



## Deel D Drive In

D190154272

## POS.4000 Drive In



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Versie : 0 / 22.02.2019

## Belastingaanne

### A.1. Eigen gewicht staalconstructie

Het eigen gewicht van de staalprofielen wordt door het programma automatisch berekent.

### A.2. Permanente belasting dakbedekking

#### A.2.1. Dak as 1-9/A-N

- Dak belasting
  - Trapeziumvormige platen = **0,10 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening constructie = **0,20 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening trapezium vorm. platen = **0,30 kN/m<sup>2</sup>**

#### A.2.2. Dak as 9-10/A-N

- Dak belasting - groen dak = **0,60 kN/m<sup>2</sup>**
- Dak belasting
  - 1,5mm waterdicht = **0,05 kN/m<sup>2</sup>**
  - Isolatie (Minerallwolle Megarock WLG 040, 60mm) = **0,10 kN/m<sup>2</sup>**
  - Isolatie (Minerallwolle Durock WLG 037, 140mm) = **0,24 kN/m<sup>2</sup>**
  - Trapeziumvormige platen = **0,15 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening constructie = **0,20 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening trapezium vorm. platen = **0,30 kN/m<sup>2</sup>**

#### A.2.2. Dak Portal

- Dak belasting: afdichting, isolatie, trapeziumvormige platen = **0,30 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening constructie = **0,20 kN/m<sup>2</sup>**
- Installatiebelasting voor berekening trapezium vorm. platen = **0,30 kN/m<sup>2</sup>**

### A.3. Veranderlijke belasting

- Water verzadigd (voor groen dak) = **0,40 kN/m<sup>2</sup>**

### A.4. Sneeuwbelasting

Conform het NEN-EN 1991-1-3/2003 NB/2011, Nijmegen stad is op gebied van sneeuw met karakteristieke belasting  $s_k=0,70 \text{ kN/m}^2$

$$S = \mu_i \times c_e \times c_t \times S_k$$

$c_e=1$  – blootstelling coëfficiënt

$c_t=1$  – thermische coëfficiënt

$\mu_i$  – vorm coëfficiënt

#### A.4.1. Sneeuwbelasting dak Drive-IN

##### A.4.1.1. Sneeuwbelasting (zonder sneeuwophoping)

$\mu_1(\alpha) = 0.8$  ( $0 < \alpha < 30$ ) –  $\alpha$  – dakhelling

$$S = 0.8 \times 1 \times 1 \times 0,70 = 0,56 \text{ kN/m}^2; \quad \mathbf{S = 0,56 \text{ kN/m}^2}$$

Conform Hornbach LV, minimale sneeuwlast op allen platte daken **0,75 kN/m<sup>2</sup>**.

#### A.4.1.2. Sneeuwbelasting – sneeuwophoping

$$\mu_1(\alpha)$$

$$\mu_1(\alpha) = 0.8 \quad (0 < \alpha < 30) - \alpha - \text{dakhelling}$$

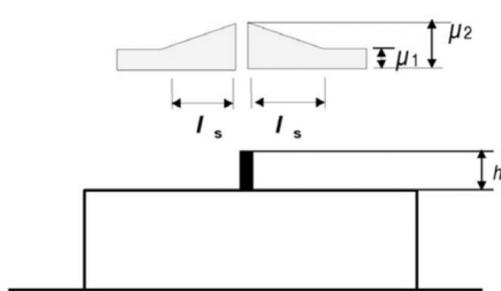
$$S = 0.80 \times 1 \times 1 \times 0.70 = 0.56 \text{ kN/m}^2. \text{ Zal worden beschouwd } \mathbf{S = 0.75 \text{ kN/m}^2}$$

$$\mu_2(\alpha)$$

$$\mu_2(\alpha) = 0.8 + 0.8 \times \alpha / 30 = 0.827$$

$$S = 0.96 \times 1 \times 1 \times 0.70 = 0.672 \text{ kN/m}^2. \text{ Zal worden beschouwd } \mathbf{S = 0.75 \text{ kN/m}^2}$$

#### A.4.1.3. Sneeuwbelasting – sneeuwophoping attiek



$$h = 1.05 \text{ m}; h = 1.45; h = 1.80; h = 2.20;$$

$$\mu_1 = \min \left( \frac{\gamma \cdot h}{S_k}, 2 \right) = 2$$

$$I_s = 2h ; 5 \leq I_s \leq 15 \text{ m}$$

$$I_s = 2h = 2,10\text{m} \quad \rightarrow \quad \mathbf{I_s = 5,00 \text{ m}}$$

$$S_1 = 0,8 \times 1 \times 1 \times 0,70 = \quad \mathbf{0,56 \text{ kN/m}^2}$$

$$S_2 = 2,0 \times 1 \times 1 \times 0,70 = \quad \mathbf{1,40 \text{ kN/m}^2}$$

#### A.4.1.4. Sneeuwbelasting – dak achsen 1-3/A-B' (Eckturm)

$$\mu_2 = \mu_s + \mu_w; \quad \mu_s = 0;$$

$$\mu_w = (b_1 + b_2) / 2h \leq \gamma h / S_k$$

$$\gamma = 2 \text{ kN/m}^2$$

$$I_s = 2h ; 5 \leq I_s \leq 15 \text{ m}$$

$$h = 7,20 \text{ m}$$

$$\gamma h / S_k = 2 \times 7,20 / 0,70 = 20,57$$

$$\mu_{w \max} = 4 \text{ conform het NEN-EN 1991-1-3 NB}$$

$$I_s = 2h = 14,40\text{m} \quad \rightarrow \quad \mathbf{I_s = 14,40 \text{ m}}$$

$$S_1 = 0,8 \times 1 \times 1 \times 0,70 = \quad \mathbf{0,56 \text{ kN/m}^2}$$

$$S_2 = 4,0 \times 1 \times 1 \times 0,70 = \quad \mathbf{2,80 \text{ kN/m}^2}$$

#### A.4.1.5. Sneeuwbelasting – dak achsen 9-10/A-N en Portal dak

$$\mu_2 = \mu_s + \mu_w; \quad \mu_s = 0;$$

$$\mu_w = (b_1 + b_2) / 2h \leq \gamma h / S_k$$

$$\gamma = 2 \text{ kN/m}^2$$

$$I_s = 2h ; 5 \leq I_s \leq 15 \text{ m}$$



$$h = 4,20 \text{ m}$$

$$\gamma h / S_k = 2 \times 4,20 / 0,70 = 12,00$$

$$\mu_{w \max} = 4 \text{ conform het NEN-EN 1991-1-3 NB}$$

$$l_s = 2h = 8,40\text{m} \quad \rightarrow \quad \mathbf{l_s = 8,40 \text{ m}}$$

$$S_1 = 0,8 \times 1 \times 1 \times 0,70 = \quad \mathbf{0,56 \text{ kN/m}^2}$$

$$S_2 = 4,0 \times 1 \times 1 \times 0,70 = \quad \mathbf{2,80 \text{ kN/m}^2}$$

### A.5. Windbelasting

Conform het NEN-EN 1991-1-4/2003 NB/2011, Nijmegen stad is in het gebied van wind III –  $v_{b,0} = 24,50$  m/s.

$$q_p(z) = [1+7 \cdot I_v(z)] \cdot 0,50 \cdot \rho \cdot v_m^2(z)$$

$$q_b(z) = 0,50 \cdot \rho \cdot v_b^2(z)$$

$$z_e = h = 9,60 \text{ m}$$

$$\rho = 1,25 \text{ kg/m}^3$$

$$C_{dir} = 1,00$$

$$C_{season} = 1,00$$

$$V_b = C_{dir} \cdot C_{season} \cdot v_{b,0} = 1,0 \times 1,0 \times 24,50 \text{ m/s} = 24,50 \text{ m/s}$$

$$q_b = 375,15 \text{ N/m}^2 = 0,375 \text{ kN/m}^2$$

$$v_m(z) = c_r(z) \times c_0(z) \times v_{b,0}$$

$$c_0(z) = 1$$

$$c_r(z) = k_r \times \ln(z/z_0)$$

$$z_0 = 0,20 \text{ m (Terreincategorie II - Onbebouwd gebied)}$$

$$k_r = 0,19 \times (z_0/0,05)^{0,07} = 0,209$$

$$c_r(z) = 0,809$$

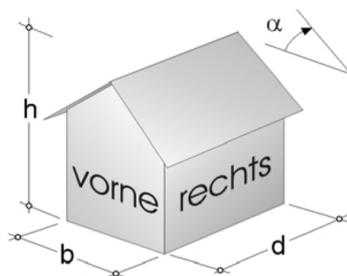
$$v_m(z) = c_r(z) \times c_0(z) \times v_{b,0} = 0,809 \times 1,00 \times 24,50 = 19,82 \text{ m/s}$$

$$I_v(z) = k_1 / (c_0(z) \times \ln(z/z_0)) = 0,258$$

$$q_p(z) = 672,6 \text{ N/m}^2 = 0,688 \text{ kN/m}^2$$

Conclusie:  $w_e = 0,688 \cdot c_{pe} \text{ [kN/m}^2\text{]}$

Gebouw model



$$h = 9,60 \text{ m}$$

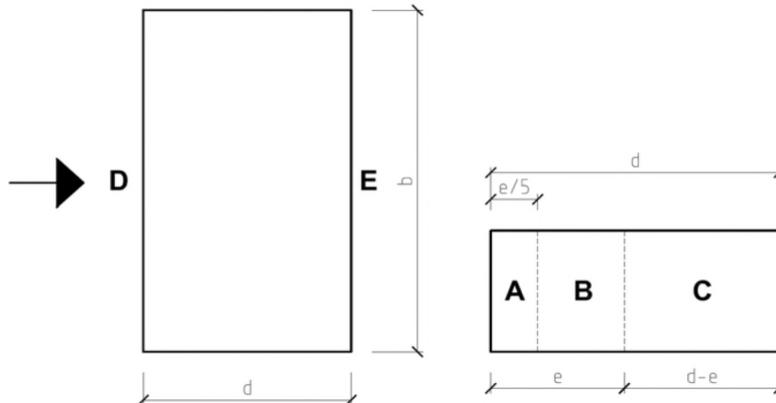
$$b = 54,00 \text{ m}$$

$$d = 75,00 \text{ m}$$

$$\alpha = 8,00^\circ$$

### A.5.1. Windbelastung op wandvlak

#### A.5.1.1. Richting X +/-

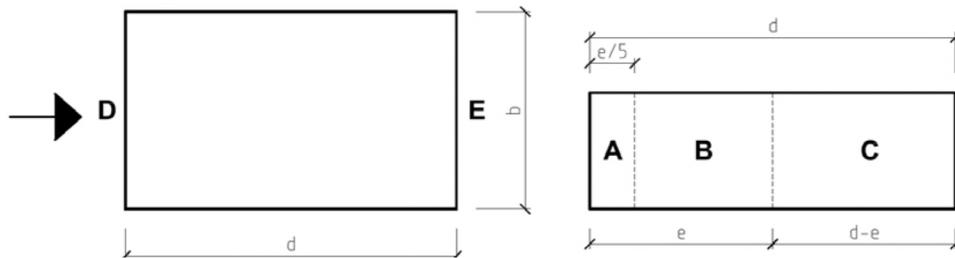


$$\begin{aligned}
 b &= 75,00 \text{ m} \\
 d &= 54,00 \text{ m} \\
 e &= \min(b, 2h) = 19,20 \text{ m} \\
 e/5 &= 3,84 \text{ m} \\
 h/d &= 0,177 < 1,00
 \end{aligned}$$

$$\begin{aligned}
 \text{Zone A:} & \quad c_{pe} = -1,20 \\
 \text{Zone B:} & \quad c_{pe} = -0,80 \\
 \text{Zone C:} & \quad c_{pe} = -0,50 \\
 \text{Zone D:} & \quad c_{pe} = +0,80 \\
 \text{Zone E:} & \quad c_{pe} = -0,50
 \end{aligned}$$

$$\begin{aligned}
 \text{Zone A:} & \quad w_e = -1,20 \cdot 0,688 & = -0,825 \text{ kN/m}^2; \\
 \text{Zone B:} & \quad w_e = -0,80 \cdot 0,688 & = -0,550 \text{ kN/m}^2; \\
 \text{Zone C:} & \quad w_e = -0,50 \cdot 0,688 & = -0,344 \text{ kN/m}^2; \\
 \text{Zone D:} & \quad w_e = +0,80 \cdot 0,688 & = +0,550 \text{ kN/m}^2; \\
 \text{Zone E:} & \quad w_e = -0,50 \cdot 0,688 & = -0,344 \text{ kN/m}^2.
 \end{aligned}$$

### A.5.1.2. Richtung Y +



$$\begin{aligned}
 b &= 54,00 \text{ m} \\
 d &= 75,00 \text{ m} \\
 e &= \min(b, 2h) = 19,20 \text{ m} \\
 e/5 &= 3,84 \text{ m} \\
 h/d &= 0,177 < 1,00
 \end{aligned}$$

<b>Zone A:</b>	$c_{pe} = -1,20$
<b>Zone B:</b>	$c_{pe} = -0,80$
<b>Zone C:</b>	$c_{pe} = -0,50$
<b>Zone D:</b>	$c_{pe} = +0,80$
<b>Zone E:</b>	$c_{pe} = -0,50$

#### Innendruck nach EN1991-1-4 / 7.2.9

$$c_{pi} = 0,90 \cdot c_{pe} = 0,90 \cdot 0,80 = 0,72 \quad (c_{pe} = 0,80 - \text{Zone D})$$

<b>Zone A:</b>	$w_e = -(1,20+0,72) \cdot 0,688$	$= -1.321 \text{ kN/m}^2;$
<b>Zone B:</b>	$w_e = -(0,80+0,72) \cdot 0,688$	$= -1.046 \text{ kN/m}^2;$
<b>Zone C:</b>	$w_e = -(0,50+0,72) \cdot 0,688$	$= -0,839 \text{ kN/m}^2;$
<b>Zone D:</b>	$w_e = +0,80 \cdot 0,688$	$= +0,550 \text{ kN/m}^2;$
<b>Zone E:</b>	$w_e = -(0,50+0,72) \cdot 0,688$	$= -0,839 \text{ kN/m}^2.$

### A.5.1.3. Richtung Y -

$$\begin{aligned} b &= 54,00 \text{ m} \\ d &= 75,00 \text{ m} \\ e &= \min(b, 2h) = 19,20 \text{ m} \\ e/5 &= 3,84 \text{ m} \\ h/d &= 0,177 < 1,00 \end{aligned}$$

**Zone A:**  $c_{pe} = -1,20$

**Zone B:**  $c_{pe} = -0,80$

**Zone C:**  $c_{pe} = -0,50$

**Zone D:**  $c_{pe} = +0,80$

**Zone E:**  $c_{pe} = -0,50$

### Innendruck nach EN1991-1-4 / 7.2.9

$$c_{pi} = 0,90 \cdot c_{pe} = 0,90 \cdot 0,50 = 0,45 \quad (c_{pe} = 0,50 - \text{Zone E})$$

**Zone A:**  $w_e = -1,20 \cdot 0,688 = -0,825 \text{ kN/m}^2;$

**Zone B:**  $w_e = -0,80 \cdot 0,688 = -0,550 \text{ kN/m}^2;$

**Zone C:**  $w_e = -0,50 \cdot 0,688 = -0,344 \text{ kN/m}^2;$

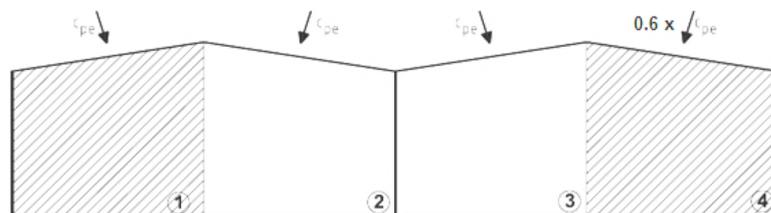
**Zone D:**  $w_e = +(0,80+0,45) \cdot 0,688 = +0,860 \text{ kN/m}^2;$

**Zone E:**  $w_e = -0,50 \cdot 0,688 = -0,344 \text{ kN/m}^2.$

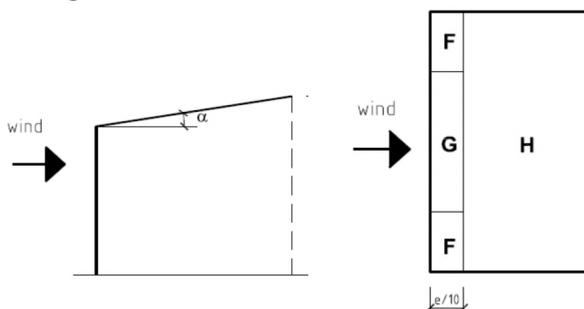
## A.5.2. Windbelasting op dak

### A.5.2.1. Richting X +/-

Nach EN1991-1-4 / 7.2.5 en 7.2.7., Table 7.4a, Table 7.4b,



#### Helling 1

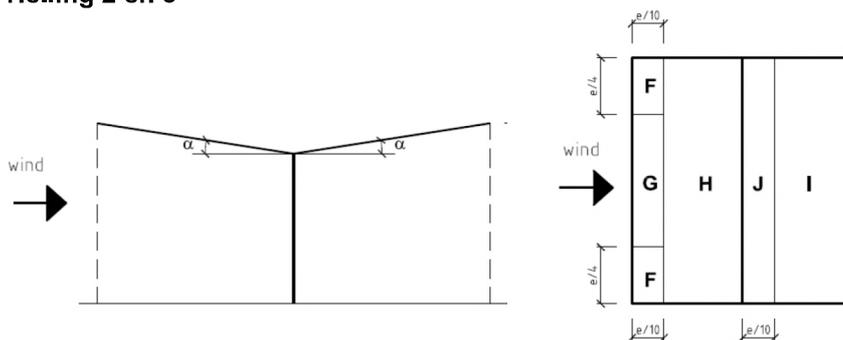


$$\begin{aligned}
 e &= \min(b, 2h) = 19,20 \text{ m} \\
 e/10 &= 1,92 \text{ m} \\
 e/4 &= 4,80 \text{ m}; \\
 \alpha &= 8^\circ
 \end{aligned}$$

Opwaarts

$$\begin{aligned}
 \text{Zone F: } w_e &= -1,46 \cdot 0,688 = -1,004 \text{ kN/m}^2; \\
 \text{Zone G: } w_e &= -1,08 \cdot 0,688 = -0,743 \text{ kN/m}^2; \\
 \text{Zone H: } w_e &= -0,51 \cdot 0,688 = -0,350 \text{ kN/m}^2.
 \end{aligned}$$

#### Helling 2 en 3



$$\begin{aligned}
 e &= \min(b, 2h) = 19,20 \text{ m} \\
 e/10 &= 1,92 \text{ m} \\
 e/4 &= 4,80 \text{ m}; \\
 \alpha &= +8^\circ
 \end{aligned}$$

Opwaarts gericht

Helling 2  $\alpha = -8^\circ$

**Zone F:**  $w_e = -2,36 \cdot 0,688 = -1,623 \text{ kN/m}^2$ ;

**Zone G:**  $w_e = -1,23 \cdot 0,688 = -0,846 \text{ kN/m}^2$ ;

**Zone H:**  $w_e = -0,83 \cdot 0,688 = -0,571 \text{ kN/m}^2$ ;

Helling 3  $\alpha = +8^\circ$

**Zone I:**  $w_e = -0,57 \cdot 0,688 = -0,392 \text{ kN/m}^2$ ;

**Zone J:**  $w_e = -0,63 \cdot 0,688 = -0,433 \text{ kN/m}^2$ .

Neerwaarts gericht

Helling 2  $\alpha = -8^\circ$

**Zone F:**  $w_e = -2,36 \cdot 0,688 = -1,623 \text{ kN/m}^2$ ;

**Zone G:**  $w_e = -1,23 \cdot 0,688 = -0,846 \text{ kN/m}^2$ ;

**Zone H:**  $w_e = -0,83 \cdot 0,688 = -0,571 \text{ kN/m}^2$ ;

Helling 3  $\alpha = +8^\circ$

**Zone I:**  $w_e = -0,01 \cdot 0,688 = -0,006 \text{ kN/m}^2$ ;

**Zone J:**  $w_e = -0,07 \cdot 0,688 = -0,048 \text{ kN/m}^2$ .

#### Helling 4

$e = \min(b, 2h) = 19,20 \text{ m}$

$e/10 = 1,92 \text{ m}$

$e/4 = 4,80 \text{ m}$ ;

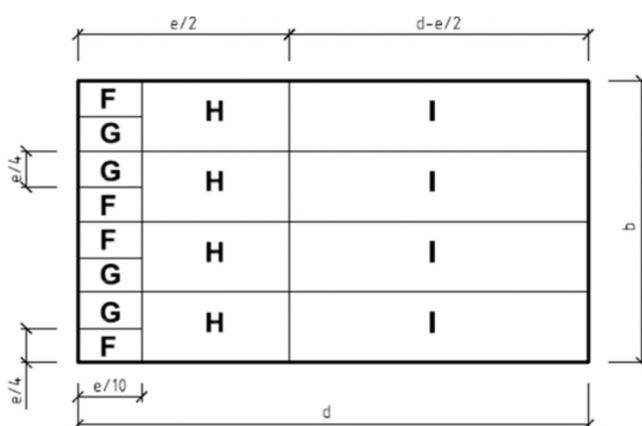
$\alpha = +8^\circ$ ; Zone voor windrichting  $\Theta = 180^\circ$

**Zone F:**  $w_e = -2,36 \cdot 0,6 \cdot 0,688 = -0,973 \text{ kN/m}^2$ ;

**Zone G:**  $w_e = -1,30 \cdot 0,6 \cdot 0,688 = -0,526 \text{ kN/m}^2$ ;

**Zone H:**  $w_e = -0,83 \cdot 0,6 \cdot 0,688 = -0,342 \text{ kN/m}^2$ ;

#### A.5.2.2. Richting Y +



$b = 54,00 \text{ m}$

$d = 75,00 \text{ m}$

$$\begin{aligned}e &= \min (b,2h) = 19,20 \text{ m} \\e / 10 &= 1,92 \text{ m} \\e / 4 &= 4,80 \text{ m} \\e / 2 &= 9,60 \text{ m} \\d - e/2 &= 65,40 \text{ m}\end{aligned}$$

**Zone F:**  $c_{pe} = -1,83$

**Zone G:**  $c_{pe} = -1,20$

**Zone H:**  $c_{pe} = -0,73$

**Zone I:**  $c_{pe} = -0,66$

**Innendruck nach EN1991-1-4 / 7.2.9**

$$c_{pi} = 0,90 \cdot c_{pe} = 0,90 \cdot 0,80 = 0,72 \quad (c_{pe} = 0,80 - \text{Zone D})$$

**Zone F:**  $w_e = -(1,83+0,72) \cdot 0,688 = -1,754 \text{ kN/m}^2;$

**Zone G:**  $w_e = -(1,20+0,72) \cdot 0,688 = -1,321 \text{ kN/m}^2;$

**Zone H:**  $w_e = -(0,73+0,72) \cdot 0,688 = -0,998 \text{ kN/m}^2;$

**Zone I:**  $w_e = -(0,66+0,72) \cdot 0,688 = -0,949 \text{ kN/m}^2.$

**A.5.2.3. Richtung Y -**

$$\begin{aligned}b &= 54,00 \text{ m} \\d &= 75,00 \text{ m} \\e &= \min (b,2h) = 19,20 \text{ m} \\e / 10 &= 1,92 \text{ m} \\e / 4 &= 4,80 \text{ m} \\e / 2 &= 9,60 \text{ m} \\d - e/2 &= 65,40 \text{ m}\end{aligned}$$

**Zone F:**  $c_{pe} = -1,83$

**Zone G:**  $c_{pe} = -1,20$

**Zone H:**  $c_{pe} = -0,73$

**Zone I:**  $c_{pe} = -0,66$

**Zone F:**  $w_e = -1,83 \cdot 0,688 = -1,259 \text{ kN/m}^2;$

**Zone G:**  $w_e = -1,20 \cdot 0,688 = -0,825 \text{ kN/m}^2;$

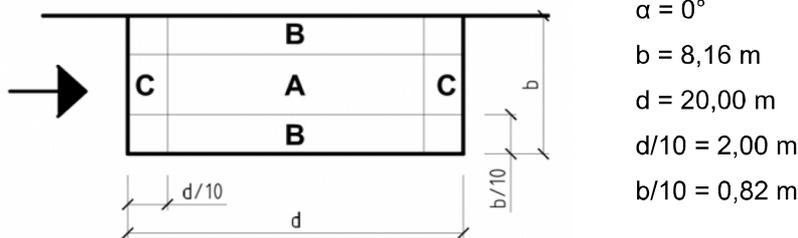
**Zone H:**  $w_e = -0,73 \cdot 0,688 = -0,502 \text{ kN/m}^2;$

**Zone I:**  $w_e = -0,66 \cdot 0,688 = -0,454 \text{ kN/m}^2.$

#### A.5.4. Windbelasting – Portal dak

##### - Richting X +/-

Zal worden beschouwd luifel conform het NEN 1991-1-4 – tabel 7.6 / Ch.7.3.



$$\alpha = 0^\circ$$

$$b = 8,16 \text{ m}$$

$$d = 20,00 \text{ m}$$

$$d/10 = 2,00 \text{ m}$$

$$b/10 = 0,82 \text{ m}$$

$\varphi = \text{maximale}$

<b>Zone A:</b>	$w_e = +0,50 \cdot 0,688$	$= +0,344 \text{ kN/m}^2;$
<b>Zone B:</b>	$w_e = +1,80 \cdot 0,688$	$= +1,238 \text{ kN/m}^2;$
<b>Zone C:</b>	$w_e = +1,10 \cdot 0,688$	$= +0,756 \text{ kN/m}^2.$

$\varphi = 0$

<b>Zone A:</b>	$w_e = -0,60 \cdot 0,688$	$= -0,412 \text{ kN/m}^2;$
<b>Zone B:</b>	$w_e = -1,30 \cdot 0,688$	$= -0,894 \text{ kN/m}^2;$
<b>Zone C:</b>	$w_e = -1,40 \cdot 0,688$	$= -0,963 \text{ kN/m}^2;$

##### - Richting Y +

Zal worden beschouwd luifel conform het NEN 1991-1-4 NB – tabel NB.16, Figuur NB.7-6.

$$b_1 = 20,00 \text{ m}$$

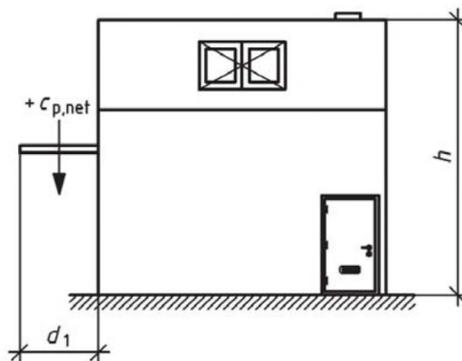
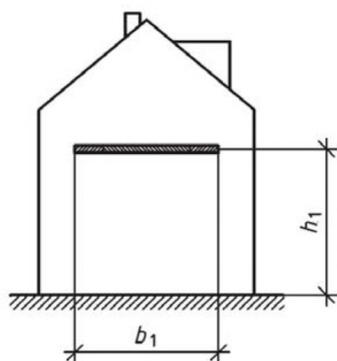
$$h_1 = 5,20 \text{ m}; h = 9,60 \text{ m}$$

$$d_1 = 8,16 \text{ m}$$

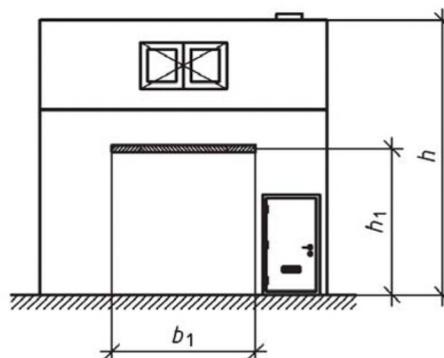
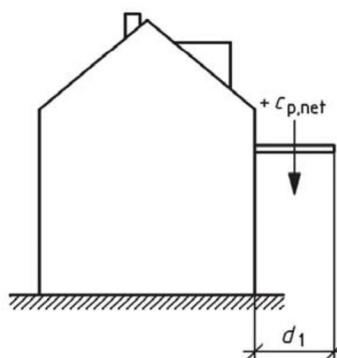
$$h_1/d_1 = 0,637 < 1$$

$$h_1/h = 0,541$$

$$e = \min (b_1/2, d_1/4) = 2,12 \text{ m}$$



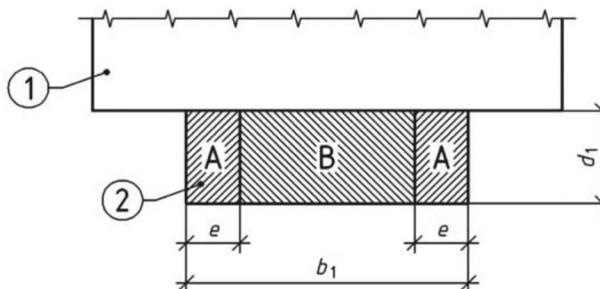
a) Luifel aan de kopgevel



b) Luifel aan de zijgevel

**Verklaring**

- 1 bouwwerk
- 2 luifel
- A zone A ( $d_1 \times e$ )
- B zone B
- $b_1$  breedte luifel
- $d_1$  lengte luifel (uitkraging)
- $e$  breedte zone A, minimum van  $d_1/4$  en  $b_1/2$
- $h$  gebouwhoogte
- $h_1$  afstand vanaf het maaiveld tot aan de luifel



c) Bovenaanzicht

Opwaarts gericht

**Zone A:**  $w_e = -1,05 \cdot 0,688 = -0,722 \text{ kN/m}^2$ ;

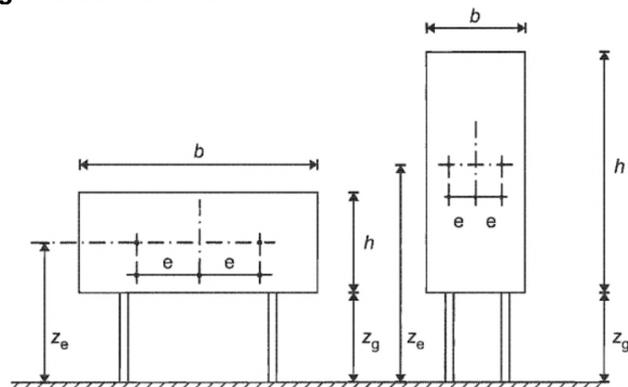
**Zone B:**  $w_e = -0,30 \cdot 0,688 = -0,206 \text{ kN/m}^2$ ;

Neerwaarts gericht

**Zone A:**  $w_e = +0,70 \cdot 0,688 = +0,481 \text{ kN/m}^2$ ;

**Zone B:**  $w_e = +0,30 \cdot 0,688 = +0,206 \text{ kN/m}^2$ .

### A.5.5. Windbelasting – reklamaboord



NOTE 1 reference height:  $z_e = z_g + h/2$

NOTE 2 reference area:  $A_{ref} = b \cdot h$

$$b = 11,80 \text{ m}$$

$$h = 3,70 \text{ m}$$

$$z_g = 7,20 \text{ m}$$

$$z_e = 9,05 \text{ m}$$

$$q_p(z_e) = 0,688 \text{ kN/m}^2$$

$$e = +/- 0,25b = +/- 2,95 \text{ m}$$

$$c_f = 1,80$$

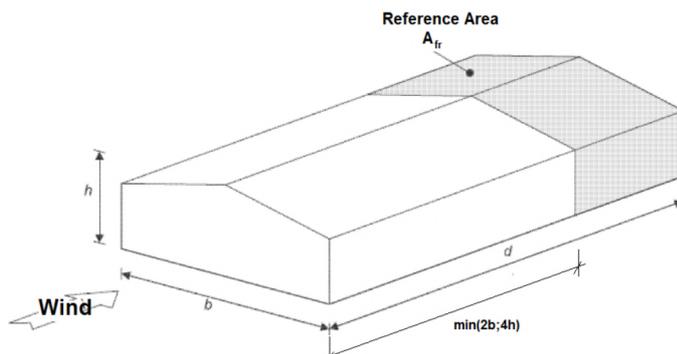
$$c_s \cdot c_d = 1,00$$

$$A_{ref} = b \cdot h = 43,66 \text{ m}^2$$

$$F_w = c_s \cdot c_d \cdot c_f \cdot q_p(z_e) \cdot A_{ref} = 1,00 \times 1,80 \times 0,688 \times 43,66 = 54,07 \text{ kN}$$

### A.5.6. Windbelasting – Windwrijving

Conform het EN 1991-1-4 Ch. 7.5, Tab. 7.10:  $c_{fr} = 0,04$



$$F_{fr} = c_{fr} \cdot q_p(z_e) \cdot A_{fr}$$



**- Richtung Y +/-**

$$d = 75,00 \text{ m}$$

$$b = 54,00 \text{ m}$$

$$h = 9,60 \text{ m}$$

$$\min (2b; 4h) = 38,40 \text{ m}$$

$$d - \min (2b; 4h) = 36,60 \text{ m}$$

$$A_{\text{dak}} = 2598,6 \text{ m}^2$$

$$A_{\text{wandvlak}} = 702,72 \text{ m}^2$$

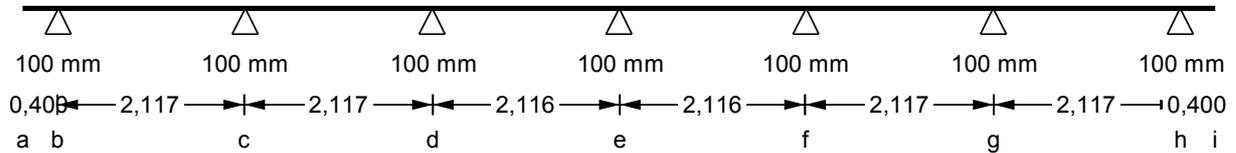
$$F_{\text{fr dak}} = c_{\text{fr}} \cdot q_{\text{p}}(z_{\text{e}}) \cdot A_{\text{fr}} = 0,04 \times 0,688 \times 2598,6 = \mathbf{71,52 \text{ kN}}$$

$$F_{\text{fr wandvlak}} = c_{\text{fr}} \cdot q_{\text{p}}(z_{\text{e}}) \cdot A_{\text{fr}} = 0,04 \times 0,688 \times 702,7 = \mathbf{19,33 \text{ kN}}$$

