m           | - -                     |

## B.G.37: KNIKLENGTE

**B.G.38: VERDEELDE VERANDERLIJKE BELASTING**

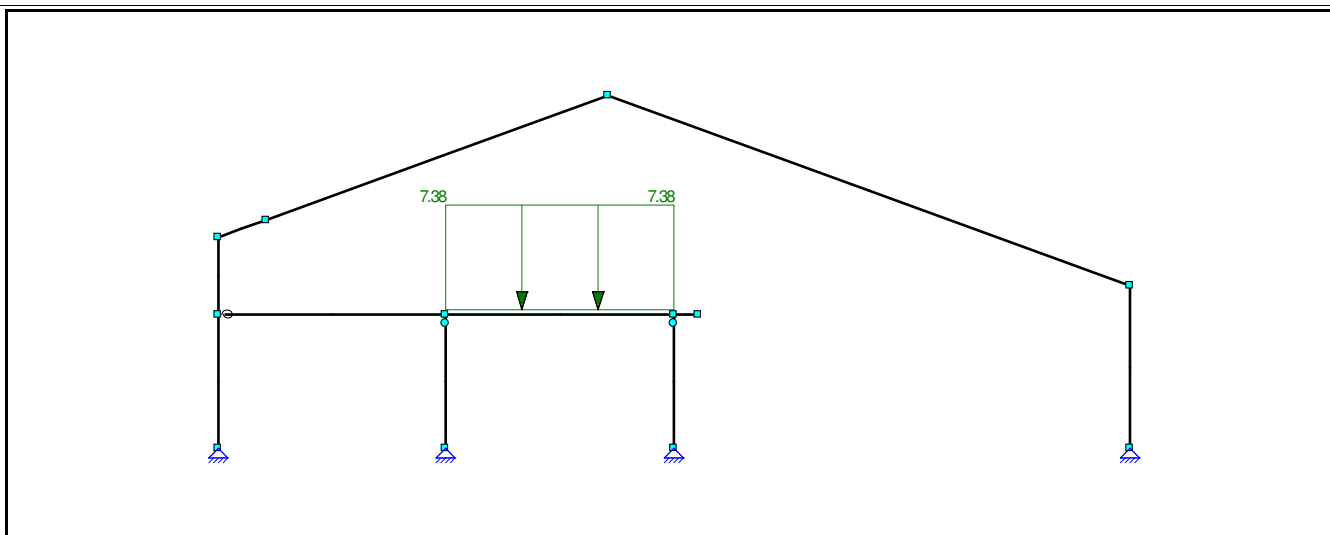
| Type                                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.38: Verdeelde veranderlijke belasting</b> |             |             |              |             |                         |
| q                                                | 7,38        | 7,38        | 0,000        | 4,750(L)    | Z' S1                   |
| Som lasten                                       | X: 0,00     | kN Z: 35,05 | kN           | m           | - -                     |
| -                                                | -           | -           | m            | m           | - -                     |

## B.G.38: VERDEELDE VERANDERLIJKE BELASTING

**B.G.39: VERDEELDE VERANDERLIJKE BELASTING**

| Type                                             | Beginwaarde | Eindwaarde  | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-------------|-------------|--------------|-------------|-------------------------|
| <b>B.G.39: Verdeelde veranderlijke belasting</b> |             |             |              |             |                         |
| q                                                | 7,38        | 7,38        | 0,000        | 4,750(L)    | Z' S2                   |
| Som lasten                                       | X: 0,00     | kN Z: 35,06 | kN           | m           | - -                     |
| -                                                | -           | -           | m            | m           | - -                     |

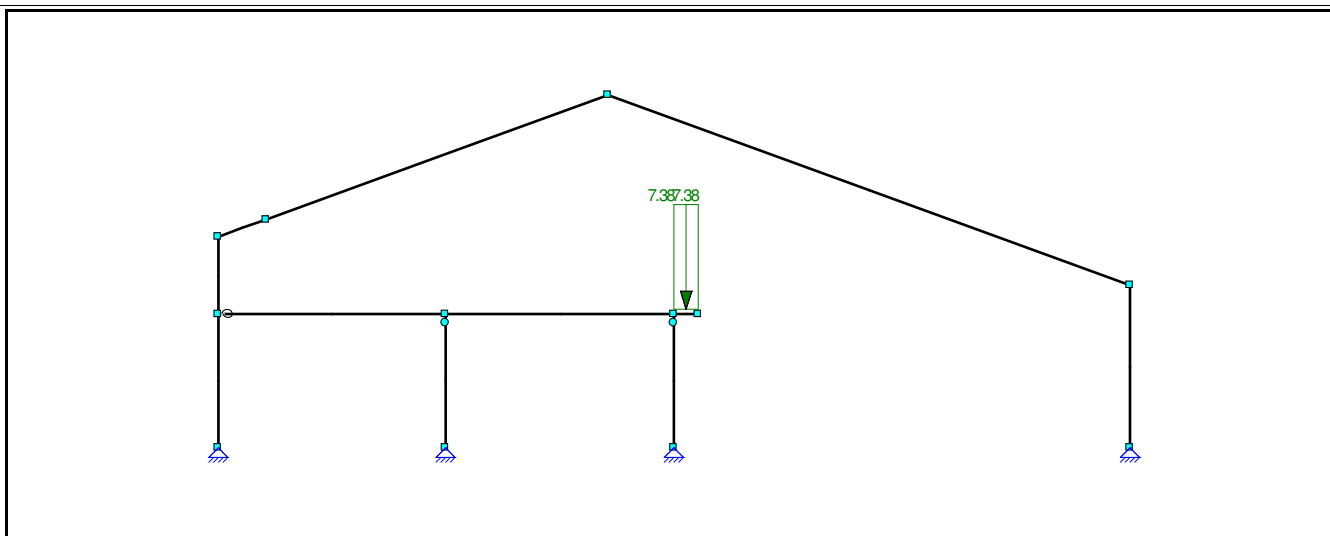
## B.G.39: VERDEELDE VERANDERLIJKE BELASTING



## B.G.40: VERDEELDE VERANDERLIJKE BELASTING

| Type                                             | Beginwaarde | Eindwaarde | Beginafstand | Eindafstand | Richting Staaf of knoop |
|--------------------------------------------------|-------------|------------|--------------|-------------|-------------------------|
| <b>B.G.40: Verdeelde veranderlijke belasting</b> |             |            |              |             |                         |
| q                                                | 7,38        | 7,38       | 0,000        | 0,500(L)    | Z' S3                   |
| Som lasten                                       | X: 0,00     | kN Z: 3,69 | kN           |             |                         |
| -                                                | -           | -          | m            | m           | - -                     |

## B.G.40: VERDEELDE VERANDERLIJKE BELASTING



## FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

| B.G.  | Omschrijving                                                                           | Fu.C.1 | Fu.C.2 | Fu.C.3<br>(Overslaan) | Fu.C.4 | Fu.C.5 | Fu.C.6 | Fu.C.7<br>(Overslaan) | Fu.C.8 |
|-------|----------------------------------------------------------------------------------------|--------|--------|-----------------------|--------|--------|--------|-----------------------|--------|
| B.G.1 | Permanente Belasting                                                                   | 1.08   | 0.90   | 0.90                  | 0.90   | 0.90   | 0.90   | 0.90                  | 0.90   |
| B.G.2 | Windbelasting van Links + Overdruk                                                     | -      | 1.13   | -                     | -      | -      | -      | -                     | -      |
| B.G.3 | Windbelasting van Links + Overdruk (2e Cpe)                                            | -      | -      | 1.13                  | -      | -      | -      | -                     | -      |
| B.G.4 | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -      | -      | -                     | 1.13   | -      | -      | -                     | -      |
| B.G.5 | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -      | -      | -                     | -      | 1.13   | -      | -                     | -      |
| B.G.6 | Windbelasting van Links + Overdruk (2e corr. factor)                                   | -      | -      | -                     | -      | -      | 1.13   | -                     | -      |
| B.G.7 | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                          | -      | -      | -                     | -      | -      | -      | 1.13                  | -      |
| B.G.8 | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -      | -      | -                     | -      | -      | -      | -                     | 1.13   |
| B.G.9 | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -      | -      | -                     | -      | -      | -      | -                     | -      |

| Wopereis Staalbouw |  |  |  | Pos 5 - Tussenspan |  |  |  |  |  |
|--------------------|--|--|--|--------------------|--|--|--|--|--|
|--------------------|--|--|--|--------------------|--|--|--|--|--|

|             |                                                                                          |               |                            |                |                            |                |                            |                |                            |
|-------------|------------------------------------------------------------------------------------------|---------------|----------------------------|----------------|----------------------------|----------------|----------------------------|----------------|----------------------------|
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.18      | Windbelasting van Rechts + Overdruk                                                      | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.19      | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.20      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.21      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.22      | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.23      | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.24      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.25      | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.26      | Windbelasting van Rechts + Onderdruk                                                     | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.27      | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.28      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.29      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.30      | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.31      | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.32      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.33      | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.34      | Sneeuwbelasting 1                                                                        | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.35      | Sneeuwbelasting 2                                                                        | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.36      | Sneeuwbelasting 3                                                                        | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.37      | Kniklengte                                                                               | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.38      | Verdeelde veranderlijke belasting                                                        | 1.35          | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       |
| B.G.39      | Verdeelde veranderlijke belasting                                                        | 1.35          | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       |
| B.G.40      | Verdeelde veranderlijke belasting                                                        | 1.35          | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       | 1.35           | 1.35                       |
| <b>B.G.</b> | <b>Omschrijving</b>                                                                      | <b>Fu.C.9</b> | <b>Fu.C.10 (Overslaan)</b> | <b>Fu.C.11</b> | <b>Fu.C.12 (Overslaan)</b> | <b>Fu.C.13</b> | <b>Fu.C.14 (Overslaan)</b> | <b>Fu.C.15</b> | <b>Fu.C.16 (Overslaan)</b> |
| B.G.1       | Permanente Belasting                                                                     | 0.90          | 1.08                       | 1.08           | 1.08                       | 1.08           | 1.08                       | 1.08           | 1.08                       |
| B.G.2       | Windbelasting van Links + Overdruk                                                       | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.3       | Windbelasting van Links + Overdruk (2e Cpe)                                              | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.4       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.5       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.6       | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.7       | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.8       | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.9       | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | 1.13          | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.10      | Windbelasting van Links + Onderdruk                                                      | -             | 1.13                       | -              | -                          | -              | -                          | -              | -                          |
| B.G.11      | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -             | -                          | 1.13           | -                          | -              | -                          | -              | -                          |
| B.G.12      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -             | -                          | -              | 1.13                       | -              | -                          | -              | -                          |
| B.G.13      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -             | -                          | -              | -                          | 1.13           | -                          | -              | -                          |
| B.G.14      | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -             | -                          | -              | -                          | -              | 1.13                       | -              | -                          |
| B.G.15      | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -             | -                          | -              | -                          | -              | -                          | 1.13           | -                          |
| B.G.16      | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | 1.13                       |
| B.G.17      | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -             | -                          | -              | -                          | -              | -                          | -              | -                          |
| B.G.18      | Windbelasting van Rechts + Overdruk                                                      | -             | -                          | -              | -                          | -              | -                          | -              | -                          |

| Wopereis Staalbouw |                                                                                          |                | Pos 5 - Tussenspan |                                |                |                |                |                                |                |
|--------------------|------------------------------------------------------------------------------------------|----------------|--------------------|--------------------------------|----------------|----------------|----------------|--------------------------------|----------------|
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.34             | Sneeuwbelasting 1                                                                        | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.35             | Sneeuwbelasting 2                                                                        | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.36             | Sneeuwbelasting 3                                                                        | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.37             | Kniklengte                                                                               | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.38             | Verdeelde veranderlijke belasting                                                        | 1.35           | 1.35               | 1.35                           | 1.35           | 1.35           | 1.35           | 1.35                           | 1.35           |
| B.G.39             | Verdeelde veranderlijke belasting                                                        | 1.35           | 1.35               | 1.35                           | 1.35           | 1.35           | 1.35           | 1.35                           | 1.35           |
| B.G.40             | Verdeelde veranderlijke belasting                                                        | 1.35           | 1.35               | 1.35                           | 1.35           | 1.35           | 1.35           | 1.35                           | 1.35           |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                      | <b>Fu.C.17</b> | <b>Fu.C.18</b>     | <b>Fu.C.19<br/>(Overslaan)</b> | <b>Fu.C.20</b> | <b>Fu.C.21</b> | <b>Fu.C.22</b> | <b>Fu.C.23<br/>(Overslaan)</b> | <b>Fu.C.24</b> |
| B.G.1              | Permanente Belasting                                                                     | 1.08           | 0.90               | 0.90                           | 0.90           | 0.90           | 0.90           | 0.90                           | 0.90           |
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | 1.13           | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -              | 1.13               | -                              | -              | -              | -              | -                              | -              |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -              | -                  | 1.13                           | -              | -              | -              | -                              | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -              | -                  | -                              | 1.13           | -              | -              | -                              | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -              | -                  | -                              | -              | 1.13           | -              | -                              | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -              | -                  | -                              | -              | -              | 1.13           | -                              | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -              | -                  | -                              | -              | -              | -              | 1.13                           | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -              | -                  | -                              | -              | -              | -              | -                              | 1.13           |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -              | -                  | -                              | -              | -              | -              | -                              | -              |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -              | -                  | -                              | -              | -              | -              | -                              | -              |

| Wopereis Staalbouw |                                                                                            | Pos 5 - Tussenspannt |                            |                            |                            |                |                            |                            |                            |
|--------------------|--------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------|----------------------------|----------------------------|----------------------------|
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe)                   | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe)                   | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                     | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                            | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak - FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.34             | Sneeuwbelasting 1                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.35             | Sneeuwbelasting 2                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.36             | Sneeuwbelasting 3                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.37             | Kniklengte                                                                                 | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.38             | Verdeelde veranderlijke belasting                                                          | 1.35                 | 1.35                       | 1.35                       | 1.35                       | 1.35           | 1.35                       | 1.35                       | 1.35                       |
| B.G.39             | Verdeelde veranderlijke belasting                                                          | 1.35                 | 1.35                       | 1.35                       | 1.35                       | 1.35           | 1.35                       | 1.35                       | 1.35                       |
| B.G.40             | Verdeelde veranderlijke belasting                                                          | 1.35                 | 1.35                       | 1.35                       | 1.35                       | 1.35           | 1.35                       | 1.35                       | 1.35                       |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                        | <b>Fu.C.25</b>       | <b>Fu.C.26 (Overslaan)</b> | <b>Fu.C.27 (Overslaan)</b> | <b>Fu.C.28 (Overslaan)</b> | <b>Fu.C.29</b> | <b>Fu.C.30 (Overslaan)</b> | <b>Fu.C.31 (Overslaan)</b> | <b>Fu.C.32 (Overslaan)</b> |
| B.G.1              | Permanente Belasting                                                                       | 0.90                 | 1.08                       | 1.08                       | 1.08                       | 1.08           | 1.08                       | 1.08                       | 1.08                       |
| B.G.2              | Windbelasting van Links + Overdruk                                                         | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                                | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                       | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                       | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                       | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                              | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)     | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)     | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.10             | Windbelasting van Links + Onderdruk                                                        | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                               | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                             | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                        | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                               | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                      | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                             | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)    | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)    | 1.13                 | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                       | -                    | 1.13                       | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                              | -                    | -                          | 1.13                       | -                          | -              | -                          | -                          | -                          |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                    | -                          | -                          | 1.13                       | -              | -                          | -                          | -                          |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                    | -                          | -                          | -                          | 1.13           | -                          | -                          | -                          |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                     | -                    | -                          | -                          | -                          | -              | 1.13                       | -                          | -                          |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                            | -                    | -                          | -                          | -                          | -              | -                          | 1.13                       | -                          |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                    | -                          | -                          | -                          | -              | -                          | -                          | 1.13                       |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.34             | Sneeuwbelasting 1                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.35             | Sneeuwbelasting 2                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |
| B.G.36             | Sneeuwbelasting 3                                                                          | -                    | -                          | -                          | -                          | -              | -                          | -                          | -                          |

| Wopereis Staalbouw |                                                                                          | Pos 5 - Tussenspan |                            |                |                |                            |                |                |                |
|--------------------|------------------------------------------------------------------------------------------|--------------------|----------------------------|----------------|----------------|----------------------------|----------------|----------------|----------------|
| B.G.37             | Kniklengte                                                                               | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.38             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | 1.35           | 1.35           | 1.35           |
| B.G.39             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | 1.35           | 1.35           | 1.35           |
| B.G.40             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | 1.35           | 1.35           | 1.35           |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                      | <b>Fu.C.33</b>     | <b>Fu.C.34</b>             | <b>Fu.C.35</b> | <b>Fu.C.36</b> | <b>Fu.C.37</b>             | <b>Fu.C.38</b> | <b>Fu.C.39</b> | <b>Fu.C.40</b> |
| B.G.1              | Permanente Belasting                                                                     | 1.08               | 1.08                       | 1.08           | 1.08           | 1.22                       | 1.22           | 1.22           | 1.22           |
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | 1.13               | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.34             | Sneeuwbelasting 1                                                                        | -                  | 1.01                       | -              | -              | -                          | -              | -              | -              |
| B.G.35             | Sneeuwbelasting 2                                                                        | -                  | -                          | 1.01           | -              | -                          | -              | -              | -              |
| B.G.36             | Sneeuwbelasting 3                                                                        | -                  | -                          | -              | 1.01           | -                          | -              | -              | -              |
| B.G.37             | Kniklengte                                                                               | -                  | -                          | -              | -              | -                          | -              | -              | -              |
| B.G.38             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | 1.35           | -              | 1.35           |
| B.G.39             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | -              | 1.35           | 1.35           |
| B.G.40             | Verdeelde veranderlijke belasting                                                        | 1.35               | 1.35                       | 1.35           | 1.35           | 1.35                       | 1.35           | -              | -              |
| <b>B.G.</b>        | <b>Omschrijving</b>                                                                      | <b>Fu.C.41</b>     | <b>Fu.C.42 (Overslaan)</b> | <b>Fu.C.43</b> | <b>Fu.C.44</b> | <b>Fu.C.45 (Overslaan)</b> | <b>Fu.C.46</b> |                |                |
| B.G.1              | Permanente Belasting                                                                     | 1.22               | 0.90                       | 1.08           | 1.08           | 1.08                       | 1.08           |                |                |
| B.G.2              | Windbelasting van Links + Overdruk                                                       | -                  | -                          | -              | -              | -                          | -              |                |                |
| B.G.3              | Windbelasting van Links + Overdruk (2e Cpe)                                              | -                  | -                          | -              | -              | -                          | -              |                |                |
| B.G.4              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                     | -                  | -                          | -              | -              | -                          | -              |                |                |
| B.G.5              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                     | -                  | -                          | -              | -              | -                          | -              |                |                |