## POS.4100 Trapeziumplaat dak Drive In

### 1. statistisch systeem:

voor plat dak



nr.	segment	lengte
1	kraagarm links	0,400 m
2	veld 1	2,117 m
3	veld 2	2,117 m
4	veld 3	2,116 m
5	veld 4	2,116 m
6	veld 5	2,117 m
7	veld 6	2,117 m
8	kraagarm rechts	0,400 m

nr.	plaats	opleggingsbreedte
1	a	-
2	b	100 mm
3	c	100 mm
4	d	100 mm
5	e	100 mm
6	f	100 mm
7	g	100 mm
8	h	100 mm
9	i	-

### 2. belasting (aparte belastingsgevallen):

belastingstype 1: gelijke belasting over het totaal aantal dragers

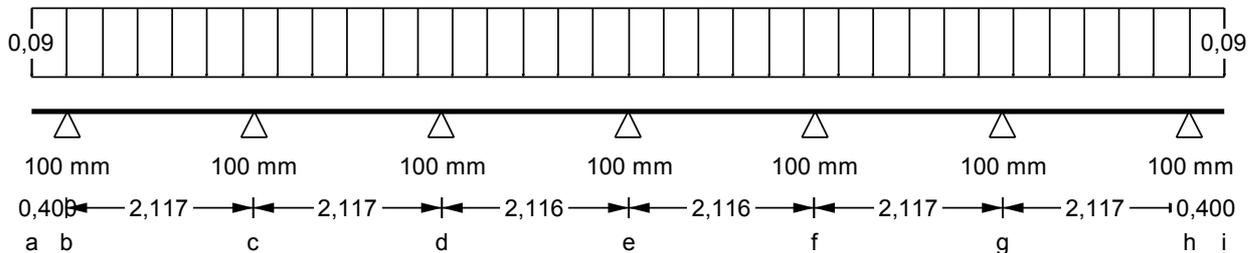
belastingstype 2: trapeziumbelasting

belastingsrichting 1: orthogonaal op het draagvlak

belastingsrichting 2: verticaal, met betrekking tot het dakoppervlak

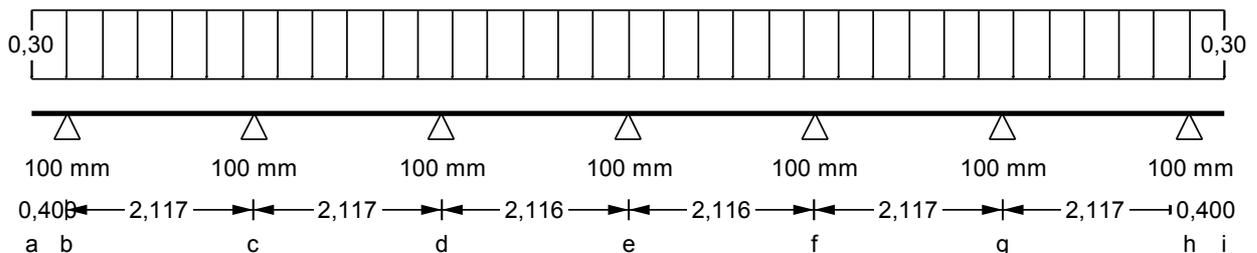
belastingsrichting 3: verticaal, met betrekking tot het grondvlak

#### 2.1 belastingsgeval g - Dachaufbau (ständig) (LF 1):



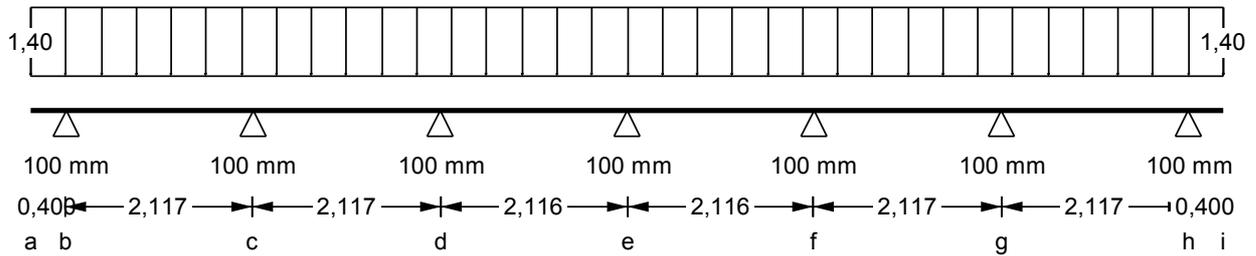
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	2	0,088 kN/m <sup>2</sup>	-	-	-	EG-profiel (automatisch)
1	2	0,000 kN/m <sup>2</sup>	-	-	-	Dämmung und Dichtung

#### 2.2 belastingsgeval p - Ausbaulast (veränderlich) (LF 2):



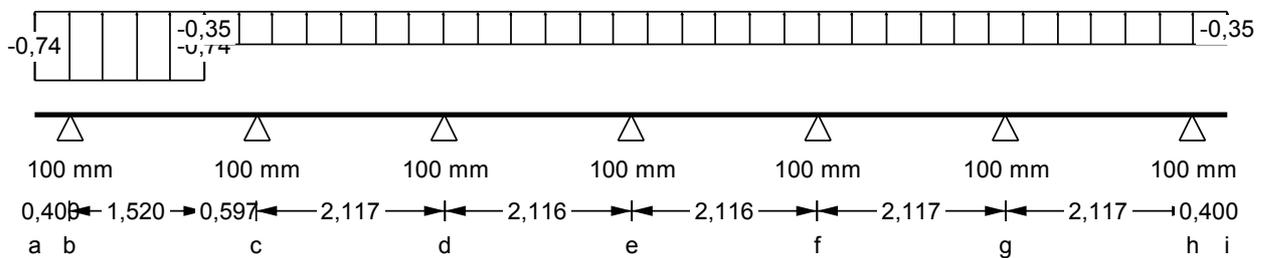
type	richt.	P1	P2	a1	a2	commentaar
1	2	0,300 kN/m <sup>2</sup>	-	-	-	Installation etc.

### 2.3 belastingsgeval s - Schnee (LF 3):



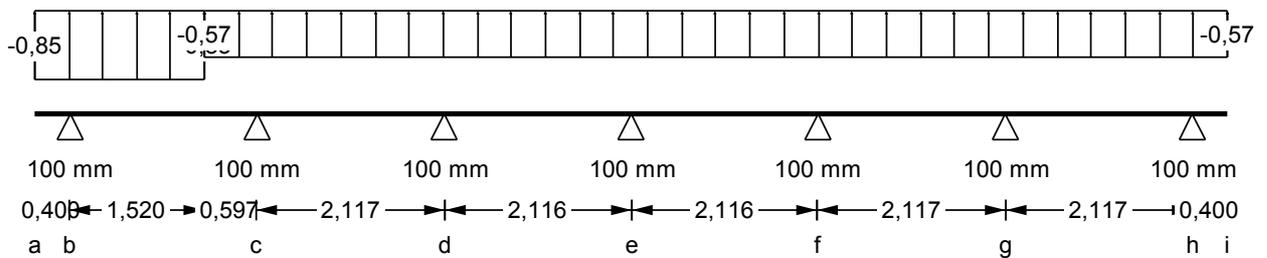
type	richt.	P1	P2	a1	a2	commentaar
1	3	1,400 kN/m <sup>2</sup>	-	-	-	

### 2.4 belastingsgeval W1 (LF 4):



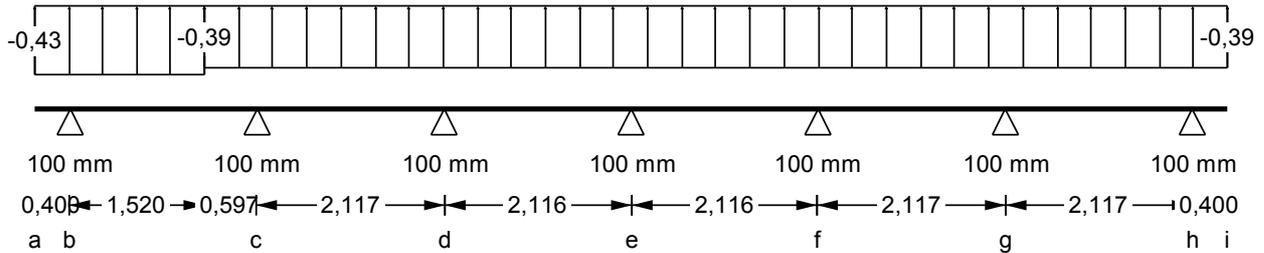
type	richt.	P1	P2	a1	a2	commentaar
2	1	-0,740 kN/m <sup>2</sup>	-0,740 kN/m <sup>2</sup>	0,000 m	1,920 m	
2	1	-0,350 kN/m <sup>2</sup>	-0,350 kN/m <sup>2</sup>	1,920 m	13,500 m	

### 2.5 belastingsgeval W2 (LF 5):



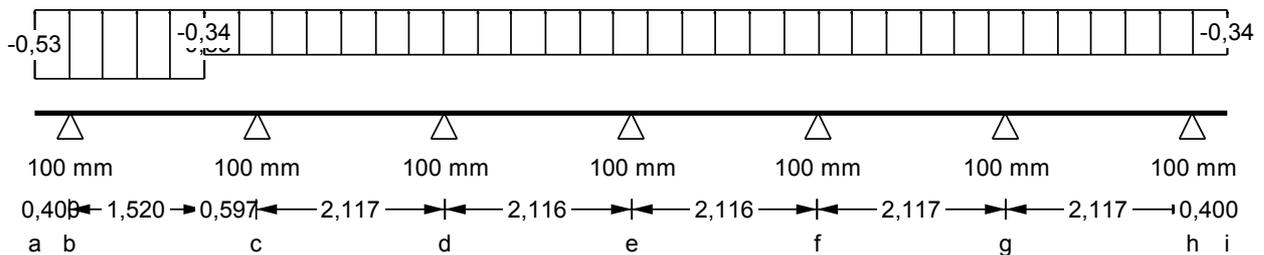
type	richt.	P1	P2	a1	a2	commentaar
2	1	-0,850 kN/m <sup>2</sup>	-0,850 kN/m <sup>2</sup>	0,000 m	1,920 m	
2	1	-0,570 kN/m <sup>2</sup>	-0,570 kN/m <sup>2</sup>	1,920 m	13,500 m	

### 2.6 belastingsgeval W3 (LF 6):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
2	1	-0,430 kN/m <sup>2</sup>	-0,430 kN/m <sup>2</sup>	0,000 m	1,920 m	
2	1	-0,390 kN/m <sup>2</sup>	-0,390 kN/m <sup>2</sup>	1,920 m	13,500 m	

### 2.7 belastingsgeval W4 (LF 7):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
2	1	-0,530 kN/m <sup>2</sup>	-0,530 kN/m <sup>2</sup>	0,000 m	1,920 m	
2	1	-0,340 kN/m <sup>2</sup>	-0,340 kN/m <sup>2</sup>	1,920 m	13,500 m	

### 3. belastingsgevalcombinaties:

LK	benaming	combinatievoorschrift ( $\sum \psi_i \cdot \gamma_{F,i} \cdot S_{k,i}$ )
1	g + p + s	1,0 · 1,35 · LF 1 + 1,0 · 1,5 · LF 2 + 1,0 · 1,5 · LF 3
2	g + W1	0,9 · 1,0 · LF 1 + 1,0 · 1,5 · LF 4
3	g + W2	0,9 · 1,0 · LF 1 + 0,9 · 1,5 · LF 5
4	g + W3	0,9 · 1,0 · LF 1 + 1,0 · 1,5 · LF 6
5	g + W4	0,9 · 1,0 · LF 1 + 1,0 · 1,5 · LF 7

### 4. doorsnedegrootte van de belastingsgevallen:

elasticiteitsmodule: E = 21000,0 kN/cm<sup>2</sup>

**4.1 g - Dachaufbau (ständig) (LF 1):**

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	-0,1
veld 1	0,027	0,1
veld 2	0,014	0,0
veld 3	0,017	0,1
veld 4	0,017	0,1
veld 5	0,014	0,0
veld 6	0,027	0,1
kraagarm rechts	-	-0,1

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	-	-	-	-	-
b	-0,035	0,078	0,113	-0,007	-0,005	-0,003
c	-0,109	0,097	0,206	-0,040	-0,035	-0,035
d	-0,089	0,092	0,181	-0,031	-0,027	-0,026
e	-0,095	0,095	0,189	-0,034	-0,029	-0,029
f	-0,092	0,089	0,181	-0,031	-0,026	-0,027
g	-0,097	0,109	0,206	-0,040	-0,035	-0,035
h	-0,078	0,035	0,113	-0,007	-0,003	-0,005
i	-	-	-	-	-	-

\* ) Vervormingsberekening voor I<sub>ef</sub><sup>+</sup> = 41,5 cm<sup>4</sup>/m (aandrukkende belasting); E = 21000 kN/cm<sup>2</sup>

**4.2 p - Ausbaulast (veränderlich) (LF 2):**

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	-0,2
veld 1	0,093	0,4
veld 2	0,048	0,1
veld 3	0,058	0,2
veld 4	0,058	0,2
veld 5	0,048	0,1
veld 6	0,093	0,4
kraagarm rechts	-	-0,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	-	-	-	-	-
b	-0,120	0,265	0,385	-0,024	-0,018	-0,011
c	-0,370	0,332	0,702	-0,136	-0,118	-0,120
d	-0,303	0,313	0,616	-0,105	-0,090	-0,090
e	-0,322	0,322	0,644	-0,115	-0,100	-0,100
f	-0,313	0,303	0,616	-0,105	-0,090	-0,090
g	-0,332	0,370	0,702	-0,136	-0,120	-0,118
h	-0,265	0,120	0,385	-0,024	-0,011	-0,018
i	-	-	-	-	-	-

\* ) Vervormingsberekening voor I<sub>ef</sub><sup>+</sup> = 41,5 cm<sup>4</sup>/m (aandrukkende belasting); E = 21000 kN/cm<sup>2</sup>

**4.3 s - Schnee (LF 3):**

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	-1,1
veld 1	0,433	1,8
veld 2	0,224	0,6
veld 3	0,269	0,9
veld 4	0,269	0,9
veld 5	0,224	0,6
veld 6	0,433	1,8
kraagarm rechts	-	-1,1

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	-	-	-	-	-
b	-0,560	1,236	1,796	-0,112	-0,086	-0,052
c	-1,728	1,549	3,277	-0,634	-0,549	-0,558
d	-1,415	1,459	2,874	-0,491	-0,422	-0,420
e	-1,503	1,503	3,007	-0,538	-0,465	-0,465
f	-1,459	1,415	2,874	-0,491	-0,420	-0,422
g	-1,549	1,728	3,277	-0,634	-0,558	-0,549
h	-1,236	0,560	1,796	-0,112	-0,052	-0,086
i	-	-	-	-	-	-

\* ) Vervormingsberekening voor I<sub>ef</sub><sup>+</sup> = 41,5 cm<sup>4</sup>/m (aandrukkende belasting); E = 21000 kN/cm<sup>2</sup>

#### 4.4 W1 (LF 4):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,6
veld 1	-0,240	-1,1
veld 2	-0,032	0,1
veld 3	-0,076	-0,3
veld 4	-0,065	-0,2
veld 5	-0,057	-0,2
veld 6	-0,108	-0,5
kraagarm rechts	-	0,3

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,296	-0,665	-0,961	0,059
c	0,669	-0,436	-1,104	0,240
d	0,305	-0,352	-0,657	0,101
e	0,389	-0,379	-0,768	0,140
f	0,361	-0,353	-0,714	0,121
g	0,388	-0,432	-0,820	0,159
h	0,309	-0,140	-0,449	0,028
i	-	-	-	-

\*) Vervormingsberekening voor I<sub>ef</sub> = 41,5 cm<sup>4</sup>/m (loskomende belasting); E = 21000 kN/cm<sup>2</sup>

#### 4.5 W2 (LF 5):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,7
veld 1	-0,271	-1,2
veld 2	-0,072	-0,1
veld 3	-0,116	-0,4
veld 4	-0,108	-0,4
veld 5	-0,092	-0,2
veld 6	-0,176	-0,7
kraagarm rechts	-	0,4

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,340	-0,759	-1,099	0,068
c	0,873	-0,666	-1,539	0,316
d	0,541	-0,585	-1,126	0,184
e	0,621	-0,615	-1,236	0,223
f	0,592	-0,575	-1,167	0,199
g	0,631	-0,704	-1,335	0,258
h	0,503	-0,228	-0,731	0,046
i	-	-	-	-

\*) Vervormingsberekening voor I<sub>ef</sub> = 41,5 cm<sup>4</sup>/m (loskomende belasting); E = 21000 kN/cm<sup>2</sup>

#### 4.6 W3 (LF 6):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,3
veld 1	-0,134	-0,6
veld 2	-0,060	-0,1
veld 3	-0,076	-0,3
veld 4	-0,075	-0,2
veld 5	-0,062	-0,2
veld 6	-0,121	-0,5
kraagarm rechts	-	0,3

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,172	-0,381	-0,553	0,034
c	0,506	-0,437	-0,942	0,185
d	0,389	-0,405	-0,794	0,135
e	0,420	-0,419	-0,839	0,150
f	0,406	-0,394	-0,800	0,137
g	0,432	-0,481	-0,913	0,177
h	0,344	-0,156	-0,500	0,031
i	-	-	-	-

\*) Vervormingsberekening voor I<sub>ef</sub> = 41,5 cm<sup>4</sup>/m (loskomende belasting); E = 21000 kN/cm<sup>2</sup>

#### 4.7 W4 (LF 7):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,4
veld 1	-0,169	-0,7
veld 2	-0,042	0,1
veld 3	-0,069	-0,2
veld 4	-0,064	-0,2
veld 5	-0,055	-0,1
veld 6	-0,105	-0,4
kraagarm rechts	-	0,3

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,212	-0,474	-0,686	0,042
c	0,535	-0,400	-0,935	0,193
d	0,320	-0,348	-0,668	0,109
e	0,371	-0,367	-0,738	0,134
f	0,353	-0,343	-0,696	0,118
g	0,377	-0,420	-0,796	0,154
h	0,300	-0,136	-0,436	0,027
i	-	-	-	-

\*) Vervormingsberekening voor  $I_{ef} = 41,5 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 5. doorsnedegrootte van de belastingsgevalcombinaties:

De vervormingsberekening gebeurt onder gebruiksbelasting met  $\gamma_{F,i} = 1,00$ .

elasticiteitsmodule:  $E = 21000,0 \text{ kN/cm}^2$

#### 5.1 g + p + s (LK 1):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	-1,4
veld 1	0,826	2,3
veld 2	0,426	0,8
veld 3	0,513	1,1
veld 4	0,513	1,1
veld 5	0,426	0,8
veld 6	0,826	2,3
kraagarm rechts	-	-1,4

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	-	-	-	-	-
b	-1,068	2,355	3,423	-0,214	-0,163	-0,099
c	-3,295	2,953	6,248	-1,208	-1,046	-1,063
d	-2,697	2,781	5,478	-0,936	-0,805	-0,800
e	-2,866	2,866	5,732	-1,026	-0,886	-0,886
f	-2,781	2,697	5,478	-0,936	-0,800	-0,805
g	-2,953	3,295	6,248	-1,208	-1,063	-1,046
h	-2,355	1,068	3,423	-0,214	-0,099	-0,163
i	-	-	-	-	-	-

\*) Vervormingsberekening voor  $I_{ef} = 41,5 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 5.2 g + W1 (LK 2):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,6
veld 1	-0,335	-1,0
veld 2	-0,036	0,1
veld 3	-0,098	-0,2
veld 4	-0,083	-0,2
veld 5	-0,072	-0,1
veld 6	-0,138	-0,4
kraagarm rechts	-	0,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,412	-0,928	-1,340	0,082
c	0,905	-0,566	-1,471	0,324
d	0,377	-0,445	-0,822	0,124
e	0,498	-0,484	-0,982	0,180
f	0,459	-0,449	-0,908	0,154
g	0,495	-0,551	-1,045	0,202
h	0,393	-0,178	-0,571	0,036
i	-	-	-	-

\*) Vervormingsberekening voor  $I_{ef} = 41,5 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5.3 g + W2 (LK 3):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,6
veld 1	-0,341	-1,0
veld 2	-0,085	0,1
veld 3	-0,141	-0,3
veld 4	-0,131	-0,3
veld 5	-0,111	-0,2
veld 6	-0,213	-0,6
kraagarm rechts	-	0,3

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,427	-0,955	-1,382	0,085
c	1,081	-0,811	-1,892	0,391
d	0,650	-0,707	-1,357	0,221
e	0,754	-0,745	-1,499	0,271
f	0,716	-0,697	-1,413	0,241
g	0,765	-0,852	-1,617	0,313
h	0,609	-0,276	-0,885	0,055
i	-	-	-	-

\*) Vervormingsberekening voor  $I_{ef} = 41,5 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5.4 g + W3 (LK 4):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	-
veld 1	-0,177	-
veld 2	-0,077	-
veld 3	-0,099	-
veld 4	-0,097	-
veld 5	-0,081	-
veld 6	-0,156	-
kraagarm rechts	-	-

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,226	-0,501	-0,728	0,045
c	0,661	-0,567	-1,228	0,241
d	0,504	-0,525	-1,029	0,174
e	0,545	-0,544	-1,089	0,195
f	0,527	-0,511	-1,037	0,177
g	0,560	-0,624	-1,184	0,229
h	0,446	-0,202	-0,649	0,040
i	-	-	-	-

\*) De belastingsgevalcombinatie wordt voor de identificatie van de gebruiksgeschiktheid niet bepaald.

### 5.5 g + W4 (LK 5):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
kraagarm links	-	0,4
veld 1	-0,229	-0,6
veld 2	-0,050	0,1
veld 3	-0,089	-0,2
veld 4	-0,081	-0,2
veld 5	-0,069	-0,1
veld 6	-0,133	-0,3
kraagarm rechts	-	0,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-	-	-
b	0,286	-0,641	-0,927	0,057
c	0,705	-0,512	-1,217	0,254
d	0,400	-0,439	-0,839	0,135
e	0,472	-0,465	-0,937	0,170
f	0,446	-0,435	-0,881	0,150
g	0,477	-0,532	-1,009	0,195
h	0,380	-0,172	-0,552	0,034
i	-	-	-	-

\*) Vervormingsberekening voor  $I_{ef} = 41,5 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

M<sub>St,l</sub>; M<sub>St,r</sub>: (volgens EN 1993-1-3, 6.1.11)

## 6. profiel:

geselecteerd:  staal-trapeziumprofiel in negatieve positie  
**Hoesch T 50.1** ,  $t_N = 0,88 \text{ mm}$  ( $g = 0,088 \text{ kN/m}^2$ )

volgens Prüfbescheid-Nr. T 17-090 vom 04.10.2017 (identificatie volgens DIN EN 1993-1-3)

## 7. profielgebruik:

identificatie	exploitatie	commentaar
grensoverspanning	57,2%	
draagkracht - elastisch	47,4%	
draagkracht - plastisch	-	
veldvervorming	33,2%	toegelaten $f = L / 300$
kraagarmvervorming	-	geen begrenzing aangegeven

profielcontrole: OK ✓

## 8. elastische identificaties:

grensoverspanning:

$$\text{identificatie: } \frac{\text{vorig } L}{L_{\text{grenz}}} = \frac{2,117}{3,700} = 0,572 < 1,0$$

### 8.1 Identificatie als gevolg van aandrukkende belasting:

8.1.1 veldmoment(LK 1, veld 1 maatgevend):

$$\text{identificatie: } \frac{\max.M_{F,Ed}}{M_{F,Rk} / \gamma_M} = \frac{0,826}{3,570 / 1,10} = 0,254 < 1,0$$

8.1.2 Dwarskracht (LK 1, oplegging c maatgevend):

$$\text{identificatie: } \frac{\max.V_{Ed}}{V_{w,Rk} / \gamma_M} = \frac{3,295}{54,340 / 1,10} = 0,067 < 0,5$$

8.1.3 steunmomenten(LK 1, oplegging g maatgevend):

$$\text{identificatie: } \frac{|\min.M_{St,Ed}|}{M_{St,Rk} / \gamma_M} = \frac{1,208}{3,200 / 1,10} = 0,415 < 1,0$$

8.1.4 tussenopleggingskrachten (LK 1, oplegging c maatgevend):

$$\text{identificatie: } \frac{\max.R_{B,Ed}}{R_{B,Rk} / \gamma_M} = \frac{6,248}{14,500 / 1,10} = 0,474 < 1,0$$

8.1.5 intractie (LK 1, oplegging g maatgevend):

$$\text{identificatie: } \frac{|\min.M_{St,Ed}|}{M_{B,k}^0 / \gamma_M} + \frac{\max.R_{B,Ed}}{R_{B,k}^0 / \gamma_M} = \frac{1,063}{3,710 / 1,10} + \frac{6,248}{44,890 / 1,10} = 0,468 < 1,0$$

8.1.6 veldvervormingen (LK 1, veld 1 maatgevend):

$$\text{identificatie: } \max.f = 2,34 \text{ mm} \Leftrightarrow \frac{L}{904} < \frac{L}{300}$$

### 8.2 Identificatie als gevolg van loskomende belasting:

8.2.1 veldmoment(LK 3, veld 1 maatgevend):

$$\text{identificatie: } \frac{|\min.M_{F,Ed}|}{M_{F,Rk} / \gamma_M} = \frac{-0,341}{-3,070 / 1,10} = 0,122 < 1,0$$

8.2.2 Dwarskracht (LK 3, oplegging c maatgevend, n = 0,5):

$$\text{identificatie: } \frac{\max.V_{Ed}}{V_{w,Rk} / \gamma_M} = \frac{1,081}{27,170 / 1,10} = 0,044 < 0,5$$



8.2.3 steunmomenten(LK 3, oplegging c maatgevend, n = 0,5):

$$\text{identificatie: } \frac{\max.M_{St,Ed}}{M_{St,Rk} / \gamma_M} = \frac{0,391}{1,600 / 1,10} = 0,269 < 1,0$$

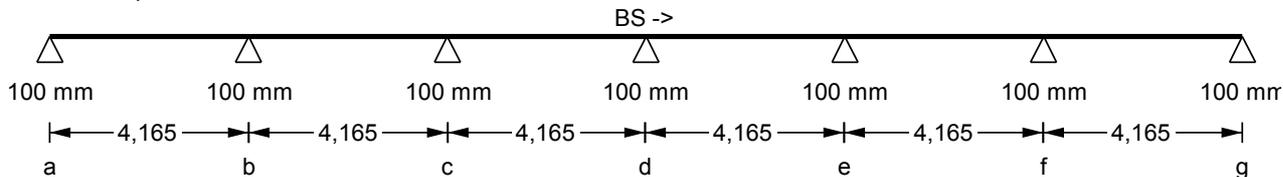
8.2.4 veldvormingen (LK 3, veld 1 maatgevend):

$$\text{identificatie: } |\min.f| = 0,96 \text{ mm} \Leftrightarrow \frac{L}{2213} < \frac{L}{300}$$

## POS.4101 Trapeziumplaat as 9-10

### 1. statistisch systeem:

voor plat dak



BS = Buigverbinding

nr.	segment	lengte	nr.	plaats	opleggingsbreedte
1	veld 1	4,165 m	1	a	100 mm
2	veld 2	4,165 m	2	b	100 mm
3	veld 3	4,165 m	3	c	100 mm
4	veld 4	4,165 m	4	d	100 mm
5	veld 5	4,165 m	5	e	100 mm
6	veld 6	4,165 m	6	f	100 mm
7			7	g	100 mm

### 2. belasting (aparte belastinggevallen):

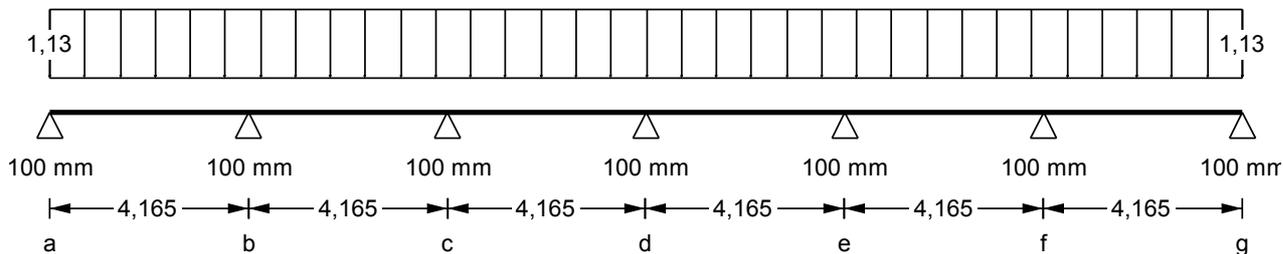
belastingstype 1: gelijke belasting over het totaal aantal dragers

belastingsrichting 1: orthogonaal op het draagvlak

belastingsrichting 2: verticaal, met betrekking tot het dakoppervlak

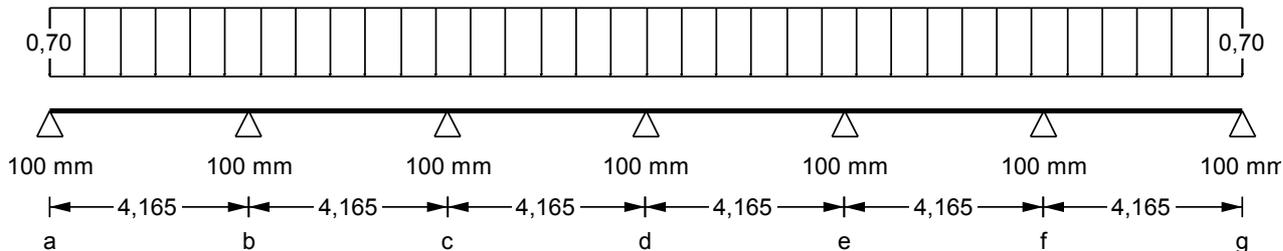
belastingsrichting 3: verticaal, met betrekking tot het grondvlak

#### 2.1 belastingseval g - Dachaufbau (ständig) (LF 1):



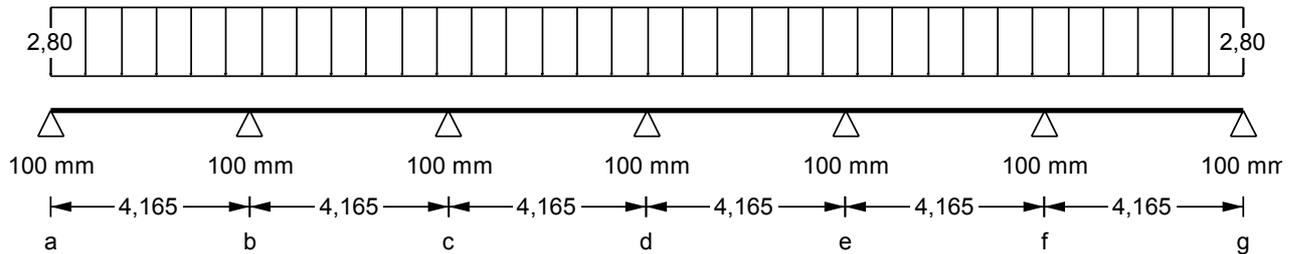
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	2	0,141 kN/m <sup>2</sup>	-	-	-	EG-profiel (automatisch)
1	2	0,990 kN/m <sup>2</sup>	-	-	-	Dämmung und Dichtung

#### 2.2 belastingseval p - Ausbaulast (veränderlich) (LF 2):



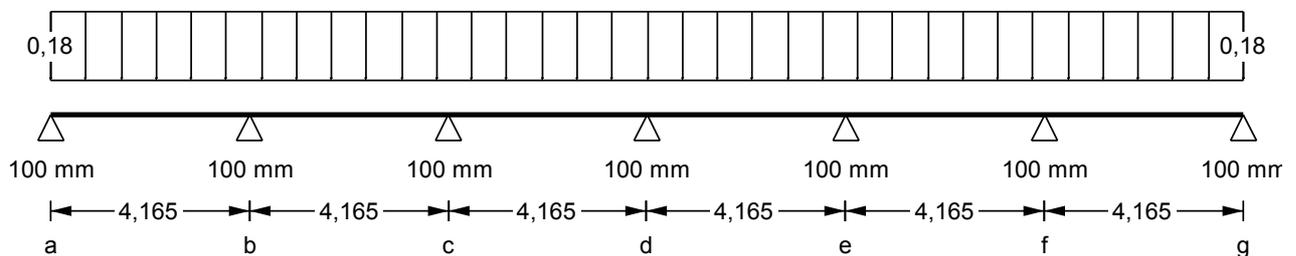
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	2	0,700 kN/m <sup>2</sup>	-	-	-	Installation etc.

### 2.3 belastingsgeval s - Schnee (LF 3):



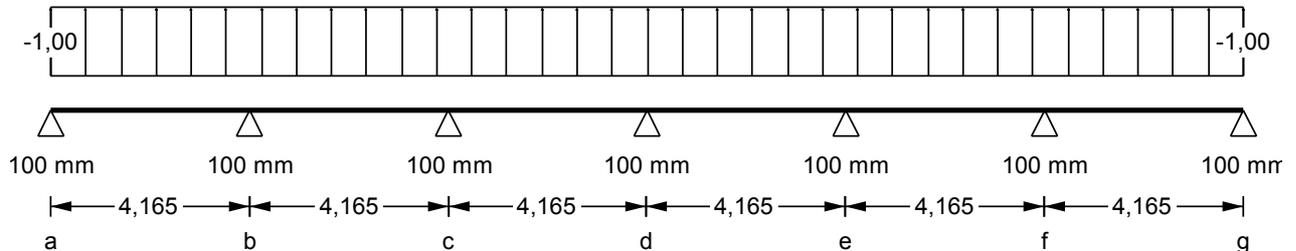
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	3	2,800 kN/m <sup>2</sup>	-	-	-	

### 2.4 belastingsgeval wD - Winddruk (LF 4):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	1	0,180 kN/m <sup>2</sup>	-	-	-	= (0,20 + 0,16) * 0,90

### 2.5 belastingsgeval wS - Windsog Bemessung (LF 5):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	1	-1,000 kN/m <sup>2</sup>	-	-	-	

### 3. belastingsgevalencombinaties:

LK	benaming	combinatievoorschrift ( $\sum \psi_i * \gamma_{F,i} * S_{k,i}$ )
1	g + p + s	1,0 · 1,35 · LF 1 + 1,0 · 1,5 · LF 2 + 1,0 · 1,5 · LF 3
2	g + p + wD	1,0 · 1,35 · LF 1 + 1,0 · 1,5 · LF 2 + 1,0 · 1,5 · LF 4
3	g + p + s + wD	1,0 · 1,35 · LF 1 + 0,9 · 1,5 · LF 2 + 0,9 · 1,5 · LF 3 + 0,9 · 1,5 · LF 4
4	g + wS	1,0 · 0,9 · LF 1 + 1,0 · 1,5 · LF 5

#### 4. doorsnedegrootte van de belastingsgevallen:

elasticiteitsmodule:  $E = 21000,0 \text{ kN/cm}^2$

##### 4.1 g - Dachaufbau (ständig) (LF 1):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	1,525	2,0
veld 2	0,668	0,5
veld 3	0,850	0,8
veld 4	0,850	0,8
veld 5	0,668	0,5
veld 6	1,525	2,0

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	1,857	1,857	-	-	-
b	-2,854	2,491	5,345	-2,075	-1,934	-1,952
c	-2,219	2,310	4,529	-1,509	-1,400	-1,395
d	-2,401	2,401	4,801	-1,698	-1,579	-1,579
e	-2,310	2,219	4,529	-1,509	-1,395	-1,400
f	-2,491	2,854	5,345	-2,075	-1,952	-1,934
g	-1,857	-	1,857	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 4.2 p - Ausbaulast (veränderlich) (LF 2):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	0,944	1,2
veld 2	0,414	0,3
veld 3	0,526	0,5
veld 4	0,526	0,5
veld 5	0,414	0,3
veld 6	0,944	1,2

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	1,149	1,149	-	-	-
b	-1,766	1,542	3,308	-1,284	-1,197	-1,208
c	-1,374	1,430	2,803	-0,934	-0,866	-0,863
d	-1,486	1,486	2,972	-1,051	-0,977	-0,977
e	-1,430	1,374	2,803	-0,934	-0,863	-0,866
f	-1,542	1,766	3,308	-1,284	-1,208	-1,197
g	-1,149	-	1,149	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 4.3 s - Schnee (LF 3):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	3,774	4,9
veld 2	1,655	1,2
veld 3	2,104	2,1
veld 4	2,104	2,1
veld 5	1,655	1,2
veld 6	3,774	4,9

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	4,598	4,598	-	-	-
b	-7,064	6,167	13,232	-5,137	-4,788	-4,833
c	-5,495	5,719	11,213	-3,736	-3,465	-3,454
d	-5,943	5,943	11,886	-4,203	-3,910	-3,910
e	-5,719	5,495	11,213	-3,736	-3,454	-3,465
f	-6,167	7,064	13,232	-5,137	-4,833	-4,788
g	-4,598	-	4,598	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 4.4 wD - Winddruck (LF 4):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	0,243	0,3
veld 2	0,106	0,1
veld 3	0,135	0,1
veld 4	0,135	0,1
veld 5	0,106	0,1
veld 6	0,243	0,3

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	0,296	0,296	-	-	-
b	-0,454	0,396	0,851	-0,330	-0,308	-0,311
c	-0,353	0,368	0,721	-0,240	-0,223	-0,222
d	-0,382	0,382	0,764	-0,270	-0,251	-0,251
e	-0,368	0,353	0,721	-0,240	-0,222	-0,223
f	-0,396	0,454	0,851	-0,330	-0,311	-0,308
g	-0,296	-	0,296	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 4.5 wS - Windsog Bemessung (LF 5):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	-1,348	-1,8
veld 2	-0,591	-0,4
veld 3	-0,751	-0,8
veld 4	-0,751	-0,8
veld 5	-0,591	-0,4
veld 6	-1,348	-1,8

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-1,642	-1,642	-
b	2,523	-2,203	-4,726	1,835
c	1,962	-2,042	-4,005	1,334
d	2,123	-2,123	-4,245	1,501
e	2,042	-1,962	-4,005	1,334
f	2,203	-2,523	-4,726	1,835
g	1,642	-	-1,642	-

\*) Vervormingsberekening voor  $l_{ef}^- = 523,1 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5. doorsnedegrootte van de belastingsgevalcombinaties:

De vervormingsberekening gebeurt onder gebruiksbelasting met  $\gamma_{F,i} = 1,00$ .

elasticiteitsmodule:  $E = 21000,0 \text{ kN/cm}^2$

#### 5.1 g + p + s (LK 1):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	9,135	8,1
veld 2	4,005	2,0
veld 3	5,092	3,5
veld 4	5,092	3,5
veld 5	4,005	2,0
veld 6	9,135	8,1

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	11,127	11,127	-	-	-
b	-17,098	14,927	32,025	-12,434	-11,588	-11,696
c	-13,299	13,841	27,140	-9,043	-8,387	-8,359
d	-14,384	14,384	28,768	-10,173	-9,463	-9,463
e	-13,841	13,299	27,140	-9,043	-8,359	-8,387
f	-14,927	17,098	32,025	-12,434	-11,696	-11,588
g	-11,127	-	11,127	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5.2 g + p + wD (LK 2):

veld	max M <sub>F</sub>	max f
[-]	[kNm/m]	[mm]
veld 1	3,838	3,5
veld 2	1,683	0,9
veld 3	2,139	1,5
veld 4	2,139	1,5
veld 5	1,683	0,9
veld 6	3,838	3,5

oplegging	V <sub>li</sub>	V <sub>re</sub>	A	M <sub>St</sub>	M <sub>St,l</sub>	M <sub>St,r</sub>
[-]	[kN/m]	[kN/m]	[kN/m]	[kNm/m]	[kNm/m]	[kNm/m]
a	-	4,674	4,674	-	-	-
b	-7,183	6,271	13,453	-5,223	-4,868	-4,913
c	-5,587	5,815	11,401	-3,799	-3,523	-3,512
d	-6,043	6,043	12,085	-4,274	-3,975	-3,975
e	-5,815	5,587	11,401	-3,799	-3,512	-3,523
f	-6,271	7,183	13,453	-5,223	-4,913	-4,868
g	-4,674	-	4,674	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5.3 g + p + s + wD (LK 3):

veld	max M <sub>F</sub>	max f
[-]	[kNm/m]	[mm]
veld 1	8,755	7,8
veld 2	3,839	1,9
veld 3	4,880	3,3
veld 4	4,880	3,3
veld 5	3,839	1,9
veld 6	8,755	7,8

oplegging	V <sub>li</sub>	V <sub>re</sub>	A	M <sub>St</sub>	M <sub>St,l</sub>	M <sub>St,r</sub>
[-]	[kN/m]	[kN/m]	[kN/m]	[kNm/m]	[kNm/m]	[kNm/m]
a	-	10,664	10,664	-	-	-
b	-16,387	14,306	30,693	-11,917	-11,106	-11,210
c	-12,745	13,265	26,011	-8,667	-8,038	-8,012
d	-13,786	13,786	27,571	-9,750	-9,069	-9,069
e	-13,265	12,745	26,011	-8,667	-8,012	-8,038
f	-14,306	16,387	30,693	-11,917	-11,210	-11,106
g	-10,664	-	10,664	-	-	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

### 5.4 g + wS (LK 4):

veld	max M <sub>F</sub>	max f
[-]	[kNm/m]	[mm]
veld 1	-0,650	0,2
veld 2	-0,285	0,1
veld 3	-0,362	0,1
veld 4	-0,362	0,1
veld 5	-0,285	0,1
veld 6	-0,650	0,2

oplegging	V <sub>li</sub>	V <sub>re</sub>	A	M <sub>St</sub>
[-]	[kN/m]	[kN/m]	[kN/m]	[kNm/m]
a	-	-0,792	-0,792	-
b	1,216	-1,062	-2,278	0,885
c	0,946	-0,985	-1,931	0,643
d	1,023	-1,023	-2,047	0,724
e	0,985	-0,946	-1,931	0,643
f	1,062	-1,216	-2,278	0,885
g	0,792	-	-0,792	-

\*) Vervormingsberekening voor  $l_{ef}^+ = 536,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

M<sub>St,l</sub>; M<sub>St,r</sub>: (volgens EN 1993-1-3, 6.1.11)

## 6. profiel:

geselecteerd:  staal-trapeziumprofiel in positieve positie  
**SAB 158R/750** ,  $t_N = 0,88 \text{ mm}$  ( $g = 0,141 \text{ kN/m}^2$ )

volgens Prüfbescheid Nr. T14-121 vom 15.08.2014 (identificatie volgens DIN EN 1993-1-3)

## 7. profielgebruik:

identificatie	exploitatie	commentaar
grensoverspanning	30,4%	
draagkracht - elastisch	121,2%	-> plastische identificatieprocedure
draagkracht - plastisch	83,6%	
veldvervorming	58,3%	toegelaten $f = L / 300$

profielcontrole: OK ✓

Bij de tussenopleggingen worden identificaties voor de minimum benodigde bevestiging automatisch uitgevoerd (zie De daadwerkelijke aantallen verbindingsmiddelen zijn terug te vinden in de speciaal uit te voeren bevestigingsidentificatie).

## 8. elastische identificaties:

grensoverspanning:

$$\text{identificatie: } \frac{\text{vorig } L}{L_{\text{grenz}}} = \frac{4,165}{13,700} = 0,304 < 1,0$$

### 8.1 Identificatie als gevolg van aandrukkende belasting:

8.1.1 veldmoment(LK 1, veld 6 maatgevend):

$$\text{identificatie: } \frac{\text{max.}M_{F,Ed}}{M_{F,Rk} / \gamma_M} = \frac{9,135}{20,550 / 1,10} = 0,489 < 1,0$$

8.1.2 eindopleggingskracht (LK 1, oplegging a maatgevend):

$$\text{identificatie: } \frac{\text{max.}R_{A,Ed}}{R_{A,Rk} / \gamma_M} = \frac{11,127}{18,580 / 1,10} = 0,659 < 1,0$$

8.1.3 steunmomenten(LK 1, oplegging b maatgevend):

$$\text{identificatie: } \frac{|\text{min.}M_{St,Ed}|}{M_{St,Rk} / \gamma_M} = \frac{12,434}{16,974 / 1,10} = 0,806 < 1,0$$

8.1.4 tussenopleggingskrachten (LK 1, oplegging b maatgevend):

$$\text{identificatie: } \frac{\text{max.}R_{B,Ed}}{R_{B,Rk} / \gamma_M} = \frac{32,025}{39,328 / 1,10} = 0,896 < 1,0$$

8.1.5 intractie (LK 1, oplegging b maatgevend):

$$\text{identificatie: } \frac{|\text{min.}M_{St,Ed}|}{M_{B,k}^0 / \gamma_M} + \left( \frac{\text{max.}R_{B,Ed}}{R_{B,k}^0 / \gamma_M} \right)^2 = \frac{11,696}{19,630 / 1,10} + \left( \frac{32,025}{47,236 / 1,10} \right)^2 = 1,212 > 1,0 \text{ (-> plast. ident)}$$

gebruiksgeschiktheid:

Voor vaststelling van gebruiksgeschiktheid moet voor het elastische systeem worden bepaald, dat de 0,9-voudige belastbaarheid niet wordt overschreden.

$$\rightarrow \gamma_{F,G} = 1 / 0,90 = 1,11$$

$$\text{identificatie: } \frac{|\text{min.}M_{St,Ed}|}{M_{B,k}^0 / \gamma_M} + \left( \frac{\text{max.}R_{B,Ed}}{R_{B,k}^0 / \gamma_M} \right)^2 = \frac{8,967}{19,630 / 1,10} + \left( \frac{24,553}{47,236 / 1,10} \right)^2 = 0,829 < 1,0$$

8.1.6 veldvervormingen (LK 1, veld 1 maatgevend):

$$\text{identificatie: } \text{max.}f = 8,10 \text{ mm} \Leftrightarrow \frac{L}{514} < \frac{L}{300}$$

## 8.2 Identificatie als gevolg van loskomende belasting:

### 8.2.1 veldmoment(LK 4. veld 1 maatgevend):

$$\text{identificatie: } \frac{|\min.M_{F,Ed}|}{M_{F,Rk} / \gamma_M} = \frac{-0,650}{-16,100 / 1,10} = 0,044 < 1,0$$

### 8.2.2 eindopleggingskracht (LK 4. oplegging a maatgevend. n = 1):

$$\text{identificatie: } \frac{|\min.R_{A,Ed}|}{R_{A,Rk} / \gamma_M} = \frac{-0,792}{-54,590 / 1,10} = 0,016 < 1,0 \text{ (voor } n = 1)$$

### 8.2.3 Dwarskracht (LK 4. oplegging f maatgevend. n = 0,5):

$$\text{identificatie: } \frac{\max.V_{Ed}}{V_{w,Rk} / \gamma_M} = \frac{1,216}{27,300 / 1,10} = 0,049 < 0,5$$

### 8.2.4 steunmomenten(LK 4. oplegging f maatgevend. n = 0,5):

$$\text{identificatie: } \frac{\max.M_{St,Ed}}{M_{St,Rk} / \gamma_M} = \frac{0,885}{9,300 / 1,10} = 0,105 < 1,0$$

### 8.2.5 tussenopleggingskrachten (LK 4. oplegging b maatgevend. n = 0,5):

$$\text{identificatie: } \frac{|\min.R_{B,Ed}|}{R_{B,Rk} / \gamma_M} = \frac{-2,433}{-54,600 / 1,10} = 0,049 < 1,0$$

## 9. plastische identificatie (draaglastprocedure):

Ten minste één identificatie bij de tussenoplegging is voor de met de elastische procedure bepaalde doorsnedegrootte niet Bij inachtneming van de overeenkomstige identificatie onder gebruiksbelasting mag de plastische procedure voor de bepaling van de doorsnedegrootte Hierbij gebeurt de berekening volgens de loopscharniertheorie, dit betekent dat aan de opleggingen momentscharnieren worden aangezet zodat de lasten zich in het veld verplaatsen. Voor zover waarden voorhanden zijn wordt hierna rekening gehouden met reststeunmomenten, die het veldmoment reduceren. ( $M_{Rest} < 0$ ).

### 9.1 g + p + s (LK 1):

#### 9.1.1 Doorsnedegrootte volgens de loopscharniertheorie:

veld	max $M_F$	oplegging	$V_{li}$	$V_{re}$	A	$M_{St}$	aanwijzing
[-]	[kNm/m]	[-]	[kN/m]	[kN/m]	[kN/m]	[kNm/m]	[-]
veld 1	14,695	a	-	14,113	14,113	-	-
veld 2	14,695	b	-14,113	14,113	28,226	0,000	$M_{Rest}$
veld 3	14,695	c	-14,113	14,113	28,226	0,000	$M_{Rest}$
veld 4	14,695	d	-14,113	14,113	28,226	0,000	$M_{Rest}$
veld 5	14,695	e	-14,113	14,113	28,226	0,000	$M_{Rest}$
veld 6	14,695	f	-14,113	14,113	28,226	0,000	$M_{Rest}$
		g	-14,113	-	14,113	-	-

#### 9.1.2 veldmoment:

$$\text{identificatie: } \frac{M_{F,Ed}}{M_{F,Rk} / 1,10} \leq 1,0$$

veld	M <sub>F,Ed</sub>	M <sub>F,Rk</sub>	identificatie
[-]	[kNm/m]	[kNm/m]	[-]
veld 1	14,695	20,550	0,787 < 1,0
veld 2	14,695	20,550	0,787 < 1,0
veld 3	14,695	20,550	0,787 < 1,0
veld 4	14,695	20,550	0,787 < 1,0
veld 5	14,695	20,550	0,787 < 1,0
veld 6	14,695	20,550	0,787 < 1,0

### 9.1.3 Endauflagerkräfte:

$$\text{identificatie: } \frac{R_{A,Ed}}{R_{A,Rk} / 1,10} \leq 1,0$$

oplegging	b <sub>A</sub> / n	R <sub>A,Ed</sub>	R <sub>A,Rk</sub>	identificatie
[-]	[-]	[kN/m]	[kN/m]	[-]
a	b <sub>A</sub> = 100 mm	14,113	18,580	0,836 < 1,0
g	b <sub>A</sub> = 100 mm	14,113	18,580	0,836 < 1,0

## 9.2 g + p + s + wD (LK 3):

### 9.2.1 Doorsnedegrootte volgens de loopscharniertheorie:

veld	max M <sub>F</sub>
[-]	[kNm/m]
veld 1	14,083
veld 2	14,083
veld 3	14,083
veld 4	14,083
veld 5	14,083
veld 6	14,083

oplegging	V <sub>li</sub>	V <sub>re</sub>	A	M <sub>St</sub>	aanwijzing
[-]	[kN/m]	[kN/m]	[kN/m]	[kNm/m]	[-]
a	-	13,526	13,526	-	-
b	-13,526	13,526	27,051	0,000	M <sub>Rest</sub>
c	-13,526	13,526	27,051	0,000	M <sub>Rest</sub>
d	-13,526	13,526	27,051	0,000	M <sub>Rest</sub>
e	-13,526	13,526	27,051	0,000	M <sub>Rest</sub>
f	-13,526	13,526	27,051	0,000	M <sub>Rest</sub>
g	-13,526	-	13,526	-	-

### 9.2.2 veldmoment:

$$\text{identificatie: } \frac{M_{F,Ed}}{M_{F,Rk} / 1,10} \leq 1,0$$

veld	M <sub>F,Ed</sub>	M <sub>F,Rk</sub>	identificatie
[-]	[kNm/m]	[kNm/m]	[-]
veld 1	14,083	20,550	0,754 < 1,0
veld 2	14,083	20,550	0,754 < 1,0
veld 3	14,083	20,550	0,754 < 1,0
veld 4	14,083	20,550	0,754 < 1,0
veld 5	14,083	20,550	0,754 < 1,0
veld 6	14,083	20,550	0,754 < 1,0

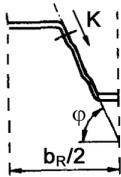
### 9.2.3 Endauflagerkräfte:

$$\text{identificatie: } \frac{R_{A,Ed}}{R_{A,Rk} / 1,10} \leq 1,0$$

oplegging	b <sub>A</sub> / n	R <sub>A,Ed</sub>	R <sub>A,Rk</sub>	identificatie
[-]	[-]	[kN/m]	[kN/m]	[-]
a	b <sub>A</sub> = 100 mm	13,526	18,580	0,801 < 1,0
g	b <sub>A</sub> = 100 mm	13,526	18,580	0,801 < 1,0

## 10. buigverbindingontwikkeling:

profielgeometrie:



Stahl-Trapezprofiel  $h = 158 / b_R = 250 / t_N = 0,88\text{mm}$

$$\text{lijfhelling } \varphi = \arctan\left(\frac{2 \cdot h}{b_R - b_O - b_U}\right) = \arctan\left(\frac{2 \cdot 158}{250 - 119 - 40}\right) = 73,93^\circ$$

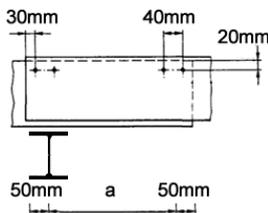
bevestiging:

gew.: Bohrschrauben EJOT® JF3 - 2 - 5,5 - E11 [S320] gem. ETA-10/0200 Anhang 124 vom 23.03.2018

$$V_{Rd} = 3,11 / 1,33 = 2,34 \text{ kN / bevestiging}$$

### 10.1 buigverbinding bij oplegging d:

Het uitspringend einde ligt onderaan rechts van de oplegging.



afstand van de bevestigingspunten:

gew.:  $a = 400 \text{ mm}$

$$(\sim L / 10 = 416 \text{ mm})$$

dimensioneringsdoorsnedegrootte:

$M_{St,d} = -10,173 \text{ kNm/m}$  (LK 1 maatgevend)

$$\rightarrow \max.K_d = \frac{|M_{St,d}| / a}{2 \cdot \sin \varphi} \cdot b_R = \frac{|-10,173| / 0,400}{2 \cdot \sin 73,93^\circ} \cdot 0,250 = 3,308 \text{ kN / bevestigingspunt}$$

aantal bevestigers:

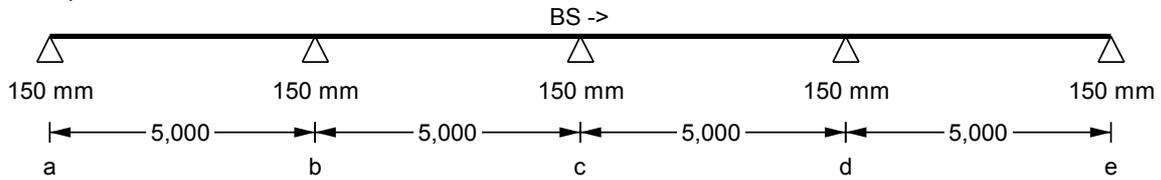
gew.:  $n = 2$  Bohrschrauben EJOT® JF3 - 2 - 5,5 - E11 [S320] per bevestigingspunt en lijf

$$\text{identificatie: } \frac{\max.K_d}{n \cdot V_{Rd}} = \frac{3,308}{2 \cdot 2,34} = 0,707 < 1,0$$

## POS.4102 Trapeziumplaat luivel

### 1. statistisch systeem:

voor plat dak



BS = Buigverbinding

nr.	segment	lengte	nr.	plaats	opleggingsbreedte
1	veld 1	5,000 m	1	a	150 mm
2	veld 2	5,000 m	2	b	150 mm
3	veld 3	5,000 m	3	c	150 mm
4	veld 4	5,000 m	4	d	150 mm
			5	e	150 mm

### 2. belasting (aparte belastingsgevallen):

belastingtype 1: gelijke belasting over het totaal aantal dragers

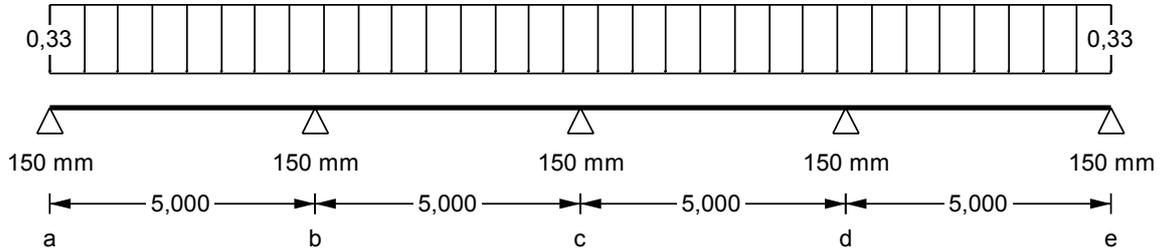
belastingtype 2: trapeziumbelasting

belastingsrichting 1: orthogonaal op het draagvlak

belastingsrichting 2: verticaal, met betrekking tot het dakoppervlak

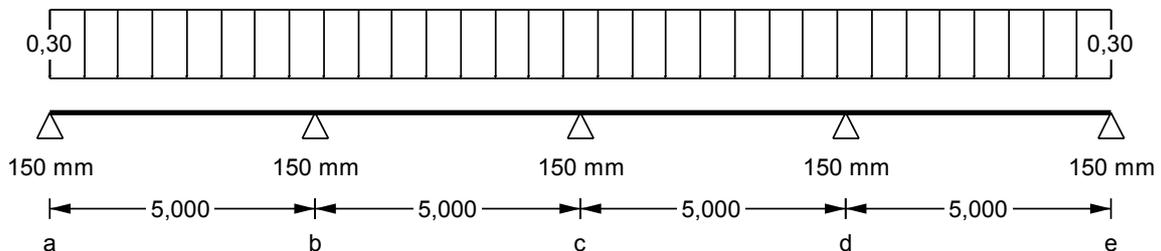
belastingsrichting 3: verticaal, met betrekking tot het grondvlak

#### 2.1 belastingsgeval g - Dachaufbau (ständig) (LF 1):



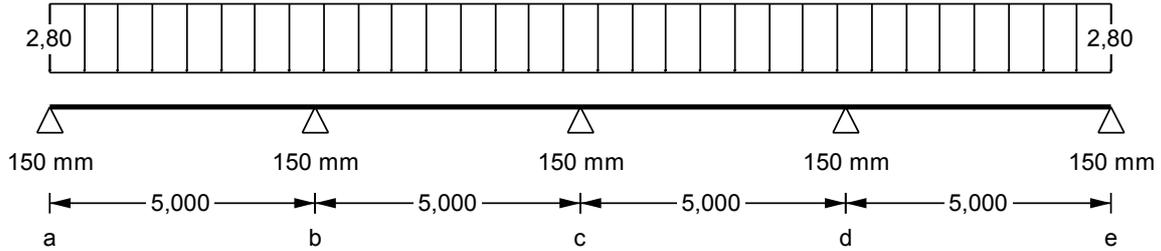
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	2	0,126 kN/m <sup>2</sup>	-	-	-	EG-profiel (automatisch)
1	2	0,200 kN/m <sup>2</sup>	-	-	-	Dämmung und Dichtung

#### 2.2 belastingsgeval p - Ausbaulast (veränderlich) (LF 2):



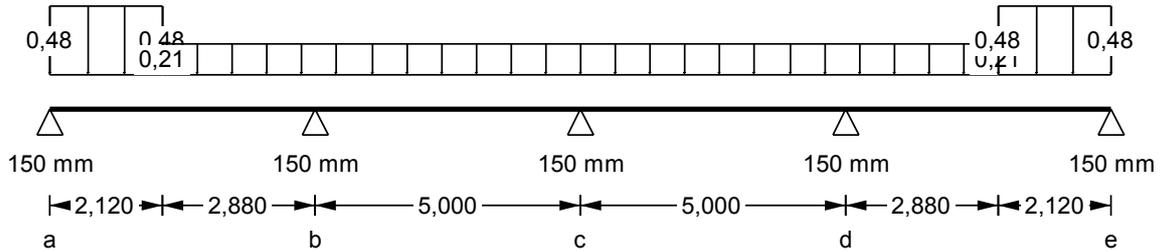
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	2	0,300 kN/m <sup>2</sup>	-	-	-	Installation etc.

### 2.3 belastingsgeval s - Schnee (LF 3):



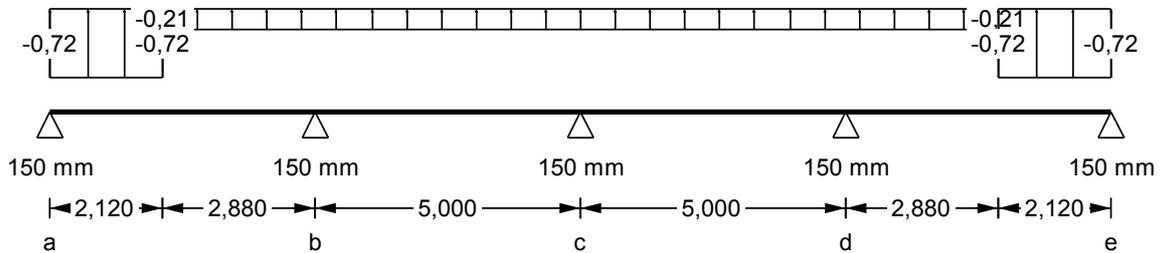
type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
1	3	2,800 kN/m <sup>2</sup>	-	-	-	

### 2.4 belastingsgeval wD - Winddruk (LF 4):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
2	1	0,480 kN/m <sup>2</sup>	0,480 kN/m <sup>2</sup>	0,000 m	2,120 m	
2	1	0,210 kN/m <sup>2</sup>	0,210 kN/m <sup>2</sup>	2,120 m	17,880 m	
2	1	0,480 kN/m <sup>2</sup>	0,480 kN/m <sup>2</sup>	17,880 m	20,000 m	

### 2.5 belastingsgeval wS - Windsog Bemessung (LF 5):



type	richt.	P <sub>1</sub>	P <sub>2</sub>	a <sub>1</sub>	a <sub>2</sub>	commentaar
2	1	-0,720 kN/m <sup>2</sup>	-0,720 kN/m <sup>2</sup>	0,000 m	2,120 m	
2	1	-0,210 kN/m <sup>2</sup>	-0,210 kN/m <sup>2</sup>	2,120 m	17,880 m	
2	1	-0,720 kN/m <sup>2</sup>	-0,720 kN/m <sup>2</sup>	17,880 m	20,000 m	

### 3. belastingsgevalcombinaties:

LK	benaming	combinatievoorschrift ( $\sum \psi_{i} * \gamma_{F,i} * S_{k,i}$ )
1	g + p + s	1,0 · 1,35 · LF 1 + 1,0 · 1,5 · LF 2 + 1,0 · 1,5 · LF 3
2	g + p + wD	1,0 · 1,35 · LF 1 + 1,0 · 1,5 · LF 2 + 1,0 · 1,5 · LF 4
3	g + p + s + wD	1,0 · 1,35 · LF 1 + 0,9 · 1,5 · LF 2 + 0,9 · 1,5 · LF 3 + 0,9 · 1,5 · LF 4
4	g + wS	1,0 · 0,9 · LF 1 + 1,0 · 1,5 · LF 5

#### 4. doorsnedegrootte van de belastingsgevallen:

elasticiteitsmodule:  $E = 21000,0 \text{ kN/cm}^2$

##### 4.1 g - Dachaufbau (ständig) (LF 1):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	0,629	1,4
veld 2	0,296	0,4
veld 3	0,296	0,4
veld 4	0,629	1,4

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	0,640	0,640	-	-	-
b	-0,990	0,873	1,863	-0,873	-0,800	-0,809
c	-0,757	0,757	1,514	-0,582	-0,526	-0,526
d	-0,873	0,990	1,863	-0,873	-0,809	-0,800
e	-0,640	-	0,640	-	-	-

\*) Vervormingsberekening voor  $I_{ef}^* = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 4.2 p - Ausbaulast (veränderlich) (LF 2):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	0,579	1,3
veld 2	0,273	0,4
veld 3	0,273	0,4
veld 4	0,579	1,3

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	0,589	0,589	-	-	-
b	-0,911	0,804	1,714	-0,804	-0,736	-0,744
c	-0,696	0,696	1,393	-0,536	-0,484	-0,484
d	-0,804	0,911	1,714	-0,804	-0,744	-0,736
e	-0,589	-	0,589	-	-	-

\*) Vervormingsberekening voor  $I_{ef}^* = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 4.3 s - Schnee (LF 3):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	5,402	12,4
veld 2	2,545	3,6
veld 3	2,545	3,6
veld 4	5,402	12,4

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	5,500	5,500	-	-	-
b	-8,500	7,500	16,000	-7,500	-6,870	-6,945
c	-6,500	6,500	13,000	-5,000	-4,520	-4,520
d	-7,500	8,500	16,000	-7,500	-6,945	-6,870
e	-5,500	-	5,500	-	-	-

\*) Vervormingsberekening voor  $I_{ef}^* = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 4.4 wD - Winddruk (LF 4):

veld [-]	max $M_F$ [kNm/m]	max $f^*$ [mm]
veld 1	0,721	1,6
veld 2	0,165	0,2
veld 3	0,165	0,2
veld 4	0,721	1,6

oplegging [-]	$V_{li}$ [kN/m]	$V_{re}$ [kN/m]	$A$ [kN/m]	$M_{St}$ [kNm/m]	$M_{St,l}$ [kNm/m]	$M_{St,r}$ [kNm/m]
a	-	0,832	0,832	-	-	-
b	-0,790	0,610	1,400	-0,720	-0,662	-0,675
c	-0,440	0,440	0,880	-0,296	-0,264	-0,264
d	-0,610	0,790	1,400	-0,720	-0,675	-0,662
e	-0,832	-	0,832	-	-	-

\*) Vervormingsberekening voor  $I_{ef}^* = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 4.5 wS - Windsog Bemessung (LF 5):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	-1,008	-2,2
veld 2	-0,151	0,2
veld 3	-0,151	0,2
veld 4	-1,008	-2,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]
a	-	-1,205	-1,205	-
b	0,926	-0,652	-1,578	0,861
c	0,398	-0,398	-0,796	0,226
d	0,652	-0,926	-1,578	0,861
e	1,205	-	-1,205	-

<sup>\*</sup>) Vervormingsberekening voor  $I_{ef}^- = 439,5 \text{ cm}^4/\text{m}$  (loskomende belasting);  $E = 21000 \text{ kN/cm}^2$

#### 5. doorsnedegrootte van de belastingsgevalcombinaties:

De vervormingsberekening gebeurt onder gebruiksbelasting met  $\gamma_{F,i} = 1,00$ .

elasticiteitsmodule:  $E = 21000,0 \text{ kN/cm}^2$

##### 5.1 g + p + s (LK 1):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	9,820	15,2
veld 2	4,626	4,4
veld 3	4,626	4,4
veld 4	9,820	15,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	9,998	9,998	-	-	-
b	-15,452	13,634	29,086	-13,634	-12,490	-12,626
c	-11,816	11,816	23,633	-9,089	-8,218	-8,218
d	-13,634	15,452	29,086	-13,634	-12,626	-12,490
e	-9,998	-	9,998	-	-	-

<sup>\*</sup>) Vervormingsberekening voor  $I_{ef}^+ = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 5.2 g + p + wD (LK 2):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	2,788	4,4
veld 2	1,051	1,0
veld 3	1,051	1,0
veld 4	2,788	4,4

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	2,996	2,996	-	-	-
b	-3,888	3,299	7,187	-3,465	-3,176	-3,221
c	-2,727	2,727	5,453	-2,034	-1,833	-1,833
d	-3,299	3,888	7,187	-3,465	-3,221	-3,176
e	-2,996	-	2,996	-	-	-

<sup>\*</sup>) Vervormingsberekening voor  $I_{ef}^+ = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

##### 5.3 g + p + s + wD (LK 3):

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	9,881	15,2
veld 2	4,420	4,2
veld 3	4,420	4,2
veld 4	9,881	15,2

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	10,208	10,208	-	-	-
b	-15,108	13,212	28,319	-13,361	-12,242	-12,384
c	-11,331	11,331	22,662	-8,659	-7,823	-7,823
d	-13,212	15,108	28,319	-13,361	-12,384	-12,242
e	-10,208	-	10,208	-	-	-

<sup>\*</sup>) Vervormingsberekening voor  $I_{ef}^+ = 434,0 \text{ cm}^4/\text{m}$  (aandrukkende belasting);  $E = 21000 \text{ kN/cm}^2$

**5.4 g + wS (LK 4):**

veld [-]	max M <sub>F</sub> [kNm/m]	max f <sup>*</sup> [mm]
veld 1	-0,963	-0,8
veld 2	-	0,4
veld 3	-	0,4
veld 4	-0,963	-0,8

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	M <sub>St,l</sub> [kNm/m]	M <sub>St,r</sub> [kNm/m]
a	-	-1,231	-1,231	-	-	-
b	0,499	-0,192	-0,691	0,505	-	-
c	-0,084	0,084	0,168	-0,185	-0,179	-0,179
d	0,192	-0,499	-0,691	0,505	-	-
e	1,231	-	-1,231	-	-	-

<sup>\*</sup>) Vervormingsberekening voor I<sub>eF</sub> = 439,5 cm<sup>4</sup>/m (loskomende belasting); E = 21000 kN/cm<sup>2</sup>

M<sub>St,l</sub>; M<sub>St,r</sub>: (volgens EN 1993-1-3, 6.1.11)

**6. profiel:**

geselecteerd:  staal-trapeziumprofiel in positieve positie  
**SAB 153R/840** , t<sub>N</sub> = 0,88 mm (g = 0,126 kN/m<sup>2</sup>)

volgens Prüfbescheid Nr. T14-121 vom 15.08.2014 (identificatie volgens DIN EN 1993-1-3)

**7. profielgebruik:**

identificatie	exploitatie	commentaar
grensoverspanning	37,9%	
draagkracht - elastisch	144,1%	-> plastische identificatieprocedure
draagkracht - plastisch	98,5%	
veldvervorming	91,5%	toegelaten f = L / 300

profielcontrole: OK ✓

Bij de tussenopleggingen worden identificaties voor de minimum benodigde bevestiging automatisch uitgevoerd (zie De daadwerkelijke aantallen verbindingsmiddelen zijn terug te vinden in de speciaal uit te voeren bevestigingsidentificatie.