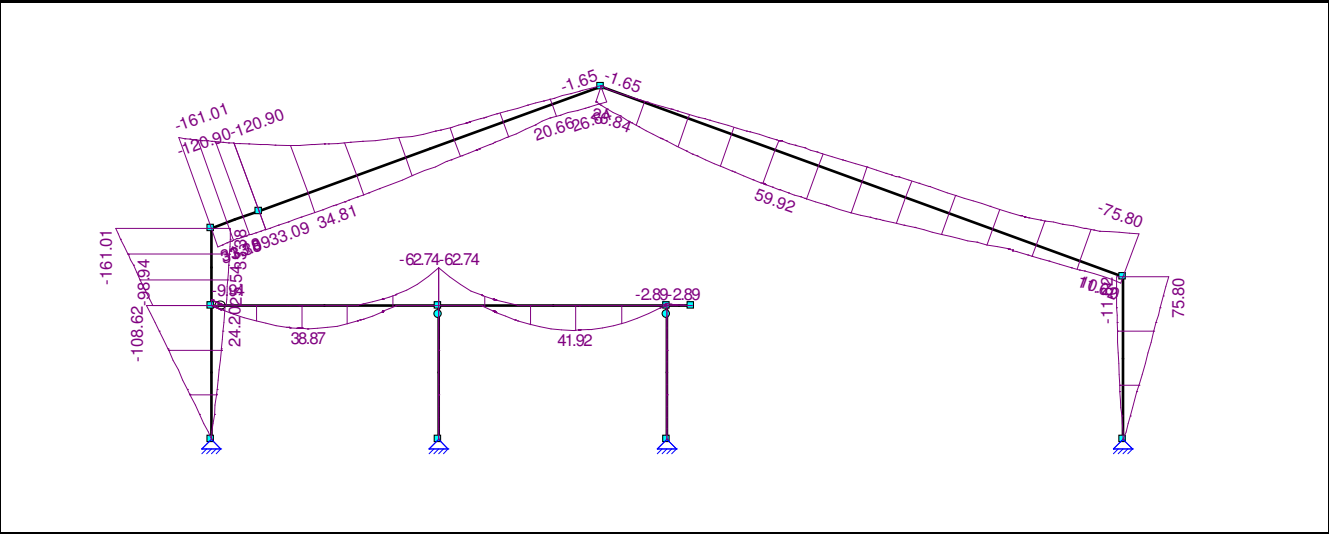
| Wopereis Staalbouw |                                                                                          | Pos 5 - Tussenspannt |      |      |      |      |      |
|--------------------|------------------------------------------------------------------------------------------|----------------------|------|------|------|------|------|
| B.G.6              | Windbelasting van Links + Overdruk (2e corr. factor)                                     | -                    | -    | -    | -    | -    | -    |
| B.G.7              | Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)                            | -                    | -    | -    | -    | -    | -    |
| B.G.8              | Windbelasting van Links + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)   | -                    | -    | -    | -    | -    | -    |
| B.G.9              | Windbelasting van Links + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)   | -                    | -    | -    | -    | -    | -    |
| B.G.10             | Windbelasting van Links + Onderdruk                                                      | -                    | -    | -    | -    | -    | -    |
| B.G.11             | Windbelasting van Links + Onderdruk (2e Cpe)                                             | -                    | -    | -    | -    | -    | -    |
| B.G.12             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                    | -    | -    | -    | -    | -    |
| B.G.13             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                    | -    | -    | -    | -    | -    |
| B.G.14             | Windbelasting van Links + Onderdruk (2e corr. factor)                                    | -                    | -    | -    | -    | -    | -    |
| B.G.15             | Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)                           | -                    | -    | -    | -    | -    | -    |
| B.G.16             | Windbelasting van Links + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                    | -    | -    | -    | -    | -    |
| B.G.17             | Windbelasting van Links + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                    | -    | -    | -    | -    | -    |
| B.G.18             | Windbelasting van Rechts + Overdruk                                                      | -                    | -    | -    | -    | -    | -    |
| B.G.19             | Windbelasting van Rechts + Overdruk (2e Cpe)                                             | -                    | -    | -    | -    | -    | -    |
| B.G.20             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                    | -                    | -    | -    | -    | -    | -    |
| B.G.21             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                    | -                    | -    | -    | -    | -    | -    |
| B.G.22             | Windbelasting van Rechts + Overdruk (2e corr. factor)                                    | -                    | -    | -    | -    | -    | -    |
| B.G.23             | Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)                           | -                    | -    | -    | -    | -    | -    |
| B.G.24             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor)  | -                    | -    | -    | -    | -    | -    |
| B.G.25             | Windbelasting van Rechts + Overdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor)  | -                    | -    | -    | -    | -    | -    |
| B.G.26             | Windbelasting van Rechts + Onderdruk                                                     | -                    | -    | -    | -    | -    | -    |
| B.G.27             | Windbelasting van Rechts + Onderdruk (2e Cpe)                                            | -                    | -    | -    | -    | -    | -    |
| B.G.28             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe)                   | -                    | -    | -    | -    | -    | -    |
| B.G.29             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe)                   | -                    | -    | -    | -    | -    | -    |
| B.G.30             | Windbelasting van Rechts + Onderdruk (2e corr. factor)                                   | -                    | -    | -    | -    | -    | -    |
| B.G.31             | Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)                          | -                    | -    | -    | -    | -    | -    |
| B.G.32             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 1e Cpe + IJ 2e Cpe) (2e corr. factor) | -                    | -    | -    | -    | -    | -    |
| B.G.33             | Windbelasting van Rechts + Onderdruk (Zadeldak FGH 2e Cpe + IJ 1e Cpe) (2e corr. factor) | -                    | -    | -    | -    | -    | -    |
| B.G.34             | Sneeuwbelasting 1                                                                        | -                    | -    | -    | -    | -    | -    |
| B.G.35             | Sneeuwbelasting 2                                                                        | -                    | -    | -    | -    | -    | -    |
| B.G.36             | Sneeuwbelasting 3                                                                        | -                    | -    | -    | -    | -    | -    |
| B.G.37             | Kniklengte                                                                               | -                    | -    | -    | -    | -    | -    |
| B.G.38             | Verdeelde veranderlijke belasting                                                        | -                    | 1.35 | 1.35 | -    | 1.35 | -    |
| B.G.39             | Verdeelde veranderlijke belasting                                                        | 1.35                 | 1.35 | -    | 1.35 | 1.35 | 1.35 |
| B.G.40             | Verdeelde veranderlijke belasting                                                        | 1.35                 | 1.35 | 1.35 | -    | -    | 1.35 |

## UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

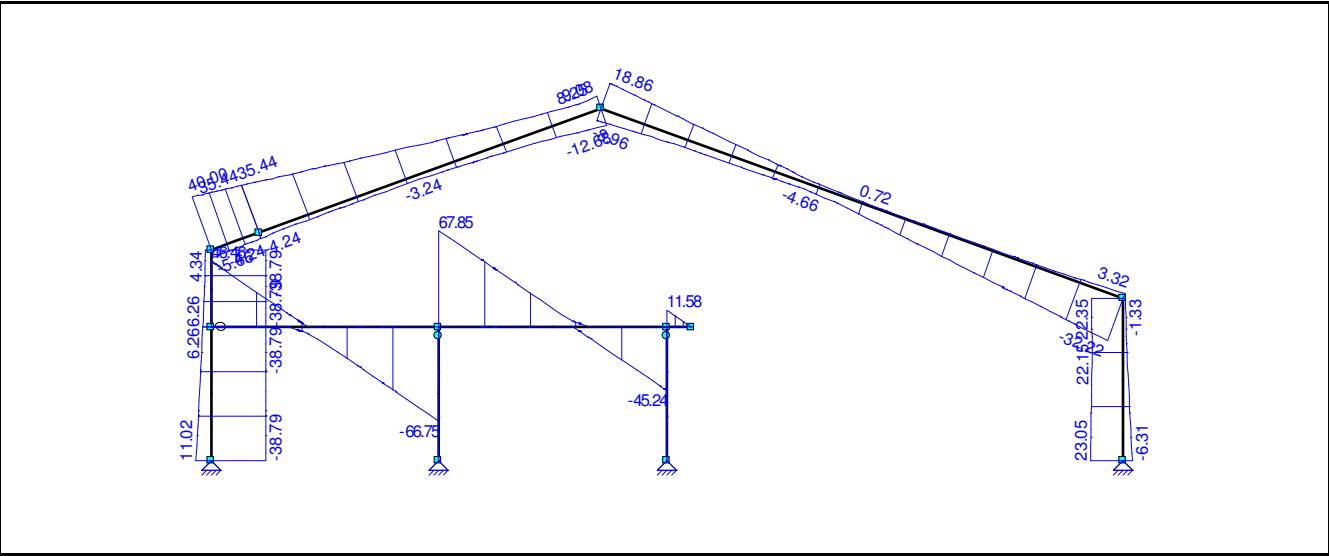
AFB. F.U.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



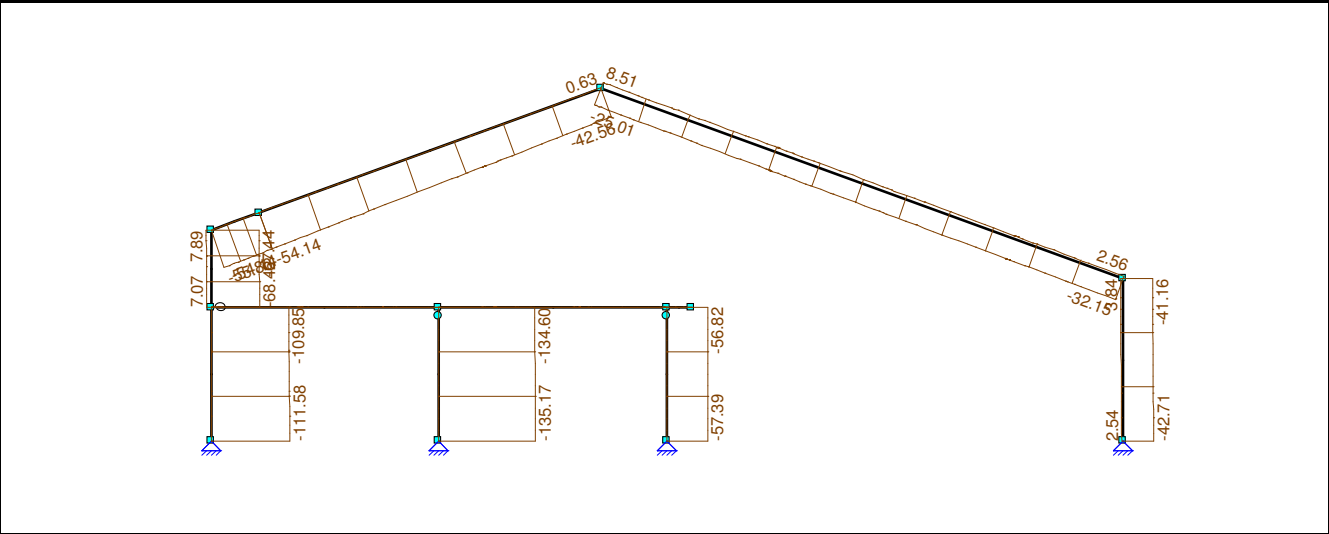
AFB. F.U.C. DRWARKRACHT (VZ) / SHEAR FORCE (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. F.U.C. NORMAALKRACHT (NX) / NORMAL FORCE (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



|                    |  |                      |
|--------------------|--|----------------------|
| Wopereis Staalbouw |  | Pos 5 - Tussenspannt |
|--------------------|--|----------------------|

# FU.C. STAAFKRACHTEN

| Staaf | B.C.    | Mb     | Mmax  | xMmax | Me     | x-M0  | x-M0 T/D | Nmax | Vb    | Vmax   | Ve     |
|-------|---------|--------|-------|-------|--------|-------|----------|------|-------|--------|--------|
| S1    | Fu.C.1  | -6.31  | 31.56 | 1.868 | -58.55 | 0.163 | 3.574 -  | 0.00 | 40.54 | -62.54 | -62.54 |
|       | Fu.C.2  | -1.34  | 30.98 | 1.810 | -54.31 | 0.038 | 3.582 -  | 0.00 | 35.71 | -58.02 | -58.02 |
|       | Fu.C.4  | -3.14  | 30.04 | 1.834 | -53.87 | 0.089 | 3.579 -  | 0.00 | 36.19 | -57.54 | -57.54 |
|       | Fu.C.5  | -0.03  | 31.66 | 1.792 | -54.64 | 0.001 | 3.584 -  | 0.00 | 35.37 | -58.36 | -58.36 |
|       | Fu.C.6  | -1.41  | 30.94 | 1.811 | -54.29 | 0.040 | 3.582 -  | 0.00 | 35.73 | -58.00 | -58.00 |
|       | Fu.C.8  | -3.21  | 30.00 | 1.835 | -53.85 | 0.091 | 3.579 -  | 0.00 | 36.20 | -57.53 | -57.53 |
|       | Fu.C.9  | -0.10  | 31.63 | 1.793 | -54.62 | 0.003 | 3.584 -  | 0.00 | 35.39 | -58.34 | -58.34 |
|       | Fu.C.11 | -3.53  | 32.99 | 1.834 | -59.24 | 0.091 | 3.578 -  | 0.00 | 39.81 | -63.27 | -63.27 |
|       | Fu.C.13 | -1.72  | 33.93 | 1.813 | -59.69 | 0.044 | 3.581 -  | 0.00 | 39.34 | -63.74 | -63.74 |
|       | Fu.C.15 | -3.60  | 32.95 | 1.835 | -59.23 | 0.093 | 3.578 -  | 0.00 | 39.83 | -63.25 | -63.25 |
|       | Fu.C.17 | -1.79  | 33.89 | 1.814 | -59.67 | 0.046 | 3.581 -  | 0.00 | 39.36 | -63.73 | -63.73 |
|       | Fu.C.18 | -4.73  | 29.22 | 1.855 | -53.47 | 0.134 | 3.576 -  | 0.00 | 36.60 | -57.13 | -57.13 |
|       | Fu.C.20 | -3.81  | 29.69 | 1.843 | -53.70 | 0.108 | 3.577 -  | 0.00 | 36.36 | -57.37 | -57.37 |
|       | Fu.C.21 | -7.07  | 28.03 | 1.886 | -52.90 | 0.201 | 3.572 -  | 0.00 | 37.22 | -56.51 | -56.51 |
|       | Fu.C.22 | -4.80  | 29.18 | 1.856 | -53.45 | 0.136 | 3.576 -  | 0.00 | 36.62 | -57.11 | -57.11 |
|       | Fu.C.24 | -3.88  | 29.65 | 1.844 | -53.69 | 0.110 | 3.577 -  | 0.00 | 36.38 | -57.35 | -57.35 |
|       | Fu.C.25 | -7.14  | 27.99 | 1.887 | -52.88 | 0.203 | 3.571 -  | 0.00 | 37.24 | -56.50 | -56.50 |
|       | Fu.C.29 | -8.76  | 30.33 | 1.898 | -57.94 | 0.226 | 3.570 -  | 0.00 | 41.19 | -61.90 | -61.90 |
|       | Fu.C.33 | -8.82  | 30.29 | 1.899 | -57.93 | 0.228 | 3.570 -  | 0.00 | 41.20 | -61.88 | -61.88 |
|       | Fu.C.34 | -9.69  | 29.85 | 1.909 | -57.74 | 0.250 | 3.567 -  | 0.00 | 41.42 | -61.66 | -61.66 |
|       | Fu.C.35 | -9.94  | 29.73 | 1.912 | -57.67 | 0.257 | 3.567 -  | 0.00 | 41.49 | -61.59 | -61.59 |
|       | Fu.C.36 | -8.73  | 30.33 | 1.897 | -57.97 | 0.225 | 3.569 -  | 0.00 | 41.17 | -61.91 | -61.91 |
|       | Fu.C.37 | -6.86  | 33.60 | 1.870 | -62.43 | 0.166 | 3.573 -  | 0.00 | 43.29 | -66.69 | -66.69 |
|       | Fu.C.38 | -7.73  | 38.87 | 2.007 | -48.25 | 0.174 | 3.839 -  | 0.00 | 46.46 | -63.52 | -63.52 |
|       | Fu.C.39 | -4.14  | 13.84 | 1.651 | -49.48 | 0.203 | 3.100 -  | 0.00 | 21.78 | -40.87 | -40.87 |
|       | Fu.C.40 | -6.85  | 33.50 | 1.867 | -62.74 | 0.166 | 3.568 -  | 0.00 | 43.22 | -66.75 | -66.75 |
|       | Fu.C.41 | -4.16  | 13.93 | 1.656 | -49.18 | 0.203 | 3.110 -  | 0.00 | 21.85 | -40.80 | -40.80 |
|       | Fu.C.43 | -7.18  | 36.84 | 2.014 | -44.37 | 0.172 | 3.857 -  | 0.00 | 43.71 | -59.37 | -59.37 |
|       | Fu.C.44 | -3.59  | 11.84 | 1.622 | -45.60 | 0.201 | 3.042 -  | 0.00 | 19.04 | -36.72 | -36.72 |
|       | Fu.C.46 | -3.61  | 11.93 | 1.627 | -45.29 | 0.202 | 3.053 -  | 0.00 | 19.10 | -36.65 | -36.65 |
| S2    | Fu.C.1  | -58.55 | 33.76 | 2.917 | -2.71  | 1.153 | 4.681 -  | 0.00 | 63.30 | 63.30  | -39.79 |
|       | Fu.C.2  | -54.31 | 30.28 | 2.928 | -2.47  | 1.176 | 4.680 -  | 0.00 | 57.78 | 57.78  | -35.95 |
|       | Fu.C.4  | -53.87 | 30.45 | 2.923 | -2.47  | 1.167 | 4.680 -  | 0.00 | 57.69 | 57.69  | -36.04 |
|       | Fu.C.5  | -54.64 | 30.16 | 2.932 | -2.47  | 1.183 | 4.680 -  | 0.00 | 57.85 | 57.85  | -35.88 |
|       | Fu.C.6  | -54.29 | 30.29 | 2.928 | -2.47  | 1.176 | 4.680 -  | 0.00 | 57.78 | 57.78  | -35.95 |
|       | Fu.C.8  | -53.85 | 30.46 | 2.923 | -2.47  | 1.166 | 4.680 -  | 0.00 | 57.68 | 57.68  | -36.05 |
|       | Fu.C.9  | -54.62 | 30.16 | 2.931 | -2.47  | 1.183 | 4.680 -  | 0.00 | 57.85 | 57.85  | -35.88 |
|       | Fu.C.11 | -59.24 | 33.49 | 2.923 | -2.71  | 1.167 | 4.680 -  | 0.00 | 63.44 | 63.44  | -39.64 |
|       | Fu.C.13 | -59.69 | 33.32 | 2.928 | -2.71  | 1.175 | 4.680 -  | 0.00 | 63.54 | 63.54  | -39.55 |
|       | Fu.C.15 | -59.23 | 33.50 | 2.923 | -2.71  | 1.166 | 4.680 -  | 0.00 | 63.44 | 63.44  | -39.64 |
|       | Fu.C.17 | -59.67 | 33.33 | 2.928 | -2.71  | 1.175 | 4.680 -  | 0.00 | 63.53 | 63.53  | -39.55 |
|       | Fu.C.18 | -53.47 | 30.61 | 2.919 | -2.47  | 1.158 | 4.680 -  | 0.00 | 57.60 | 57.60  | -36.13 |
|       | Fu.C.20 | -53.70 | 30.52 | 2.922 | -2.47  | 1.163 | 4.680 -  | 0.00 | 57.65 | 57.65  | -36.08 |
|       | Fu.C.21 | -52.90 | 30.83 | 2.913 | -2.47  | 1.145 | 4.681 -  | 0.00 | 57.48 | 57.48  | -36.25 |
|       | Fu.C.22 | -53.45 | 30.61 | 2.919 | -2.47  | 1.158 | 4.680 -  | 0.00 | 57.60 | 57.60  | -36.13 |
|       | Fu.C.24 | -53.69 | 30.52 | 2.921 | -2.47  | 1.163 | 4.680 -  | 0.00 | 57.65 | 57.65  | -36.08 |
|       | Fu.C.25 | -52.88 | 30.83 | 2.913 | -2.47  | 1.145 | 4.681 -  | 0.00 | 57.48 | 57.48  | -36.25 |
|       | Fu.C.29 | -57.94 | 33.99 | 2.911 | -2.71  | 1.141 | 4.681 -  | 0.00 | 63.17 | 63.17  | -39.91 |
|       | Fu.C.33 | -57.93 | 34.00 | 2.911 | -2.71  | 1.141 | 4.681 -  | 0.00 | 63.16 | 63.16  | -39.92 |
|       | Fu.C.34 | -57.74 | 34.07 | 2.909 | -2.71  | 1.137 | 4.681 -  | 0.00 | 63.12 | 63.12  | -39.96 |
|       | Fu.C.35 | -57.67 | 34.10 | 2.908 | -2.71  | 1.135 | 4.681 -  | 0.00 | 63.11 | 63.11  | -39.97 |
|       | Fu.C.36 | -57.97 | 33.98 | 2.911 | -2.71  | 1.141 | 4.681 -  | 0.00 | 63.17 | 63.17  | -39.91 |
|       | Fu.C.37 | -62.43 | 36.03 | 2.916 | -2.89  | 1.152 | 4.681 -  | 0.00 | 67.52 | 67.52  | -42.45 |
|       | Fu.C.38 | -48.25 | 15.08 | 3.099 | -2.89  | 1.587 | 4.611 -  | 0.00 | 40.87 | 40.87  | -21.77 |
|       | Fu.C.39 | -49.48 | 41.92 | 2.810 | -1.65  | 0.907 | 4.713 -  | 0.00 | 65.06 | 65.06  | -44.92 |
|       | Fu.C.40 | -62.74 | 36.68 | 2.930 | -1.65  | 1.151 | 4.710 -  | 0.00 | 67.85 | 67.85  | -42.13 |
|       | Fu.C.41 | -49.18 | 41.31 | 2.796 | -2.89  | 0.907 | 4.685 -  | 0.00 | 64.73 | 64.73  | -45.24 |
|       | Fu.C.43 | -44.37 | 12.84 | 3.122 | -2.71  | 1.643 | 4.601 -  | 0.00 | 36.65 | 36.65  | -19.11 |
|       | Fu.C.44 | -45.60 | 39.66 | 2.803 | -1.47  | 0.891 | 4.715 -  | 0.00 | 60.83 | 60.83  | -42.25 |
|       | Fu.C.46 | -45.29 | 39.05 | 2.788 | -2.71  | 0.891 | 4.685 -  | 0.00 | 60.51 | 60.51  | -42.58 |
| S3    | Fu.C.1  | -2.71  |       |       | 0.00   | 0.500 | 0.000 -  | 0.00 | 10.85 | 10.85  | 0.00   |
|       | Fu.C.2  | -2.47  |       |       | 0.00   | 0.500 | 0.000 -  | 0.00 | 9.87  | 9.87   | 0.00   |
|       | Fu.C.4  | -2.47  |       |       | 0.00   | 0.500 | 0.000 -  | 0.00 | 9.87  | 9.87   | 0.00   |
|       | Fu.C.5  | -2.47  |       |       | 0.00   | 0.500 | 0.000 -  | 0.00 | 9.87  | 9.87   | 0.00   |
|       | Fu.C.6  | -2.47  |       |       | 0.00   | 0.500 | 0.000 -  | 0.00 | 9.87  | 9.87   | 0.00   |