**8. elastische identificaties:**

grensoverspanning:

$$\text{identificatie: } \frac{\text{vorig } L}{L_{\text{grenz}}} = \frac{5,000}{13,200} = 0,379 < 1,0$$

**8.1 Identificatie als gevolg van aandrukkende belasting:**

8.1.1 veldmoment(LK 3, veld 4 maatgevend):

$$\text{identificatie: } \frac{\text{max.M}_{F,Ed}}{M_{F,Rk} / \gamma_M} = \frac{9,881}{18,160 / 1,10} = 0,599 < 1,0$$

8.1.2 eindopleggingskracht (LK 3, oplegging a maatgevend):

$$\text{identificatie: } \frac{\text{max.RA}_{,Ed}}{R_{A,Rk} / \gamma_M} = \frac{10,208}{16,230 / 1,10} = 0,692 < 1,0$$

8.1.3 steunmomenten(LK 1, oplegging d maatgevend):

$$\text{identificatie: } \frac{|\text{min.M}_{St,Ed}|}{M_{St,Rk} / \gamma_M} = \frac{13,634}{14,725 / 1,10} = 1,019 \sim 1,0$$

**8.1.4 tussenopleggingskrachten (LK 1, oplegging b maatgevend):**

$$\text{identificatie: } \frac{\max.R_{B,Ed}}{R_{B,Rk} / \gamma_M} = \frac{29,086}{33,187 / 1,10} = 0,964 < 1,0$$

**8.1.5 intractie (LK 1, oplegging d maatgevend):**

$$\text{identificatie: } \frac{|\min.M_{St,Ed}|}{M_{B,k}^0 / \gamma_M} + \left(\frac{\max.R_{B,Ed}}{R_{B,k}^0 / \gamma_M}\right)^2 = \frac{12,626}{17,977 / 1,10} + \left(\frac{29,086}{39,126 / 1,10}\right)^2 = 1,441 > 1,0 \text{ (-> plast. ident)}$$

**gebruiksgeschiktheid:**

Voor vaststelling van gebruiksgeschiktheid moet voor het elastische systeem worden bepaald, dat de 0,9-voudige belastbaarheid niet wordt overschreden.

$$\rightarrow \gamma_{F,G} = 1 / 0,90 = 1,11$$

$$\text{identificatie: } \frac{|\min.M_{St,Ed}|}{M_{B,k}^0 / \gamma_M} + \left(\frac{\max.R_{B,Ed}}{R_{B,k}^0 / \gamma_M}\right)^2 = \frac{9,680}{17,977 / 1,10} + \left(\frac{22,299}{39,126 / 1,10}\right)^2 = 0,985 < 1,0$$

**8.1.6 veldvervormingen (LK 3, veld 1 maatgevend):**

$$\text{identificatie: } \max.f = 15,25 \text{ mm} \Leftrightarrow \frac{L}{328} < \frac{L}{300}$$

**8.2 Identificatie als gevolg van loskomende belasting:****8.2.1 veldmoment(LK 4, veld 4 maatgevend):**

$$\text{identificatie: } \frac{|\min.M_{F,Ed}|}{M_{F,Rk} / \gamma_M} = \frac{-0,963}{-13,930 / 1,10} = 0,076 < 1,0$$

**8.2.2 eindopleggingskracht (LK 4, oplegging e maatgevend, n = 1):**

$$\text{identificatie: } \frac{|\min.R_{A,Ed}|}{R_{A,Rk} / \gamma_M} = \frac{-1,231}{-46,340 / 1,10} = 0,029 < 1,0 \text{ (voor n = 1)}$$

**8.2.3 Dwarskracht (LK 4, oplegging d maatgevend, n = 0,5):**

$$\text{identificatie: } \frac{\max.V_{Ed}}{V_{w,Rk} / \gamma_M} = \frac{0,499}{23,170 / 1,10} = 0,024 < 0,5$$

**8.2.4 steunmomenten(LK 4, oplegging d maatgevend, n = 0,5):**

$$\text{identificatie: } \frac{\max.M_{St,Ed}}{M_{St,Rk} / \gamma_M} = \frac{0,505}{8,020 / 1,10} = 0,069 < 1,0$$

**9. plastische identificatie (draaglastprocedure):**

Ten minste één identificatie bij de tussenoplegging is voor de met de elastische procedure bepaalde doorsnedegrootte niet Bij inachtneming van de overeenkomstige identificatie onder gebruiksbelasting mag de plastische procedure voor de bepaling van de doorsnedegrootte Hierbij gebeurt de berekening volgens de loopscharniertheorie, dit betekent dat aan de opleggingen momentscharnieren worden aangezet zodat de lasten zich in het veld verplaatsen. Voor zover waarden voorhanden zijn wordt hierna rekening gehouden met reststeunmomenten, die het veldmoment reduceren. ( $M_{Rest} < 0$ ).

### 9.1 g + p + s (LK 1):

#### 9.1.1 Doorsnedegrootte volgens de loopscharniertheorie:

veld [-]	max M <sub>F</sub> [kNm/m]
veld 1	15,907
veld 2	15,907
veld 3	15,907
veld 4	15,907

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	aanwijzing [-]
a	-	12,725	12,725	-	-
b	-12,725	12,725	25,451	0,000	M <sub>Rest</sub>
c	-12,725	12,725	25,451	0,000	M <sub>Rest</sub>
d	-12,725	12,725	25,451	0,000	M <sub>Rest</sub>
e	-12,725	-	12,725	-	-

#### 9.1.2 veldmoment:

$$\text{identificatie: } \frac{M_{F,Ed}}{M_{F,Rk} / 1,10} \leq 1,0$$

veld [-]	M <sub>F,Ed</sub> [kNm/m]	M <sub>F,Rk</sub> [kNm/m]	identificatie [-]
veld 1	15,907	18,160	0,964 < 1,0
veld 2	15,907	18,160	0,964 < 1,0
veld 3	15,907	18,160	0,964 < 1,0
veld 4	15,907	18,160	0,964 < 1,0

#### 9.1.3 Endauflagerkräfte:

$$\text{identificatie: } \frac{R_{A,Ed}}{R_{A,Rk} / 1,10} \leq 1,0$$

oplegging [-]	b <sub>A</sub> / n [-]	R <sub>A,Ed</sub> [kN/m]	R <sub>A,Rk</sub> [kN/m]	identificatie [-]
a	b <sub>A</sub> = 150 mm	12,725	16,230	0,862 < 1,0
e	b <sub>A</sub> = 150 mm	12,725	16,230	0,862 < 1,0

### 9.2 g + p + s + wD (LK 3):

#### 9.2.1 Doorsnedegrootte volgens de loopscharniertheorie:

veld [-]	max M <sub>F</sub> [kNm/m]
veld 1	15,752
veld 2	15,339
veld 3	15,339
veld 4	15,752

oplegging [-]	V <sub>li</sub> [kN/m]	V <sub>re</sub> [kN/m]	A [kN/m]	M <sub>St</sub> [kNm/m]	aanwijzing [-]
a	-	12,880	12,880	-	-
b	-12,435	12,272	24,707	0,000	M <sub>Rest</sub>
c	-12,272	12,272	24,543	0,000	M <sub>Rest</sub>
d	-12,272	12,435	24,707	0,000	M <sub>Rest</sub>
e	-12,880	-	12,880	-	-

#### 9.2.2 veldmoment:

$$\text{identificatie: } \frac{M_{F,Ed}}{M_{F,Rk} / 1,10} \leq 1,0$$

veld [-]	M <sub>F,Ed</sub> [kNm/m]	M <sub>F,Rk</sub> [kNm/m]	identificatie [-]
veld 1	15,752	18,160	0,954 < 1,0
veld 2	15,339	18,160	0,929 < 1,0
veld 3	15,339	18,160	0,929 < 1,0
veld 4	15,752	18,160	0,954 < 1,0

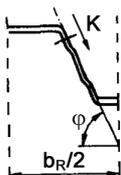
### 9.2.3 Endauflagerkräfte:

identificatie:  $\frac{R_{A,Ed}}{R_{A,Rk} / 1,10} \leq 1,0$

oplegging	$b_A / n$	$R_{A,Ed}$	$R_{A,Rk}$	identificatie
[-]	[-]	[kN/m]	[kN/m]	[-]
a	$b_A = 150 \text{ mm}$	12,880	16,230	$0,873 < 1,0$
e	$b_A = 150 \text{ mm}$	12,880	16,230	$0,873 < 1,0$

## 10. buigverbindingontwikkeling:

profielgeometrie:



Stahl-Trapezprofiel  $h = 153 / b_R = 280 / t_N = 0,88\text{mm}$

lijfhelling  $\varphi = \arctan\left(\frac{2 * h}{b_R - b_O - b_U}\right) = \arctan\left(\frac{2 * 153}{280 - 119 - 40}\right) = 68,42^\circ$

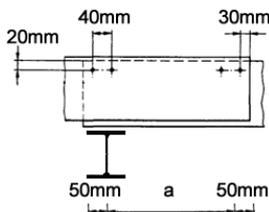
bevestiging:

gew.: Bohrschrauben EJOT® JF3 - 2 - 5,5 - E11 [S320] gem. ETA-10/0200 Anhang 124 vom 23.03.2018

$V_{Rd} = 3,11 / 1,33 = 2,34 \text{ kN} / \text{bevestiging}$

### 10.1 buigverbinding bij oplegging c:

Het uitspringend einde ligt bovenaan rechts van de oplegging.



afstand van de bevestigingspunten:

gew.:  $a = 500 \text{ mm}$

$(\sim L / 10 = 500 \text{ mm})$

dimensioneringsdoorsnedegrootte:

$M_{St,d} = -9,089 \text{ kNm/m}; V_{li,d} = 11,816 \text{ kN/m}$  (LK 1 maatgevend)

$\rightarrow \max.K_d = \frac{|M_{St,d}| / a + |V_{li,d}|}{2 * \sin \varphi} * b_R = \frac{|-9,089| / 0,500 + |11,816|}{2 * \sin 68,42^\circ} * 0,280 = 4,516 \text{ kN} / \text{bevestigingspunt}$

aantal bevestigers:

gew.:  $n = 2$  Bohrschrauben EJOT® JF3 - 2 - 5,5 - E11 [S320] per bevestigingspunt en lijf

identificatie:  $\frac{\max.K_d}{n * V_{Rd}} = \frac{4,516}{2 * 2,34} = 0,966 < 1,0$

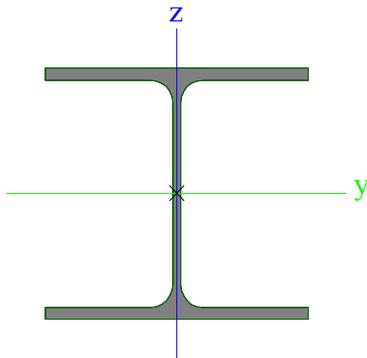
## POS.4200 Staalconstructie

### 1.) Algemene informatie

#### 1.1. Cross-sections

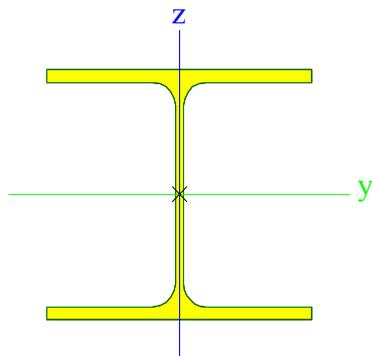
CS1		
Type	HEA280	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	9,7300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	7,0049e-03	2,3104e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,6000e+00	1,6026e+00
cYUCS [mm], cZUCS [mm]	140	135
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,3700e-04	4,7600e-05
iy [mm], iz [mm]	119	70
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,0100e-03	3,4000e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,1125e-03	5,1667e-04
Mply+ [Nm], Mply- [Nm]	2,62e+05	2,62e+05
Mplz+ [Nm], Mplz- [Nm]	1,22e+05	1,22e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	6,2100e-07	7,8537e-07
β y [mm], β z [mm]	0	0

Afbeelding



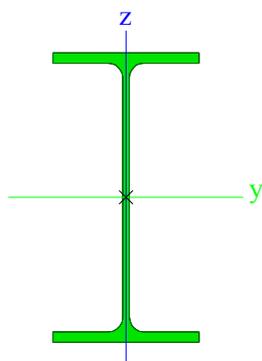
CS2		
Type	HEA240	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	7,6800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	5,5540e-03	1,8522e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,3700e+00	1,3688e+00
cYUCS [mm], cZUCS [mm]	120	115
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	7,7600e-05	2,7700e-05
iy [mm], iz [mm]	101	60
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	6,7500e-04	2,3100e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	7,4583e-04	3,5167e-04
Mply+ [Nm], Mply- [Nm]	2,65e+05	2,65e+05
Mplz+ [Nm], Mplz- [Nm]	1,25e+05	1,25e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,1600e-07	3,2849e-07
β y [mm], β z [mm]	0	0

Afbeelding



CS3		
Type	IPE300	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	5,3800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,1835e-03	2,1775e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,1599e+00	1,1599e+00
cYUCS [mm], cZUCS [mm]	75	150
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	8,3560e-05	6,0400e-06
iy [mm], iz [mm]	125	34
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,5700e-04	8,0500e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	6,2800e-04	1,2500e-04
Mply+ [Nm], Mply- [Nm]	2,23e+05	2,23e+05
Mplz+ [Nm], Mplz- [Nm]	4,45e+04	4,45e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,0100e-07	1,2600e-07
β y [mm], β z [mm]	0	0

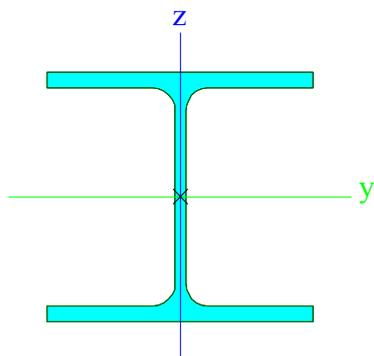
Afbeelding



CS4		
Type	HEA140	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	3,1400e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,2882e-03	7,8192e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	7,9400e-01	7,9430e-01
cYUCS [mm], cZUCS [mm]	70	66
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0300e-05	3,8900e-06
iy [mm], iz [mm]	57	35
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,5500e-04	5,5600e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,7333e-04	8,5000e-05
Mply+ [Nm], Mply- [Nm]	4,08e+04	4,08e+04
Mplz+ [Nm], Mplz- [Nm]	1,99e+04	1,99e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	8,1300e-08	1,5064e-08

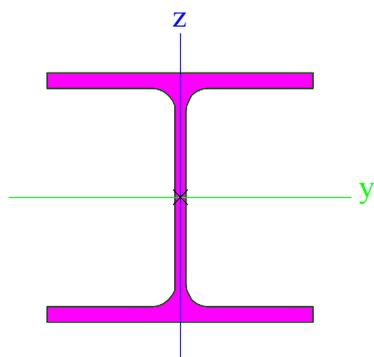
$\beta_y$ [mm], $\beta_z$ [mm]	0	0
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Afbeelding



CS6		
Type	HEA140	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	3,1400e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,2882e-03	7,8192e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	7,9400e-01	7,9430e-01
cYUCS [mm], cZUCS [mm]	70	66
$\alpha$ [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0300e-05	3,8900e-06
iy [mm], iz [mm]	57	35
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,5500e-04	5,5600e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,7333e-04	8,5000e-05
Mply+ [Nm], Mply- [Nm]	6,16e+04	6,16e+04
Mplz+ [Nm], Mplz- [Nm]	3,01e+04	3,01e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	8,1300e-08	1,5064e-08
$\beta_y$ [mm], $\beta_z$ [mm]	0	0

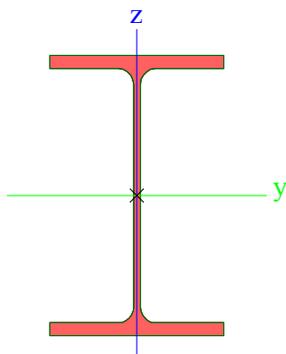
Afbeelding



CS7		
Type	HEA500	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	1,9800e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,3276e-02	6,0562e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	2,1100e+00	2,1094e+00
cYUCS [mm], cZUCS [mm]	150	245
$\alpha$ [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	8,7000e-04	1,0400e-04
iy [mm], iz [mm]	210	72
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	3,5500e-03	6,9100e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	3,9500e-03	1,0583e-03
Mply+ [Nm], Mply- [Nm]	1,40e+06	1,40e+06

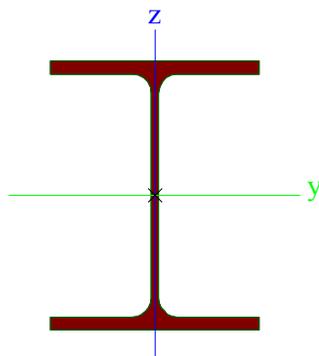
Mplz+ [Nm], Mplz- [Nm]	3,76e+05	3,76e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	3,0900e-06	5,6431e-06
β y [mm], β z [mm]	0	0

Afbeelding



CS8		
Type	HEA400	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	1,5900e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,1006e-02	4,4726e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,9100e+00	1,9114e+00
cYUCS [mm], cZUCS [mm]	150	195
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	4,5100e-04	8,5600e-05
iy [mm], iz [mm]	168	73
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,3100e-03	5,7100e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,5625e-03	8,7083e-04
Mply+ [Nm], Mply- [Nm]	9,10e+05	9,10e+05
Mplz+ [Nm], Mplz- [Nm]	3,10e+05	3,10e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,8900e-06	2,9421e-06
β y [mm], β z [mm]	0	0

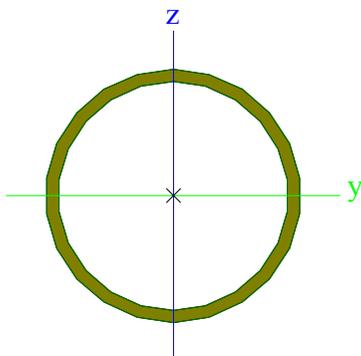
Afbeelding



CS9		
Type	ROR60.3/2.9	
Vormnorm	3 - Cirkelvormige holle doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	5,2300e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,3292e-04	3,3292e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,8900e-01	3,6064e-01
cYUCS [mm], cZUCS [mm]	30	30
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	2,1600e-07	2,1600e-07
iy [mm], iz [mm]	20	20

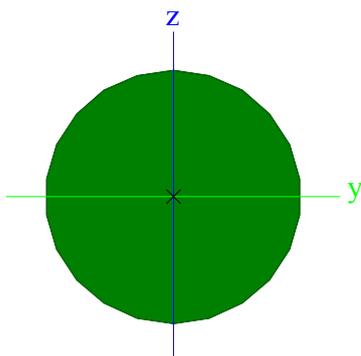
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	7,1600e-06	7,1600e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	9,5600e-06	9,5600e-06
Mply+ [Nm], Mply- [Nm]	2,25e+03	2,25e+03
Mplz+ [Nm], Mplz- [Nm]	2,25e+03	2,25e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,3075e-07	4,4917e-43
β y [mm], β z [mm]	0	0

Afbeelding



CS10		
Type	RD24	
Vormnorm	11 - Volledig cirkelvormige doorsnede	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	c	c
A [m <sup>2</sup> ]	4,5216e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	4,0694e-04	4,0694e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	7,5199e-02	7,5394e-02
cYUCS [mm], cZUCS [mm]	12	12
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,5945e-08	1,5945e-08
iy [mm], iz [mm]	6	6
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,3287e-06	1,3287e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,2677e-06	2,2677e-06
Mply+ [Nm], Mply- [Nm]	5,41e+02	5,41e+02
Mplz+ [Nm], Mplz- [Nm]	5,41e+02	5,41e+02
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	3,2629e-08	1,2452e-22
β y [mm], β z [mm]	0	0

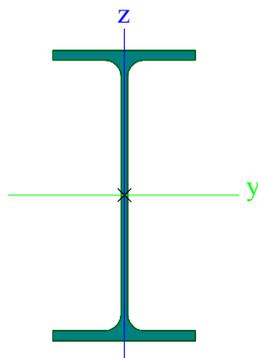
Afbeelding



CS11		
Type	IPE330	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	6,2600e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,7139e-03	2,5380e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,2540e+00	1,2540e+00
cYUCS [mm], cZUCS [mm]	80	165

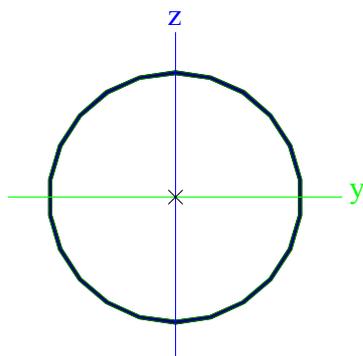
a [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,1770e-04	7,8800e-06
iy [mm], iz [mm]	137	35
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	7,1300e-04	9,8500e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	8,0400e-04	1,5400e-04
Mply+ [Nm], Mply- [Nm]	2,86e+05	2,86e+05
Mplz+ [Nm], Mplz- [Nm]	5,46e+04	5,46e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,8200e-07	1,9900e-07
β y [mm], β z [mm]	0	0

Afbeelding



CS12		
Type	ROR457/6.3	
Vormnorm	3 - Cirkelvormige holle doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	8,9200e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	5,6788e-03	5,6788e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,4400e+00	2,8317e+00
cYUCS [mm], cZUCS [mm]	229	229
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	2,2640e-04	2,2640e-04
iy [mm], iz [mm]	159	159
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	9,9100e-04	9,9100e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,2798e-03	1,2798e-03
Mply+ [Nm], Mply- [Nm]	3,01e+05	3,01e+05
Mplz+ [Nm], Mplz- [Nm]	3,01e+05	3,01e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,5299e-04	1,6635e-38
β y [mm], β z [mm]	0	0

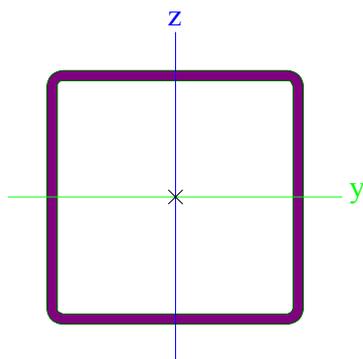
Afbeelding



CS13		
Type	MSH160x160x6.3	
Vormnorm	2 - Rechthoekige kokerdoorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	3,8300e-03	

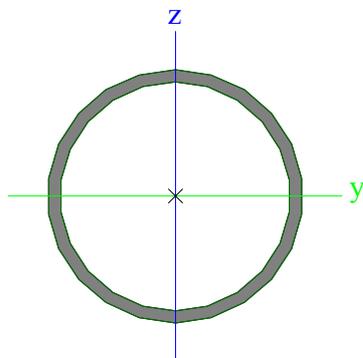
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,9019e-03	1,9019e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	6,2400e-01	1,2079e+00
cYUCS [mm], cZUCS [mm]	80	80
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,5000e-05	1,5000e-05
iy [mm], iz [mm]	63	63
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,8700e-04	1,8700e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,2000e-04	2,2000e-04
Mply+ [Nm], Mply- [Nm]	5,12e+04	5,12e+04
Mplz+ [Nm], Mplz- [Nm]	5,12e+04	5,12e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,3300e-05	5,5050e-08
β y [mm], β z [mm]	0	0

Afbeelding



CS14		
Type	ROR60.3/2.9	
Vormnorm	3 - Cirkelvormige holle doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	5,2300e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,3292e-04	3,3292e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,8900e-01	3,6064e-01
cYUCS [mm], cZUCS [mm]	30	30
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	2,1600e-07	2,1600e-07
iy [mm], iz [mm]	20	20
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	7,1600e-06	7,1600e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	9,5600e-06	9,5600e-06
Mply+ [Nm], Mply- [Nm]	2,25e+03	2,25e+03
Mplz+ [Nm], Mplz- [Nm]	2,25e+03	2,25e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,3075e-07	4,4917e-43
β y [mm], β z [mm]	0	0

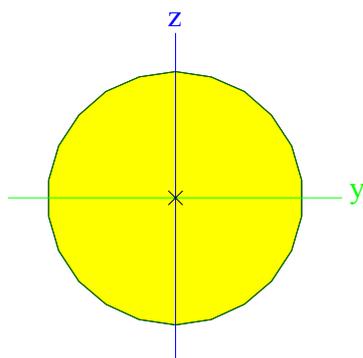
Afbeelding



CS15		
Type	RD16	
Vormnorm	11 - Volledig cirkelvormige doorsnede	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	

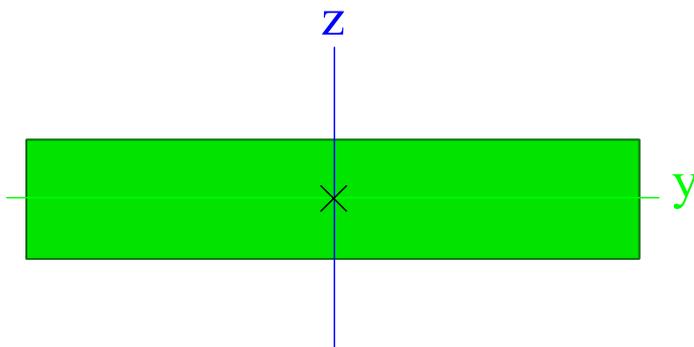
Bouwwijze	gewalst		
Knik y-y, Knik z-z	c		c
A [m <sup>2</sup> ]		2,0096e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]		1,8047e-04	1,8047e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]		5,0133e-02	5,0263e-02
cYUCS [mm], cZUCS [mm]		8	8
α [deg]		0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]		3,1496e-09	3,1496e-09
iy [mm], iz [mm]		4	4
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]		3,9370e-07	3,9370e-07
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]		6,7190e-07	6,7190e-07
Mply+ [Nm], Mply- [Nm]		1,60e+02	1,60e+02
Mplz+ [Nm], Mplz- [Nm]		1,60e+02	1,60e+02
dy [mm], dz [mm]		0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]		6,4452e-09	1,0235e-23
β y [mm], β z [mm]		0	0

Afbeelding



CS16			
Type	FL100X20		
Vormnorm	7 - Volledig rechthoekige doorsnede		
Vorm type	Dunwandig		
Onderdeelmateriaal	S 235		
Bouwwijze	gewalst		
Knik y-y, Knik z-z			c
A [m <sup>2</sup> ]		2,0000e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]		1,6667e-03	1,6667e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]		2,4000e-01	2,4000e-01
cYUCS [mm], cZUCS [mm]		50	10
α [deg]		0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]		6,6667e-08	1,6667e-06
iy [mm], iz [mm]		6	29
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]		6,6667e-06	3,3333e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]		1,0000e-05	5,0000e-05
Mply+ [Nm], Mply- [Nm]		2,35e+03	2,35e+03
Mplz+ [Nm], Mplz- [Nm]		1,18e+04	1,18e+04
dy [mm], dz [mm]		0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]		2,6667e-07	0,0000e+00
β y [mm], β z [mm]		0	0

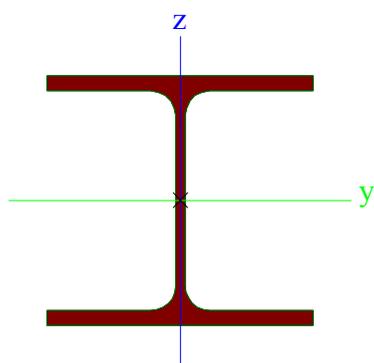
Afbeelding



CS17		
Type	HEA160	

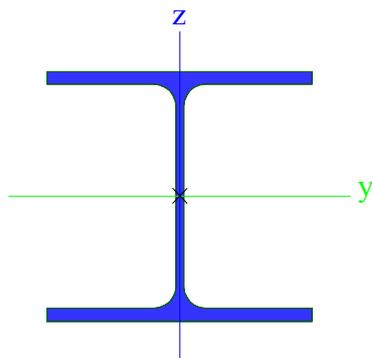
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	3,8800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,8071e-03	9,8390e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	9,0600e-01	9,0613e-01
cYUCS [mm], cZUCS [mm]	80	76
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,6700e-05	6,1600e-06
iy [mm], iz [mm]	66	40
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,2000e-04	7,7000e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,4500e-04	1,1750e-04
Mply+ [Nm], Mply- [Nm]	5,77e+04	5,77e+04
Mplz+ [Nm], Mplz- [Nm]	2,77e+04	2,77e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2200e-07	3,1410e-08
β y [mm], β z [mm]	0	0

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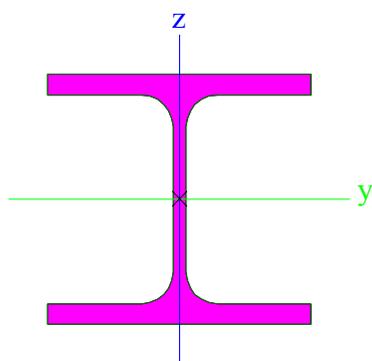
CS18		
Type	HEA220	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	6,4300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	4,6326e-03	1,5689e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,2600e+00	1,2550e+00
cYUCS [mm], cZUCS [mm]	110	105
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	5,4100e-05	1,9600e-05
iy [mm], iz [mm]	92	55
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,1500e-04	1,7800e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	5,6667e-04	2,7042e-04
Mply+ [Nm], Mply- [Nm]	1,34e+05	1,34e+05
Mplz+ [Nm], Mplz- [Nm]	6,36e+04	6,36e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,8500e-07	1,9327e-07
β y [mm], β z [mm]	0	0

Afbeelding



CS19		
Type	HEA100	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	2,1200e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,6076e-03	5,3156e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	5,6100e-01	5,6130e-01
cYUCS [mm], cZUCS [mm]	50	48
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,4900e-06	1,3400e-06
iy [mm], iz [mm]	41	25
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	7,2800e-05	2,6800e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	8,2917e-05	4,1125e-05
Mply+ [Nm], Mply- [Nm]	1,95e+04	1,95e+04
Mplz+ [Nm], Mplz- [Nm]	9,67e+03	9,67e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	5,2400e-08	2,5813e-09
β y [mm], β z [mm]	0	0

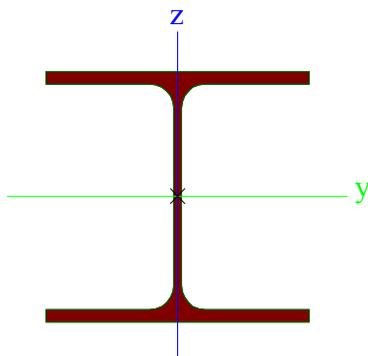
Afbeelding



CS20		
Type	HEA260	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	8,6800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	6,3059e-03	2,0196e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,4800e+00	1,4836e+00
cYUCS [mm], cZUCS [mm]	130	125
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0500e-04	3,6700e-05
iy [mm], iz [mm]	110	65
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	8,3600e-04	2,8200e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	9,2083e-04	4,2917e-04
Mply+ [Nm], Mply- [Nm]	2,16e+05	2,16e+05
Mplz+ [Nm], Mplz- [Nm]	1,01e+05	1,01e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	5,2400e-07	5,1635e-07

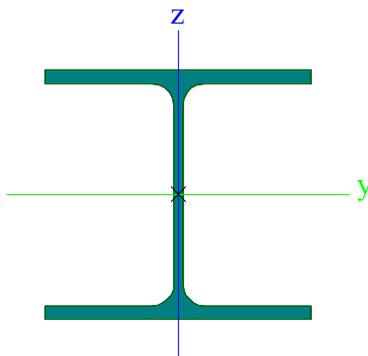
$\beta_y$ [mm], $\beta_z$ [mm]	0	0
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Afbeelding



CS21		
Type	HEA180	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	4,5300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,2772e-03	1,0992e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,0200e+00	1,0241e+00
cYUCS [mm], cZUCS [mm]	90	86
$\alpha$ [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	2,5100e-05	9,2500e-06
iy [mm], iz [mm]	74	45
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,9400e-04	1,0300e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	3,2500e-04	1,5667e-04
Mply+ [Nm], Mply- [Nm]	7,64e+04	7,64e+04
Mplz+ [Nm], Mplz- [Nm]	3,68e+04	3,68e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,4800e-07	6,0211e-08
$\beta_y$ [mm], $\beta_z$ [mm]	0	0

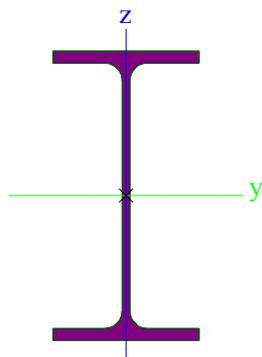
Afbeelding



CS22		
Type	IPE240	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	3,9100e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,4315e-03	1,5295e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	9,2173e-01	9,2173e-01
cYUCS [mm], cZUCS [mm]	60	120
$\alpha$ [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,8920e-05	2,8400e-06
iy [mm], iz [mm]	100	27
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	3,2400e-04	4,7300e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	3,6700e-04	7,3900e-05
Mply+ [Nm], Mply- [Nm]	8,62e+04	8,62e+04

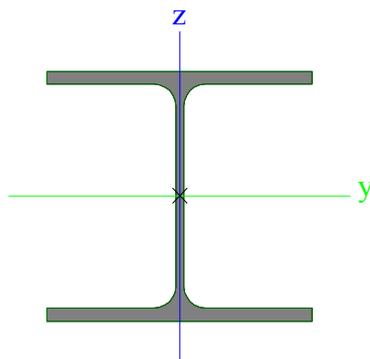
Mplz+ [Nm], Mplz- [Nm]	1,74e+04	1,74e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2900e-07	3,7400e-08
β y [mm], β z [mm]	0	0

Afbeelding



CS23		
Type	HEA220	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	6,4300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	4,6326e-03	1,5689e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,2600e+00	1,2550e+00
cYUCS [mm], cZUCS [mm]	110	105
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	5,4100e-05	1,9600e-05
iy [mm], iz [mm]	92	55
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,1500e-04	1,7800e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	5,6667e-04	2,7042e-04
Mply+ [Nm], Mply- [Nm]	1,34e+05	1,34e+05
Mplz+ [Nm], Mplz- [Nm]	6,36e+04	6,36e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,8500e-07	1,9327e-07
β y [mm], β z [mm]	0	0

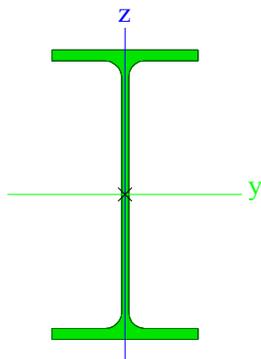
Afbeelding



CS24		
Type	IPE270	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	4,5900e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,7706e-03	1,8266e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,0409e+00	1,0409e+00
cYUCS [mm], cZUCS [mm]	68	135
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	5,7900e-05	4,2000e-06
iy [mm], iz [mm]	112	30

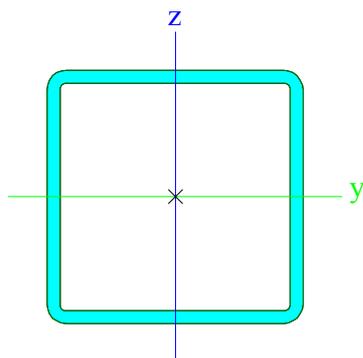
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	4,2900e-04	6,2200e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	4,8400e-04	9,7000e-05
Mply+ [Nm], Mply- [Nm]	1,14e+05	1,14e+05
Mplz+ [Nm], Mplz- [Nm]	2,28e+04	2,28e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,5900e-07	7,0600e-08
β y [mm], β z [mm]	0	0

Afbeelding



CS25		
Type	MSH100x100x5.0	
Vormnorm	2 - Rechthoekige kokerdoorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	1,8700e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	9,2814e-04	9,2814e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	3,8700e-01	7,4275e-01
cYUCS [mm], cZUCS [mm]	50	50
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	2,7900e-06	2,7900e-06
iy [mm], iz [mm]	39	39
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,5900e-05	5,5900e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	6,6400e-05	6,6400e-05
Mply+ [Nm], Mply- [Nm]	1,54e+04	1,54e+04
Mplz+ [Nm], Mplz- [Nm]	1,54e+04	1,54e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,3900e-06	4,1667e-09
β y [mm], β z [mm]	0	0

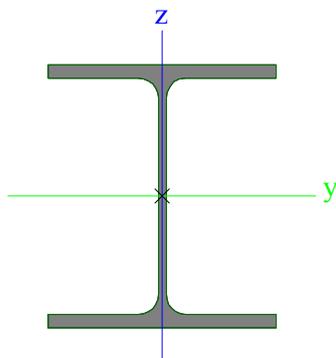
Afbeelding



CS26		
Type	HEA360	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	1,4300e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,0125e-02	3,6844e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,8300e+00	1,8334e+00
cYUCS [mm], cZUCS [mm]	150	175

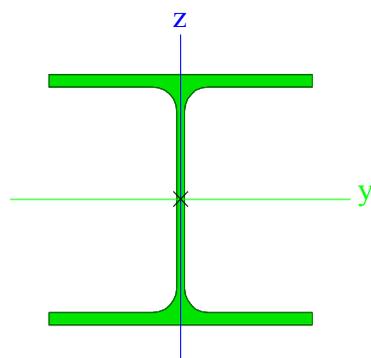
a [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,3100e-04	7,8900e-05
iy [mm], iz [mm]	152	74
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,8900e-03	5,2600e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,0875e-03	8,0417e-04
Mply+ [Nm], Mply- [Nm]	7,42e+05	7,42e+05
Mplz+ [Nm], Mplz- [Nm]	2,85e+05	2,85e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,4900e-06	2,1766e-06
β y [mm], β z [mm]	0	0

Afbeelding



CS27		
Type	HEA260	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	8,6800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	6,3059e-03	2,0196e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,4800e+00	1,4836e+00
cYUCS [mm], cZUCS [mm]	130	125
a [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0500e-04	3,6700e-05
iy [mm], iz [mm]	110	65
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	8,3600e-04	2,8200e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	9,2083e-04	4,2917e-04
Mply+ [Nm], Mply- [Nm]	3,27e+05	3,27e+05
Mplz+ [Nm], Mplz- [Nm]	1,53e+05	1,53e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	5,2400e-07	5,1635e-07
β y [mm], β z [mm]	0	0

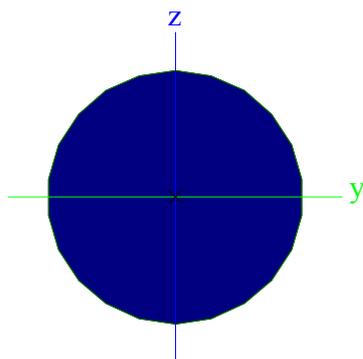
Afbeelding



CS30		
Type	RD30	
Vormnorm	11 - Volledig cirkelvormige doorsnede	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	c	c
A [m <sup>2</sup> ]		7,0650e-04

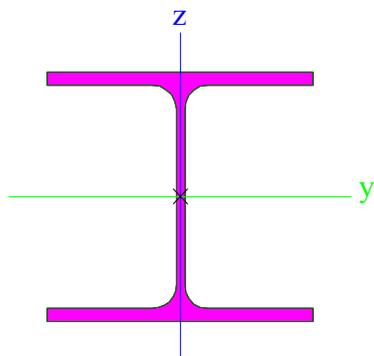
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	6,3659e-04	6,3659e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	9,3999e-02	9,4243e-02
cYUCS [mm], cZUCS [mm]	15	15
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,8928e-08	3,8928e-08
iy [mm], iz [mm]	7	7
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,5952e-06	2,5952e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	4,4290e-06	4,4290e-06
Mply+ [Nm], Mply- [Nm]	1,60e+03	1,60e+03
Mplz+ [Nm], Mplz- [Nm]	1,60e+03	1,60e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	7,9722e-08	1,1259e-32
β y [mm], β z [mm]	0	0

Afbeelding



CS31		
Type	HEA200	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	5,3800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,8781e-03	1,3287e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,1400e+00	1,1360e+00
cYUCS [mm], cZUCS [mm]	100	95
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,6900e-05	1,3400e-05
iy [mm], iz [mm]	83	50
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	3,8900e-04	1,3400e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	4,2917e-04	2,0375e-04
Mply+ [Nm], Mply- [Nm]	1,01e+05	1,01e+05
Mplz+ [Nm], Mplz- [Nm]	4,79e+04	4,79e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,1000e-07	1,0800e-07
β y [mm], β z [mm]	0	0

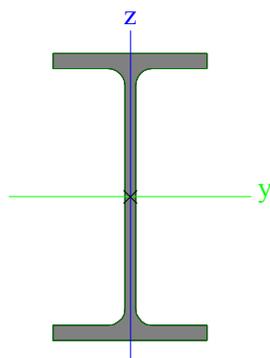
Afbeelding



CS32		
Type	IPE120	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	

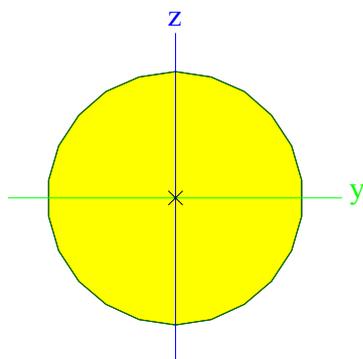
Bouwwijze	gewalst	
	a	b
Knik y-y, Knik z-z		
A [m <sup>2</sup> ]	1,3200e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	8,4381e-04	5,3657e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	4,7513e-01	4,7513e-01
cYUCS [mm], cZUCS [mm]	32	60
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,1800e-06	2,7700e-07
iy [mm], iz [mm]	49	14
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,3000e-05	8,6500e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	6,0700e-05	1,3600e-05
Mply+ [Nm], Mply- [Nm]	1,43e+04	1,43e+04
Mplz+ [Nm], Mplz- [Nm]	3,19e+03	3,19e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,7400e-08	8,9000e-10
β y [mm], β z [mm]	0	0

Afbeelding



CS33		
Type	RD12	
Vormnorm	11 - Volledig cirkelvormige doorsnede	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z		c
A [m <sup>2</sup> ]	1,1304e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,0163e-04	1,0163e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	3,7600e-02	3,7697e-02
cYUCS [mm], cZUCS [mm]	6	6
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	9,9655e-10	9,9655e-10
iy [mm], iz [mm]	3	3
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,6609e-07	1,6609e-07
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,8346e-07	2,8346e-07
Mply+ [Nm], Mply- [Nm]	6,77e+01	6,77e+01
Mplz+ [Nm], Mplz- [Nm]	6,77e+01	6,77e+01
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,0400e-09	1,5306e-24
β y [mm], β z [mm]	0	0

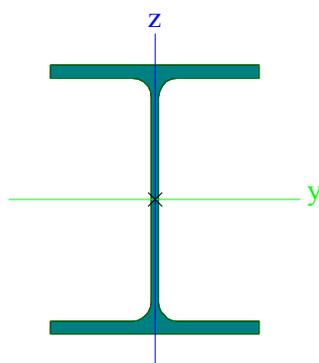
Afbeelding



CS34		
Type	HEA400	

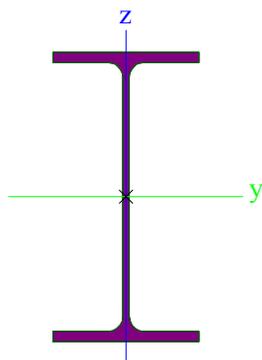
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	1,5900e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,1006e-02	4,4726e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,9100e+00	1,9114e+00
cYUCS [mm], cZUCS [mm]	150	195
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	4,5100e-04	8,5600e-05
iy [mm], iz [mm]	168	73
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,3100e-03	5,7100e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,5625e-03	8,7083e-04
Mply+ [Nm], Mply- [Nm]	9,10e+05	9,10e+05
Mplz+ [Nm], Mplz- [Nm]	3,10e+05	3,10e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,8900e-06	2,9421e-06
β y [mm], β z [mm]	0	0

Afbeelding



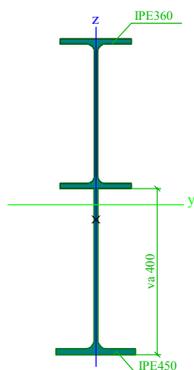
<b>CS35</b>		
Type	IPE300	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	5,3800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,1835e-03	2,1775e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,1599e+00	1,1599e+00
cYUCS [mm], cZUCS [mm]	75	150
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	8,3560e-05	6,0400e-06
iy [mm], iz [mm]	125	34
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,5700e-04	8,0500e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	6,2800e-04	1,2500e-04
Mply+ [Nm], Mply- [Nm]	1,48e+05	1,48e+05
Mplz+ [Nm], Mplz- [Nm]	2,94e+04	2,94e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,0100e-07	1,2600e-07
β y [mm], β z [mm]	0	0

Afbeelding



CS36		
Type	I + I,var	
Uitgebreid	IPE360, IPE450; 400	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gelast	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	1,3868e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	7,2039e-03	6,9022e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	2,4960e+00	2,4960e+00
cYUCS [mm], cZUCS [mm]	95	360
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0119e-03	1,8827e-05
iy [mm], iz [mm]	270	37
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,5315e-03	1,9818e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	3,1702e-03	3,3325e-04
Mply+ [Nm], Mply- [Nm]	1,13e+06	1,13e+06
Mplz+ [Nm], Mplz- [Nm]	1,18e+05	1,18e+05
dy [mm], dz [mm]	0	-36
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	5,9901e-07	1,8321e-06
β y [mm], β z [mm]	92	0

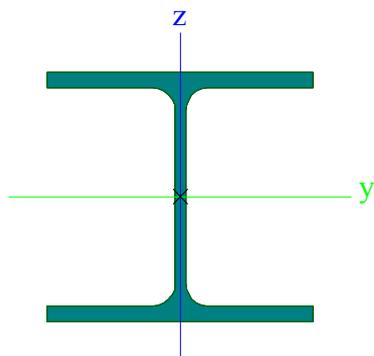
Afbeelding



CS39		
Type	HEA140	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	3,1400e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,2882e-03	7,8192e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	7,9400e-01	7,9430e-01
cYUCS [mm], cZUCS [mm]	70	66
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,0300e-05	3,8900e-06
iy [mm], iz [mm]	57	35
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,5500e-04	5,5600e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,7333e-04	8,5000e-05
Mply+ [Nm], Mply- [Nm]	6,16e+04	6,16e+04
Mplz+ [Nm], Mplz- [Nm]	3,01e+04	3,01e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	8,1300e-08	1,5064e-08

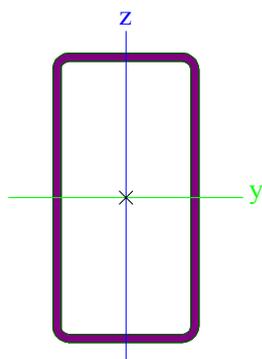
$\beta_y$ [mm], $\beta_z$ [mm]	0	0
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Afbeelding



CS40		
Type	RRO160X80X4.5	
Vormnorm	2 - Rechthoekige kokerdoorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	2,0300e-03	
A <sub>y</sub> [m <sup>2</sup> ], A <sub>z</sub> [m <sup>2</sup> ]	6,7529e-04	1,3506e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	4,6500e-01	9,0072e-01
cYUCS [mm], cZUCS [mm]	40	80
$\alpha$ [deg]	0,00	
I <sub>y</sub> [m <sup>4</sup> ], I <sub>z</sub> [m <sup>4</sup> ]	6,6100e-06	2,2400e-06
i <sub>y</sub> [mm], i <sub>z</sub> [mm]	57	33
W <sub>ely</sub> [m <sup>3</sup> ], W <sub>elz</sub> [m <sup>3</sup> ]	8,2600e-05	5,6100e-05
W <sub>ply</sub> [m <sup>3</sup> ], W <sub>plz</sub> [m <sup>3</sup> ]	1,0300e-04	6,3700e-05
M <sub>ply+</sub> [Nm], M <sub>ply-</sub> [Nm]	2,42e+04	2,42e+04
M <sub>plz+</sub> [Nm], M <sub>plz-</sub> [Nm]	1,50e+04	1,50e+04
dy [mm], dz [mm]	0	0
I <sub>t</sub> [m <sup>4</sup> ], I <sub>w</sub> [m <sup>6</sup> ]	5,4700e-06	7,3728e-09
$\beta_y$ [mm], $\beta_z$ [mm]	0	0

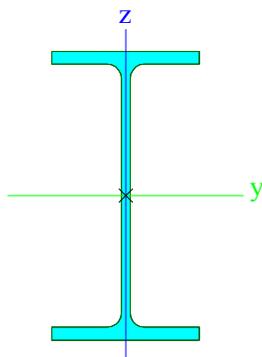
Afbeelding



CS44		
Type	IPE180	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	2,3900e-03	
A <sub>y</sub> [m <sup>2</sup> ], A <sub>z</sub> [m <sup>2</sup> ]	1,4865e-03	9,6640e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	6,9788e-01	6,9788e-01
cYUCS [mm], cZUCS [mm]	46	90
$\alpha$ [deg]	0,00	
I <sub>y</sub> [m <sup>4</sup> ], I <sub>z</sub> [m <sup>4</sup> ]	1,3170e-05	1,0100e-06
i <sub>y</sub> [mm], i <sub>z</sub> [mm]	74	21
W <sub>ely</sub> [m <sup>3</sup> ], W <sub>elz</sub> [m <sup>3</sup> ]	1,4600e-04	2,2200e-05
W <sub>ply</sub> [m <sup>3</sup> ], W <sub>plz</sub> [m <sup>3</sup> ]	1,6600e-04	3,4600e-05
M <sub>ply+</sub> [Nm], M <sub>ply-</sub> [Nm]	3,91e+04	3,91e+04

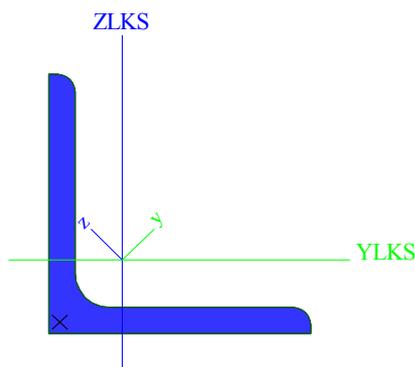
Mplz+ [Nm], Mplz- [Nm]	8,13e+03	8,13e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,7900e-08	7,4300e-09
β y [mm], β z [mm]	0	0

Afbeelding



CS45		
Type	L60X6	
Vormnorm	4 - L-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	b
A [m <sup>2</sup> ]	6,9100e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	5,7999e-04	5,8516e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	2,3300e-01	2,3310e-01
cYUCS [mm], cZUCS [mm]	17	17
IYLCS [m <sup>4</sup> ], IZLCS [m <sup>4</sup> ]	2,2800e-07	2,2800e-07
IYZLCS [m <sup>4</sup> ]	-1,3344e-07	
α [deg]	45,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	3,6100e-07	9,4300e-08
iy [mm], iz [mm]	23	12
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	8,5150e-06	3,9562e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,3551e-05	6,9893e-06
Mply+ [Nm], Mply- [Nm]	3,18e+03	3,18e+03
Mplz+ [Nm], Mplz- [Nm]	1,64e+03	1,64e+03
dy [mm], dz [mm]	-20	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	8,6400e-09	1,0721e-41
β y [mm], β z [mm]	0	79

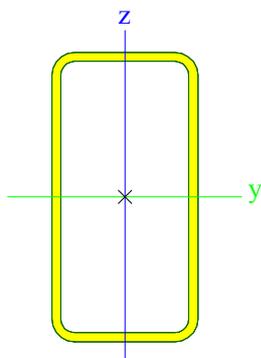
Afbeelding



CS46		
Type	RRO160X80X5K	
Vormnorm	2 - Rechthoekige kokerdoorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	a
A [m <sup>2</sup> ]	2,2142e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	7,3752e-04	1,4750e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	4,5800e-01	8,8550e-01
cYUCS [mm], cZUCS [mm]	40	80
α [deg]	0,00	

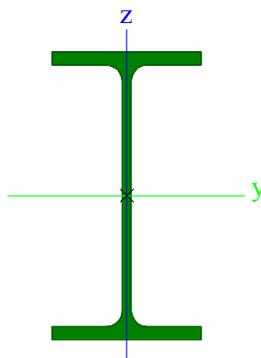
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	7,0786e-06	2,4065e-06
iy [mm], iz [mm]	57	33
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	8,8483e-05	6,0162e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,1143e-04	6,8870e-05
Mply+ [Nm], Mply- [Nm]	3,95e+04	3,95e+04
Mplz+ [Nm], Mplz- [Nm]	2,44e+04	2,44e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	6,0100e-06	8,1920e-09
β y [mm], β z [mm]	0	0

Afbeelding



CS47		
Type	IPE160	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	2,0100e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,2605e-03	8,1173e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	6,2248e-01	6,2248e-01
cYUCS [mm], cZUCS [mm]	41	80
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	8,6900e-06	6,8300e-07
iy [mm], iz [mm]	66	18
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,0900e-04	1,6700e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,2400e-04	2,6100e-05
Mply+ [Nm], Mply- [Nm]	4,40e+04	4,40e+04
Mplz+ [Nm], Mplz- [Nm]	9,27e+03	9,27e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	3,6000e-08	3,9600e-09
β y [mm], β z [mm]	0	0

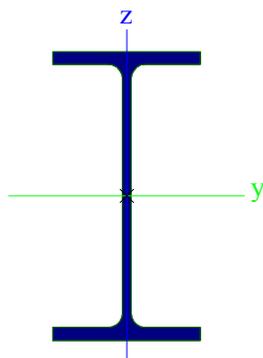
Afbeelding



CS48		
Type	IPE180	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	2,3900e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	1,4865e-03	9,6640e-04

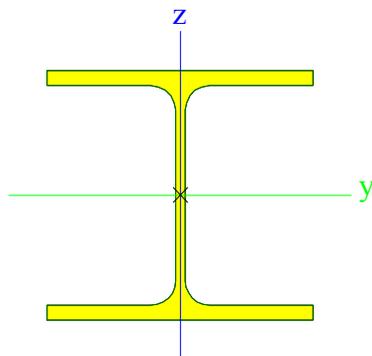
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	6,9788e-01	6,9788e-01
cYUCS [mm], cZUCS [mm]	46	90
a [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,3170e-05	1,0100e-06
iy [mm], iz [mm]	74	21
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,4600e-04	2,2200e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,6600e-04	3,4600e-05
Mply+ [Nm], Mply- [Nm]	5,91e+04	5,91e+04
Mplz+ [Nm], Mplz- [Nm]	1,23e+04	1,23e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	4,7900e-08	7,4300e-09
β y [mm], β z [mm]	0	0

Afbeelding



CS49		
Type	HEA160	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	3,8800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,8071e-03	9,8390e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	9,0600e-01	9,0613e-01
cYUCS [mm], cZUCS [mm]	80	76
a [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,6700e-05	6,1600e-06
iy [mm], iz [mm]	66	40
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,2000e-04	7,7000e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,4500e-04	1,1750e-04
Mply+ [Nm], Mply- [Nm]	8,71e+04	8,71e+04
Mplz+ [Nm], Mplz- [Nm]	4,18e+04	4,18e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2200e-07	3,1410e-08
β y [mm], β z [mm]	0	0

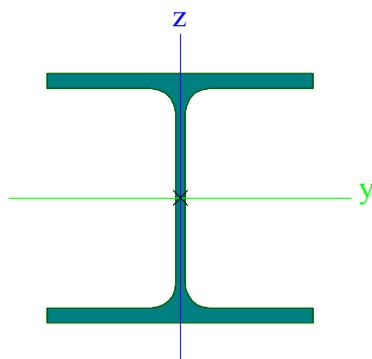
Afbeelding



CS50		
Type	HEA160	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	

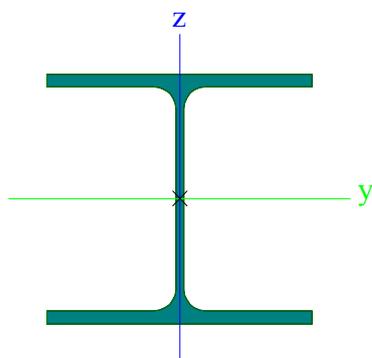
	b	c
Knik y-y, Knik z-z		
A [m <sup>2</sup> ]	3,8800e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	2,8071e-03	9,8390e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	9,0600e-01	9,0613e-01
cYUCS [mm], cZUCS [mm]	80	76
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,6700e-05	6,1600e-06
iy [mm], iz [mm]	66	40
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	2,2000e-04	7,7000e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,4500e-04	1,1750e-04
Mply+ [Nm], Mply- [Nm]	5,77e+04	5,77e+04
Mplz+ [Nm], Mplz- [Nm]	2,77e+04	2,77e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2200e-07	3,1410e-08
β y [mm], β z [mm]	0	0

Afbeelding



CS51		
Type	HEA220	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z		
A [m <sup>2</sup> ]	6,4300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	4,6326e-03	1,5689e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,2600e+00	1,2550e+00
cYUCS [mm], cZUCS [mm]	110	105
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	5,4100e-05	1,9600e-05
iy [mm], iz [mm]	92	55
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	5,1500e-04	1,7800e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	5,6667e-04	2,7042e-04
Mply+ [Nm], Mply- [Nm]	2,02e+05	2,02e+05
Mplz+ [Nm], Mplz- [Nm]	9,61e+04	9,61e+04
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,8500e-07	1,9327e-07
β y [mm], β z [mm]	0	0

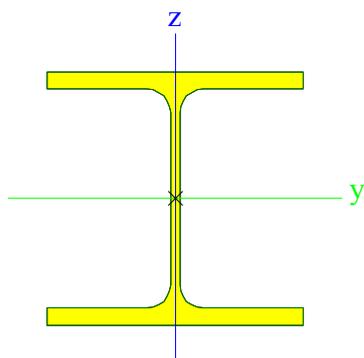
Afbeelding



CS52		
Type	HEB260	
Vormnorm	1 - I-doorsnede	

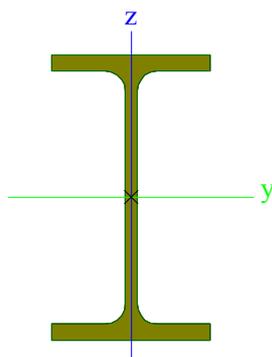
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	b	c
A [m <sup>2</sup> ]	1,1840e-02	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	8,7661e-03	2,7927e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,5000e+00	1,4986e+00
cYUCS [mm], cZUCS [mm]	130	130
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,4920e-04	5,1350e-05
iy [mm], iz [mm]	112	66
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,1480e-03	3,9500e-04
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	1,2830e-03	6,0220e-04
Mply+ [Nm], Mply- [Nm]	3,02e+05	3,02e+05
Mplz+ [Nm], Mplz- [Nm]	1,42e+05	1,42e+05
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2380e-06	7,5365e-07
β y [mm], β z [mm]	0	0

Afbeelding



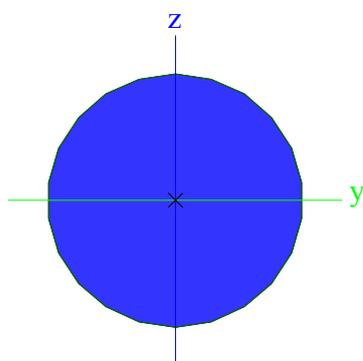
<b>CS53</b>		
Type	YPE100	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 235	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	1,0300e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	6,7354e-04	4,1977e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	3,9973e-01	3,9973e-01
cYUCS [mm], cZUCS [mm]	27	50
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,7100e-06	1,5900e-07
iy [mm], iz [mm]	41	12
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	3,4200e-05	5,7900e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	3,9400e-05	9,2000e-06
Mply+ [Nm], Mply- [Nm]	9,27e+03	9,27e+03
Mplz+ [Nm], Mplz- [Nm]	2,15e+03	2,15e+03
dy [mm], dz [mm]	0	0
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	1,2000e-08	3,5000e-10
β y [mm], β z [mm]	0	0

Afbeelding



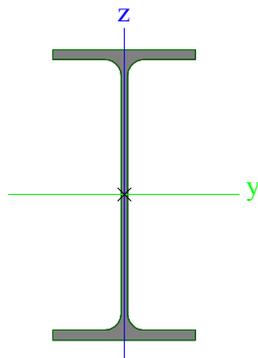
CS54		
Type	RD24	
Vormnorm	11 - Volledig cirkelvormige doorsnede	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	c	
A [m <sup>2</sup> ]	4,5216e-04	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	4,0722e-04	4,0722e-04
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	7,5199e-02	7,5394e-02
cYUCS [mm], cZUCS [mm]	12	12
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,5945e-08	1,5945e-08
iy [mm], iz [mm]	6	6
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	1,3287e-06	1,3287e-06
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	2,2677e-06	2,2677e-06
Mply+ [Nm], Mply- [Nm]	8,18e+02	8,18e+02
Mplz+ [Nm], Mplz- [Nm]	8,18e+02	8,18e+02
dy [mm], dz [mm]	0	
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	3,2629e-08	1,2452e-22
β y [mm], β z [mm]	0	

Afbeelding



CS55		
Type	IPE330	
Vormnorm	1 - I-doorsnede	
Vorm type	Dunwandig	
Onderdeelmateriaal	S 355	
Bouwwijze	gewalst	
Knik y-y, Knik z-z	a	b
A [m <sup>2</sup> ]	6,2600e-03	
Ay [m <sup>2</sup> ], Az [m <sup>2</sup> ]	3,7139e-03	2,5380e-03
AL [m <sup>2</sup> /m], AD [m <sup>2</sup> /m]	1,2540e+00	1,2540e+00
cYUCS [mm], cZUCS [mm]	80	165
α [deg]	0,00	
Iy [m <sup>4</sup> ], Iz [m <sup>4</sup> ]	1,1770e-04	7,8800e-06
iy [mm], iz [mm]	137	35
Wely [m <sup>3</sup> ], Welz [m <sup>3</sup> ]	7,1300e-04	9,8500e-05
Wply [m <sup>3</sup> ], Wplz [m <sup>3</sup> ]	8,0400e-04	1,5400e-04
Mply+ [Nm], Mply- [Nm]	2,86e+05	2,86e+05
Mplz+ [Nm], Mplz- [Nm]	5,46e+04	5,46e+04
dy [mm], dz [mm]	0	
It [m <sup>4</sup> ], Iw [m <sup>6</sup> ]	2,8200e-07	1,9900e-07
β y [mm], β z [mm]	0	

Afbeelding



Verklaring van symbolen	
Vormnorm	h - Hoogte b - Flensbreedte t - Flensdikte s - Lijfdikte r - Straal bij flensbasis r1 - Straal bij flensvoet a - Flenshelling W - Interne boutafstand wm - Welving van eenheid bij flensvoet
A	Gebied
A <sub>y</sub>	Afschuifoppervlak in hoofd y-richting
A <sub>z</sub>	Afschuifoppervlak in hoofd z-richting
AL	Omtrek per eenheidslengte
AD	Uithardingsoppervlakte per eenheidslengte
cYUCS	Zwaartepunt coördinaten in Y-richting van het invoer assen systeem
cZUCS	Zwaartepunt coördinaten in Z-richting van het invoer assen systeem
IYLCs	Tweede moment van het gebied rond de YLCS as
IZLCS	Tweede moment van het gebied rond de ZLCS as
IYZLCS	Product moment van het gebied in het LCS systeem
α	Rotatiehoek van het hoofd assen systeem
I <sub>y</sub>	Tweede moment van het gebied rond de hoofd y-as
I <sub>z</sub>	Tweede moment van het gebied rond de hoofd z-as
i <sub>y</sub>	Traagheidsstraal rond de hoofd y-as