| Wopereis Staalbouw |  |  |  |  | Pos 5 - Tussenspannt |  |  |  |  |  |  |
|--------------------|--|--|--|--|----------------------|--|--|--|--|--|--|
|--------------------|--|--|--|--|----------------------|--|--|--|--|--|--|

| Staaf | B.C.    | Mb     | Mmax | xMmax | Me      | x-M0  | x-M0 T/D | Nmax    | Vb     | Vmax   | Ve     |
|-------|---------|--------|------|-------|---------|-------|----------|---------|--------|--------|--------|
| S3    | Fu.C.8  | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.9  | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.11 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.13 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.15 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.17 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.18 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.20 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.21 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.22 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.24 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.25 | -2.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 9.87   | 9.87   | 0.00   |
|       | Fu.C.29 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.33 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.34 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.35 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.36 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.37 | -2.89  |      |       | 0.00    | 0.000 | 0.000 -  | 0.00    | 11.58  | 11.58  | 0.00   |
|       | Fu.C.38 | -2.89  |      |       | 0.00    | 0.000 | 0.000 -  | 0.00    | 11.58  | 11.58  | 0.00   |
|       | Fu.C.39 | -1.65  |      |       | 0.00    | 0.000 | 0.000 -  | 0.00    | 6.59   | 6.59   | 0.00   |
|       | Fu.C.40 | -1.65  |      |       | 0.00    | 0.000 | 0.000 -  | 0.00    | 6.59   | 6.59   | 0.00   |
|       | Fu.C.41 | -2.89  |      |       | 0.00    | 0.000 | 0.000 -  | 0.00    | 11.58  | 11.58  | 0.00   |
|       | Fu.C.43 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
|       | Fu.C.44 | -1.47  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 5.87   | 5.87   | 0.00   |
|       | Fu.C.46 | -2.71  |      |       | 0.00    | 0.500 | 0.000 -  | 0.00    | 10.85  | 10.85  | 0.00   |
| S4    | Fu.C.1  | 0.00   |      |       | -44.49  | 0.000 | 0.000 D  | -70.44  | -15.89 | -15.89 | -15.89 |
|       | Fu.C.2  | 0.00   |      |       | 24.20   | 0.000 | 0.000 D  | -30.08  | 11.02  | 11.02  | 6.26   |
|       | Fu.C.4  | 0.00   | 4.37 | 2.268 | 4.13    | 0.000 | 0.000 D  | -36.85  | 3.86   | 3.86   | -0.91  |
|       | Fu.C.5  | 0.00   |      |       | 22.55   | 0.000 | 0.000 D  | -40.66  | 10.44  | 10.44  | 5.67   |
|       | Fu.C.6  | 0.00   |      |       | 21.52   | 0.000 | 0.000 D  | -30.22  | 9.24   | 9.24   | 6.13   |
|       | Fu.C.8  | 0.00   | 1.94 | 1.867 | 1.46    | 0.000 | 0.000 D  | -36.98  | 2.08   | 2.08   | -1.04  |
|       | Fu.C.9  | 0.00   |      |       | 19.87   | 0.000 | 0.000 D  | -40.79  | 8.66   | 8.66   | 5.54   |
|       | Fu.C.11 | 0.00   |      |       | -24.46  | 0.000 | 0.000 D  | -73.20  | -3.87  | -13.60 | -13.60 |
|       | Fu.C.13 | 0.00   | 1.56 | 0.948 | -4.40   | 1.896 | 0.000 D  | -66.44  | 3.29   | -6.43  | -6.43  |
|       | Fu.C.15 | 0.00   |      |       | -27.14  | 0.000 | 0.000 D  | -73.34  | -5.65  | -13.73 | -13.73 |
|       | Fu.C.17 | 0.00   | 0.40 | 0.524 | -7.08   | 1.049 | 0.000 D  | -66.57  | 1.51   | -6.57  | -6.57  |
|       | Fu.C.18 | 0.00   |      |       | -11.19  | 0.000 | 0.000 D  | -36.03  | -6.27  | -6.27  | -1.72  |
|       | Fu.C.20 | 0.00   |      |       | -14.56  | 0.000 | 0.000 D  | -43.35  | -7.48  | -7.48  | -2.92  |
|       | Fu.C.21 | 0.00   |      |       | -34.72  | 0.000 | 0.000 D  | -43.57  | -14.68 | -14.68 | -10.12 |
|       | Fu.C.22 | 0.00   |      |       | -13.87  | 0.000 | 0.000 D  | -36.17  | -8.05  | -8.05  | -1.85  |
|       | Fu.C.24 | 0.00   |      |       | -17.24  | 0.000 | 0.000 D  | -43.49  | -9.26  | -9.26  | -3.05  |
|       | Fu.C.25 | 0.00   |      |       | -37.40  | 0.000 | 0.000 D  | -43.71  | -16.46 | -16.46 | -10.26 |
|       | Fu.C.29 | 0.00   |      |       | -61.67  | 0.000 | 0.000 D  | -69.36  | -21.82 | -22.23 | -22.23 |
|       | Fu.C.33 | 0.00   |      |       | -64.35  | 0.000 | 0.000 D  | -69.49  | -23.60 | -23.60 | -22.36 |
|       | Fu.C.34 | 0.00   |      |       | -108.62 | 0.000 | 0.000 D  | -111.58 | -38.79 | -38.79 | -38.79 |
|       | Fu.C.35 | 0.00   |      |       | -100.08 | 0.000 | 0.000 D  | -102.57 | -35.74 | -35.74 | -35.74 |
|       | Fu.C.36 | 0.00   |      |       | -95.41  | 0.000 | 0.000 D  | -106.96 | -34.08 | -34.08 | -34.08 |
|       | Fu.C.37 | 0.00   |      |       | -49.93  | 0.000 | 0.000 D  | -76.90  | -17.83 | -17.83 | -17.83 |
|       | Fu.C.38 | 0.00   |      |       | -50.14  | 0.000 | 0.000 D  | -80.02  | -17.91 | -17.91 | -17.91 |
|       | Fu.C.39 | 0.00   |      |       | -49.25  | 0.000 | 0.000 D  | -55.53  | -17.59 | -17.59 | -17.59 |
|       | Fu.C.40 | 0.00   |      |       | -49.92  | 0.000 | 0.000 D  | -76.83  | -17.83 | -17.83 | -17.83 |
|       | Fu.C.41 | 0.00   |      |       | -49.26  | 0.000 | 0.000 D  | -55.60  | -17.59 | -17.59 | -17.59 |
|       | Fu.C.43 | 0.00   |      |       | -44.70  | 0.000 | 0.000 D  | -73.57  | -15.97 | -15.97 | -15.97 |
|       | Fu.C.44 | 0.00   |      |       | -43.81  | 0.000 | 0.000 D  | -49.08  | -15.65 | -15.65 | -15.65 |
|       | Fu.C.46 | 0.00   |      |       | -43.82  | 0.000 | 0.000 D  | -49.15  | -15.65 | -15.65 | -15.65 |
| S5    | Fu.C.1  | -38.17 |      |       | -63.59  | 0.000 | 0.000 D  | -28.17  | -15.89 | -15.89 | -15.89 |
|       | Fu.C.2  | 25.54  |      |       | 33.38   | 0.000 | 0.000 T  | 7.89    | 6.26   | 6.26   | 3.54   |
|       | Fu.C.4  | 7.28   |      |       | 3.65    | 0.000 | 0.000 T  | 1.60    | -0.91  | -3.63  | -3.63  |
|       | Fu.C.5  | 22.59  |      |       | 29.49   | 0.000 | 0.000 D  | -3.85   | 5.67   | 5.67   | 2.95   |
|       | Fu.C.6  | 22.93  |      |       | 31.30   | 0.000 | 0.000 T  | 7.77    | 6.13   | 6.13   | 4.34   |
|       | Fu.C.8  | 4.67   |      |       | 1.58    | 0.000 | 0.000 T  | 1.49    | -1.04  | -2.82  | -2.82  |
|       | Fu.C.9  | 19.98  |      |       | 27.41   | 0.000 | 0.000 D  | -3.97   | 5.54   | 5.54   | 3.76   |
|       | Fu.C.11 | -20.93 |      |       | -47.14  | 0.000 | 0.000 D  | -31.66  | -13.60 | -19.15 | -19.15 |
|       | Fu.C.13 | -2.67  |      |       | -17.41  | 0.000 | 0.000 D  | -25.37  | -6.43  | -11.99 | -11.99 |
|       | Fu.C.15 | -23.54 |      |       | -49.21  | 0.000 | 0.000 D  | -31.78  | -13.73 | -18.35 | -18.35 |
|       | Fu.C.17 | -5.28  |      |       | -19.48  | 0.000 | 0.000 D  | -25.49  | -6.57  | -11.18 | -11.18 |

| Wopereis Staalbouw |  |  |  |  |  |  |  | Pos 5 - Tussenspannt |  |  |  |
|--------------------|--|--|--|--|--|--|--|----------------------|--|--|--|
|--------------------|--|--|--|--|--|--|--|----------------------|--|--|--|

| Staaf | B.C.    | Mb      | Mmax   | xMmax | Me      | x-M0  | x-M0 T/D | Nmax   | Vb     | Vmax   | Ve     |
|-------|---------|---------|--------|-------|---------|-------|----------|--------|--------|--------|--------|
| S5    | Fu.C.18 | -6.45   | -7.36  | 1.055 | -7.12   | 0.000 | 0.000 T  | 2.83   | -1.72  | -1.72  | 0.89   |
|       | Fu.C.20 | -10.74  |        |       | -13.33  | 0.000 | 0.000 D  | -5.55  | -2.92  | -2.92  | -0.32  |
|       | Fu.C.21 | -27.65  |        |       | -41.76  | 0.000 | 0.000 D  | -4.92  | -10.12 | -10.12 | -7.52  |
|       | Fu.C.22 | -9.06   | -9.84  | 0.836 | -9.19   | 0.000 | 0.000 T  | 2.71   | -1.85  | -1.85  | 1.69   |
|       | Fu.C.24 | -13.35  | -15.46 | 1.379 | -15.41  | 0.000 | 0.000 D  | -5.67  | -3.05  | -3.05  | 0.49   |
|       | Fu.C.25 | -30.26  |        |       | -43.84  | 0.000 | 0.000 D  | -5.03  | -10.26 | -10.26 | -6.71  |
|       | Fu.C.29 | -52.91  |        |       | -88.66  | 0.000 | 0.000 D  | -26.44 | -22.23 | -22.46 | -22.46 |
|       | Fu.C.33 | -55.52  |        |       | -90.73  | 0.000 | 0.000 D  | -26.56 | -22.36 | -22.36 | -21.65 |
|       | Fu.C.34 | -98.94  |        |       | -161.01 | 0.000 | 0.000 D  | -68.43 | -38.79 | -38.79 | -38.79 |
|       | Fu.C.35 | -90.14  |        |       | -147.32 | 0.000 | 0.000 D  | -59.35 | -35.74 | -35.74 | -35.74 |
|       | Fu.C.36 | -86.69  |        |       | -141.21 | 0.000 | 0.000 D  | -64.06 | -34.08 | -34.08 | -34.08 |
|       | Fu.C.37 | -43.06  |        |       | -71.59  | 0.000 | 0.000 D  | -31.67 | -17.83 | -17.83 | -17.83 |
|       | Fu.C.38 | -42.41  |        |       | -71.06  | 0.000 | 0.000 D  | -31.62 | -17.91 | -17.91 | -17.91 |
|       | Fu.C.39 | -45.11  |        |       | -73.25  | 0.000 | 0.000 D  | -31.81 | -17.59 | -17.59 | -17.59 |
|       | Fu.C.40 | -43.08  |        |       | -71.61  | 0.000 | 0.000 D  | -31.67 | -17.83 | -17.83 | -17.83 |
|       | Fu.C.41 | -45.09  |        |       | -73.24  | 0.000 | 0.000 D  | -31.81 | -17.59 | -17.59 | -17.59 |
|       | Fu.C.43 | -37.52  |        |       | -63.06  | 0.000 | 0.000 D  | -28.13 | -15.97 | -15.97 | -15.97 |
|       | Fu.C.44 | -40.22  |        |       | -65.25  | 0.000 | 0.000 D  | -28.32 | -15.65 | -15.65 | -15.65 |
|       | Fu.C.46 | -40.20  |        |       | -65.24  | 0.000 | 0.000 D  | -28.31 | -15.65 | -15.65 | -15.65 |
| S6    | Fu.C.1  | -63.59  |        |       | -47.57  | 0.000 | 0.000 D  | -22.72 | 16.02  | 16.02  | 14.12  |
|       | Fu.C.2  | 33.38   |        |       | 28.09   | 0.000 | 0.000 D  | -4.56  | -5.66  | -5.66  | -4.24  |
|       | Fu.C.4  | 3.65    |        |       | 2.06    | 0.000 | 0.000 D  | -13.44 | -2.20  | -2.20  | -0.78  |
|       | Fu.C.5  | 29.49   |        |       | 33.09   | 0.000 | 0.000 D  | -8.84  | 4.40   | 4.40   | 2.40   |
|       | Fu.C.6  | 31.30   |        |       | 26.43   | 0.000 | 0.000 D  | -3.84  | -5.28  | -5.28  | -3.86  |
|       | Fu.C.8  | 1.58    |        |       | 0.39    | 0.000 | 0.000 D  | -12.72 | -1.81  | -1.81  | -0.39  |
|       | Fu.C.9  | 27.41   |        |       | 31.43   | 0.000 | 0.000 D  | -8.12  | 4.78   | 4.78   | 2.79   |
|       | Fu.C.11 | -47.14  |        |       | -25.82  | 0.000 | 0.000 D  | -38.80 | 22.15  | 22.15  | 17.95  |
|       | Fu.C.13 | -17.41  |        |       | 0.22    | 1.049 | 0.000 D  | -29.92 | 18.69  | 18.69  | 14.49  |
|       | Fu.C.15 | -49.21  |        |       | -27.48  | 0.000 | 0.000 D  | -38.08 | 22.54  | 22.54  | 18.34  |
|       | Fu.C.17 | -19.48  |        |       | -1.44   | 0.000 | 0.000 D  | -29.20 | 19.07  | 19.07  | 14.87  |
|       | Fu.C.18 | -7.12   |        |       | -8.20   | 0.000 | 0.000 D  | -5.75  | -1.23  | -1.23  | -0.77  |
|       | Fu.C.20 | -13.33  |        |       | -7.97   | 0.000 | 0.000 D  | -9.46  | 5.47   | 5.47   | 4.64   |
|       | Fu.C.21 | -41.76  |        |       | -38.97  | 0.000 | 0.000 D  | -16.01 | 2.41   | 2.87   | 2.87   |
|       | Fu.C.22 | -9.19   |        |       | -9.86   | 0.000 | 0.000 D  | -5.03  | -0.84  | -0.84  | -0.39  |
|       | Fu.C.24 | -15.41  |        |       | -9.63   | 0.000 | 0.000 D  | -8.74  | 5.85   | 5.85   | 5.03   |
|       | Fu.C.25 | -43.84  |        |       | -40.63  | 0.000 | 0.000 D  | -15.29 | 2.80   | 3.25   | 3.25   |
|       | Fu.C.29 | -88.66  |        |       | -71.84  | 0.000 | 0.000 D  | -37.09 | 16.70  | 16.70  | 14.95  |
|       | Fu.C.33 | -90.73  |        |       | -73.50  | 0.000 | 0.000 D  | -36.38 | 17.09  | 17.09  | 15.34  |
|       | Fu.C.34 | -161.01 |        |       | -120.90 | 0.000 | 0.000 D  | -55.80 | 40.00  | 40.00  | 35.44  |
|       | Fu.C.35 | -147.32 |        |       | -114.47 | 0.000 | 0.000 D  | -49.83 | 32.51  | 32.51  | 29.28  |
|       | Fu.C.36 | -141.21 |        |       | -103.75 | 0.000 | 0.000 D  | -49.87 | 37.51  | 37.51  | 32.94  |
|       | Fu.C.37 | -71.59  |        |       | -53.57  | 0.000 | 0.000 D  | -25.51 | 18.02  | 18.02  | 15.89  |
|       | Fu.C.38 | -71.06  |        |       | -53.12  | 0.000 | 0.000 D  | -25.57 | 17.95  | 17.95  | 15.82  |
|       | Fu.C.39 | -73.25  |        |       | -55.00  | 0.000 | 0.000 D  | -25.34 | 18.24  | 18.24  | 16.11  |
|       | Fu.C.40 | -71.61  |        |       | -53.58  | 0.000 | 0.000 D  | -25.51 | 18.02  | 18.02  | 15.89  |
|       | Fu.C.41 | -73.24  |        |       | -54.99  | 0.000 | 0.000 D  | -25.34 | 18.24  | 18.24  | 16.10  |
|       | Fu.C.43 | -63.06  |        |       | -47.12  | 0.000 | 0.000 D  | -22.78 | 15.95  | 15.95  | 14.06  |
|       | Fu.C.44 | -65.25  |        |       | -49.00  | 0.000 | 0.000 D  | -22.54 | 16.24  | 16.24  | 14.34  |
|       | Fu.C.46 | -65.24  |        |       | -48.99  | 0.000 | 0.000 D  | -22.54 | 16.24  | 16.24  | 14.34  |
| S7    | Fu.C.1  | -47.57  |        |       | 10.65   | 4.694 | 0.000 D  | -22.03 | 14.12  | 14.12  | 1.24   |
|       | Fu.C.2  | 28.09   |        |       | 3.54    | 0.000 | 0.000 D  | -3.98  | -4.24  | -4.24  | -2.85  |
|       | Fu.C.4  | 2.06    | 1.81   | 1.260 | 3.78    | 0.000 | 0.000 D  | -12.86 | -0.78  | -0.78  | 0.62   |
|       | Fu.C.5  | 33.09   | 34.81  | 1.495 | 6.90    | 0.000 | 0.000 D  | -8.26  | 2.40   | -9.17  | -9.17  |
|       | Fu.C.6  | 26.43   |        |       | 4.79    | 0.000 | 0.000 D  | -3.27  | -3.86  | -3.86  | -2.46  |
|       | Fu.C.8  | 0.39    | 0.34   | 0.279 | 5.03    | 0.000 | 0.000 D  | -12.15 | -0.39  | 1.01   | 1.01   |
|       | Fu.C.9  | 31.43   | 33.77  | 1.750 | 8.16    | 0.000 | 0.000 D  | -7.54  | 2.79   | -8.79  | -8.79  |
|       | Fu.C.11 | -25.82  | 18.69  | 4.995 | 6.79    | 1.757 | 0.000 D  | -38.11 | 17.95  | 17.95  | -9.21  |
|       | Fu.C.13 | 0.22    | 29.10  | 4.023 | 6.55    | 0.000 | 0.000 D  | -29.23 | 14.49  | 14.49  | -12.68 |
|       | Fu.C.15 | -27.48  | 18.97  | 5.103 | 8.04    | 1.841 | 0.000 D  | -37.39 | 18.34  | 18.34  | -8.83  |
|       | Fu.C.17 | -1.44   | 29.00  | 4.131 | 7.80    | 0.098 | 0.000 D  | -28.51 | 14.87  | 14.87  | -12.29 |
|       | Fu.C.18 | -8.20   | -8.80  | 1.551 | 1.87    | 7.182 | 0.000 D  | -5.18  | -0.77  | 5.06   | 5.06   |
|       | Fu.C.20 | -7.97   | 7.29   | 6.574 | 6.93    | 2.030 | 0.000 D  | -8.89  | 4.64   | 4.64   | -0.71  |
|       | Fu.C.21 | -38.97  |        |       | -1.29   | 0.000 | 0.000 D  | -15.44 | 2.87   | 8.70   | 8.70   |
|       | Fu.C.22 | -9.86   | -10.01 | 0.779 | 3.13    | 6.937 | 0.000 D  | -4.46  | -0.39  | 5.44   | 5.44   |
|       | Fu.C.24 | -9.63   | 8.26   | 7.120 | 8.19    | 2.282 | 0.000 D  | -8.17  | 5.03   | 5.03   | -0.33  |
|       | Fu.C.25 | -40.63  |        |       | -0.04   | 0.000 | 0.000 D  | -14.72 | 3.25   | 9.08   | 9.08   |