Verklaring van symbolen	
i <sub>z</sub>	Traagheidsstraal rond de hoofd z-as
W <sub>ely</sub>	Elastische doorsnede modulus rond de hoofd y-as
W <sub>elz</sub>	Elastische doorsnede modulus rond de hoofd z-as
W <sub>ply</sub>	Plastische doorsnede modulus rond de hoofd y-as
W <sub>plz</sub>	Plastische doorsnede modulus rond de hoofd z-as
M <sub>ply+</sub>	Plastisch moment rond de hoofd y-as voor een positief M <sub>y</sub> moment
M <sub>ply-</sub>	Plastisch moment rond de hoofd y-as voor een negatief M <sub>y</sub> moment
M <sub>plz+</sub>	Plastisch moment rond de hoofd z-as voor een positief M <sub>z</sub> moment
M <sub>plz-</sub>	Plastisch moment rond de hoofd z-as voor een negatief M <sub>z</sub> moment
d <sub>y</sub>	Afschuif middencoördinaat in hoofd y-richting gemeten vanaf het zwaartepunt
d <sub>z</sub>	Afschuif middencoördinaat in hoofd z-richting gemeten vanaf het zwaartepunt
I <sub>t</sub>	Torsie constante
I <sub>w</sub>	Welvings constante
β <sub>y</sub>	Mono-symmetrische constante rond de hoofd y-as
β <sub>z</sub>	Mono-symmetrische constante rond de hoofd z-as

## 1.2. Materials

Staal EC3

Naam	Massa eenheid [kg/m <sup>3</sup> ]	E-Mod [MPa] G-mod [MPa]	Poisson - nu Thermisch uitz. [m/mK]	Onderlimiet [mm]	Bovenlimiet [mm]	Fy (bereik) [MPa]	Fu (bereik) [MPa]
S 235	7850,0	2,1000e+05 8,0769e+04	0.3 0,00	0 40	40 80	235,0 215,0	360,0 360,0
S 355	7850,0	2,1000e+05 8,0769e+04	0.3 0,00	0 40	40 80	355,0 335,0	490,0 470,0

## 1.3. Load cases

Naam	Omschrijving	Actie type	Lastgroep	Richting	Duur	'Master' belastingsgeval
	Spec	Belastingtype				
G1	eigen gewicht	Permanent Eigen gewicht	G	-Z		
G2	permanente belasting	Permanent Standaard	G			
Q	technik belasting Standaard	Variabel Statisch	Q		Kort	Geen
S	sneeuw Standaard	Variabel Statisch	S		Kort	Geen
W1	Wind X+ druk Standaard	Variabel Statisch	W		Kort	Geen
W2	Wind X+ zuiging Standaard	Variabel Statisch	W		Kort	Geen
W3	Wind X- druk Standaard	Variabel Statisch	W		Kort	Geen
W4	Wind X- zuiging Standaard	Variabel Statisch	W		Kort	Geen
W5	Wind Y+ druk Standaard	Variabel Statisch	W		Kort	Geen
W6	Wind Y+ zuiging Standaard	Variabel Statisch	W		Kort	Geen
W7	Wind Y- druk Standaard	Variabel Statisch	W		Kort	Geen
W8	Wind Y- zuiging Standaard	Variabel Statisch	W		Kort	Geen

## 1.4. Load groups

Naam	Last	Relatie	Type
G	Permanent		
Q	Variabel	Standaard	Cat E: Opslagruimte
S	Variabel	Standaard	Sneeuw
W	Variabel	Exclusief	Wind

## 1.5. Nonlinear combinations

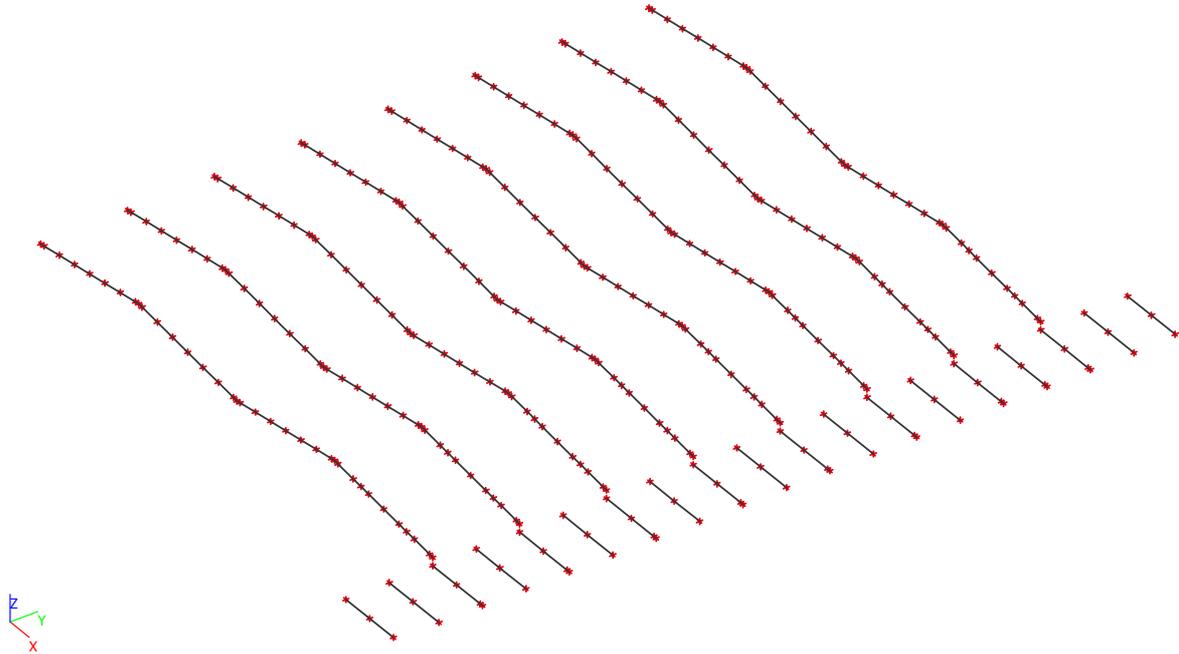
Naam	Type	Belastingsgevallen	Coëff. [-]
NC1	Uiterste Grenstoestand	G1 - eigen gewicht	1,35
		G2 - permanente belasting	1,35
		Q - techniek belasting	1,50
NC2	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		S - sneeuw	1,50
NC3	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W1 - Wind X+ druk	1,50
NC4	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W2 - Wind X+ zuiging	1,50
NC5	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W3 - Wind X- druk	1,50
NC6	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W4 - Wind X- zuiging	1,50
NC7	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20



Naam	Type	Belastingsgevallen	Coëff. [-]
		Q - techniek belasting	1,50
		W5 - Wind Y+ druk	1,50
NC8	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W6 - Wind Y+ zuiging	1,50
NC9	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W7 - Wind Y- druk	1,50
NC10	Uiterste Grenstoestand	G1 - eigen gewicht	1,20
		G2 - permanente belasting	1,20
		Q - techniek belasting	1,50
		W8 - Wind Y- zuiging	1,50
NC11	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W1 - Wind X+ druk	1,50
NC12	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W2 - Wind X+ zuiging	1,50
NC13	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W3 - Wind X- druk	1,50
NC14	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W4 - Wind X- zuiging	1,50
NC15	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W5 - Wind Y+ druk	1,50
NC16	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W6 - Wind Y+ zuiging	1,50
NC17	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W7 - Wind Y- druk	1,50
NC18	Uiterste Grenstoestand	G1 - eigen gewicht	0,90
		G2 - permanente belasting	0,90
		W8 - Wind Y- zuiging	1,50
NC19	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		S - sneeuw	1,00
NC20	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W1 - Wind X+ druk	1,00
NC21	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W2 - Wind X+ zuiging	1,00
NC22	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W3 - Wind X- druk	1,00
NC23	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W4 - Wind X- zuiging	1,00
NC24	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W5 - Wind Y+ druk	1,00
NC25	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W6 - Wind Y+ zuiging	1,00
NC26	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W7 - Wind Y- druk	1,00
NC27	Bruikbaarheidsgrenstoestand	G1 - eigen gewicht	1,00
		G2 - permanente belasting	1,00
		Q - techniek belasting	1,00
		W8 - Wind Y- zuiging	1,00

## 2.) Dwarsliggers

### 2.1. Analysemodel



### 2.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N12	13,500	31,799	8,820
N14	0,000	31,799	7,040
N16	27,000	31,799	7,040
N18	40,500	31,799	8,820
N20	54,000	31,799	7,040
N43	0,000	23,466	7,040
N46	54,000	23,466	7,040
N48	13,500	23,466	8,820
N49	27,000	23,466	7,040
N50	40,500	23,466	8,820
N51	0,000	15,133	7,040
N54	54,000	15,133	7,040
N56	13,500	15,133	8,820
N57	27,000	15,133	7,040
N58	40,500	15,133	8,820
N62	6,750	15,133	7,930
N63	6,750	23,466	7,930
N64	10,947	15,133	8,483
N65	10,947	23,466	8,483
N66	13,046	15,133	8,760
N67	13,046	23,466	8,760
N70	2,553	15,133	7,377
N71	2,553	23,466	7,377
N72	0,454	15,133	7,100
N73	0,454	23,466	7,100
N79	13,046	31,799	8,760
N80	10,947	31,799	8,483
N81	6,750	31,799	7,930
N82	2,553	31,799	7,377
N83	0,454	31,799	7,100
N84	20,250	15,133	7,930
N85	20,250	23,466	7,930
N86	16,053	15,133	8,483
N87	16,053	23,466	8,483
N88	13,954	15,133	8,760
N89	13,954	23,466	8,760
N90	24,447	15,133	7,377
N91	24,447	23,466	7,377
N92	26,546	15,133	7,100
N93	26,546	23,466	7,100
N98	13,954	31,799	8,760

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N99	16,053	31,799	8,483
N100	20,250	31,799	7,930
N101	24,447	31,799	7,377
N102	26,546	31,799	7,100
N103	47,250	15,133	7,930
N104	47,250	23,466	7,930
N105	44,102	15,133	8,345
N106	44,102	23,466	8,345
N107	40,954	15,133	8,760
N108	40,954	23,466	8,760
N109	50,398	15,133	7,515
N110	50,398	23,466	7,515
N111	53,546	15,133	7,100
N112	53,546	23,466	7,100
N117	40,954	31,799	8,760
N118	44,102	31,799	8,345
N119	47,250	31,799	7,930
N120	50,398	31,799	7,515
N121	53,546	31,799	7,100
N122	33,750	15,133	7,930
N123	33,750	23,466	7,930
N124	37,947	15,133	8,483
N125	37,947	23,466	8,483
N126	40,046	15,133	8,760
N127	40,046	23,466	8,760
N128	29,553	15,133	7,377
N129	29,553	23,466	7,377
N130	27,454	15,133	7,100
N131	27,454	23,466	7,100
N136	40,046	31,799	8,760
N137	37,947	31,799	8,483
N138	33,750	31,799	7,930
N139	29,553	31,799	7,377
N140	27,454	31,799	7,100
N160	0,000	40,132	7,040
N163	54,000	40,132	7,040
N165	13,500	40,132	8,820
N166	27,000	40,132	7,040
N167	40,500	40,132	8,820
N171	6,750	40,132	7,930
N173	10,947	40,132	8,483



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N175	13,046	40,132	8,760
N177	2,553	40,132	7,377
N179	0,454	40,132	7,100
N186	20,250	40,132	7,930
N188	16,053	40,132	8,483
N190	13,954	40,132	8,760
N192	24,447	40,132	7,377
N194	26,546	40,132	7,100
N201	47,250	40,132	7,930
N203	44,102	40,132	8,345
N205	40,954	40,132	8,760
N207	50,398	40,132	7,515
N209	53,546	40,132	7,100
N216	33,750	40,132	7,930
N218	37,947	40,132	8,483
N220	40,046	40,132	8,760
N222	29,553	40,132	7,377
N224	27,454	40,132	7,100
N232	13,500	56,800	8,820
N234	0,000	56,800	7,040
N236	27,000	56,800	7,040
N238	40,500	56,800	8,820
N240	54,000	56,800	7,040
N250	0,000	48,465	7,040
N253	54,000	48,465	7,040
N255	13,500	48,465	8,820
N256	27,000	48,465	7,040
N257	40,500	48,465	8,820
N261	6,750	48,465	7,930
N262	6,750	56,800	7,930
N263	10,947	48,465	8,483
N264	10,947	56,800	8,483
N265	13,046	48,465	8,760
N266	13,046	56,800	8,760
N267	2,553	48,465	7,377
N268	2,553	56,800	7,377
N269	0,454	48,465	7,100
N270	0,454	56,800	7,100
N276	20,250	48,465	7,930
N277	20,250	56,800	7,930
N278	16,053	48,465	8,483
N279	16,053	56,800	8,483
N280	13,954	48,465	8,760
N281	13,954	56,800	8,760
N282	24,447	48,465	7,377
N283	24,447	56,800	7,377
N284	26,546	48,465	7,100
N285	26,546	56,800	7,100
N291	47,250	48,465	7,930
N292	47,250	56,800	7,930
N293	44,102	48,465	8,345
N294	44,102	56,800	8,345
N295	40,954	48,465	8,760
N296	40,954	56,800	8,760
N297	50,398	48,465	7,515
N298	50,398	56,800	7,515
N299	53,546	48,465	7,100
N300	53,546	56,800	7,100
N306	33,750	48,465	7,930
N307	33,750	56,800	7,930
N308	37,947	48,465	8,483
N309	37,947	56,800	8,483
N310	40,046	48,465	8,760
N311	40,046	56,800	8,760
N312	29,553	48,465	7,377
N313	29,553	56,800	7,377
N314	27,454	48,465	7,100
N315	27,454	56,800	7,100
N332	0,000	73,464	7,040
N335	54,000	73,464	7,040
N337	13,500	73,464	8,820
N338	27,000	73,464	7,040
N339	40,500	73,464	8,820
N340	0,000	65,133	7,040
N343	54,000	65,133	7,040
N345	13,500	65,133	8,820

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N346	27,000	65,133	7,040
N347	40,500	65,133	8,820
N351	6,750	65,133	7,930
N352	6,750	73,464	7,930
N353	10,947	65,133	8,483
N354	10,947	73,464	8,483
N355	13,046	65,133	8,760
N356	13,046	73,464	8,760
N357	2,553	65,133	7,377
N358	2,553	73,464	7,377
N359	0,454	65,133	7,100
N360	0,454	73,464	7,100
N366	20,250	65,133	7,930
N367	20,250	73,464	7,930
N368	16,053	65,133	8,483
N369	16,053	73,464	8,483
N370	13,954	65,133	8,760
N371	13,954	73,464	8,760
N372	24,447	65,133	7,377
N373	24,447	73,464	7,377
N374	26,546	65,133	7,100
N375	26,546	73,464	7,100
N381	47,250	65,133	7,930
N382	47,250	73,464	7,930
N383	44,102	65,133	8,345
N384	44,102	73,464	8,345
N385	40,954	65,133	8,760
N386	40,954	73,464	8,760
N387	50,398	65,133	7,515
N388	50,398	73,464	7,515
N389	53,546	65,133	7,100
N390	53,546	73,464	7,100
N396	33,750	65,133	7,930
N397	33,750	73,464	7,930
N398	37,947	65,133	8,483
N399	37,947	73,464	8,483
N400	40,046	65,133	8,760
N401	40,046	73,464	8,760
N402	29,553	65,133	7,377
N403	29,553	73,464	7,377
N404	27,454	65,133	7,100
N405	27,454	73,464	7,100
N591	60,550	6,800	6,250
N596	60,850	31,799	6,250
N597	54,000	23,466	6,250
N600	60,850	15,133	6,250
N603	60,550	81,797	6,250
N606	60,850	40,132	6,250
N608	60,550	40,132	6,250
N614	60,850	48,465	6,250
N616	60,550	56,800	6,250
N617	60,850	56,800	6,250
N622	60,850	65,133	6,250
N623	60,850	73,464	6,250
N632	60,550	15,133	6,250
N1281	54,000	6,800	6,250
N1284	54,000	31,799	6,250
N1285	54,000	15,133	6,250
N1286	54,000	81,797	6,250
N1287	54,000	40,132	6,250
N1288	54,000	48,465	6,250
N1289	54,000	56,800	6,250
N1290	54,000	65,133	6,250
N1291	54,000	73,464	6,250
N1293	60,550	23,466	6,250
N1295	60,550	65,133	6,250
N1298	60,850	23,466	6,250
N1323	60,550	48,465	6,250
N1328	60,550	73,464	6,250
N1807	57,275	15,133	6,250
N1808	57,275	23,466	6,250
N1809	57,425	31,799	6,250
N1810	57,275	40,132	6,250
N1811	57,275	48,465	6,250
N1812	57,275	56,800	6,250
N1813	57,275	65,133	6,250

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1814	57,275	73,464	6,250

### 2.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B13	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N14	Balk (80)
B14	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N12	standaard
B17	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N16	Balk (80)
B18	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N18	standaard
B50	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N20	Balk (80)
B52	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N43	standaard
B53	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N48	Balk (80)
B55	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N49	standaard
B57	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N50	Balk (80)
B59	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N46	standaard
B60	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N51	Balk (80)
B62	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N56	standaard
B152	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N57	Balk (80)
B154	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N58	standaard
B155	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N54	Balk (80)
B157	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N160	standaard
B1582	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N165	Balk (80)
B1583	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N166	standaard
B1584	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N166	Balk (80)
B1585	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N167	standaard
B246	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N163	Balk (80)
B248	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N234	standaard
B249	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N232	Balk (80)
B251	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N236	standaard
B333	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N236	Balk (80)
B335	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N238	standaard
B336	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N240	Balk (80)
B338	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N250	standaard
B340	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N255	Balk (80)
B342	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N256	standaard
B343	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N256	Balk (80)
B345	CS36 - I + I,var (IPE360, IPE450; 400)	Transversal beams	13,617	Lijn	N257	standaard
B639	CS35 - IPE300	Transversal beams	6,850	Lijn	N253	Balk (80)
B641	CS35 - IPE300	Transversal beams	6,850	Lijn	N257	standaard
B642	CS22 - IPE240	Transversal beams	6,550	Lijn	N253	Balk (80)



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
B645	CS22 - IPE240	Transversal beams	6,550	Lijn	N591	N1286	standaard Balk (80)
						N603	standaard
B647	CS35 - IPE300	Transversal beams	6,850	Lijn	N1287	N606	Balk (80) standaard
B653	CS35 - IPE300	Transversal beams	6,850	Lijn	N1288	N614	Balk (80) standaard
B656	CS35 - IPE300	Transversal beams	6,850	Lijn	N1289	N617	Balk (80) standaard
B659	CS35 - IPE300	Transversal beams	6,850	Lijn	N1290	N622	Balk (80) standaard
B660	CS35 - IPE300	Transversal beams	6,850	Lijn	N1291	N623	Balk (80) standaard
B1595	CS35 - IPE300	Transversal beams	6,850	Lijn	N597	N1298	Balk (80) standaard

## 2.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
Selectie : Benoemde selectie - Transv. beams  
Klasse : ULS-NL

Staat	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B13	CS36 - I + I,var	0,000	NC4	<b>-58,587</b>	1,873	-0,813	0,001	0,000	0,000
B13	CS36 - I + I,var	6,808	NC16	<b>63,144</b>	0,443	11,064	0,000	-76,982	0,038
B13	CS36 - I + I,var	13,158	NC3	-36,164	<b>-4,331</b>	-6,732	0,035	26,671	-1,990
B13	CS36 - I + I,var	13,158	NC13	22,571	<b>5,499</b>	21,384	-0,037	57,833	1,498
B13	CS36 - I + I,var	13,617	NC2	-7,059	-0,591	<b>-125,818</b>	0,008	<b>-413,847</b>	0,244
B13	CS36 - I + I,var	0,000	NC2	-10,812	-0,249	<b>81,936</b>	-0,019	0,000	0,000
B13	CS36 - I + I,var	13,067	NC5	24,208	1,434	-6,338	<b>-0,112</b>	-17,044	2,036
B13	CS36 - I + I,var	11,042	NC5	23,919	1,434	-4,150	<b>0,104</b>	-2,883	-0,867
B13	CS36 - I + I,var	13,617	NC18	36,227	4,406	79,283	-0,028	<b>267,327</b>	<b>4,211</b>
B13	CS36 - I + I,var	13,617	NC3	-36,089	-4,331	-7,302	0,035	23,453	<b>-3,977</b>
B14	CS36 - I + I,var	13,617	NC4	<b>-39,762</b>	0,055	12,039	-0,003	0,000	0,000
B14	CS36 - I + I,var	0,000	NC7	<b>44,797</b>	-1,670	-52,174	0,008	178,428	5,353
B14	CS36 - I + I,var	0,000	NC12	-37,956	<b>-8,545</b>	-43,396	0,061	111,857	4,598
B14	CS36 - I + I,var	0,000	NC18	32,987	<b>8,469</b>	-78,798	-0,030	<b>267,932</b>	<b>-11,614</b>
B14	CS36 - I + I,var	0,458	NC16	42,482	-3,431	<b>-79,559</b>	0,021	231,165	5,217
B14	CS36 - I + I,var	0,000	NC2	-6,912	2,414	<b>120,904</b>	-0,032	<b>-413,781</b>	-0,370
B14	CS36 - I + I,var	0,458	NC18	32,958	4,673	-68,442	<b>-0,376</b>	232,429	-9,478
B14	CS36 - I + I,var	2,200	NC18	32,767	4,673	-69,891	<b>0,327</b>	116,877	-1,340
B14	CS36 - I + I,var	0,000	NC16	42,538	-3,431	-79,132	0,021	267,539	<b>6,790</b>
B17	CS36 - I + I,var	0,000	NC4	<b>-39,437</b>	-0,678	-0,119	-0,003	0,000	0,000
B17	CS36 - I + I,var	13,617	NC7	<b>42,695</b>	9,382	51,861	-0,042	180,487	8,194
B17	CS36 - I + I,var	13,158	NC4	-34,554	<b>-9,878</b>	-5,925	0,045	-11,851	-2,131
B17	CS36 - I + I,var	13,158	NC16	40,307	<b>10,074</b>	<b>79,112</b>	-0,047	233,553	4,011
B17	CS36 - I + I,var	13,617	NC2	-6,448	0,430	<b>-119,954</b>	0,016	<b>-404,145</b>	1,803
B17	CS36 - I + I,var	13,067	NC16	40,557	2,472	68,613	<b>-0,204</b>	228,111	5,058
B17	CS36 - I + I,var	11,042	NC16	40,340	2,472	70,255	<b>0,167</b>	93,530	0,052
B17	CS36 - I + I,var	13,617	NC16	40,364	10,074	78,685	-0,047	<b>269,722</b>	<b>8,629</b>
B17	CS36 - I + I,var	13,617	NC4	-34,479	-9,878	-6,495	0,045	-14,699	<b>-6,661</b>
B18	CS36 - I + I,var	6,808	NC12	<b>-33,821</b>	1,178	-7,030	-0,001	-11,599	1,952
B18	CS36 - I + I,var	0,000	NC7	<b>40,875</b>	2,144	-52,735	-0,005	180,886	-5,230
B18	CS36 - I + I,var	0,000	NC3	-30,824	<b>-5,662</b>	7,182	0,042	-15,548	<b>4,015</b>
B18	CS36 - I + I,var	0,000	NC6	21,137	<b>5,559</b>	6,860	-0,047	16,163	-4,791
B18	CS36 - I + I,var	0,458	NC16	38,522	1,806	<b>-80,640</b>	-0,002	233,285	-4,441
B18	CS36 - I + I,var	0,000	NC2	-7,395	-0,837	<b>122,707</b>	0,008	<b>-404,092</b>	0,890
B18	CS36 - I + I,var	13,158	NC9	12,166	1,712	1,826	<b>-0,328</b>	-0,767	-0,785
B18	CS36 - I + I,var	13,158	NC16	18,507	-4,871	44,325	<b>0,462</b>	-20,267	2,233
B18	CS36 - I + I,var	0,000	NC16	38,579	1,806	-80,213	-0,002	<b>270,154</b>	-5,269
B18	CS36 - I + I,var	0,000	NC15	38,775	2,028	-79,575	-0,003	269,755	<b>-5,333</b>
B50	CS36 - I + I,var	0,000	NC12	<b>-110,730</b>	4,765	-15,180	-0,022	0,000	0,000
B50	CS36 - I + I,var	13,617	NC8	<b>42,107</b>	9,906	59,877	-0,047	203,296	6,132
B50	CS36 - I + I,var	13,158	NC2	3,574	<b>-17,654</b>	-148,868	0,057	-427,564	-0,588
B50	CS36 - I + I,var	13,158	NC15	41,659	<b>14,820</b>	91,909	-0,071	267,744	1,768
B50	CS36 - I + I,var	13,617	NC2	3,649	-17,654	<b>-149,438</b>	0,057	<b>-495,939</b>	<b>-8,681</b>
B50	CS36 - I + I,var	13,158	NC18	-43,448	11,037	<b>93,345</b>	-0,050	284,699	2,286
B50	CS36 - I + I,var	11,042	NC2	1,183	-1,045	-122,555	<b>-0,143</b>	-165,159	0,643
B50	CS36 - I + I,var	11,042	NC15	41,671	2,188	80,002	<b>0,200</b>	107,327	-1,484
B50	CS36 - I + I,var	13,617	NC18	-43,392	11,037	92,918	-0,050	<b>327,392</b>	7,346
B50	CS36 - I + I,var	13,617	NC15	41,715	14,820	91,482	-0,071	309,779	<b>8,561</b>
B52	CS36 - I + I,var	13,617	NC12	<b>-64,380</b>	0,586	27,489	0,024	0,000	0,000
B52	CS36 - I + I,var	0,000	NC8	<b>55,726</b>	-1,958	-61,127	-0,001	200,539	4,811
B52	CS36 - I + I,var	0,000	NC11	-61,523	<b>-14,412</b>	-50,275	0,083	136,398	7,676
B52	CS36 - I + I,var	0,000	NC2	1,088	<b>19,092</b>	<b>149,252</b>	-0,099	<b>-495,396</b>	<b>-9,212</b>



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B52	CS36 - I + I,var	0,458	NC18	-45,081	-1,462	<b>-94,757</b>	0,030	284,357	-6,597
B52	CS36 - I + I,var	0,458	NC18	-44,631	3,506	-80,387	<b>-0,310</b>	283,285	-7,651
B52	CS36 - I + I,var	2,200	NC18	-44,822	3,506	-81,836	<b>0,217</b>	135,254	-1,545
B52	CS36 - I + I,var	0,000	NC18	-45,025	-1,462	-94,330	0,030	<b>327,697</b>	-5,927
B52	CS36 - I + I,var	0,000	NC15	54,190	-7,086	-93,253	0,027	307,249	<b>7,718</b>
B53	CS36 - I + I,var	0,000	NC18	<b>-54,734</b>	0,875	-50,224	-0,053	0,000	0,000
B53	CS36 - I + I,var	13,617	NC7	<b>22,314</b>	22,307	61,231	-0,150	207,457	15,927
B53	CS36 - I + I,var	13,158	NC2	1,967	<b>-18,481</b>	-148,733	0,096	-419,705	0,035
B53	CS36 - I + I,var	13,158	NC16	17,597	<b>28,132</b>	<b>95,500</b>	-0,182	273,534	6,123
B53	CS36 - I + I,var	13,617	NC2	2,042	-18,481	<b>-149,303</b>	0,096	<b>-488,018</b>	<b>-8,438</b>
B53	CS36 - I + I,var	13,067	NC15	18,282	4,520	80,921	<b>-0,323</b>	265,946	8,295
B53	CS36 - I + I,var	11,042	NC15	18,065	4,520	82,563	<b>0,358</b>	103,088	-0,858
B53	CS36 - I + I,var	13,617	NC18	-53,384	9,622	94,957	-0,073	<b>330,647</b>	1,844
B53	CS36 - I + I,var	13,617	NC16	17,654	28,132	95,073	-0,182	317,215	<b>19,019</b>
B55	CS36 - I + I,var	13,617	NC7	<b>-78,567</b>	-10,272	29,036	0,545	0,000	0,000
B55	CS36 - I + I,var	0,000	NC2	<b>11,407</b>	<b>16,418</b>	<b>146,786</b>	-0,048	<b>-489,919</b>	<b>-8,167</b>
B55	CS36 - I + I,var	13,158	NC16	-77,104	<b>-10,443</b>	44,608	0,559	-20,397	4,787
B55	CS36 - I + I,var	0,458	NC16	-75,857	-3,253	<b>-93,799</b>	0,016	293,144	-4,985
B55	CS36 - I + I,var	13,158	NC9	-21,026	2,210	1,455	<b>-0,343</b>	-0,597	-1,013
B55	CS36 - I + I,var	13,158	NC15	-77,120	-10,441	43,916	<b>0,563</b>	-20,080	4,787
B55	CS36 - I + I,var	0,000	NC16	-75,801	-3,253	-93,372	0,016	<b>336,046</b>	-3,493
B55	CS36 - I + I,var	0,000	NC18	-38,046	-9,092	-92,945	0,035	327,570	<b>5,842</b>
B57	CS36 - I + I,var	6,808	NC2	<b>-99,671</b>	0,038	-54,053	-0,047	160,019	0,133
B57	CS36 - I + I,var	13,158	NC16	<b>95,478</b>	1,720	82,273	-0,232	257,622	3,137
B57	CS36 - I + I,var	13,158	NC18	66,269	<b>-11,508</b>	90,027	-0,113	245,626	2,014
B57	CS36 - I + I,var	13,158	NC2	-93,357	<b>18,419</b>	-146,257	<b>0,387</b>	-381,178	-1,342
B57	CS36 - I + I,var	13,617	NC2	-93,281	18,419	<b>-146,826</b>	0,387	<b>-448,355</b>	<b>7,102</b>
B57	CS36 - I + I,var	13,158	NC16	95,177	-7,600	<b>95,230</b>	-0,183	255,597	2,139
B57	CS36 - I + I,var	0,000	NC2	-12,527	-0,507	94,277	<b>-0,297</b>	0,000	0,000
B57	CS36 - I + I,var	13,617	NC16	95,233	-7,600	94,803	-0,183	<b>299,155</b>	-1,345
B57	CS36 - I + I,var	13,617	NC11	-33,764	-5,651	22,249	-0,004	116,273	<b>-4,989</b>
B59	CS36 - I + I,var	6,808	NC2	<b>-98,280</b>	1,861	49,943	0,000	126,929	2,797
B59	CS36 - I + I,var	0,000	NC16	<b>94,254</b>	15,372	-92,603	0,119	<b>299,429</b>	-2,945
B59	CS36 - I + I,var	0,000	NC2	-93,108	<b>-19,701</b>	<b>141,457</b>	<b>-0,377</b>	<b>-448,526</b>	<b>8,205</b>
B59	CS36 - I + I,var	0,000	NC15	94,209	<b>16,226</b>	-92,394	0,130	299,323	-3,270
B59	CS36 - I + I,var	0,458	NC16	94,198	15,372	<b>-93,030</b>	0,119	256,880	4,101
B59	CS36 - I + I,var	13,158	NC2	48,599	0,172	-67,126	<b>0,386</b>	30,842	-0,079
B59	CS36 - I + I,var	0,000	NC18	64,850	16,157	-87,511	0,105	287,185	<b>-13,207</b>
B60	CS36 - I + I,var	6,808	NC2	<b>-96,960</b>	-1,622	-46,982	-0,054	134,272	2,316
B60	CS36 - I + I,var	13,158	NC18	<b>64,204</b>	-1,294	74,789	0,044	244,604	-2,863
B60	CS36 - I + I,var	13,158	NC11	-8,541	<b>-11,333</b>	23,566	0,034	70,183	-2,787
B60	CS36 - I + I,var	13,158	NC2	-91,266	<b>17,022</b>	-137,494	<b>0,384</b>	-356,592	-0,933
B60	CS36 - I + I,var	13,617	NC2	-91,191	<b>17,022</b>	<b>-138,064</b>	0,384	<b>-419,753</b>	6,870
B60	CS36 - I + I,var	13,158	NC16	15,026	-6,769	<b>91,595</b>	-0,221	256,402	6,514
B60	CS36 - I + I,var	0,000	NC2	48,315	-0,298	68,328	<b>-0,384</b>	0,000	0,000
B60	CS36 - I + I,var	13,617	NC15	14,836	-4,863	90,510	-0,193	<b>298,734</b>	4,096
B60	CS36 - I + I,var	13,617	NC11	-8,485	-11,333	23,139	0,034	80,892	<b>-7,984</b>
B60	CS36 - I + I,var	13,158	NC16	14,985	3,570	78,082	-0,368	256,734	<b>7,773</b>
B62	CS36 - I + I,var	6,808	NC2	<b>-97,947</b>	-0,572	49,021	0,057	153,325	-0,722
B62	CS36 - I + I,var	0,458	NC18	<b>63,387</b>	-1,042	-76,969	0,146	243,597	2,593
B62	CS36 - I + I,var	0,000	NC2	-92,109	<b>-17,251</b>	<b>141,347</b>	-0,385	<b>-419,431</b>	<b>6,007</b>
B62	CS36 - I + I,var	0,000	NC16	18,049	<b>23,072</b>	-92,801	0,141	297,693	<b>-14,108</b>
B62	CS36 - I + I,var	0,458	NC16	17,992	23,072	<b>-93,228</b>	0,141	255,053	-3,531
B62	CS36 - I + I,var	13,158	NC18	29,939	0,788	50,078	<b>-0,475</b>	-22,904	-0,361
B62	CS36 - I + I,var	13,158	NC8	7,393	-7,831	36,697	<b>0,371</b>	-16,753	3,590
B62	CS36 - I + I,var	0,000	NC15	17,796	21,123	-92,137	0,113	<b>298,135</b>	-13,390
B152	CS36 - I + I,var	0,000	NC12	<b>-63,504</b>	0,516	-15,773	-0,010	0,000	0,000
B152	CS36 - I + I,var	13,617	NC14	<b>21,268</b>	0,141	24,503	0,003	81,950	0,103
B152	CS36 - I + I,var	13,158	NC18	-39,638	<b>-4,907</b>	<b>95,860</b>	0,034	292,991	1,632
B152	CS36 - I + I,var	13,158	NC2	-6,074	<b>9,559</b>	-154,086	-0,034	-442,108	1,214
B152	CS36 - I + I,var	13,617	NC2	-5,999	9,559	<b>-154,655</b>	-0,034	<b>-512,874</b>	<b>5,597</b>
B152	CS36 - I + I,var	13,067	NC2	-8,111	1,511	-129,409	<b>-0,106</b>	-430,024	2,122
B152	CS36 - I + I,var	11,042	NC2	-8,399	1,511	-127,220	<b>0,121</b>	-171,494	-0,937
B152	CS36 - I + I,var	13,617	NC18	-39,582	-4,907	95,432	0,034	<b>336,838</b>	-0,617
B152	CS36 - I + I,var	13,617	NC16	-20,769	-2,604	95,277	0,001	333,209	<b>-2,401</b>
B154	CS36 - I + I,var	13,617	NC11	<b>-32,787</b>	0,039	28,299	0,005	0,000	0,000
B154	CS36 - I + I,var	0,000	NC2	<b>42,006</b>	<b>-15,021</b>	<b>155,252</b>	0,119	<b>-522,491</b>	<b>9,858</b>
B154	CS36 - I + I,var	0,000	NC18	7,050	<b>17,561</b>	-97,520	-0,110	<b>327,408</b>	<b>-16,441</b>
B154	CS36 - I + I,var	0,458	NC18	6,994	17,561	<b>-97,947</b>	-0,110	282,605	-8,391
B154	CS36 - I + I,var	0,458	NC18	7,393	5,510	-83,385	<b>-0,455</b>	282,687	-10,809
B154	CS36 - I + I,var	2,200	NC18	7,202	5,510	-84,834	<b>0,374</b>	137,263	-1,214
B155	CS36 - I + I,var	0,000	NC11	<b>-34,317</b>	-0,690	-22,993	-0,014	0,000	0,000
B155	CS36 - I + I,var	13,617	NC2	<b>43,263</b>	20,132	<b>-155,799</b>	-0,167	<b>-511,254</b>	<b>13,406</b>
B155	CS36 - I + I,var	13,158	NC18	8,199	<b>-14,404</b>	<b>97,700</b>	0,110	279,433	-5,315
B155	CS36 - I + I,var	13,158	NC5	35,027	<b>27,289</b>	40,373	0,276	26,349	-4,453
B155	CS36 - I + I,var	13,067	NC2	41,125	3,437	-130,916	<b>-0,299</b>	-426,651	5,639