| Wopereis Staalbouw |  |  |  |  |  | Pos 5 - Tussenspannt |  |  |  |  |  |
|--------------------|--|--|--|--|--|----------------------|--|--|--|--|--|
|--------------------|--|--|--|--|--|----------------------|--|--|--|--|--|

| Staaf | B.C.    | Mb      | Mmax | xMmax | Me    | x-M0  | x-M0 T/D | Nmax    | Vb    | Vmax  | Ve   |
|-------|---------|---------|------|-------|-------|-------|----------|---------|-------|-------|------|
| S7    | Fu.C.29 | -71.84  |      |       | -1.65 | 0.000 | 0.000 D  | -36.41  | 14.95 | 14.95 | 5.19 |
|       | Fu.C.33 | -73.50  |      |       | -0.39 | 0.000 | 0.000 D  | -35.69  | 15.34 | 15.34 | 5.58 |
|       | Fu.C.34 | -120.90 |      |       | 26.84 | 4.752 | 0.000 D  | -54.14  | 35.44 | 35.44 | 3.54 |
|       | Fu.C.35 | -114.47 |      |       | 22.62 | 5.357 | 0.000 D  | -48.66  | 29.28 | 29.28 | 6.89 |
|       | Fu.C.36 | -103.75 |      |       | 25.08 | 4.368 | 0.000 D  | -48.21  | 32.94 | 32.94 | 1.05 |
|       | Fu.C.37 | -53.57  |      |       | 11.99 | 4.699 | 0.000 D  | -24.74  | 15.89 | 15.89 | 1.41 |
|       | Fu.C.38 | -53.12  |      |       | 11.92 | 4.680 | 0.000 D  | -24.80  | 15.82 | 15.82 | 1.34 |
|       | Fu.C.39 | -55.00  |      |       | 12.21 | 4.757 | 0.000 D  | -24.56  | 16.11 | 16.11 | 1.63 |
|       | Fu.C.40 | -53.58  |      |       | 11.99 | 4.700 | 0.000 D  | -24.74  | 15.89 | 15.89 | 1.41 |
|       | Fu.C.41 | -54.99  |      |       | 12.20 | 4.757 | 0.000 D  | -24.56  | 16.10 | 16.10 | 1.63 |
|       | Fu.C.43 | -47.12  |      |       | 10.59 | 4.673 | 0.000 D  | -22.09  | 14.06 | 14.06 | 1.17 |
|       | Fu.C.44 | -49.00  |      |       | 10.87 | 4.759 | 0.000 D  | -21.85  | 14.34 | 14.34 | 1.46 |
|       | Fu.C.46 | -48.99  |      |       | 10.87 | 4.759 | 0.000 D  | -21.85  | 14.34 | 14.34 | 1.45 |
| S8    | Fu.C.1  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -126.34 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.2  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -116.22 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.4  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.65 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.5  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -116.63 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.6  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -116.20 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.8  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.63 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.9  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -116.61 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.11 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -127.22 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.13 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -127.78 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.15 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -127.20 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.17 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -127.76 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.18 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.15 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.20 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.44 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.21 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -114.42 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.22 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.13 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.24 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -115.42 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.25 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -114.39 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.29 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -125.57 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.33 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -125.55 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.34 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -125.29 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.35 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -125.20 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.36 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -125.59 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.37 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -134.77 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.38 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -104.96 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.39 | 0.00    |      |       | 0.00  | 1.867 | 0.000 D  | -106.49 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.40 | 0.00    |      |       | 0.00  | 1.867 | 0.000 D  | -135.17 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.41 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -106.10 | 0.00  | 0.00  | 0.00 |
|       | Fu.C.43 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -96.52  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.44 | 0.00    |      |       | 0.00  | 1.867 | 0.000 D  | -98.06  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.46 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -97.66  | 0.00  | 0.00  | 0.00 |
| S9    | Fu.C.1  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.14  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.2  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.24  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.4  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.33  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.5  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.17  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.6  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.24  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.8  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.33  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.9  | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.17  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.11 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -50.99  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.13 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -50.90  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.15 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.00  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.17 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -50.90  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.18 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.41  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.20 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.36  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.21 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.53  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.22 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.42  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.24 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.37  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.25 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -46.54  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.29 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.27  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.33 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.27  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.34 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.31  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.35 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.33  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.36 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -51.26  | 0.00  | 0.00  | 0.00 |
|       | Fu.C.37 | 0.00    |      |       | 0.00  | 0.933 | 1.867 D  | -54.59  | 0.00  | 0.00  | 0.00 |

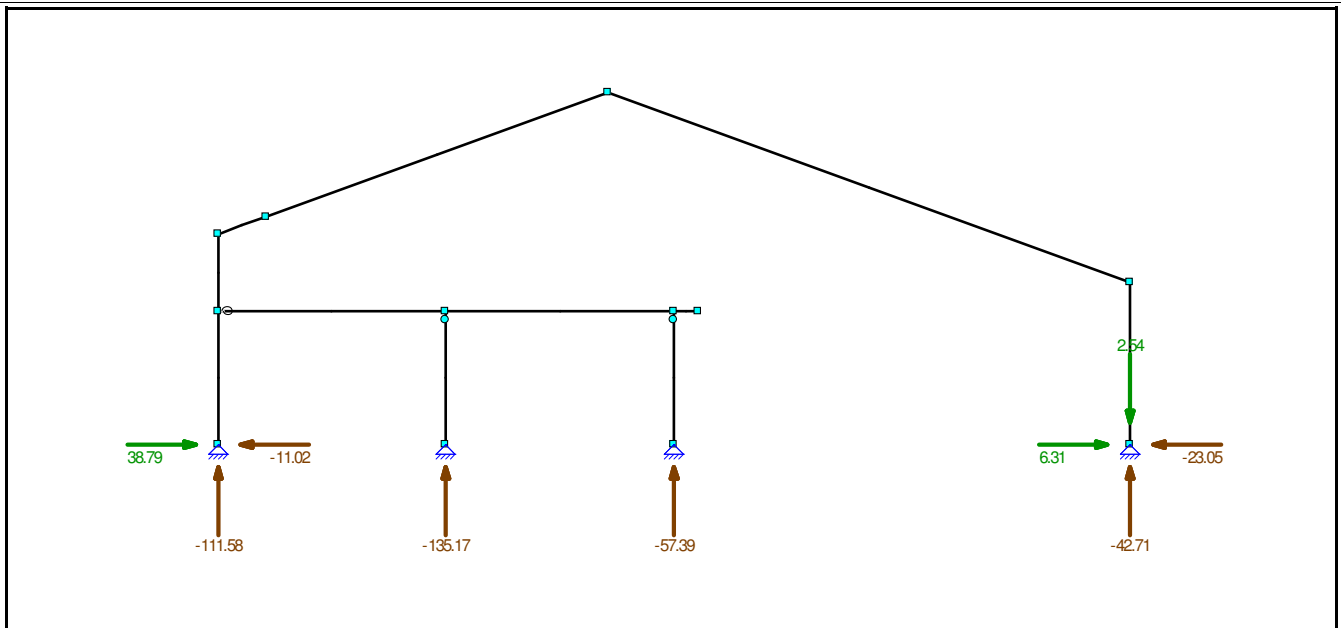
| Wopereis Staalbouw |  |  |  |  |  | Pos 5 - Tussenspannt |  |  |  |  |  |
|--------------------|--|--|--|--|--|----------------------|--|--|--|--|--|
|--------------------|--|--|--|--|--|----------------------|--|--|--|--|--|

| Staaf | B.C.    | Mb    | Mmax   | xMmax  | Me     | x-M0  | x-M0 T/D | Nmax   | Vb    | Vmax   | Ve     |
|-------|---------|-------|--------|--------|--------|-------|----------|--------|-------|--------|--------|
| S9    | Fu.C.38 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -33.92 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.39 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -52.08 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.40 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -49.29 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.41 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -57.39 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.43 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -30.46 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.44 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -48.62 | 0.00  | 0.00   | 0.00   |
|       | Fu.C.46 | 0.00  |        |        | 0.00   | 0.933 | 1.867 D  | -53.93 | 0.00  | 0.00   | 0.00   |
| S10   | Fu.C.1  | 0.00  |        |        | 26.74  | 0.000 | 0.000 D  | -18.31 | 7.86  | 7.86   | 7.86   |
|       | Fu.C.2  | 0.00  |        |        | 18.37  | 0.000 | 0.000 D  | -1.05  | 8.17  | 8.17   | 2.64   |
|       | Fu.C.4  | 0.00  |        |        | 24.17  | 0.000 | 0.000 D  | -9.78  | 9.88  | 9.88   | 4.34   |
|       | Fu.C.5  | 0.00  |        |        | 39.38  | 0.000 | 0.000 D  | -5.53  | 14.35 | 14.35  | 8.82   |
|       | Fu.C.6  | 0.00  |        |        | 19.02  | 0.000 | 0.000 D  | -0.93  | 9.36  | 9.36   | 1.83   |
|       | Fu.C.8  | 0.00  |        |        | 24.83  | 0.000 | 0.000 D  | -9.67  | 11.07 | 11.07  | 3.54   |
|       | Fu.C.9  | 0.00  |        |        | 40.04  | 0.000 | 0.000 D  | -5.42  | 15.54 | 15.54  | 8.01   |
|       | Fu.C.11 | 0.00  |        |        | 75.14  | 0.000 | 0.000 D  | -34.21 | 21.85 | 22.35  | 22.35  |
|       | Fu.C.13 | 0.00  |        |        | 69.34  | 0.000 | 0.000 D  | -25.47 | 20.15 | 20.64  | 20.64  |
|       | Fu.C.15 | 0.00  |        |        | 75.80  | 0.000 | 0.000 D  | -34.09 | 23.05 | 23.05  | 21.54  |
|       | Fu.C.17 | 0.00  |        |        | 69.99  | 0.000 | 0.000 D  | -25.35 | 21.34 | 21.34  | 19.83  |
|       | Fu.C.18 | 0.00  |        |        | -11.62 | 0.000 | 0.000 T  | 3.72   | -6.31 | -6.31  | -0.53  |
|       | Fu.C.20 | 0.00  | -0.21  | 0.501  | 6.94   | 1.002 | 0.000 D  | -1.73  | -0.85 | 4.93   | 4.93   |
|       | Fu.C.21 | 0.00  | -7.66  | 3.001  | -7.53  | 0.000 | 0.000 D  | -10.47 | -5.11 | -5.11  | 0.68   |
|       | Fu.C.22 | 0.00  |        |        | -10.96 | 0.000 | 0.000 T  | 3.84   | -5.12 | -5.12  | -1.33  |
|       | Fu.C.24 | 0.00  |        |        | 7.59   | 0.000 | 0.000 D  | -1.61  | 0.34  | 4.13   | 4.13   |
|       | Fu.C.25 | 0.00  |        |        | -6.87  | 0.000 | 0.000 D  | -10.35 | -3.91 | -3.91  | -0.13  |
|       | Fu.C.29 | 0.00  |        |        | 22.43  | 0.000 | 0.000 D  | -30.41 | 0.69  | 12.50  | 12.50  |
|       | Fu.C.33 | 0.00  |        |        | 23.09  | 0.000 | 0.000 D  | -30.29 | 1.88  | 11.70  | 11.70  |
|       | Fu.C.34 | 0.00  |        |        | 64.37  | 0.000 | 0.000 D  | -42.71 | 18.93 | 18.93  | 18.93  |
|       | Fu.C.35 | 0.00  |        |        | 53.99  | 0.000 | 0.000 D  | -40.26 | 15.88 | 15.88  | 15.88  |
|       | Fu.C.36 | 0.00  |        |        | 48.33  | 0.000 | 0.000 D  | -31.64 | 14.22 | 14.22  | 14.22  |
|       | Fu.C.37 | 0.00  |        |        | 29.97  | 0.000 | 0.000 D  | -20.56 | 8.82  | 8.82   | 8.82   |
|       | Fu.C.38 | 0.00  |        |        | 30.24  | 0.000 | 0.000 D  | -20.61 | 8.89  | 8.89   | 8.89   |
|       | Fu.C.39 | 0.00  |        |        | 29.15  | 0.000 | 0.000 D  | -20.42 | 8.57  | 8.57   | 8.57   |
|       | Fu.C.40 | 0.00  |        |        | 29.97  | 0.000 | 0.000 D  | -20.56 | 8.81  | 8.81   | 8.81   |
|       | Fu.C.41 | 0.00  |        |        | 29.16  | 0.000 | 0.000 D  | -20.42 | 8.58  | 8.58   | 8.58   |
|       | Fu.C.43 | 0.00  |        |        | 27.00  | 0.000 | 0.000 D  | -18.36 | 7.94  | 7.94   | 7.94   |
|       | Fu.C.44 | 0.00  |        |        | 25.92  | 0.000 | 0.000 D  | -18.17 | 7.62  | 7.62   | 7.62   |
|       | Fu.C.46 | 0.00  |        |        | 25.92  | 0.000 | 0.000 D  | -18.17 | 7.62  | 7.62   | 7.62   |
| S11   | Fu.C.1  | 10.65 | 23.47  | 3.884  | -26.74 | 9.139 | 0.000 D  | -13.11 | 6.60  | -13.07 | -13.07 |
|       | Fu.C.2  | 3.54  | -19.65 | 9.302  | -18.37 | 0.573 | 0.000 T  | 3.55   | -6.69 | -6.69  | 1.13   |
|       | Fu.C.4  | 3.78  | 5.75   | 2.364  | -24.17 | 6.399 | 0.000 D  | -6.98  | 1.67  | -6.50  | -6.50  |
|       | Fu.C.5  | 6.90  |        |        | -39.38 | 0.861 | 0.000 D  | -9.73  | -8.80 | -8.80  | -0.98  |
|       | Fu.C.6  | 4.79  | -19.96 | 9.633  | -19.02 | 0.779 | 0.000 T  | 4.35   | -6.85 | -6.85  | 0.97   |
|       | Fu.C.8  | 5.03  | 6.63   | 2.130  | -24.83 | 6.465 | 0.000 D  | -6.18  | 1.50  | -6.66  | -6.66  |
|       | Fu.C.9  | 8.16  |        |        | -40.04 | 1.014 | 0.000 D  | -8.94  | -8.96 | -8.96  | -1.14  |
|       | Fu.C.11 | 6.79  | 21.13  | 3.222  | -75.14 | 7.133 | 0.000 D  | -32.15 | 8.90  | -23.06 | -23.06 |
|       | Fu.C.13 | 6.55  | 7.10   | 1.664  | -69.34 | 4.684 | 0.000 D  | -27.56 | 0.55  | -15.43 | -15.43 |
|       | Fu.C.15 | 8.04  | 21.86  | 3.163  | -75.80 | 7.140 | 0.000 D  | -31.35 | 8.74  | -23.23 | -23.23 |
|       | Fu.C.17 | 7.80  | 8.09   | 1.529  | -69.99 | 4.782 | 0.000 D  | -26.77 | 0.38  | -15.60 | -15.60 |
|       | Fu.C.18 | 1.87  |        |        | 11.62  | 0.000 | 0.000 T  | 7.71   | 0.14  | 3.32   | 3.32   |
|       | Fu.C.20 | 6.93  | -7.51  | 10.663 | -6.94  | 4.066 | 0.000 D  | -4.78  | -1.90 | -1.90  | 1.27   |
|       | Fu.C.21 | -1.29 | 28.74  | 6.312  | 7.53   | 0.138 | 0.000 D  | -3.77  | 9.52  | 9.52   | -8.40  |
|       | Fu.C.22 | 3.13  | 3.12   | 0.288  | 10.96  | 0.000 | 0.000 T  | 8.51   | -0.03 | 3.15   | 3.15   |
|       | Fu.C.24 | 8.19  | -8.03  | 10.780 | -7.59  | 4.420 | 0.000 D  | -3.99  | -2.07 | -2.07  | 1.11   |
|       | Fu.C.25 | -0.04 | 28.96  | 6.202  | 6.87   | 0.004 | 0.000 D  | -2.97  | 9.35  | 9.35   | -8.56  |
|       | Fu.C.29 | -1.65 | 48.23  | 5.290  | -22.43 | 0.088 | 10.490 D | -21.60 | 18.86 | -22.85 | -22.85 |
|       | Fu.C.33 | -0.39 | 48.61  | 5.244  | -23.09 | 0.021 | 10.465 D | -20.80 | 18.69 | -23.02 | -23.02 |
|       | Fu.C.34 | 26.84 | 59.02  | 3.911  | -64.37 | 9.208 | 0.000 D  | -31.85 | 16.45 | -32.22 | -32.22 |
|       | Fu.C.35 | 22.62 | 59.92  | 4.211  | -53.99 | 9.548 | 0.000 D  | -28.14 | 17.72 | -30.96 | -30.96 |
|       | Fu.C.36 | 25.08 | 44.61  | 3.637  | -48.33 | 9.133 | 0.000 D  | -23.63 | 10.74 | -23.43 | -23.43 |
|       | Fu.C.37 | 11.99 | 26.41  | 3.886  | -29.97 | 9.145 | 0.000 D  | -14.71 | 7.42  | -14.68 | -14.68 |
|       | Fu.C.38 | 11.92 | 26.28  | 3.877  | -30.24 | 9.123 | 0.000 D  | -14.80 | 7.41  | -14.69 | -14.69 |
|       | Fu.C.39 | 12.21 | 26.83  | 3.913  | -29.15 | 9.214 | 0.000 D  | -14.43 | 7.47  | -14.62 | -14.62 |
|       | Fu.C.40 | 11.99 | 26.41  | 3.886  | -29.97 | 9.145 | 0.000 D  | -14.71 | 7.42  | -14.68 | -14.68 |
|       | Fu.C.41 | 12.20 | 26.83  | 3.913  | -29.16 | 9.213 | 0.000 D  | -14.44 | 7.47  | -14.62 | -14.62 |
|       | Fu.C.43 | 10.59 | 23.34  | 3.874  | -27.00 | 9.114 | 0.000 D  | -13.20 | 6.59  | -13.08 | -13.08 |
|       | Fu.C.44 | 10.87 | 23.89  | 3.914  | -25.92 | 9.217 | 0.000 D  | -12.84 | 6.65  | -13.01 | -13.01 |

| Staal | B.C.    | Mb    | Mmax  | xMmax | Me     | x-M0  | x-M0 T/D | Nmax   | Vb   | Vmax   | Ve     |
|-------|---------|-------|-------|-------|--------|-------|----------|--------|------|--------|--------|
| S11   | Fu.C.46 | 10.87 | 23.89 | 3.914 | -25.92 | 9.216 | 0.000 D  | -12.84 | 6.65 | -13.01 | -13.01 |
| -     | -       | kNm   | kNm   | m     | kNm    | m     | m -      | kN     | kN   | kN     | kN     |

AFB. FU.C. OPLEGREACTIES / SUPPORT REACTIONS OMHULLENDE

Fundamenteel Belastingscombinaties



## FU.C. EXTREME OPLEGREACTIES

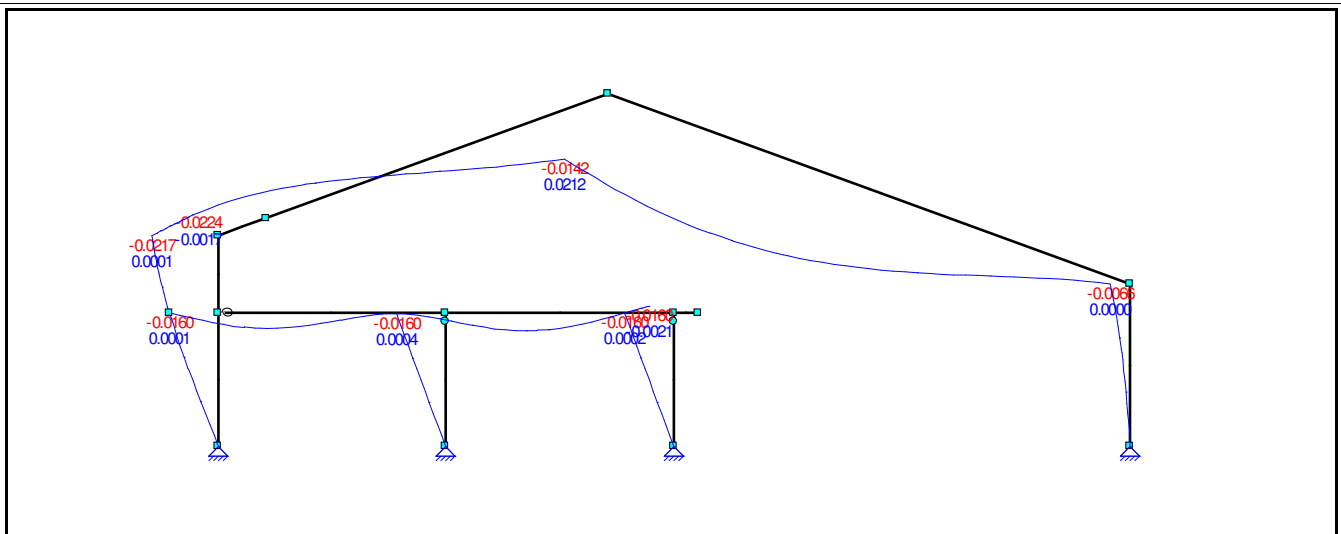
| Oplegging | Knoop | B.C.    | Xmax   | Z       | My B.C. | X       | Zmax    | My B.C. | X    | Z Mymax |
|-----------|-------|---------|--------|---------|---------|---------|---------|---------|------|---------|
| O1        | K1    | Fu.C.34 | 38.79  | -111.58 | 0.00    |         |         |         |      |         |
| O1        | K1    | Fu.C.2  | -11.02 | -30.08  | 0.00    | Fu.C.34 | 38.79   | -111.58 | 0.00 |         |
| O2        | K4    | Fu.C.18 | 6.31   | 2.43    | 0.00    | Fu.C.22 | 5.12    | 2.54    | 0.00 |         |
| O2        | K4    | Fu.C.15 | -23.05 | -34.09  | 0.00    | Fu.C.34 | -18.93  | -42.71  | 0.00 |         |
| O3        | K2    |         |        |         | Fu.C.40 | 0.00    | -135.17 | 0.00    |      |         |
| O4        | K3    |         |        |         | Fu.C.41 | 0.00    | -57.39  | 0.00    |      |         |

## Globale extreme waarden

|    |    |         |        |         |         |      |         |      |    |        |
|----|----|---------|--------|---------|---------|------|---------|------|----|--------|
| O1 | K1 | Fu.C.34 | 38.79  | -111.58 | 0.00    |      |         |      |    |        |
| O2 | K4 | Fu.C.15 | -23.05 | -34.09  | 0.00    |      |         |      |    |        |
| O2 | K4 |         |        |         | Fu.C.22 | 5.12 | 2.54    | 0.00 |    |        |
| O3 | K2 |         |        |         | Fu.C.40 | 0.00 | -135.17 | 0.00 |    |        |
| -  | -  | -       | kN     | kN      | kNm -   | kN   | kN      | kNm  | kN | kN kNm |

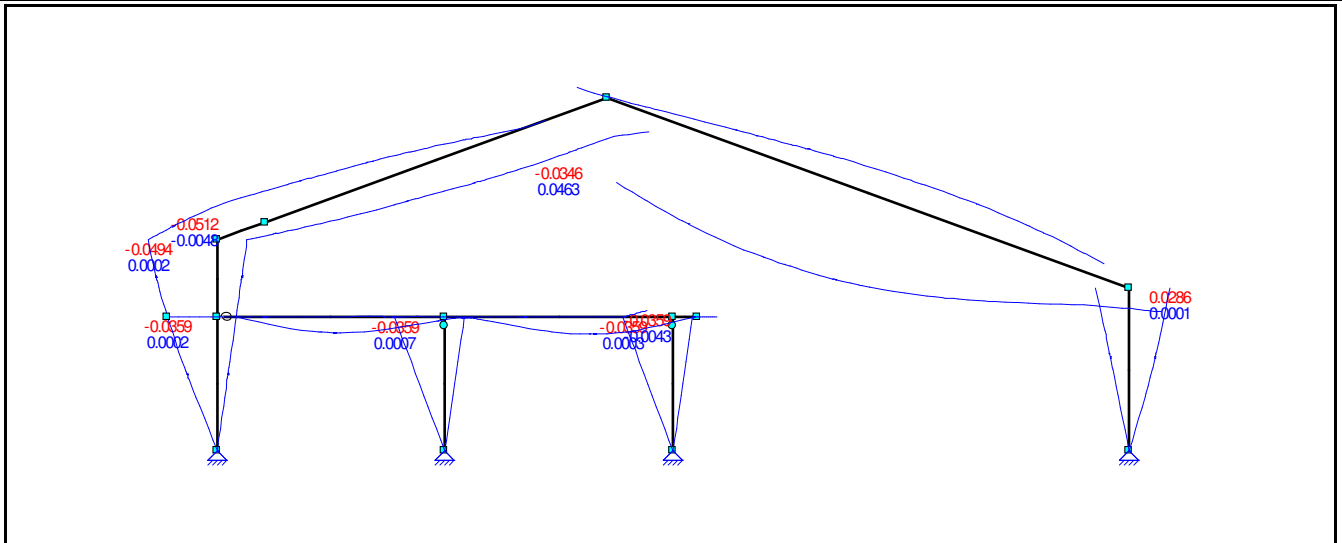
AFB. KA.C.(W1) VERPLAATSINGEN / DISPLACEMENTS

Ka.C.(w1) Belastingscombinaties



AFB. KA.C. VERPLAATSINGEN / DISPLACEMENTS OMHULLENDE

Karakteristiek Belastingscombinaties

**KA.C. KNOOPVERPLAATSINGEN**

| Knoop | B.C.      | X      | Z      | Yr         |
|-------|-----------|--------|--------|------------|
| K1    | Ka.C.(w1) | 0.0000 | 0.0000 | 6.267e-03  |
|       | Ka.C.1    | 0.0000 | 0.0000 | 6.089e-03  |
|       | Ka.C.2    | 0.0000 | 0.0000 | 6.325e-03  |
|       | Ka.C.3    | 0.0000 | 0.0000 | 6.147e-03  |
|       | Ka.C.4    | 0.0000 | 0.0000 | 6.323e-03  |
|       | Ka.C.6    | 0.0000 | 0.0000 | -2.876e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -5.010e-03 |
|       | Ka.C.10   | 0.0000 | 0.0000 | -2.657e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -4.790e-03 |
|       | Ka.C.15   | 0.0000 | 0.0000 | 0.732e-03  |
|       | Ka.C.17   | 0.0000 | 0.0000 | -2.904e-03 |
|       | Ka.C.19   | 0.0000 | 0.0000 | 0.952e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | -2.685e-03 |
|       | Ka.C.22   | 0.0000 | 0.0000 | 4.023e-03  |
|       | Ka.C.24   | 0.0000 | 0.0000 | 2.587e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 8.654e-03  |
|       | Ka.C.26   | 0.0000 | 0.0000 | 4.243e-03  |
|       | Ka.C.28   | 0.0000 | 0.0000 | 2.806e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 8.873e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 10.759e-03 |
| K2    | Ka.C.37   | 0.0000 | 0.0000 | 10.978e-03 |
|       | Ka.C.38   | 0.0000 | 0.0000 | 13.764e-03 |
|       | Ka.C.39   | 0.0000 | 0.0000 | 13.927e-03 |
|       | Ka.C.40   | 0.0000 | 0.0000 | 11.751e-03 |
|       | Ka.C.(w1) | 0.0000 | 0.0000 | 5.711e-03  |
|       | Ka.C.1    | 0.0000 | 0.0000 | 5.526e-03  |
|       | Ka.C.2    | 0.0000 | 0.0000 | 5.771e-03  |
|       | Ka.C.3    | 0.0000 | 0.0000 | 5.587e-03  |
|       | Ka.C.4    | 0.0000 | 0.0000 | 5.769e-03  |
|       | Ka.C.6    | 0.0000 | 0.0000 | -2.783e-03 |
|       | Ka.C.9    | 0.0000 | 0.0000 | -4.933e-03 |
|       | Ka.C.10   | 0.0000 | 0.0000 | -2.602e-03 |
|       | Ka.C.13   | 0.0000 | 0.0000 | -4.753e-03 |
|       | Ka.C.15   | 0.0000 | 0.0000 | 0.443e-03  |
|       | Ka.C.17   | 0.0000 | 0.0000 | -2.991e-03 |
|       | Ka.C.19   | 0.0000 | 0.0000 | 0.624e-03  |
|       | Ka.C.21   | 0.0000 | 0.0000 | -2.810e-03 |
|       | Ka.C.22   | 0.0000 | 0.0000 | 3.693e-03  |
|       | Ka.C.24   | 0.0000 | 0.0000 | 2.222e-03  |
|       | Ka.C.25   | 0.0000 | 0.0000 | 8.085e-03  |
|       | Ka.C.26   | 0.0000 | 0.0000 | 3.873e-03  |
|       | Ka.C.28   | 0.0000 | 0.0000 | 2.402e-03  |
|       | Ka.C.29   | 0.0000 | 0.0000 | 8.265e-03  |
|       | Ka.C.33   | 0.0000 | 0.0000 | 10.027e-03 |
|       | Ka.C.37   | 0.0000 | 0.0000 | 10.208e-03 |
|       | Ka.C.38   | 0.0000 | 0.0000 | 12.554e-03 |

| Knoop | B.C.      | X       | Z      | Yr          |
|-------|-----------|---------|--------|-------------|
| K2    | Ka.C.39   | 0.0000  | 0.0000 | 12.804e-03  |
|       | Ka.C.40   | 0.0000  | 0.0000 | 10.675e-03  |
| K3    | Ka.C.(w1) | 0.0000  | 0.0000 | 5.711e-03   |
|       | Ka.C.1    | 0.0000  | 0.0000 | 5.526e-03   |
|       | Ka.C.2    | 0.0000  | 0.0000 | 5.771e-03   |
|       | Ka.C.3    | 0.0000  | 0.0000 | 5.587e-03   |
|       | Ka.C.4    | 0.0000  | 0.0000 | 5.769e-03   |
|       | Ka.C.6    | 0.0000  | 0.0000 | -2.783e-03  |
|       | Ka.C.9    | 0.0000  | 0.0000 | -4.933e-03  |
|       | Ka.C.10   | 0.0000  | 0.0000 | -2.602e-03  |
|       | Ka.C.13   | 0.0000  | 0.0000 | -4.753e-03  |
|       | Ka.C.15   | 0.0000  | 0.0000 | 0.443e-03   |
|       | Ka.C.17   | 0.0000  | 0.0000 | -2.991e-03  |
|       | Ka.C.19   | 0.0000  | 0.0000 | 0.624e-03   |
|       | Ka.C.21   | 0.0000  | 0.0000 | -2.810e-03  |
|       | Ka.C.22   | 0.0000  | 0.0000 | 3.693e-03   |
|       | Ka.C.24   | 0.0000  | 0.0000 | 2.222e-03   |
|       | Ka.C.25   | 0.0000  | 0.0000 | 8.085e-03   |
|       | Ka.C.26   | 0.0000  | 0.0000 | 3.873e-03   |
|       | Ka.C.28   | 0.0000  | 0.0000 | 2.402e-03   |
|       | Ka.C.29   | 0.0000  | 0.0000 | 8.265e-03   |
|       | Ka.C.33   | 0.0000  | 0.0000 | 10.027e-03  |
|       | Ka.C.37   | 0.0000  | 0.0000 | 10.208e-03  |
| K4    | Ka.C.38   | 0.0000  | 0.0000 | 12.554e-03  |
|       | Ka.C.39   | 0.0000  | 0.0000 | 12.804e-03  |
|       | Ka.C.40   | 0.0000  | 0.0000 | 10.675e-03  |
|       | Ka.C.(w1) | 0.0000  | 0.0000 | 1.155e-03   |
|       | Ka.C.1    | 0.0000  | 0.0000 | 0.934e-03   |
|       | Ka.C.2    | 0.0000  | 0.0000 | 1.226e-03   |
|       | Ka.C.3    | 0.0000  | 0.0000 | 1.006e-03   |
|       | Ka.C.4    | 0.0000  | 0.0000 | 1.224e-03   |
|       | Ka.C.6    | 0.0000  | 0.0000 | -5.468e-03  |
|       | Ka.C.9    | 0.0000  | 0.0000 | -9.718e-03  |
|       | Ka.C.10   | 0.0000  | 0.0000 | -5.524e-03  |
|       | Ka.C.13   | 0.0000  | 0.0000 | -9.773e-03  |
|       | Ka.C.15   | 0.0000  | 0.0000 | -7.333e-03  |
|       | Ka.C.17   | 0.0000  | 0.0000 | -9.971e-03  |
|       | Ka.C.19   | 0.0000  | 0.0000 | -7.389e-03  |
|       | Ka.C.21   | 0.0000  | 0.0000 | -10.026e-03 |
|       | Ka.C.22   | 0.0000  | 0.0000 | 2.979e-03   |
|       | Ka.C.24   | 0.0000  | 0.0000 | -0.498e-03  |
|       | Ka.C.25   | 0.0000  | 0.0000 | 6.938e-03   |
|       | Ka.C.26   | 0.0000  | 0.0000 | 2.923e-03   |
|       | Ka.C.28   | 0.0000  | 0.0000 | -0.554e-03  |
| K5    | Ka.C.29   | 0.0000  | 0.0000 | 6.882e-03   |
|       | Ka.C.33   | 0.0000  | 0.0000 | 6.685e-03   |
|       | Ka.C.37   | 0.0000  | 0.0000 | 6.629e-03   |
|       | Ka.C.38   | 0.0000  | 0.0000 | 2.634e-03   |
|       | Ka.C.39   | 0.0000  | 0.0000 | 4.312e-03   |
|       | Ka.C.40   | 0.0000  | 0.0000 | 2.228e-03   |
|       | Ka.C.(w1) | -0.0160 | 0.0001 | 4.598e-03   |
|       | Ka.C.1    | -0.0155 | 0.0001 | 4.400e-03   |
|       | Ka.C.2    | -0.0162 | 0.0001 | 4.662e-03   |
|       | Ka.C.3    | -0.0156 | 0.0001 | 4.465e-03   |
|       | Ka.C.4    | -0.0162 | 0.0001 | 4.661e-03   |
|       | Ka.C.6    | 0.0078  | 0.0001 | -2.630e-03  |
|       | Ka.C.9    | 0.0138  | 0.0001 | -4.814e-03  |
|       | Ka.C.10   | 0.0073  | 0.0001 | -2.515e-03  |
|       | Ka.C.13   | 0.0133  | 0.0001 | -4.699e-03  |
|       | Ka.C.15   | -0.0012 | 0.0001 | -0.204e-03  |
|       | Ka.C.17   | 0.0084  | 0.0001 | -3.232e-03  |
|       | Ka.C.19   | -0.0017 | 0.0001 | -0.090e-03  |
|       | Ka.C.21   | 0.0079  | 0.0001 | -3.118e-03  |
|       | Ka.C.22   | -0.0103 | 0.0001 | 3.063e-03   |
|       | Ka.C.24   | -0.0062 | 0.0001 | 1.524e-03   |
|       | Ka.C.25   | -0.0226 | 0.0001 | 6.979e-03   |
|       | Ka.C.26   | -0.0108 | 0.0001 | 3.178e-03   |
|       | Ka.C.28   | -0.0067 | 0.0001 | 1.639e-03   |
|       | Ka.C.29   | -0.0231 | 0.0001 | 7.094e-03   |
|       | Ka.C.33   | -0.0281 | 0.0001 | 8.560e-03   |
|       | Ka.C.37   | -0.0286 | 0.0001 | 8.675e-03   |

| Knoop | B.C.      | X       | Z       | Yr         |
|-------|-----------|---------|---------|------------|
| K5    | Ka.C.38   | -0.0352 | 0.0002  | 10.134e-03 |
|       | Ka.C.39   | -0.0359 | 0.0002  | 10.557e-03 |
|       | Ka.C.40   | -0.0299 | 0.0002  | 8.523e-03  |
| K6    | Ka.C.(w1) | -0.0160 | 0.0004  | -0.216e-03 |
|       | Ka.C.1    | -0.0155 | 0.0005  | 2.830e-03  |
|       | Ka.C.2    | -0.0162 | 0.0005  | -3.304e-03 |
|       | Ka.C.3    | -0.0156 | 0.0007  | -0.324e-03 |
|       | Ka.C.4    | -0.0162 | 0.0005  | -3.238e-03 |
|       | Ka.C.6    | 0.0078  | 0.0007  | -0.028e-03 |
|       | Ka.C.9    | 0.0138  | 0.0007  | 0.047e-03  |
|       | Ka.C.10   | 0.0073  | 0.0007  | -0.031e-03 |
|       | Ka.C.13   | 0.0133  | 0.0007  | 0.043e-03  |
|       | Ka.C.15   | -0.0012 | 0.0007  | -0.103e-03 |
|       | Ka.C.17   | 0.0084  | 0.0007  | -0.003e-03 |
|       | Ka.C.19   | -0.0017 | 0.0007  | -0.107e-03 |
|       | Ka.C.21   | 0.0079  | 0.0007  | -0.007e-03 |
|       | Ka.C.22   | -0.0103 | 0.0007  | -0.216e-03 |
|       | Ka.C.24   | -0.0062 | 0.0007  | -0.163e-03 |
|       | Ka.C.25   | -0.0226 | 0.0007  | -0.344e-03 |
|       | Ka.C.26   | -0.0108 | 0.0007  | -0.219e-03 |
|       | Ka.C.28   | -0.0067 | 0.0007  | -0.167e-03 |
|       | Ka.C.29   | -0.0231 | 0.0007  | -0.348e-03 |
|       | Ka.C.33   | -0.0281 | 0.0007  | -0.394e-03 |
|       | Ka.C.37   | -0.0286 | 0.0007  | -0.398e-03 |
|       | Ka.C.38   | -0.0352 | 0.0007  | -0.440e-03 |
|       | Ka.C.39   | -0.0359 | 0.0007  | -0.455e-03 |
|       | Ka.C.40   | -0.0299 | 0.0007  | -0.387e-03 |
| K7    | Ka.C.(w1) | -0.0160 | 0.0002  | 4.474e-03  |
|       | Ka.C.1    | -0.0155 | 0.0002  | 2.781e-03  |
|       | Ka.C.2    | -0.0162 | 0.0003  | 9.157e-03  |
|       | Ka.C.3    | -0.0156 | 0.0002  | 7.713e-03  |
|       | Ka.C.4    | -0.0162 | 0.0003  | 8.908e-03  |
|       | Ka.C.6    | 0.0078  | 0.0003  | 7.351e-03  |
|       | Ka.C.9    | 0.0138  | 0.0003  | 7.315e-03  |
|       | Ka.C.10   | 0.0073  | 0.0003  | 7.353e-03  |
|       | Ka.C.13   | 0.0133  | 0.0003  | 7.317e-03  |
|       | Ka.C.15   | -0.0012 | 0.0003  | 7.388e-03  |
|       | Ka.C.17   | 0.0084  | 0.0003  | 7.339e-03  |
|       | Ka.C.19   | -0.0017 | 0.0003  | 7.390e-03  |
|       | Ka.C.21   | 0.0079  | 0.0003  | 7.341e-03  |
|       | Ka.C.22   | -0.0103 | 0.0003  | 7.443e-03  |
|       | Ka.C.24   | -0.0062 | 0.0003  | 7.418e-03  |
|       | Ka.C.25   | -0.0226 | 0.0003  | 7.506e-03  |
|       | Ka.C.26   | -0.0108 | 0.0003  | 7.445e-03  |
|       | Ka.C.28   | -0.0067 | 0.0003  | 7.420e-03  |
|       | Ka.C.29   | -0.0231 | 0.0003  | 7.508e-03  |
|       | Ka.C.33   | -0.0281 | 0.0003  | 7.531e-03  |
|       | Ka.C.37   | -0.0286 | 0.0003  | 7.533e-03  |
|       | Ka.C.38   | -0.0352 | 0.0003  | 7.553e-03  |
|       | Ka.C.39   | -0.0359 | 0.0003  | 7.561e-03  |
|       | Ka.C.40   | -0.0299 | 0.0003  | 7.527e-03  |
| K8    | Ka.C.(w1) | -0.0160 | -0.0021 | 4.431e-03  |
|       | Ka.C.1    | -0.0155 | -0.0012 | 2.709e-03  |
|       | Ka.C.2    | -0.0162 | -0.0043 | 9.114e-03  |
|       | Ka.C.3    | -0.0156 | -0.0036 | 7.670e-03  |
|       | Ka.C.4    | -0.0162 | -0.0041 | 8.836e-03  |
|       | Ka.C.6    | 0.0078  | -0.0034 | 7.279e-03  |
|       | Ka.C.9    | 0.0138  | -0.0034 | 7.243e-03  |
|       | Ka.C.10   | 0.0073  | -0.0034 | 7.281e-03  |
|       | Ka.C.13   | 0.0133  | -0.0034 | 7.245e-03  |
|       | Ka.C.15   | -0.0012 | -0.0034 | 7.316e-03  |
|       | Ka.C.17   | 0.0084  | -0.0034 | 7.267e-03  |
|       | Ka.C.19   | -0.0017 | -0.0034 | 7.318e-03  |
|       | Ka.C.21   | 0.0079  | -0.0034 | 7.269e-03  |
|       | Ka.C.22   | -0.0103 | -0.0034 | 7.371e-03  |
|       | Ka.C.24   | -0.0062 | -0.0034 | 7.346e-03  |
|       | Ka.C.25   | -0.0226 | -0.0035 | 7.434e-03  |
|       | Ka.C.26   | -0.0108 | -0.0034 | 7.373e-03  |
|       | Ka.C.28   | -0.0067 | -0.0034 | 7.347e-03  |
|       | Ka.C.29   | -0.0231 | -0.0035 | 7.436e-03  |
|       | Ka.C.33   | -0.0281 | -0.0035 | 7.459e-03  |

| Knoop | B.C.      | X       | Z       | Yr         |
|-------|-----------|---------|---------|------------|
| K8    | Ka.C.37   | -0.0286 | -0.0035 | 7.461e-03  |
|       | Ka.C.38   | -0.0352 | -0.0035 | 7.481e-03  |
|       | Ka.C.39   | -0.0359 | -0.0035 | 7.489e-03  |
|       | Ka.C.40   | -0.0299 | -0.0035 | 7.455e-03  |
| K9    | Ka.C.(w1) | -0.0066 | 0.0000  | 3.500e-03  |
|       | Ka.C.1    | -0.0059 | 0.0000  | 3.338e-03  |
|       | Ka.C.2    | -0.0068 | 0.0000  | 3.552e-03  |
|       | Ka.C.3    | -0.0061 | 0.0000  | 3.392e-03  |
|       | Ka.C.4    | -0.0068 | 0.0000  | 3.551e-03  |
|       | Ka.C.6    | 0.0158  | 0.0000  | -3.143e-03 |
|       | Ka.C.9    | 0.0286  | 0.0000  | -5.885e-03 |
|       | Ka.C.10   | 0.0158  | 0.0000  | -3.071e-03 |
|       | Ka.C.13   | 0.0286  | 0.0000  | -5.812e-03 |
|       | Ka.C.15   | 0.0183  | 0.0001  | -1.494e-03 |
|       | Ka.C.17   | 0.0278  | 0.0001  | -4.548e-03 |
|       | Ka.C.19   | 0.0183  | 0.0001  | -1.421e-03 |
|       | Ka.C.21   | 0.0278  | 0.0001  | -4.476e-03 |
|       | Ka.C.22   | -0.0097 | 0.0000  | 2.692e-03  |
|       | Ka.C.24   | 0.0006  | 0.0000  | 0.546e-03  |
|       | Ka.C.25   | -0.0235 | 0.0000  | 6.945e-03  |
|       | Ka.C.26   | -0.0097 | 0.0000  | 2.764e-03  |
|       | Ka.C.28   | 0.0006  | 0.0000  | 0.619e-03  |
|       | Ka.C.29   | -0.0235 | 0.0000  | 7.017e-03  |
|       | Ka.C.33   | -0.0243 | 0.0001  | 8.282e-03  |
|       | Ka.C.37   | -0.0243 | 0.0001  | 8.354e-03  |
| K10   | Ka.C.38   | -0.0147 | 0.0001  | 7.720e-03  |
|       | Ka.C.39   | -0.0196 | 0.0001  | 8.654e-03  |
|       | Ka.C.40   | -0.0120 | 0.0001  | 6.163e-03  |
|       | Ka.C.(w1) | -0.0217 | 0.0001  | 2.340e-03  |
|       | Ka.C.1    | -0.0209 | 0.0001  | 2.205e-03  |
|       | Ka.C.2    | -0.0219 | 0.0001  | 2.383e-03  |
|       | Ka.C.3    | -0.0212 | 0.0001  | 2.249e-03  |
|       | Ka.C.4    | -0.0219 | 0.0001  | 2.382e-03  |
|       | Ka.C.6    | 0.0118  | 0.0001  | -2.348e-03 |
|       | Ka.C.9    | 0.0214  | 0.0001  | -4.651e-03 |
|       | Ka.C.10   | 0.0111  | 0.0001  | -2.319e-03 |
|       | Ka.C.13   | 0.0207  | 0.0001  | -4.622e-03 |
|       | Ka.C.15   | 0.0002  | 0.0001  | -1.809e-03 |
|       | Ka.C.17   | 0.0141  | 0.0001  | -4.005e-03 |
|       | Ka.C.19   | -0.0004 | 0.0001  | -1.780e-03 |
|       | Ka.C.21   | 0.0134  | 0.0001  | -3.975e-03 |
|       | Ka.C.22   | -0.0145 | 0.0001  | 2.063e-03  |
|       | Ka.C.24   | -0.0078 | 0.0001  | 0.341e-03  |
|       | Ka.C.25   | -0.0323 | 0.0001  | 5.010e-03  |
|       | Ka.C.26   | -0.0151 | 0.0001  | 2.092e-03  |
|       | Ka.C.28   | -0.0084 | 0.0001  | 0.370e-03  |
|       | Ka.C.29   | -0.0330 | 0.0001  | 5.039e-03  |
|       | Ka.C.33   | -0.0396 | 0.0001  | 5.656e-03  |
|       | Ka.C.37   | -0.0403 | 0.0001  | 5.685e-03  |
|       | Ka.C.38   | -0.0477 | 0.0002  | 5.175e-03  |
|       | Ka.C.39   | -0.0494 | 0.0002  | 5.988e-03  |
|       | Ka.C.40   | -0.0403 | 0.0002  | 4.119e-03  |
| K11   | Ka.C.(w1) | -0.0224 | -0.0017 | 0.914e-03  |
|       | Ka.C.1    | -0.0215 | -0.0015 | 0.812e-03  |
|       | Ka.C.2    | -0.0226 | -0.0017 | 0.948e-03  |
|       | Ka.C.3    | -0.0218 | -0.0016 | 0.845e-03  |
|       | Ka.C.4    | -0.0226 | -0.0017 | 0.947e-03  |
|       | Ka.C.6    | 0.0126  | 0.0024  | -2.195e-03 |
|       | Ka.C.9    | 0.0230  | 0.0047  | -4.454e-03 |
|       | Ka.C.10   | 0.0120  | 0.0024  | -2.204e-03 |
|       | Ka.C.13   | 0.0224  | 0.0047  | -4.463e-03 |
|       | Ka.C.15   | 0.0010  | 0.0024  | -2.792e-03 |
|       | Ka.C.17   | 0.0156  | 0.0043  | -4.411e-03 |
|       | Ka.C.19   | 0.0004  | 0.0023  | -2.801e-03 |
|       | Ka.C.21   | 0.0149  | 0.0043  | -4.420e-03 |
|       | Ka.C.22   | -0.0152 | -0.0017 | 1.422e-03  |
|       | Ka.C.24   | -0.0078 | 0.0000  | -0.341e-03 |
|       | Ka.C.25   | -0.0340 | -0.0044 | 3.693e-03  |
|       | Ka.C.26   | -0.0158 | -0.0017 | 1.413e-03  |
|       | Ka.C.28   | -0.0084 | 0.0000  | -0.350e-03 |
|       | Ka.C.29   | -0.0346 | -0.0044 | 3.684e-03  |

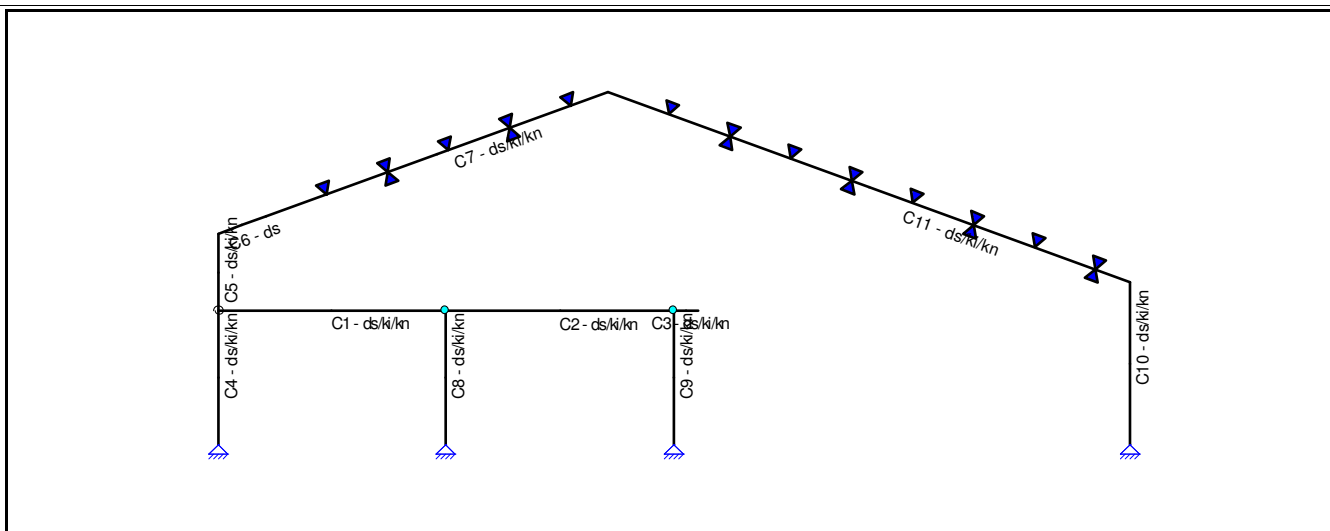
|                           |  |                           |
|---------------------------|--|---------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspan</b> |
|---------------------------|--|---------------------------|

| <b>Knoop</b> | <b>B.C.</b> | <b>X</b> | <b>Z</b> | <b>Yr</b>  |
|--------------|-------------|----------|----------|------------|
| K11          | Ka.C.33     | -0.0415  | -0.0048  | 3.735e-03  |
|              | Ka.C.37     | -0.0421  | -0.0048  | 3.726e-03  |
|              | Ka.C.38     | -0.0492  | -0.0037  | 2.049e-03  |
|              | Ka.C.39     | -0.0512  | -0.0046  | 3.050e-03  |
|              | Ka.C.40     | -0.0414  | -0.0028  | 1.374e-03  |
| K12          | Ka.C.(w1)   | -0.0142  | 0.0212   | -3.373e-03 |
|              | Ka.C.1      | -0.0134  | 0.0211   | -3.282e-03 |
|              | Ka.C.2      | -0.0144  | 0.0212   | -3.402e-03 |
|              | Ka.C.3      | -0.0137  | 0.0211   | -3.312e-03 |
|              | Ka.C.4      | -0.0144  | 0.0212   | -3.401e-03 |
|              | Ka.C.6      | 0.0138   | 0.0058   | 1.261e-03  |
|              | Ka.C.9      | 0.0250   | 0.0102   | 2.830e-03  |
|              | Ka.C.10     | 0.0135   | 0.0066   | 1.187e-03  |
|              | Ka.C.13     | 0.0246   | 0.0110   | 2.756e-03  |
|              | Ka.C.15     | 0.0093   | 0.0257   | -1.223e-03 |
|              | Ka.C.17     | 0.0209   | 0.0195   | 1.285e-03  |
|              | Ka.C.19     | 0.0090   | 0.0266   | -1.297e-03 |
|              | Ka.C.21     | 0.0206   | 0.0203   | 1.211e-03  |
|              | Ka.C.22     | -0.0121  | 0.0068   | -2.004e-03 |
|              | Ka.C.24     | -0.0036  | 0.0118   | -0.854e-03 |
|              | Ka.C.25     | -0.0280  | 0.0125   | -5.164e-03 |
|              | Ka.C.26     | -0.0124  | 0.0076   | -2.078e-03 |
|              | Ka.C.28     | -0.0039  | 0.0127   | -0.929e-03 |
|              | Ka.C.29     | -0.0283  | 0.0134   | -5.238e-03 |
|              | Ka.C.33     | -0.0320  | 0.0218   | -6.709e-03 |
|              | Ka.C.37     | -0.0323  | 0.0227   | -6.783e-03 |
|              | Ka.C.38     | -0.0313  | 0.0463   | -7.406e-03 |
|              | Ka.C.39     | -0.0346  | 0.0418   | -7.974e-03 |
|              | Ka.C.40     | -0.0263  | 0.0397   | -5.619e-03 |
| -            | -           | <b>m</b> | <b>m</b> | <b>rad</b> |

#### KA.C. EXTREME DOORBUIGINGEN

| <b>Staat</b> | <b>B.C.</b> | <b>Knoop Begin</b> |          | <b>Staat</b>  |                | <b>Knoop Eind</b> |          |
|--------------|-------------|--------------------|----------|---------------|----------------|-------------------|----------|
|              |             | <b>X</b>           | <b>Z</b> | <b>Z'afst</b> | <b>Z'</b>      | <b>X</b>          | <b>Z</b> |
| S1           | Ka.C.1      | -0,015             | 0,000    | 2.158         | <b>0.0111</b>  | -0,015            | 0,001    |
| S2           | Ka.C.2      | -0,016             | 0,001    | 2.613         | <b>0.0122</b>  | -0,016            | 0,000    |
| S4           | Ka.C.6      | 0,000              | 0,000    | 1.544         | <b>0.0001</b>  | 0,008             | 0,000    |
| S4           | Ka.C.38     | 0,000              | 0,000    | 1.617         | <b>-0.0013</b> | -0,035            | 0,000    |
| S5           | Ka.C.6      | 0,008              | 0,000    | 0.779         | <b>0.0001</b>  | 0,012             | 0,000    |
| S5           | Ka.C.38     | -0,035             | 0,000    | 0.832         | <b>-0.0010</b> | -0,048            | 0,000    |
| S6           | Ka.C.9      | 0,021              | 0,000    | 0.651         | <b>0.0000</b>  | 0,023             | 0,005    |
| S6           | Ka.C.33     | -0,040             | 0,000    | 0.593         | <b>-0.0002</b> | -0,041            | -0,005   |
| S7           | Ka.C.9      | 0,023              | 0,005    | 3.773         | <b>0.0077</b>  | 0,025             | 0,010    |
| S7           | Ka.C.39     | -0,051             | -0,005   | 2.573         | <b>-0.0106</b> | -0,035            | 0,042    |
| S10          | Ka.C.19     | 0,000              | 0,000    | 1.960         | <b>0.0026</b>  | 0,018             | 0,000    |
| S10          | Ka.C.22     | 0,000              | 0,000    | 1.736         | <b>-0.0001</b> | -0,010            | 0,000    |
| S11          | Ka.C.9      | 0,025              | 0,010    | 7.200         | <b>-0.0132</b> | 0,029             | 0,000    |
| S11          | Ka.C.39     | -0,035             | 0,042    | 5.118         | <b>0.0338</b>  | -0,020            | 0,000    |
| -            | -           | <b>m</b>           | <b>m</b> | <b>m</b>      | <b>m</b>       | <b>m</b>          | <b>m</b> |

## AFB. STAALCONTROLE / STEEL CODE CHECK



## SAMENSTELLING CONSTRUCTIEDELEN

| Constructiedeel | Staal/staven |
|-----------------|--------------|
| C1              | S1           |
| C2              | S2           |
| C3              | S3           |
| C4              | S4           |
| C5              | S5           |
| C6              | S6           |
| C7              | S7           |
| C8              | S8           |
| C9              | S9           |
| C10             | S10          |
| C11             | S11          |

## KNIKLENGTEGEGEVENS

| Staat                   | Profiel | Lokale Y-as |             |        |           | Lokale Z-as       |       |           |
|-------------------------|---------|-------------|-------------|--------|-----------|-------------------|-------|-----------|
|                         |         | Lsys        | methode     | Lbuc   | Lbuc/Lsys | methode           | Lbuc  | Lbuc/Lsys |
| C4 - V1 (0.000-2.800)   | P1      | 2.800       | Ongeschoord | 12.696 | 4.53      | Cons. gesch.      | 2.800 | 1.00      |
| C5 - V1 (0.000-1.600)   | P1      | 1.600       | Ongeschoord | 7.178  | 4.49      | Cons. gesch.      | 1.600 | 1.00      |
| C7 - V1 (0.000-7.580)   | P2      | 7.580       | Ongeschoord | 16.483 | 2.17      | Handmatige Invoer | 2.700 | 0.36      |
| C8 - V1 (0.000-2.800)   | P5      | 2.800       | Geschoord   | 2.695  | 0.96      | Cons. gesch.      | 2.800 | 1.00      |
| C9 - V1 (0.000-2.800)   | P5      | 2.800       | Geschoord   | 2.695  | 0.96      | Cons. gesch.      | 2.800 | 1.00      |
| C10 - V1 (0.000-3.400)  | P2      | 3.400       | Ongeschoord | 10.961 | 3.22      | Cons. gesch.      | 3.400 | 1.00      |
| C11 - V1 (0.000-11.570) | P2      | 11.570      | Ongeschoord | 23.493 | 2.03      | Handmatige Invoer | 2.700 | 0.23      |
| -                       | -       | m           | -           | m      | -         | -                 | m     | -         |

## KIPSTEUNENGEGEVENS

| Staal                   | Profiel | Begin:   | Eind:    | Kipsteunen boven                            | Kipsteunen onder    | Aangrijphoogte |
|-------------------------|---------|----------|----------|---------------------------------------------|---------------------|----------------|
| C1 - V1 (0.000-4.750)   | P4      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C2 - V1 (0.000-4.750)   | P4      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C3 - V1 (0.000-0.500)   | P4      | Gesteund | Overstek |                                             |                     | Centrum        |
| C4 - V1 (0.000-2.800)   | P1      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C5 - V1 (0.000-1.600)   | P1      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C7 - V1 (0.000-7.580)   | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75                  | 2.7, 5.4            | Centrum        |
| C8 - V1 (0.000-2.800)   | P5      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C9 - V1 (0.000-2.800)   | P5      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C10 - V1 (0.000-3.400)  | P2      | Gesteund | Gesteund |                                             |                     | Centrum        |
| C11 - V1 (0.000-11.570) | P2      | Gesteund | Gesteund | 1.35, 2.7, 4.05, 5.4, 6.75, 8.1, 9.45, 10.8 | 2.7, 5.4, 8.1, 10.8 | Centrum        |
| -                       | -       | -        | -        | m                                           | m                   | -              |

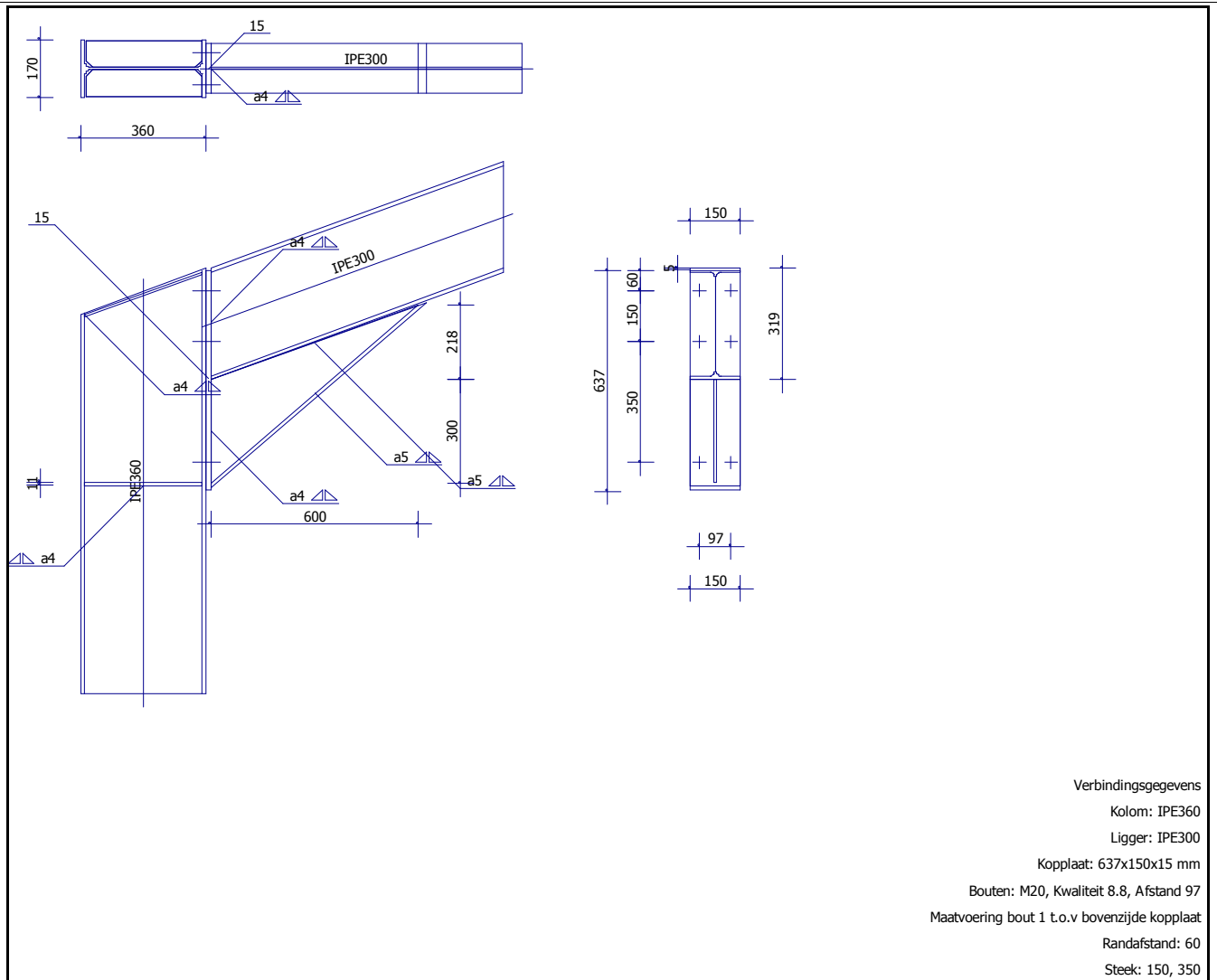
|                           |  |                             |
|---------------------------|--|-----------------------------|
| <b>Wopereis Staalbouw</b> |  | <b>Pos 5 - Tussenspannt</b> |
|---------------------------|--|-----------------------------|

# **UNITY CHECK NEN-EN1993-1-1:2009/NB:2011**

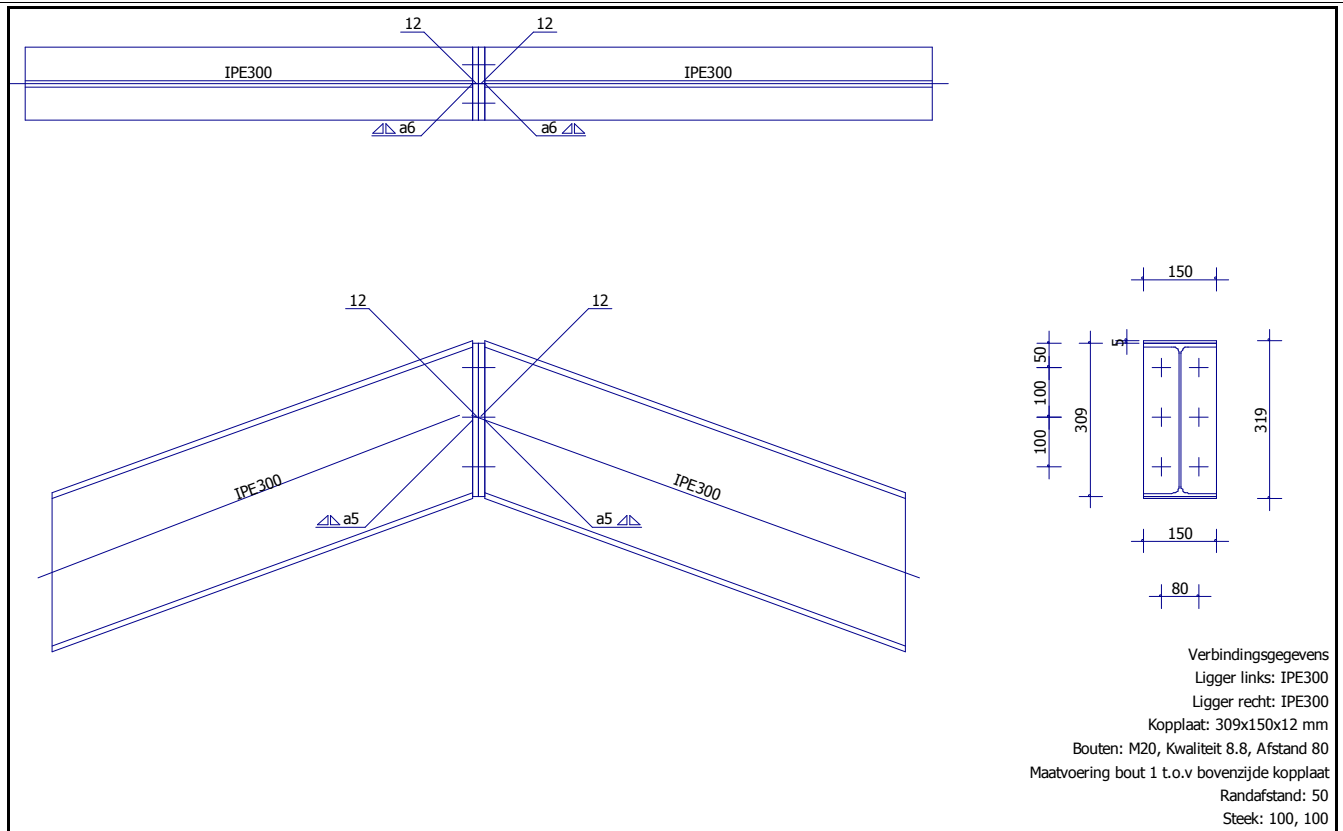
| <b>Veld</b>           | <b>Toetsing</b> | <b>Combinatie</b> | <b>Artikel</b>            | <b>UC max</b> |
|-----------------------|-----------------|-------------------|---------------------------|---------------|
| C1-V1 (0.000-4.750)   | Doorsnede       | Fu.C.40           | NEN-EN1993-1-1(6.12)      | 0,82          |
| C1-V1 (0.000-4.750)   | Kiptoetsing     | Fu.C.40           | NEN-EN1993-1-1(6.54)      | 0,90          |
| C2-V1 (0.000-4.750)   | Doorsnede       | Fu.C.40           | NEN-EN1993-1-1(6.12)      | 0,82          |
| C2-V1 (0.000-4.750)   | Kiptoetsing     | Fu.C.40           | NEN-EN1993-1-1(6.54)      | 0,90          |
| C3-V1 (0.000-0.500)   | Doorsnede       | Fu.C.37           | NEN-EN1993-1-1(6.17)      | 0,06          |
| C3-V1 (0.000-0.500)   | Kiptoetsing     | Fu.C.46           | NEN-EN1993-1-1(6.54)      | 0,00          |
| C4-V1 (0.000-2.800)   | Doorsnede       | Fu.C.34           | NEN-EN1993-1-1(6.12)      | 0,45          |
| C4-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,09          |
| C4-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,09          |
| C4-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.61&6.62) | 0,60          |
| C4-V1 (0.000-2.800)   | Kiptoetsing     | Fu.C.34           | NEN-EN1993-1-1(6.54)      | 0,51          |
| C5-V1 (0.000-1.600)   | Doorsnede       | Fu.C.34           | NEN-EN1993-1-1(6.12)      | 0,67          |
| C5-V1 (0.000-1.600)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,04          |
| C5-V1 (0.000-1.600)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,04          |
| C5-V1 (0.000-1.600)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.61&6.62) | 0,75          |
| C5-V1 (0.000-1.600)   | Kiptoetsing     | Fu.C.46           | NEN-EN1993-1-1(6.54)      | 0,00          |
| C6-V1 (0.000-1.064)   | Doorsnede       | Fu.C.34           | NEN-EN1993-1-1(6.12)      | 0,84          |
| C7-V1 (0.000-7.580)   | Doorsnede       | Fu.C.34           | NEN-EN1993-1-1(6.12)      | 0,82          |
| C7-V1 (0.000-7.580)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,10          |
| C7-V1 (0.000-7.580)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.46)      | 0,06          |
| C7-V1 (0.000-7.580)   | Stabiliteit     | Fu.C.34           | NEN-EN1993-1-1(6.61&6.62) | 0,99          |
| C7-V1 (0.000-7.580)   | Kiptoetsing     | Fu.C.34           | NEN-EN1993-1-1(6.54)      | 0,93          |
| C8-V1 (0.000-2.800)   | Doorsnede       | Fu.C.40           | NEN-EN1993-1-1(6.9)       | 0,27          |
| C8-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.40           | NEN-EN1993-1-1(6.46)      | 0,35          |
| C8-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.40           | NEN-EN1993-1-1(6.46)      | 0,62          |
| C8-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.40           | NEN-EN1993-1-1(6.61&6.62) | 0,62          |
| C8-V1 (0.000-2.800)   | Kiptoetsing     | Fu.C.46           | NEN-EN1993-1-1(6.54)      | 0,00          |
| C9-V1 (0.000-2.800)   | Doorsnede       | Fu.C.41           | NEN-EN1993-1-1(6.9)       | 0,11          |
| C9-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.41           | NEN-EN1993-1-1(6.46)      | 0,15          |
| C9-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.41           | NEN-EN1993-1-1(6.46)      | 0,26          |
| C9-V1 (0.000-2.800)   | Stabiliteit     | Fu.C.41           | NEN-EN1993-1-1(6.61&6.62) | 0,26          |
| C9-V1 (0.000-2.800)   | Kiptoetsing     | Fu.C.46           | NEN-EN1993-1-1(6.54)      | 0,00          |
| C10-V1 (0.000-3.400)  | Doorsnede       | Fu.C.15           | NEN-EN1993-1-1(6.12)      | 0,51          |
| C10-V1 (0.000-3.400)  | Stabiliteit     | Fu.C.15           | NEN-EN1993-1-1(6.46)      | 0,04          |
| C10-V1 (0.000-3.400)  | Stabiliteit     | Fu.C.15           | NEN-EN1993-1-1(6.46)      | 0,05          |
| C10-V1 (0.000-3.400)  | Stabiliteit     | Fu.C.15           | NEN-EN1993-1-1(6.61&6.62) | 0,63          |
| C10-V1 (0.000-3.400)  | Kiptoetsing     | Fu.C.15           | NEN-EN1993-1-1(6.54)      | 0,59          |
| C11-V1 (0.000-11.570) | Doorsnede       | Fu.C.15           | NEN-EN1993-1-1(6.12)      | 0,51          |
| C11-V1 (0.000-11.570) | Stabiliteit     | Fu.C.17           | NEN-EN1993-1-1(6.46)      | 0,10          |
| C11-V1 (0.000-11.570) | Stabiliteit     | Fu.C.17           | NEN-EN1993-1-1(6.46)      | 0,03          |
| C11-V1 (0.000-11.570) | Stabiliteit     | Fu.C.17           | NEN-EN1993-1-1(6.61&6.62) | 0,58          |
| C11-V1 (0.000-11.570) | Kiptoetsing     | Fu.C.17           | NEN-EN1993-1-1(6.54)      | 0,45          |

| Wopereis Staalbouw |                                                                                                                                      | Pos 3 / 5 - Details |            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Projectnaam        |                                                                                                                                      | Projectnummer       |            |
| Omschrijving       |                                                                                                                                      | Constructeur        |            |
| Opdrachtgever      |                                                                                                                                      | Eenheden            | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\ Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161005 - Pos 3 - Tussenspan - DETAILS.mxf |                     |            |

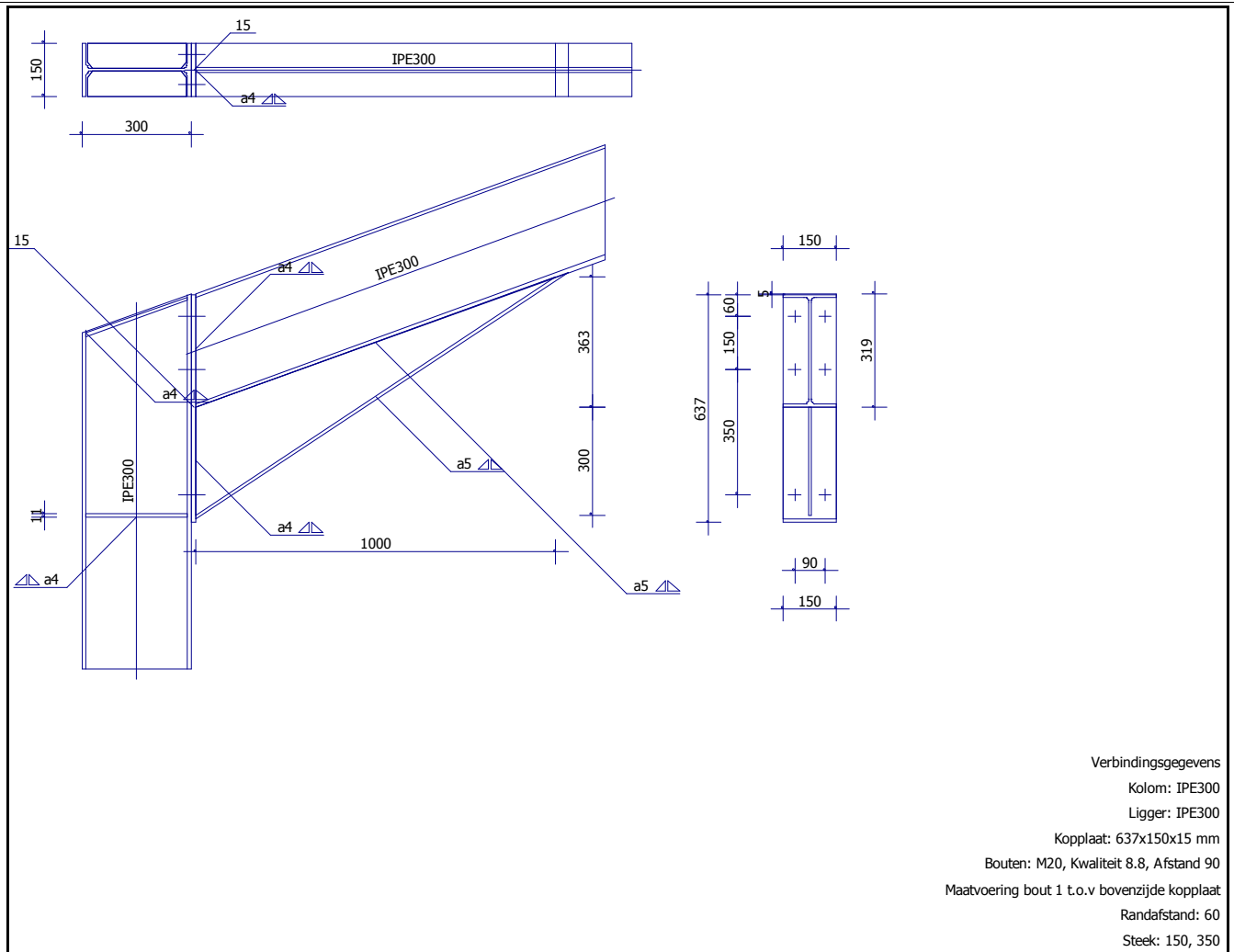
## 6. KL TEKENING



## 3. LL TEKENING

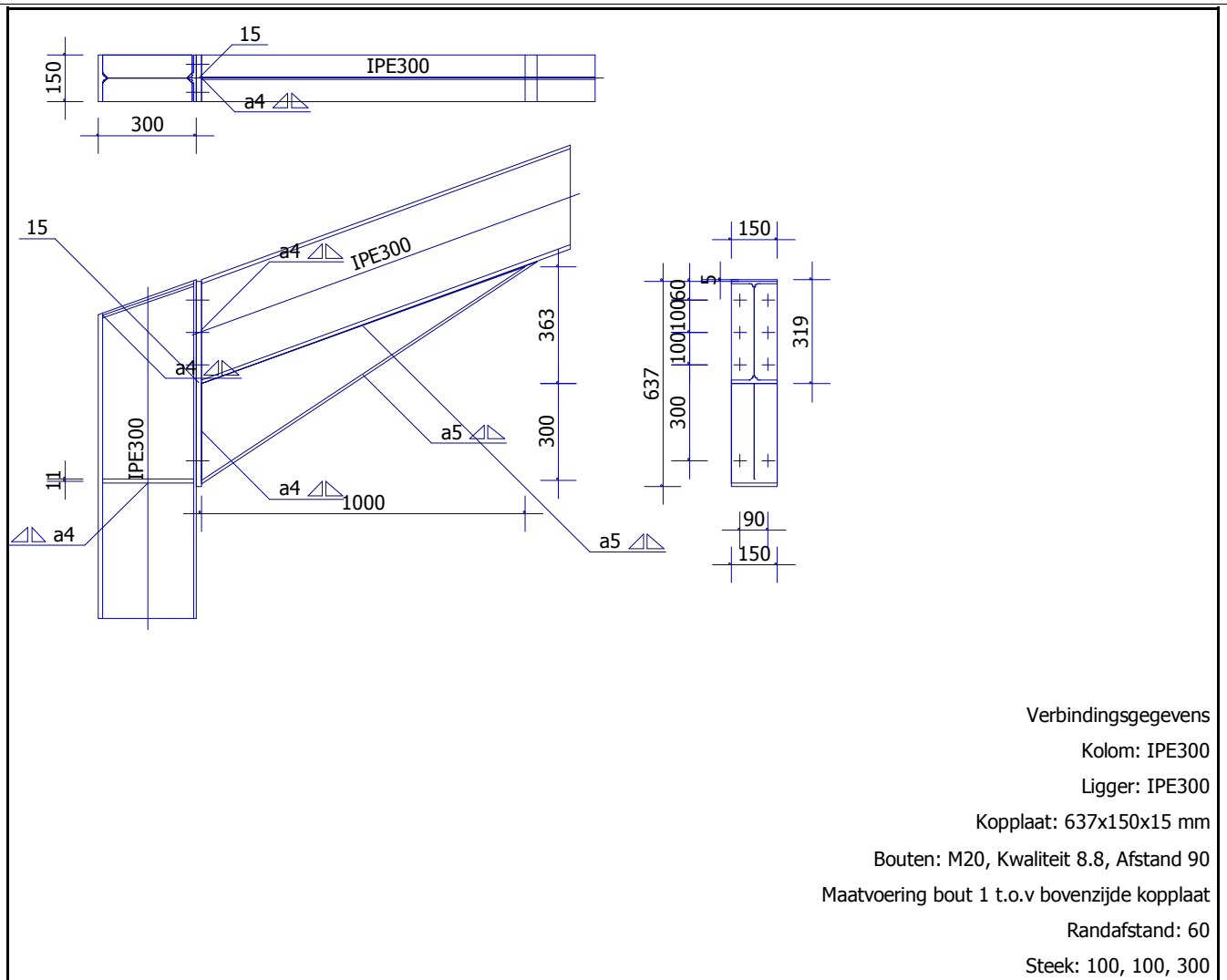


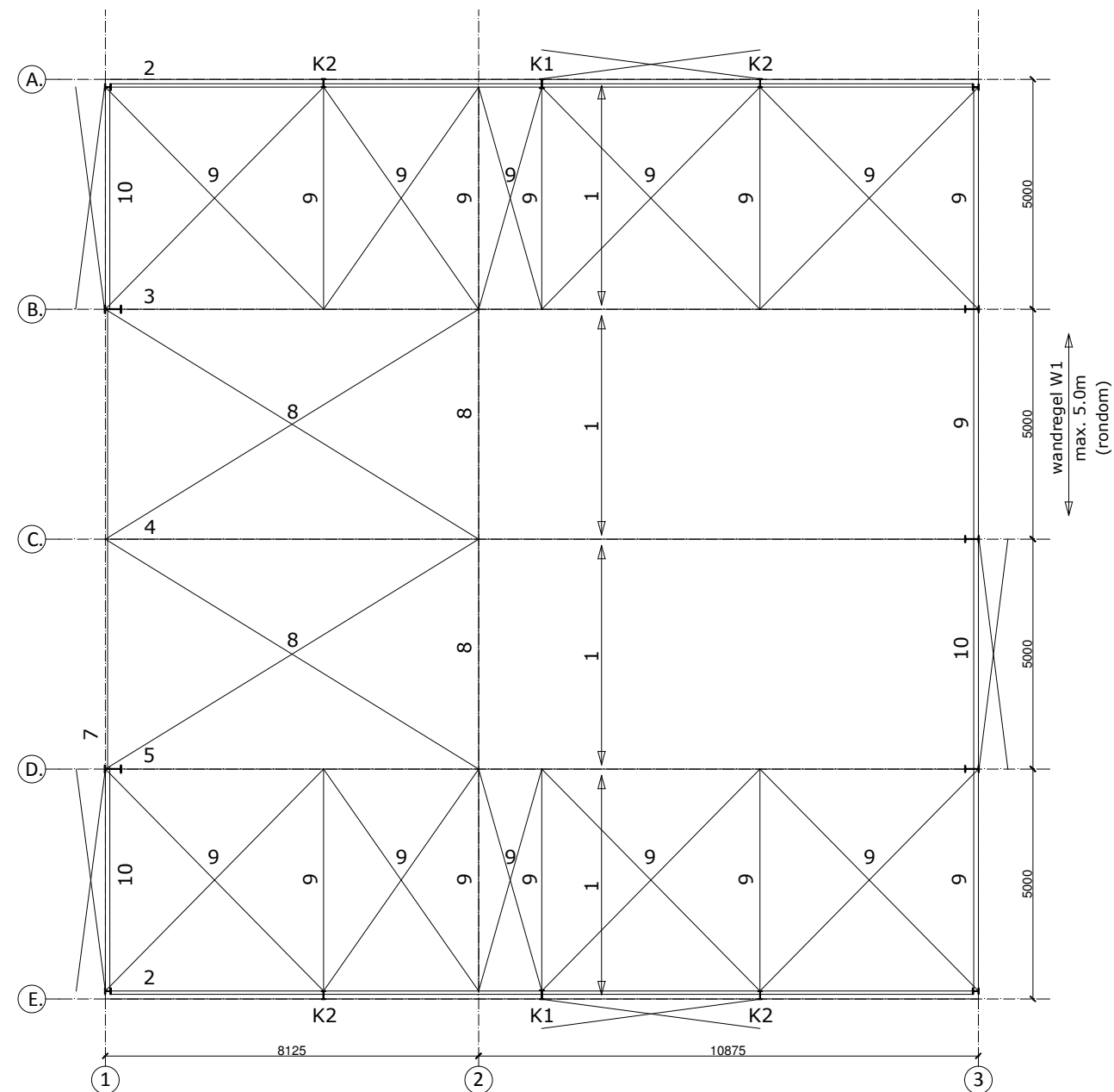
## 4. KL TEKENING



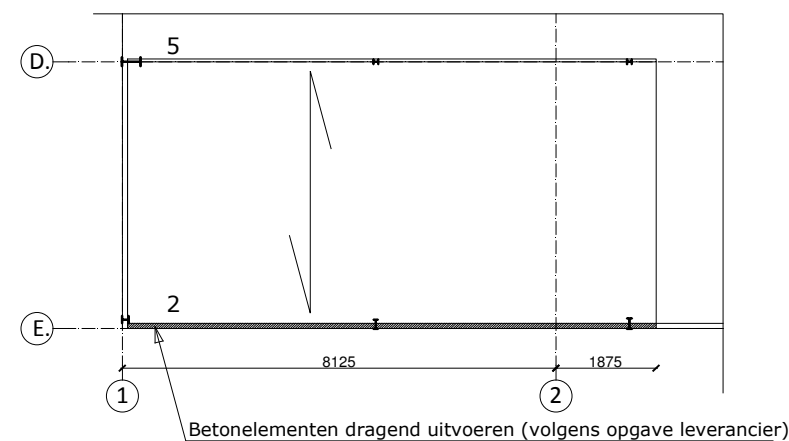
| Wopereis Staalbouw |                                                                                                                                      | Pos 4 - Detail |            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|
| Projectnaam        |                                                                                                                                      | Projectnummer  |            |
| Omschrijving       |                                                                                                                                      | Constructeur   |            |
| Opdrachtgever      |                                                                                                                                      | Eenheden       | m, kN, kNm |
| Bestand            | K:\Engineering Staalbouw\SJOERDKR\ Berekeningen\A-7527 - Klein Wassink - Zelhem\STATISCH\20161005 - Pos 4 - Tussenspan - DETAILS.mxf |                |            |

### 3. KL TEKENING



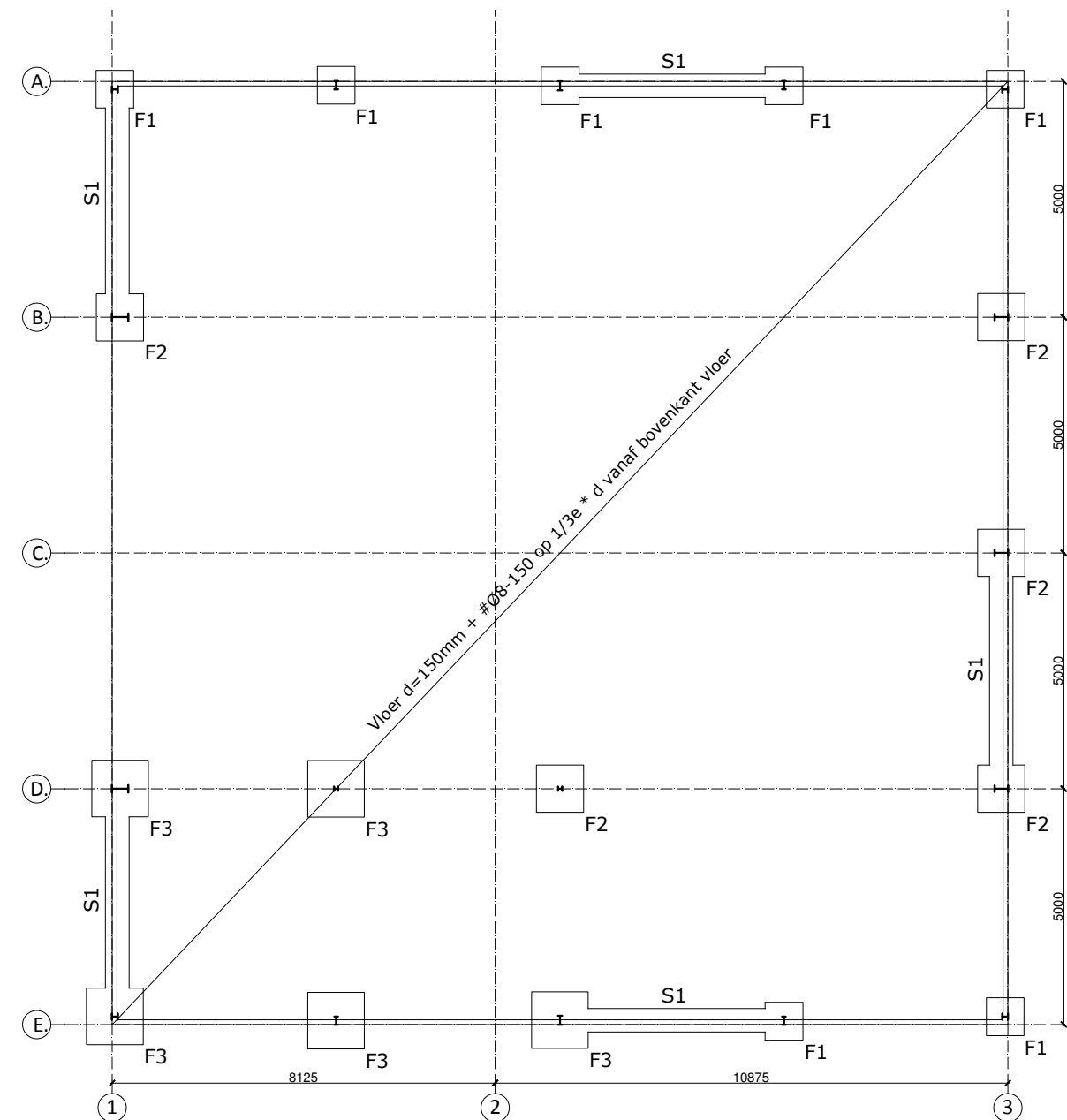
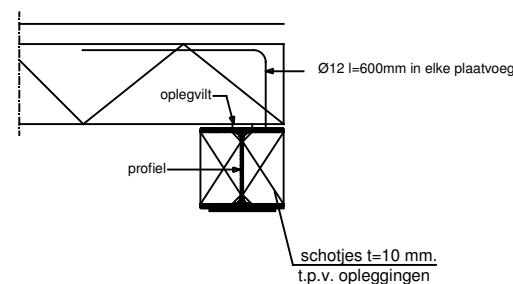


Dakoverzicht



Verdieping 3000+

= Overspanning kanaalplaatvloer (d=200)  
(conform opgave leverancier)



Fundering

F1 = 800x800x200mm  
F2 = 1000x1000x200mm  
F3 = 1200x1200x200mm  
S1 = 500x200mm

Werk: Klein Wassink  
Vrogteweg 7a  
7021 MJ Zelhem

**wopereis** staalbouw bv  
POSTBUS 463, 7000 AL DOETINCHEM  
TEL: 0314-335941 FAX: 0314-345005  
INTERNET: WWW.WOPEREIS.NL  
FABRIEKSSTRAAT 33 DOETINCHEM  
EMAIL: INFO@WOPEREIS.NL

TEKENING NO.:  
1/1

Datum: 05-10-2016  
Schaal: n.v.t.  
Get: SK

WERKNUMMER:  
A7527