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B155	CS36 - I + I,var	13,158	NC14	27,185	22,771	76,059	<b>0,316</b>	126,364	-5,101
B155	CS36 - I + I,var	13,617	NC18	8,256	-14,404	97,273	0,110	<b>324,123</b>	<b>-11,918</b>
B157	CS36 - I + I,var	13,617	NC15	<b>-48,846</b>	-4,043	43,276	0,389	0,000	0,000
B157	CS36 - I + I,var	0,000	NC2	<b>23,282</b>	<b>-7,044</b>	<b>149,264</b>	0,007	<b>-507,301</b>	<b>3,901</b>
B157	CS36 - I + I,var	0,000	NC18	-29,375	<b>4,439</b>	-94,095	-0,015	331,771	0,247
B157	CS36 - I + I,var	0,458	NC18	-29,432	4,439	<b>-94,522</b>	-0,015	288,538	2,282
B157	CS36 - I + I,var	13,158	NC9	-27,674	3,378	2,207	<b>-0,280</b>	-0,942	-1,548
B157	CS36 - I + I,var	13,158	NC15	-48,816	-4,043	43,505	<b>0,389</b>	-19,891	1,853
B157	CS36 - I + I,var	0,000	NC16	-47,369	1,788	-93,462	0,029	<b>333,926</b>	-4,188
B157	CS36 - I + I,var	0,458	NC16	-47,159	2,126	-79,420	-0,163	289,895	<b>-4,282</b>
B1582	CS36 - I + I,var	0,000	NC11	<b>-81,748</b>	-3,645	-15,800	-0,005	0,000	0,000
B1582	CS36 - I + I,var	13,617	NC13	<b>0,790</b>	2,079	23,735	0,006	84,992	-0,890
B1582	CS36 - I + I,var	13,158	NC2	-13,697	<b>-32,314</b>	-140,272	-0,026	-390,773	-1,860
B1582	CS36 - I + I,var	13,158	NC16	-45,617	<b>19,001</b>	<b>88,817</b>	-0,014	270,607	-1,687
B1582	CS36 - I + I,var	13,617	NC2	-13,622	-32,314	<b>-140,842</b>	-0,026	<b>-455,207</b>	<b>-16,673</b>
B1582	CS36 - I + I,var	11,042	NC2	-15,938	-2,172	-116,310	<b>-0,248</b>	-144,565	0,899
B1582	CS36 - I + I,var	11,042	NC18	-21,251	1,733	77,440	<b>0,173</b>	98,503	-0,294
B1582	CS36 - I + I,var	13,617	NC16	-45,561	19,001	88,390	-0,014	<b>311,225</b>	7,024
B1582	CS36 - I + I,var	13,617	NC18	-21,164	17,410	88,360	0,025	304,947	<b>10,248</b>
B1583	CS36 - I + I,var	13,617	NC12	<b>-32,382</b>	-0,358	26,716	0,066	0,000	0,000
B1583	CS36 - I + I,var	0,000	NC5	<b>36,527</b>	-0,565	5,988	0,019	-20,183	1,243
B1583	CS36 - I + I,var	0,000	NC16	33,519	<b>-38,111</b>	-88,985	0,136	<b>295,306</b>	<b>28,136</b>
B1583	CS36 - I + I,var	0,000	NC2	3,457	<b>41,579</b>	<b>138,414</b>	-0,107	<b>-458,677</b>	<b>-22,021</b>
B1583	CS36 - I + I,var	0,458	NC16	33,463	-38,111	<b>-89,412</b>	0,136	254,416	10,665
B1583	CS36 - I + I,var	2,200	NC16	33,671	-7,099	-77,735	<b>-0,539</b>	126,004	1,550
B1583	CS36 - I + I,var	0,458	NC16	33,862	-7,099	-76,286	<b>0,529</b>	255,082	13,913
B1584	CS36 - I + I,var	0,000	NC12	<b>-34,602</b>	0,017	-13,996	-0,061	0,000	0,000
B1584	CS36 - I + I,var	13,617	NC5	<b>38,742</b>	-0,404	15,617	0,014	3,466	-2,999
B1584	CS36 - I + I,var	13,158	NC2	4,040	<b>-41,839</b>	-137,803	0,131	-387,331	-2,694
B1584	CS36 - I + I,var	13,158	NC16	35,764	<b>24,879</b>	<b>88,825</b>	-0,096	248,302	3,760
B1584	CS36 - I + I,var	13,617	NC2	4,115	-41,839	<b>-138,373</b>	0,131	<b>-450,634</b>	<b>-21,874</b>
B1584	CS36 - I + I,var	11,042	NC2	2,091	-3,030	-113,933	<b>-0,280</b>	-143,106	1,492
B1584	CS36 - I + I,var	0,000	NC2	-8,169	-0,645	68,722	<b>0,374</b>	0,000	0,000
B1584	CS36 - I + I,var	13,617	NC18	29,390	17,687	88,293	-0,057	<b>289,813</b>	5,845
B1584	CS36 - I + I,var	13,617	NC16	35,820	24,879	88,398	-0,096	288,923	<b>15,165</b>
B1585	CS36 - I + I,var	13,617	NC4	<b>-52,036</b>	-0,041	-3,672	0,029	-9,300	0,045
B1585	CS36 - I + I,var	0,458	NC15	<b>8,681</b>	-0,617	-73,248	-0,015	254,893	0,246
B1585	CS36 - I + I,var	0,000	NC16	8,430	<b>-18,765</b>	-85,781	-0,004	294,449	8,014
B1585	CS36 - I + I,var	0,000	NC2	-7,149	<b>31,962</b>	<b>134,728</b>	0,038	<b>-448,413</b>	<b>-15,590</b>
B1585	CS36 - I + I,var	0,458	NC18	-24,979	-16,461	<b>-86,719</b>	-0,046	261,096	3,951
B1585	CS36 - I + I,var	2,200	NC18	-24,908	-2,963	-75,171	<b>-0,259</b>	127,072	0,304
B1585	CS36 - I + I,var	13,158	NC8	3,341	12,067	32,333	<b>0,296</b>	-0,558	-5,297
B1585	CS36 - I + I,var	0,000	NC18	-24,922	-16,461	-86,292	-0,046	<b>300,752</b>	<b>11,497</b>
B246	CS36 - I + I,var	6,808	NC2	<b>-62,947</b>	-0,706	-46,456	0,014	142,601	1,367
B246	CS36 - I + I,var	13,158	NC15	<b>72,697</b>	-0,934	67,794	0,052	215,957	-2,503
B246	CS36 - I + I,var	13,158	NC18	54,293	<b>-7,328</b>	78,515	0,059	215,507	1,344
B246	CS36 - I + I,var	13,158	NC2	-56,825	<b>15,597</b>	-122,634	<b>-0,120</b>	-320,620	1,222
B246	CS36 - I + I,var	13,617	NC2	-56,750	15,597	<b>-123,203</b>	-0,120	<b>-376,968</b>	<b>8,372</b>
B246	CS36 - I + I,var	0,000	NC2	-10,978	0,519	<b>82,814</b>	0,001	0,000	0,000
B246	CS36 - I + I,var	11,042	NC2	-59,061	1,801	-102,344	<b>0,173</b>	-111,408	-1,233
B246	CS36 - I + I,var	13,617	NC18	54,349	-7,328	78,088	0,059	<b>251,402</b>	-2,015
B246	CS36 - I + I,var	13,617	NC16	72,361	-5,458	78,440	0,043	250,482	<b>-4,739</b>
B248	CS36 - I + I,var	13,617	NC2	<b>-65,072</b>	-0,464	-53,517	0,098	0,000	0,000
B248	CS36 - I + I,var	0,000	NC15	<b>67,375</b>	0,093	-76,208	-0,051	251,308	6,692
B248	CS36 - I + I,var	0,000	NC2	-54,316	<b>-16,389</b>	<b>116,374</b>	0,149	<b>-377,615</b>	<b>9,824</b>
B248	CS36 - I + I,var	0,000	NC18	50,710	<b>16,002</b>	-76,447	-0,110	<b>252,231</b>	<b>-15,246</b>
B248	CS36 - I + I,var	0,458	NC16	67,220	0,186	<b>-77,242</b>	-0,052	216,292	6,740
B248	CS36 - I + I,var	0,458	NC18	50,584	5,283	-65,581	<b>-0,411</b>	218,217	-10,191
B248	CS36 - I + I,var	2,200	NC18	50,393	5,283	-67,030	<b>0,384</b>	110,300	-0,990
B249	CS36 - I + I,var	0,000	NC2	<b>-65,997</b>	0,547	57,754	-0,102	0,000	0,000
B249	CS36 - I + I,var	13,617	NC15	<b>65,428</b>	-5,717	73,783	0,072	226,943	-1,183
B249	CS36 - I + I,var	13,158	NC13	18,110	<b>-33,987</b>	65,272	-0,218	90,588	0,799
B249	CS36 - I + I,var	13,158	NC2	-54,325	<b>20,494</b>	-114,782	-0,169	-293,192	3,474
B249	CS36 - I + I,var	13,617	NC2	-54,250	20,494	<b>-115,351</b>	-0,169	<b>-345,941</b>	<b>12,868</b>
B249	CS36 - I + I,var	13,158	NC18	49,536	-14,714	<b>74,972</b>	0,110	198,080	-5,326
B249	CS36 - I + I,var	11,042	NC18	49,338	-3,683	65,400	<b>-0,274</b>	69,939	0,707
B249	CS36 - I + I,var	13,067	NC18	49,554	-3,683	63,758	<b>0,280</b>	193,333	-6,752
B249	CS36 - I + I,var	13,617	NC18	49,593	-14,714	74,545	0,110	<b>232,351</b>	-12,071
B249	CS36 - I + I,var	13,617	NC13	18,166	-33,987	64,845	-0,218	120,403	<b>-14,777</b>
B251	CS36 - I + I,var	6,808	NC2	<b>-65,296</b>	0,087	34,855	-0,007	101,650	0,358
B251	CS36 - I + I,var	0,458	NC15	<b>66,701</b>	1,634	-61,297	-0,114	195,100	-3,281
B251	CS36 - I + I,var	0,000	NC2	-59,539	<b>-11,249</b>	<b>113,224</b>	0,089	<b>-344,578</b>	<b>5,967</b>
B251	CS36 - I + I,var	0,000	NC18	51,294	<b>6,407</b>	-72,774	-0,054	<b>231,833</b>	-0,414
B251	CS36 - I + I,var	13,617	NC2	-47,594	4,134	<b>-80,993</b>	-0,274	-110,355	0,043
B251	CS36 - I + I,var	13,158	NC9	9,378	1,331	1,613	<b>-0,381</b>	5,419	-0,575
B251	CS36 - I + I,var	13,158	NC16	45,763	2,760	54,757	<b>0,368</b>	62,774	-1,091



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B251	CS36 - I + I,var	0,000	NC16	66,552	4,186	-72,049	-0,028	226,697	<b>-4,382</b>
B333	CS36 - I + I,var	0,000	NC3	<b>-124,657</b>	-5,043	-1,590	-0,067	0,000	0,000
B333	CS36 - I + I,var	13,617	NC18	<b>45,017</b>	-4,775	95,770	0,008	<b>323,262</b>	-2,360
B333	CS36 - I + I,var	13,158	NC16	-18,106	<b>-12,374</b>	90,404	-0,049	273,582	-1,296
B333	CS36 - I + I,var	13,158	NC3	-103,523	<b>4,351</b>	-7,189	-0,010	38,469	2,494
B333	CS36 - I + I,var	13,617	NC2	-43,183	2,259	<b>-149,381</b>	-0,201	<b>-479,524</b>	2,776
B333	CS36 - I + I,var	13,158	NC18	44,961	-4,775	<b>96,197</b>	0,008	279,261	-0,171
B333	CS36 - I + I,var	13,158	NC2	-43,258	2,259	-148,812	<b>-0,201</b>	-411,175	1,740
B333	CS36 - I + I,var	0,000	NC2	-38,032	-0,164	93,252	<b>0,307</b>	0,000	0,000
B333	CS36 - I + I,var	13,617	NC16	-18,050	-12,374	89,976	-0,049	314,927	<b>-6,969</b>
B333	CS36 - I + I,var	13,617	NC3	-103,448	4,351	-7,759	-0,010	35,042	<b>4,490</b>
B335	CS36 - I + I,var	6,808	NC4	<b>-90,684</b>	-1,130	-3,597	-0,001	-41,926	-0,730
B335	CS36 - I + I,var	6,808	NC18	<b>99,759</b>	-0,573	-12,319	-0,012	-83,692	0,584
B335	CS36 - I + I,var	0,000	NC5	45,667	<b>-10,227</b>	6,033	0,073	-21,595	6,823
B335	CS36 - I + I,var	0,000	NC18	50,334	<b>9,960</b>	-93,413	-0,011	<b>322,296</b>	<b>-9,931</b>
B335	CS36 - I + I,var	0,458	NC18	50,278	9,960	<b>-93,840</b>	-0,011	279,375	-5,365
B335	CS36 - I + I,var	0,000	NC2	-39,472	-7,206	<b>145,054</b>	0,288	<b>-480,328</b>	6,994
B335	CS36 - I + I,var	2,200	NC15	7,956	-5,586	-79,707	<b>-0,471</b>	133,171	1,999
B335	CS36 - I + I,var	0,458	NC16	7,703	-5,590	-78,244	<b>0,371</b>	269,704	<b>11,737</b>
B336	CS36 - I + I,var	0,000	NC16	<b>-87,381</b>	-0,672	-46,971	-0,158	0,000	0,000
B336	CS36 - I + I,var	6,808	NC18	<b>82,640</b>	-0,606	12,487	0,012	-82,543	-1,202
B336	CS36 - I + I,var	13,158	NC16	-83,848	<b>-20,158</b>	86,654	-0,006	273,317	1,083
B336	CS36 - I + I,var	13,158	NC4	16,946	<b>9,838</b>	-6,765	-0,044	-28,280	1,225
B336	CS36 - I + I,var	13,617	NC2	-37,971	3,475	<b>-146,115</b>	-0,256	<b>-490,323</b>	4,922
B336	CS36 - I + I,var	13,158	NC18	27,025	-11,881	<b>94,717</b>	0,111	286,031	-5,206
B336	CS36 - I + I,var	13,158	NC2	-38,046	3,475	-145,546	<b>-0,256</b>	-423,472	3,330
B336	CS36 - I + I,var	13,067	NC18	27,535	-3,725	82,766	<b>0,388</b>	278,949	-7,140
B336	CS36 - I + I,var	13,617	NC18	27,081	-11,881	94,290	0,111	<b>329,354</b>	<b>-10,653</b>
B336	CS36 - I + I,var	13,617	NC4	17,021	9,838	-7,334	-0,044	-31,512	<b>5,736</b>
B338	CS36 - I + I,var	13,617	NC9	<b>-91,806</b>	-3,150	4,238	-0,169	-17,673	-0,021
B338	CS36 - I + I,var	6,808	NC3	<b>12,013</b>	0,876	3,906	0,011	12,614	-1,666
B338	CS36 - I + I,var	13,158	NC2	-50,515	<b>-10,305</b>	-68,847	<b>-0,482</b>	31,228	4,648
B338	CS36 - I + I,var	0,000	NC16	-33,909	<b>22,038</b>	-86,389	-0,020	302,832	<b>-8,314</b>
B338	CS36 - I + I,var	0,458	NC18	-8,404	-4,377	<b>-96,606</b>	-0,002	292,254	3,231
B338	CS36 - I + I,var	0,000	NC2	-45,790	4,978	<b>146,552</b>	0,171	<b>-488,748</b>	1,225
B338	CS36 - I + I,var	13,158	NC16	-5,210	5,663	52,352	<b>0,344</b>	-4,335	-2,577
B338	CS36 - I + I,var	0,000	NC18	-8,347	-4,377	-96,179	-0,002	<b>336,443</b>	5,237
B338	CS36 - I + I,var	0,000	NC9	-38,991	-10,219	-8,300	0,017	41,831	<b>7,160</b>
B340	CS36 - I + I,var	0,000	NC3	<b>-58,677</b>	-3,260	-0,404	0,010	0,000	0,000
B340	CS36 - I + I,var	6,808	NC16	<b>63,311</b>	-0,786	12,127	0,005	-75,669	-1,785
B340	CS36 - I + I,var	13,158	NC16	40,336	<b>-8,013</b>	88,847	0,073	260,995	-3,841
B340	CS36 - I + I,var	13,158	NC2	32,575	<b>12,844</b>	-143,869	-0,103	-425,317	-0,285
B340	CS36 - I + I,var	13,617	NC2	32,651	12,844	<b>-144,438</b>	-0,103	<b>-491,400</b>	5,603
B340	CS36 - I + I,var	13,158	NC18	30,727	-1,334	<b>88,851</b>	0,028	263,094	0,563
B340	CS36 - I + I,var	11,042	NC16	40,404	-1,803	77,325	<b>-0,165</b>	106,014	-0,667
B340	CS36 - I + I,var	11,042	NC4	-39,452	1,964	-2,044	<b>0,142</b>	28,904	-0,567
B340	CS36 - I + I,var	13,617	NC18	30,784	-1,334	88,424	0,028	<b>303,728</b>	-0,048
B340	CS36 - I + I,var	13,617	NC16	40,393	-8,013	88,420	0,073	301,626	<b>-7,514</b>
B340	CS36 - I + I,var	13,617	NC4	-38,652	7,112	-6,906	-0,037	25,882	<b>6,138</b>
B342	CS36 - I + I,var	13,617	NC3	<b>-44,528</b>	-0,189	11,382	-0,008	0,000	0,000
B342	CS36 - I + I,var	0,000	NC9	<b>47,563</b>	-0,308	-0,237	0,003	-2,075	-3,689
B342	CS36 - I + I,var	0,000	NC2	29,923	<b>-18,281</b>	<b>143,460</b>	0,146	<b>-490,719</b>	9,906
B342	CS36 - I + I,var	0,000	NC11	-43,095	<b>15,242</b>	-49,126	-0,102	131,727	<b>-11,000</b>
B342	CS36 - I + I,var	0,458	NC18	30,852	8,165	<b>-91,566</b>	-0,070	261,769	-7,166
B342	CS36 - I + I,var	0,458	NC18	31,123	4,828	-78,215	<b>-0,357</b>	262,398	-8,938
B342	CS36 - I + I,var	0,458	NC16	37,043	-5,268	-77,875	<b>0,459</b>	261,372	11,326
B342	CS36 - I + I,var	0,000	NC18	30,908	8,165	-91,139	-0,070	<b>303,648</b>	-10,909
B342	CS36 - I + I,var	0,000	NC15	36,900	-14,698	-89,946	0,055	301,583	<b>16,051</b>
B343	CS36 - I + I,var	0,000	NC3	<b>-44,772</b>	0,446	0,639	0,001	0,000	0,000
B343	CS36 - I + I,var	13,617	NC9	<b>45,489</b>	-3,652	0,281	0,019	-0,540	-4,291
B343	CS36 - I + I,var	13,158	NC14	19,494	<b>-11,910</b>	49,417	0,075	95,254	-3,985
B343	CS36 - I + I,var	13,158	NC2	30,352	<b>13,567</b>	-141,158	-0,116	-412,797	1,184
B343	CS36 - I + I,var	13,617	NC2	30,427	13,567	<b>-141,728</b>	-0,116	<b>-477,638</b>	<b>7,403</b>
B343	CS36 - I + I,var	13,158	NC16	33,715	-3,443	<b>92,037</b>	0,076	265,761	0,248
B343	CS36 - I + I,var	11,042	NC18	29,536	-3,802	80,260	<b>-0,303</b>	102,961	0,838
B343	CS36 - I + I,var	13,067	NC18	29,752	-3,802	78,618	<b>0,269</b>	259,428	-6,862
B343	CS36 - I + I,var	13,617	NC18	29,382	-11,300	91,271	0,090	<b>307,999</b>	<b>-10,808</b>
B345	CS36 - I + I,var	6,808	NC11	<b>-41,540</b>	-1,950	-9,319	0,003	-14,935	-2,151
B345	CS36 - I + I,var	0,000	NC9	<b>42,657</b>	-3,804	0,287	0,013	0,039	4,566
B345	CS36 - I + I,var	0,000	NC2	32,706	<b>-11,777</b>	<b>141,868</b>	0,103	<b>-478,192</b>	<b>6,685</b>
B345	CS36 - I + I,var	0,000	NC3	-38,054	<b>16,595</b>	8,644	-0,070	-15,610	-9,457
B345	CS36 - I + I,var	0,458	NC18	25,374	-1,509	<b>-90,579</b>	-0,026	267,455	3,366
B345	CS36 - I + I,var	13,158	NC10	5,369	-5,872	27,525	<b>-0,226</b>	-20,928	2,605
B345	CS36 - I + I,var	0,458	NC18	25,432	-1,722	-77,049	<b>0,171</b>	268,004	3,818
B345	CS36 - I + I,var	0,000	NC18	25,430	-1,509	-90,152	-0,026	<b>308,881</b>	4,058
B345	CS36 - I + I,var	0,000	NC11	-40,771	16,276	-23,103	-0,078	90,123	<b>-9,968</b>



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B639	CS35 - IPE300	0,000	NC8	<b>-56,100</b>	-0,056	35,329	-0,023	0,000	0,000
B639	CS35 - IPE300	3,425	NC2	<b>0,010</b>	0,011	-3,506	-0,001	111,675	-0,017
B639	CS35 - IPE300	3,425	NC9	-30,900	<b>-0,274</b>	-2,203	0,014	74,113	0,016
B639	CS35 - IPE300	3,425	NC8	-56,089	<b>0,549</b>	-1,717	-0,023	57,634	-0,192
B639	CS35 - IPE300	6,550	NC2	0,010	0,011	<b>-73,228</b>	-0,001	-1,222	0,018
B639	CS35 - IPE300	0,000	NC7	0,006	-0,005	<b>74,132</b>	-0,001	0,000	0,000
B639	CS35 - IPE300	0,000	NC7	-56,064	-0,056	35,329	<b>-0,023</b>	0,000	0,000
B639	CS35 - IPE300	0,000	NC17	-31,011	0,002	28,113	<b>0,014</b>	0,000	0,000
B639	CS35 - IPE300	6,550	NC2	0,000	0,000	8,107	0,000	<b>-1,222</b>	0,000
B639	CS35 - IPE300	3,425	NC2	0,006	-0,005	-3,462	-0,001	<b>111,675</b>	-0,017
B639	CS35 - IPE300	6,550	NC9	-30,900	-0,274	-45,630	0,014	-0,625	<b>-0,842</b>
B639	CS35 - IPE300	6,550	NC8	-56,089	0,549	-35,479	-0,023	-0,486	<b>1,523</b>
B641	CS35 - IPE300	0,000	NC7	<b>-57,396</b>	0,000	12,578	0,000	0,000	0,000
B641	CS35 - IPE300	6,550	NC13	<b>0,000</b>	0,000	1,651	0,000	-0,248	0,000
B641	CS35 - IPE300	0,000	NC17	-23,855	<b>-0,026</b>	28,114	0,000	0,000	0,000
B641	CS35 - IPE300	3,275	NC17	-23,855	<b>0,026</b>	-0,075	0,000	45,966	-0,086
B641	CS35 - IPE300	6,550	NC2	-21,023	-0,009	<b>-73,227</b>	0,000	-1,222	0,000
B641	CS35 - IPE300	0,000	NC2	-21,023	0,009	<b>74,133</b>	0,000	0,000	0,000
B641	CS35 - IPE300	0,000	NC9	-25,413	-0,025	45,438	<b>0,000</b>	0,000	0,000
B641	CS35 - IPE300	3,275	NC15	-54,727	0,000	0,026	0,000	<b>-7,728</b>	0,000
B641	CS35 - IPE300	3,275	NC2	-21,023	0,009	-0,747	0,000	<b>111,995</b>	0,031
B641	CS35 - IPE300	3,275	NC17	-23,855	-0,026	-0,043	0,000	45,966	<b>-0,086</b>
B641	CS35 - IPE300	3,275	NC5	-19,689	0,013	-0,052	0,000	57,766	<b>0,041</b>
B642	CS22 - IPE240	0,000	NC15	<b>-51,608</b>	0,013	-2,096	<b>-0,021</b>	0,000	0,000
B642	CS22 - IPE240	0,000	NC3	<b>0,023</b>	-0,005	18,133	0,009	0,000	0,000
B642	CS22 - IPE240	0,000	NC17	-0,012	<b>-0,014</b>	14,395	0,014	0,000	0,000
B642	CS22 - IPE240	3,275	NC17	-0,012	<b>0,014</b>	-0,038	0,014	23,634	-0,047
B642	CS22 - IPE240	6,550	NC2	-0,015	-0,006	<b>-37,487</b>	0,001	0,000	0,000
B642	CS22 - IPE240	0,000	NC2	-0,015	0,006	<b>37,685</b>	0,001	0,000	0,000
B642	CS22 - IPE240	0,000	NC9	-0,015	-0,013	23,178	<b>0,014</b>	0,000	0,000
B642	CS22 - IPE240	3,275	NC15	-51,608	0,013	0,038	-0,021	<b>-3,370</b>	0,044
B642	CS22 - IPE240	3,275	NC2	-0,015	0,006	-0,136	0,001	<b>57,405</b>	0,019
B642	CS22 - IPE240	3,275	NC17	-0,012	-0,014	0,038	0,014	23,634	<b>-0,047</b>
B642	CS22 - IPE240	3,275	NC16	-51,584	0,013	0,038	-0,021	-3,370	<b>0,044</b>
B645	CS22 - IPE240	0,000	NC18	<b>-40,425</b>	0,010	3,666	<b>0,016</b>	0,000	0,000
B645	CS22 - IPE240	0,000	NC4	<b>0,028</b>	0,038	15,283	-0,006	0,000	0,000
B645	CS22 - IPE240	3,275	NC3	0,013	<b>-0,040</b>	-0,050	-0,006	29,775	0,130
B645	CS22 - IPE240	0,000	NC3	0,013	<b>0,040</b>	18,133	-0,006	0,000	0,000
B645	CS22 - IPE240	6,550	NC2	-0,002	-0,005	<b>-37,487</b>	-0,003	0,000	0,000
B645	CS22 - IPE240	0,000	NC2	-0,002	0,005	<b>37,685</b>	-0,003	<b>0,000</b>	0,000
B645	CS22 - IPE240	0,000	NC7	-0,649	0,018	18,133	<b>-0,015</b>	0,000	0,000
B645	CS22 - IPE240	3,275	NC2	-0,002	0,005	-0,136	-0,003	<b>57,405</b>	0,015
B645	CS22 - IPE240	0,000	NC10	-38,747	0,008	12,449	0,015	0,000	<b>0,000</b>
B645	CS22 - IPE240	3,275	NC3	0,013	0,040	0,050	-0,006	29,775	<b>0,130</b>
B647	CS35 - IPE300	3,275	NC16	<b>-69,211</b>	<b>0,608</b>	-0,054	-0,019	29,448	-0,287
B647	CS35 - IPE300	6,550	NC12	<b>0,000</b>	0,000	1,138	0,000	-0,171	0,000
B647	CS35 - IPE300	3,275	NC9	-37,654	<b>-0,168</b>	-0,117	0,014	74,285	-0,188
B647	CS35 - IPE300	6,550	NC2	-2,171	-0,123	<b>-73,227</b>	0,002	-1,219	-0,348
B647	CS35 - IPE300	0,000	NC2	-2,168	0,017	<b>74,134</b>	0,002	0,000	0,000
B647	CS35 - IPE300	0,000	NC15	-69,157	-0,087	18,005	<b>-0,019</b>	0,000	0,000
B647	CS35 - IPE300	0,000	NC9	-37,652	-0,057	45,438	<b>0,014</b>	0,000	0,000
B647	CS35 - IPE300	6,550	NC2	0,000	0,000	8,107	0,000	<b>-1,222</b>	0,000
B647	CS35 - IPE300	3,275	NC2	-2,168	0,017	-0,747	0,002	<b>111,997</b>	0,055
B647	CS35 - IPE300	6,550	NC9	-37,654	-0,168	-45,629	0,014	-0,624	<b>-0,738</b>
B647	CS35 - IPE300	6,550	NC16	-69,211	0,608	-18,081	-0,019	-0,248	<b>1,705</b>
B653	CS35 - IPE300	0,000	NC8	<b>-47,093</b>	0,045	35,330	0,000	0,000	0,000
B653	CS35 - IPE300	6,650	NC5	<b>0,000</b>	0,000	2,161	0,000	-0,216	0,000
B653	CS35 - IPE300	3,275	NC7	-47,073	<b>-0,045</b>	-0,096	0,000	57,766	0,148
B653	CS35 - IPE300	0,000	NC7	-47,073	<b>0,045</b>	35,330	0,000	0,000	0,000
B653	CS35 - IPE300	6,550	NC2	-24,607	0,000	<b>-73,227</b>	0,000	<b>-1,222</b>	0,000
B653	CS35 - IPE300	0,000	NC2	-24,607	0,000	<b>74,133</b>	0,000	0,000	0,000
B653	CS35 - IPE300	3,275	NC16	-45,748	-0,043	-0,054	<b>0,000</b>	29,449	0,142
B653	CS35 - IPE300	0,000	NC1	-11,596	0,000	35,065	<b>0,000</b>	0,000	0,000
B653	CS35 - IPE300	3,275	NC2	-24,607	0,000	-0,747	0,000	<b>111,995</b>	0,000
B653	CS35 - IPE300	3,275	NC4	-20,149	-0,021	-0,041	0,000	48,626	<b>-0,070</b>
B653	CS35 - IPE300	3,275	NC7	-47,073	0,045	-0,052	0,000	57,766	<b>0,148</b>
B656	CS35 - IPE300	0,000	NC9	<b>-39,899</b>	0,035	45,437	0,017	0,000	0,000
B656	CS35 - IPE300	6,650	NC3	<b>0,000</b>	0,000	2,161	0,000	-0,216	0,000
B656	CS35 - IPE300	3,275	NC9	-39,899	<b>-0,399</b>	-0,118	0,017	74,281	0,116
B656	CS35 - IPE300	3,275	NC16	-27,032	<b>0,318</b>	-0,054	0,001	29,449	-0,124
B656	CS35 - IPE300	6,550	NC2	-0,141	-0,025	<b>-73,229</b>	0,025	<b>-1,235</b>	-0,089
B656	CS35 - IPE300	0,000	NC2	-0,141	-0,002	<b>74,131</b>	<b>0,025</b>	0,000	0,000
B656	CS35 - IPE300	6,550	NC7	0,000	0,000	3,241	<b>0,000</b>	-0,486	0,000
B656	CS35 - IPE300	3,275	NC2	-0,141	-0,002	-0,749	0,025	<b>111,989</b>	-0,006
B656	CS35 - IPE300	6,550	NC9	-39,899	-0,399	-45,630	0,017	-0,631	<b>-1,190</b>
B656	CS35 - IPE300	6,550	NC16	-27,032	0,318	-18,081	0,001	-0,248	<b>0,917</b>

Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B659	CS35 - IPE300	0,000	NC10	<b>-48,670</b>	0,054	29,731	-0,005	0,000	0,000
B659	CS35 - IPE300	6,750	NC11	<b>0,000</b>	0,000	0,550	0,000	-0,028	0,000
B659	CS35 - IPE300	3,275	NC17	-47,491	<b>-0,502</b>	-0,078	-0,004	45,959	0,158
B659	CS35 - IPE300	3,275	NC3	-42,840	<b>0,344</b>	-0,095	-0,007	57,770	-0,126
B659	CS35 - IPE300	6,550	NC2	-15,972	0,070	<b>-73,224</b>	-0,014	-1,201	0,141
B659	CS35 - IPE300	0,000	NC2	-15,972	-0,027	<b>74,136</b>	<b>-0,014</b>	0,000	0,000
B659	CS35 - IPE300	6,550	NC6	0,000	0,000	2,727	<b>0,000</b>	-0,409	0,000
B659	CS35 - IPE300	6,550	NC2	0,000	0,000	8,107	0,000	<b>-1,222</b>	0,000
B659	CS35 - IPE300	3,275	NC2	-15,972	-0,027	-0,744	-0,014	<b>112,006</b>	-0,087
B659	CS35 - IPE300	6,550	NC17	-47,491	-0,502	-28,234	-0,004	-0,402	<b>-1,484</b>
B659	CS35 - IPE300	6,550	NC3	-42,840	0,344	-35,477	-0,007	-0,478	<b>0,999</b>
B660	CS35 - IPE300	0,000	NC17	<b>-48,616</b>	0,000	6,706	0,000	0,000	0,000
B660	CS35 - IPE300	6,550	NC16	<b>0,000</b>	0,000	1,651	0,000	-0,248	0,000
B660	CS35 - IPE300	3,275	NC8	-4,378	<b>-0,034</b>	-0,096	0,000	57,766	0,110
B660	CS35 - IPE300	0,000	NC8	-4,378	<b>0,034</b>	35,330	0,000	0,000	0,000
B660	CS35 - IPE300	6,550	NC2	-10,317	0,000	<b>-73,227</b>	0,000	<b>-1,222</b>	0,000
B660	CS35 - IPE300	0,000	NC2	-10,317	0,000	<b>74,133</b>	0,000	0,000	0,000
B660	CS35 - IPE300	3,275	NC12	-9,745	-0,012	-0,042	<b>0,000</b>	20,309	0,041
B660	CS35 - IPE300	0,000	NC1	-2,207	0,000	35,065	<b>0,000</b>	0,000	0,000
B660	CS35 - IPE300	3,275	NC2	-10,317	0,000	-0,747	0,000	<b>111,995</b>	<b>0,000</b>
B660	CS35 - IPE300	3,275	NC8	-4,378	0,034	-0,052	0,000	57,766	<b>0,110</b>
B1595	CS35 - IPE300	3,275	NC7	<b>-61,480</b>	<b>0,275</b>	-0,097	-0,019	57,764	0,262
B1595	CS35 - IPE300	6,550	NC6	<b>0,000</b>	0,000	2,727	0,000	-0,409	0,000
B1595	CS35 - IPE300	3,275	NC18	-40,491	<b>-0,339</b>	-0,043	0,018	20,299	0,144
B1595	CS35 - IPE300	6,550	NC2	-1,885	0,085	<b>-73,230</b>	0,014	<b>-1,237</b>	0,226
B1595	CS35 - IPE300	0,000	NC2	-1,883	-0,016	<b>74,131</b>	0,014	0,000	0,000
B1595	CS35 - IPE300	0,000	NC15	-61,014	0,079	18,005	<b>-0,023</b>	0,000	0,000
B1595	CS35 - IPE300	0,000	NC9	-33,243	0,034	45,436	<b>0,025</b>	0,000	0,000
B1595	CS35 - IPE300	3,275	NC2	-1,883	-0,016	-0,749	0,014	<b>111,988</b>	-0,053
B1595	CS35 - IPE300	6,550	NC18	-40,491	-0,339	-12,459	0,018	-0,173	<b>-0,964</b>
B1595	CS35 - IPE300	6,550	NC7	-61,480	0,275	-35,479	-0,019	-0,491	<b>1,161</b>

## 2.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - Transv. beams

### Algehele eenheidscontrole

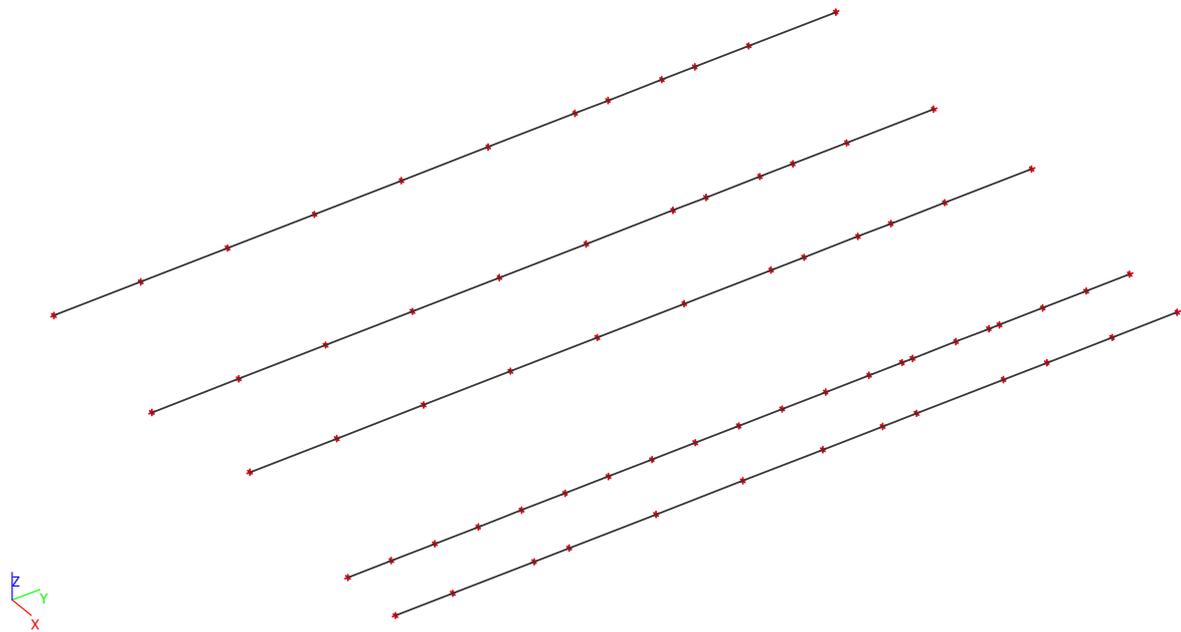
Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B13	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,61</b>	0,46	0,61
B14	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,61</b>	0,46	0,61
B17	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,62</b>	0,47	0,62
B18	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,60</b>	0,46	0,60
B50	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,85</b>	0,66	0,85
B52	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,85</b>	0,67	0,85
B53	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,83</b>	0,65	0,83
B55	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,83</b>	0,65	0,83
B57	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,71</b>	0,57	0,71
B59	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,72</b>	0,59	0,72
B60	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,67</b>	0,54	0,67
B62	0,000	NC16	CS36 - I + I,var	S 355	<b>0,66</b>	0,51	0,66



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
			(IPE360, IPE450; 400)				
B152	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,79</b>	0,64	0,79
B154	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,89</b>	0,72	0,89
B155	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,93</b>	0,75	0,93
B157	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,79</b>	0,62	0,79
B1582	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,76</b>	0,72	0,76
B1583	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,98</b>	0,79	0,98
B1584	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,97</b>	0,78	0,97
B1585	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,75</b>	0,70	0,75
B246	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,61</b>	0,51	0,61
B248	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,62</b>	0,53	0,62
B249	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,60</b>	0,54	0,60
B251	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,55</b>	0,45	0,55
B333	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,72</b>	0,56	0,72
B335	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,77</b>	0,62	0,77
B336	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,77</b>	0,60	0,77
B338	0,458-	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,75</b>	0,57	0,75
B340	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,79</b>	0,62	0,79
B342	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,85</b>	0,68	0,85
B343	13,617	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,80</b>	0,63	0,80
B345	0,000	NC2	CS36 - I + I,var (IPE360, IPE450; 400)	S 355	<b>0,79</b>	0,62	0,79
B639	3,425-	NC2	CS35 - IPE300	S 235	<b>0,95</b>	0,76	0,95
B641	3,275-	NC2	CS35 - IPE300	S 235	<b>0,94</b>	0,76	0,94
B642	3,275-	NC2	CS22 - IPE240	S 235	<b>0,87</b>	0,67	0,87
B645	3,275-	NC2	CS22 - IPE240	S 235	<b>0,87</b>	0,67	0,87
B647	3,275+	NC2	CS35 - IPE300	S 235	<b>0,93</b>	0,76	0,93
B653	3,275-	NC2	CS35 - IPE300	S 235	<b>0,94</b>	0,76	0,94
B656	3,275-	NC2	CS35 - IPE300	S 235	<b>0,93</b>	0,76	0,93
B659	3,275-	NC2	CS35 - IPE300	S 235	<b>0,94</b>	0,76	0,94
B660	3,275-	NC2	CS35 - IPE300	S 235	<b>0,94</b>	0,76	0,94
B1595	3,275-	NC2	CS35 - IPE300	S 235	<b>0,93</b>	0,76	0,93

### 3.) Hoofdliggers

#### 3.1. Analysemodel



#### 3.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N2	13,500	6,800	8,820
N6	27,000	6,800	7,040
N12	13,500	31,799	8,820
N16	27,000	31,799	7,040
N18	40,500	31,799	8,820
N32	40,500	6,800	8,820
N48	13,500	23,466	8,820
N49	27,000	23,466	7,040
N50	40,500	23,466	8,820
N56	13,500	15,133	8,820
N57	27,000	15,133	7,040
N58	40,500	15,133	8,820
N165	13,500	40,132	8,820
N166	27,000	40,132	7,040
N167	40,500	40,132	8,820
N232	13,500	56,800	8,820
N236	27,000	56,800	7,040
N238	40,500	56,800	8,820
N255	13,500	48,465	8,820
N256	27,000	48,465	7,040
N257	40,500	48,465	8,820
N322	13,500	81,797	8,820
N326	27,000	81,797	7,040
N328	40,500	81,797	8,820
N337	13,500	73,464	8,820

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N338	27,000	73,464	7,040
N339	40,500	73,464	8,820
N345	13,500	65,133	8,820
N346	27,000	65,133	7,040
N347	40,500	65,133	8,820
N591	60,550	6,800	6,250
N603	60,550	81,797	6,250
N608	60,550	40,132	6,250
N616	60,550	56,800	6,250
N1286	54,000	81,797	6,250
N1288	54,000	48,465	6,250
N1289	54,000	56,800	6,250
N1290	54,000	65,133	6,250
N1291	54,000	73,464	6,250
N1293	60,550	23,466	6,250
N1297	60,550	69,298	6,250
N1303	13,500	59,953	8,820
N1305	27,000	59,953	7,040
N1307	40,500	59,953	8,820
N1309	40,500	68,288	8,820
N1311	27,000	68,288	7,040
N1313	13,500	68,288	8,820
N1314	54,000	68,288	6,250
N1316	54,000	59,955	6,250
N1322	60,550	31,799	6,250

#### 3.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B72	CS26 - HEA360	Longitudinal beams	16,666	Lijn	N6 N49	Balk (80) standaard
B638	CS3 - IPE300	Longitudinal beams	5,500	Lijn	N591 N2104	Balk (80) standaard
B652	CS3 - IPE300	Longitudinal beams	3,250	Lijn	N2107 N616	Balk (80) standaard
B658	CS3 - IPE300	Longitudinal beams	8,333	Lijn	N616 N1295	Balk (80) standaard
B668	CS8 - HEA400	Longitudinal beams	33,332	Lijn	N1288 N1286	Horizontaal windverband (0) standaard

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B1046	CS7 - HEA500	Longitudinal beams	16,666	Lijn	N32 N50	Balk (80) standaard
B1532	CS3 - IPE300	Longitudinal beams	8,333	Lijn	N1293 N1322	Balk (80) standaard
B1596	CS26 - HEA360	Longitudinal beams	16,666	Lijn	N49 N166	Balk (80) standaard
B1597	CS26 - HEA360	Longitudinal beams	21,844	Lijn	N1305 N326	Balk (80) standaard
B1608	CS7 - HEA500	Longitudinal beams	16,666	Lijn	N50 N167	Balk (80) standaard
B1609	CS7 - HEA500	Longitudinal beams	21,844	Lijn	N1307 N328	Balk (80) standaard
B1610	CS7 - HEA500	Longitudinal beams	19,821	Lijn	N167 N1307	Balk (80) standaard
B1611	CS7 - HEA500	Longitudinal beams	19,821	Lijn	N165 N1303	Balk (80) standaard
B1612	CS7 - HEA500	Longitudinal beams	21,844	Lijn	N1303 N322	Balk (80) standaard
B1613	CS7 - HEA500	Longitudinal beams	16,666	Lijn	N48 N165	Balk (80) standaard
B1614	CS7 - HEA500	Longitudinal beams	16,666	Lijn	N2 N48	Balk (80) standaard
B1615	CS26 - HEA360	Longitudinal beams	19,821	Lijn	N166 N1305	Balk (80) standaard

### 3.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Long. beams  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B72	CS26 - HEA360	0,000	NC16	<b>-135,077</b>	-0,035	-26,896	-0,001	0,000	0,000
B72	CS26 - HEA360	0,000	NC2	<b>0,071</b>	-0,017	52,903	0,000	0,000	0,000
B72	CS26 - HEA360	8,333	NC3	-46,183	<b>-1,270</b>	0,374	0,000	12,884	5,408
B72	CS26 - HEA360	8,333	NC5	-38,285	<b>1,134</b>	5,207	0,000	-6,386	-4,789
B72	CS26 - HEA360	16,666	NC2	-0,399	0,108	<b>-91,051</b>	0,000	<b>-318,643</b>	0,758
B72	CS26 - HEA360	8,333	NC18	-125,899	0,761	<b>58,454</b>	0,000	-261,788	-2,657
B72	CS26 - HEA360	8,333	NC16	-133,820	0,097	57,941	<b>-0,001</b>	-258,052	-0,291
B72	CS26 - HEA360	0,000	NC9	-41,478	-0,368	2,634	<b>0,000</b>	0,000	0,000
B72	CS26 - HEA360	8,333	NC2	0,071	-0,017	41,892	0,000	<b>394,964</b>	-0,141
B72	CS26 - HEA360	16,666	NC3	-46,183	-1,270	-10,637	0,000	-29,876	<b>-5,173</b>
B72	CS26 - HEA360	8,333	NC3	-46,653	0,649	-3,966	0,000	12,831	<b>5,412</b>
B638	CS3 - IPE300	4,167	NC15	<b>-76,710</b>	-0,008	3,404	0,001	-3,445	0,057
B638	CS3 - IPE300	0,000	NC9	<b>6,985</b>	-0,014	2,108	0,009	0,000	0,000
B638	CS3 - IPE300	4,167	NC5	-19,962	<b>-0,120</b>	-39,243	0,005	3,220	0,009
B638	CS3 - IPE300	4,167	NC3	6,729	<b>0,208</b>	-39,235	0,009	3,254	-0,139
B638	CS3 - IPE300	5,500	NC2	0,028	0,097	<b>-81,554</b>	0,015	<b>-101,058</b>	0,076
B638	CS3 - IPE300	4,167	NC16	-76,680	-0,009	<b>3,404</b>	0,001	-3,445	0,057
B638	CS3 - IPE300	0,000	NC16	-76,673	0,014	-0,050	<b>0,001</b>	0,000	0,000
B638	CS3 - IPE300	0,000	NC2	0,016	-0,013	2,776	<b>0,015</b>	0,000	0,000
B638	CS3 - IPE300	4,167	NC2	0,016	-0,013	0,705	0,015	<b>7,251</b>	-0,053
B638	CS3 - IPE300	5,500	NC5	-19,962	-0,120	-39,906	0,005	-49,552	<b>-0,151</b>
B638	CS3 - IPE300	5,500	NC3	6,729	0,208	-39,898	0,009	-49,508	<b>0,138</b>
B652	CS3 - IPE300	0,000	NC13	<b>-61,399</b>	-0,005	-3,395	0,000	-4,997	-0,069
B652	CS3 - IPE300	0,000	NC3	<b>80,780</b>	-0,092	-6,801	0,001	-9,546	0,056
B652	CS3 - IPE300	0,000	NC16	-60,316	<b>-0,195</b>	-3,855	<b>0,000</b>	-4,681	-0,076
B652	CS3 - IPE300	0,000	NC9	-48,244	<b>0,144</b>	-7,500	0,002	-13,932	-0,024
B652	CS3 - IPE300	3,250	NC2	18,996	0,007	<b>-15,998</b>	0,003	<b>-68,869</b>	-0,080
B652	CS3 - IPE300	0,000	NC18	-60,641	0,117	<b>-1,156</b>	0,000	-5,280	-0,024
B652	CS3 - IPE300	0,000	NC2	18,996	0,007	-14,382	<b>0,003</b>	-19,501	-0,101
B652	CS3 - IPE300	0,000	NC12	73,346	-0,086	-2,361	0,000	<b>-3,550</b>	0,049
B652	CS3 - IPE300	3,250	NC8	-56,367	-0,191	-8,831	0,001	-35,315	<b>-0,724</b>
B652	CS3 - IPE300	3,250	NC9	-48,244	0,144	-9,116	0,002	-40,932	<b>0,445</b>
B658	CS3 - IPE300	4,167	NC18	<b>-193,224</b>	0,100	-7,141	0,000	19,815	0,024
B658	CS3 - IPE300	0,000	NC3	<b>57,197</b>	-0,005	21,926	-0,004	-34,287	0,183
B658	CS3 - IPE300	0,000	NC16	-95,288	<b>-0,065</b>	12,047	0,000	-19,180	0,203
B658	CS3 - IPE300	0,000	NC10	-189,078	<b>0,193</b>	18,371	-0,002	-27,112	<b>-0,758</b>
B658	CS3 - IPE300	8,333	NC2	19,274	0,029	<b>-42,161</b>	-0,009	-63,155	0,185
B658	CS3 - IPE300	0,000	NC2	19,264	0,056	<b>43,538</b>	<b>-0,009</b>	<b>-68,894</b>	-0,170
B658	CS3 - IPE300	0,000	NC18	-193,223	0,182	8,175	<b>0,000</b>	-11,011	-0,736
B658	CS3 - IPE300	4,167	NC2	19,264	0,056	41,467	-0,009	<b>108,192</b>	0,064
B658	CS3 - IPE300	8,333	NC10	-189,074	0,101	-18,577	-0,002	-27,971	<b>0,467</b>
B668	CS8 - HEA400	8,335	NC9	<b>-211,126</b>	0,028	-65,685	0,011	63,666	-1,265
B668	CS8 - HEA400	4,168	NC8	<b>181,996</b>	-0,154	-22,662	-0,120	66,476	-1,979



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B668	CS8 - HEA400	19,823	NC3	-84,400	<b>-1,614</b>	91,426	0,046	-162,368	1,121
B668	CS8 - HEA400	24,999	NC15	51,744	<b>1,217</b>	14,969	0,222	-10,640	-4,558
B668	CS8 - HEA400	11,490	NC2	-182,345	0,588	<b>-170,869</b>	-0,017	-256,487	-0,085
B668	CS8 - HEA400	19,823	NC2	-183,014	-0,582	<b>237,197</b>	-0,013	-443,351	1,381
B668	CS8 - HEA400	24,999	NC2	2,972	0,066	5,053	<b>-0,213</b>	318,873	-0,584
B668	CS8 - HEA400	24,999	NC16	51,644	1,210	15,105	<b>0,222</b>	-11,777	-4,539
B668	CS8 - HEA400	19,823	NC2	-183,014	-0,582	-134,764	-0,013	<b>-443,351</b>	1,379
B668	CS8 - HEA400	24,999	NC2	-183,078	-0,297	155,242	-0,013	<b>454,972</b>	-0,446
B668	CS8 - HEA400	24,999	NC3	-84,495	-1,059	48,273	0,046	143,089	<b>-4,921</b>
B668	CS8 - HEA400	16,668	NC3	-84,400	-1,250	-47,458	0,046	-5,324	<b>5,057</b>
B1046	CS7 - HEA500	8,333	NC2	<b>-159,174</b>	0,801	-168,092	-0,064	762,210	-3,623
B1046	CS7 - HEA500	8,333	NC18	<b>20,126</b>	0,815	99,826	0,038	-432,751	-3,022
B1046	CS7 - HEA500	8,333	NC16	-92,998	<b>-3,386</b>	<b>112,170</b>	0,034	-493,494	<b>14,979</b>
B1046	CS7 - HEA500	0,000	NC11	-67,399	<b>1,153</b>	-9,119	-0,066	0,000	0,000
B1046	CS7 - HEA500	16,666	NC2	-159,174	0,801	<b>-183,340</b>	-0,064	<b>-702,031</b>	3,053
B1046	CS7 - HEA500	0,000	NC14	-27,850	-0,573	-15,706	<b>-0,113</b>	0,000	0,000
B1046	CS7 - HEA500	0,000	NC2	-124,901	-0,538	100,207	<b>0,073</b>	0,000	0,000
B1046	CS7 - HEA500	8,333	NC2	-124,901	-0,538	84,960	0,073	<b>771,499</b>	-4,485
B1046	CS7 - HEA500	16,666	NC16	-92,998	-3,386	100,735	0,034	393,577	<b>-13,233</b>
B1532	CS3 - IPE300	0,000	NC7	<b>-225,152</b>	-0,148	18,906	<b>0,000</b>	-26,817	0,629
B1532	CS3 - IPE300	0,000	NC12	<b>44,436</b>	0,098	7,262	<b>0,000</b>	-9,263	-0,386
B1532	CS3 - IPE300	4,167	NC7	-225,052	<b>-0,234</b>	-21,886	0,000	47,638	0,014
B1532	CS3 - IPE300	4,167	NC3	42,573	<b>0,110</b>	-22,265	0,000	48,393	0,019
B1532	CS3 - IPE300	8,333	NC2	-13,843	-0,008	<b>-48,637</b>	0,000	<b>-98,771</b>	-0,041
B1532	CS3 - IPE300	0,000	NC2	-13,841	0,015	<b>36,841</b>	0,000	-49,626	-0,072
B1532	CS3 - IPE300	4,167	NC2	-13,841	0,015	34,770	0,000	<b>99,558</b>	-0,008
B1532	CS3 - IPE300	8,333	NC7	-225,052	-0,234	-23,957	0,000	-47,864	<b>-0,961</b>
B1532	CS3 - IPE300	0,000	NC16	-224,043	-0,152	10,273	0,000	-15,199	<b>0,648</b>
B1596	CS26 - HEA360	0,000	NC18	<b>-65,615</b>	-0,850	-32,967	0,000	190,795	3,686
B1596	CS26 - HEA360	0,000	NC6	<b>10,746</b>	-1,125	5,158	0,000	-8,983	4,645
B1596	CS26 - HEA360	0,000	NC9	-33,525	<b>-1,128</b>	3,726	0,000	3,873	4,739
B1596	CS26 - HEA360	0,000	NC3	8,008	<b>1,246</b>	10,327	0,000	-29,890	<b>-5,176</b>
B1596	CS26 - HEA360	16,666	NC2	-0,519	0,156	<b>-74,754</b>	0,000	<b>-402,499</b>	1,014
B1596	CS26 - HEA360	0,000	NC2	-0,755	-0,125	<b>64,676</b>	0,000	-318,467	0,757
B1596	CS26 - HEA360	0,000	NC16	-3,970	-0,595	-33,510	<b>-0,001</b>	190,245	0,527
B1596	CS26 - HEA360	8,333	NC9	-32,847	0,970	5,129	<b>0,000</b>	-10,956	-4,657
B1596	CS26 - HEA360	16,666	NC16	-7,096	0,783	38,911	-0,001	<b>235,281</b>	2,089
B1596	CS26 - HEA360	8,333	NC3	8,008	1,246	-0,685	0,000	10,282	<b>5,204</b>
B1597	CS26 - HEA360	13,511	NC18	<b>-79,857</b>	-0,162	33,914	0,000	-248,194	1,351
B1597	CS26 - HEA360	8,335	NC6	<b>10,691</b>	1,392	1,351	0,000	0,188	-0,975
B1597	CS26 - HEA360	5,180	NC12	4,117	<b>-1,121</b>	12,396	0,000	6,117	3,999
B1597	CS26 - HEA360	8,335	NC8	-13,748	<b>1,539</b>	-24,992	-0,001	60,462	-0,931
B1597	CS26 - HEA360	13,511	NC18	-54,468	0,500	<b>-85,749</b>	0,000	-247,813	1,352
B1597	CS26 - HEA360	8,335	NC2	1,086	0,149	<b>116,781</b>	0,000	-248,552	0,005
B1597	CS26 - HEA360	0,000	NC16	-21,009	-0,971	-57,955	<b>-0,001</b>	301,805	-0,490
B1597	CS26 - HEA360	5,180	NC9	-22,713	0,685	13,225	<b>0,000</b>	-1,554	-3,792
B1597	CS26 - HEA360	0,000	NC2	0,380	-0,027	83,335	0,000	<b>-467,513</b>	-0,324
B1597	CS26 - HEA360	13,511	NC2	0,109	-0,093	-35,139	0,000	<b>338,692</b>	0,777
B1597	CS26 - HEA360	5,180	NC7	-8,881	1,538	26,931	-0,001	-19,992	<b>-5,780</b>
B1597	CS26 - HEA360	13,511	NC8	-13,748	1,539	-31,832	-0,001	-86,599	<b>7,034</b>
B1608	CS7 - HEA500	0,000	NC12	<b>-63,224</b>	2,989	-9,556	0,004	70,249	-12,137
B1608	CS7 - HEA500	8,333	NC9	<b>31,324</b>	1,245	-2,966	0,017	20,370	-5,648
B1608	CS7 - HEA500	0,000	NC15	-15,043	<b>-2,450</b>	-64,021	0,028	381,986	8,460
B1608	CS7 - HEA500	0,000	NC3	-60,781	<b>3,051</b>	20,537	-0,008	-83,015	<b>-12,371</b>
B1608	CS7 - HEA500	16,666	NC2	-2,001	0,706	<b>-134,491</b>	0,088	-691,311	4,681
B1608	CS7 - HEA500	0,000	NC2	-0,735	-0,593	<b>134,772</b>	-0,050	<b>-693,035</b>	2,831
B1608	CS7 - HEA500	8,333	NC14	28,470	-0,674	30,783	<b>-0,111</b>	-54,261	-1,024
B1608	CS7 - HEA500	8,333	NC2	-2,001	0,706	-119,244	<b>0,088</b>	365,877	-1,198
B1608	CS7 - HEA500	0,000	NC16	-14,537	-2,448	-64,674	0,028	<b>385,688</b>	8,457
B1608	CS7 - HEA500	8,333	NC3	-60,781	3,051	5,290	-0,008	24,597	<b>13,051</b>
B1609	CS7 - HEA500	13,511	NC9	<b>-119,244</b>	-0,126	8,478	0,019	-7,123	1,048
B1609	CS7 - HEA500	5,180	NC8	<b>69,936</b>	1,892	55,897	-0,025	8,333	-8,041
B1609	CS7 - HEA500	8,335	NC4	-25,179	<b>-2,964</b>	36,896	-0,032	-78,129	2,776
B1609	CS7 - HEA500	5,180	NC13	19,687	<b>4,015</b>	31,243	-0,009	20,966	-16,588
B1609	CS7 - HEA500	8,335	NC2	-25,608	-1,313	<b>-146,495</b>	0,004	-497,340	1,661
B1609	CS7 - HEA500	8,335	NC2	-25,608	-1,313	<b>222,297</b>	0,004	-497,340	1,663
B1609	CS7 - HEA500	0,000	NC2	-0,264	0,927	158,171	<b>-0,091</b>	<b>-832,348</b>	0,335
B1609	CS7 - HEA500	13,511	NC5	-12,923	-0,581	11,368	<b>0,155</b>	-31,199	4,840
B1609	CS7 - HEA500	13,511	NC2	-25,608	-1,313	212,827	0,004	<b>628,761</b>	-5,135
B1609	CS7 - HEA500	5,180	NC18	-66,567	3,940	86,338	-0,017	18,833	<b>-16,622</b>
B1609	CS7 - HEA500	13,511	NC18	-62,530	3,940	-130,548	-0,017	-372,934	<b>16,193</b>
B1610	CS7 - HEA500	16,668	NC18	<b>-80,221</b>	-0,128	<b>189,271</b>	0,068	-144,680	-1,151
B1610	CS7 - HEA500	8,333	NC13	<b>82,367</b>	0,949	27,193	0,116	-209,370	-5,257
B1610	CS7 - HEA500	0,000	NC2	-44,527	<b>-3,502</b>	176,918	<b>0,159</b>	-698,827	<b>13,785</b>
B1610	CS7 - HEA500	0,000	NC18	0,781	<b>2,226</b>	-85,446	-0,107	366,453	-9,172
B1610	CS7 - HEA500	19,821	NC2	-0,264	0,927	<b>-343,632</b>	-0,091	<b>-832,348</b>	0,339



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1610	CS7 - HEA500	8,333	NC2	-76,270	1,463	-50,068	<b>-0,139</b>	703,363	-8,788
B1610	CS7 - HEA500	8,333	NC2	-44,527	-3,502	161,671	0,159	<b>711,906</b>	<b>-15,397</b>
B1611	CS7 - HEA500	8,333	NC2	<b>-114,972</b>	-1,379	-53,551	0,053	734,935	7,151
B1611	CS7 - HEA500	8,333	NC12	<b>78,096</b>	-0,547	20,029	-0,012	-181,204	3,290
B1611	CS7 - HEA500	0,000	NC18	-36,442	<b>-3,574</b>	-89,614	0,063	379,766	<b>14,249</b>
B1611	CS7 - HEA500	8,333	NC16	-28,145	<b>3,877</b>	38,213	-0,033	-398,620	<b>-18,230</b>
B1611	CS7 - HEA500	19,821	NC2	-18,831	-0,612	<b>-353,179</b>	0,083	<b>-859,715</b>	-1,199
B1611	CS7 - HEA500	16,668	NC18	-107,381	-1,208	<b>194,697</b>	-0,039	-144,589	5,672
B1611	CS7 - HEA500	0,000	NC2	-82,986	1,927	184,699	<b>-0,103</b>	-732,135	-7,484
B1611	CS7 - HEA500	16,668	NC2	-18,831	-0,612	-347,410	<b>0,083</b>	244,764	0,730
B1611	CS7 - HEA500	8,333	NC2	-82,986	1,927	169,452	-0,103	<b>743,434</b>	8,574
B1612	CS7 - HEA500	13,511	NC9	<b>-109,031</b>	-0,015	6,289	-0,030	11,124	0,123
B1612	CS7 - HEA500	13,511	NC16	<b>32,645</b>	-0,495	41,036	-0,090	-294,306	4,128
B1612	CS7 - HEA500	5,180	NC12	11,906	<b>-3,531</b>	42,902	0,010	6,871	14,098
B1612	CS7 - HEA500	8,335	NC7	-13,611	<b>4,672</b>	-48,603	-0,002	115,465	-3,673
B1612	CS7 - HEA500	8,335	NC2	-49,956	1,964	<b>-145,645</b>	-0,049	-497,218	-2,297
B1612	CS7 - HEA500	8,335	NC2	-49,956	1,964	<b>223,288</b>	-0,049	-497,218	-2,302
B1612	CS7 - HEA500	13,511	NC11	-4,612	0,458	27,182	<b>-0,122</b>	-178,861	-3,819
B1612	CS7 - HEA500	0,000	NC2	-18,831	-0,612	163,213	<b>0,083</b>	<b>-859,715</b>	-1,197
B1612	CS7 - HEA500	13,511	NC2	-49,956	1,964	213,818	-0,049	<b>634,013</b>	7,866
B1612	CS7 - HEA500	5,180	NC7	-9,276	4,672	43,983	-0,002	-14,194	<b>-18,398</b>
B1612	CS7 - HEA500	13,511	NC7	-13,611	4,672	-58,073	-0,002	-160,613	<b>20,507</b>
B1613	CS7 - HEA500	8,333	NC8	<b>-95,665</b>	2,219	46,994	0,015	-125,474	-9,801
B1613	CS7 - HEA500	0,000	NC11	<b>30,843</b>	2,832	-23,770	-0,011	145,399	-11,453
B1613	CS7 - HEA500	0,000	NC18	-13,283	<b>-3,542</b>	-60,133	-0,019	333,965	<b>15,300</b>
B1613	CS7 - HEA500	0,000	NC3	25,145	<b>3,012</b>	5,676	-0,001	0,420	-12,376
B1613	CS7 - HEA500	16,666	NC2	-12,381	-0,568	<b>-140,487</b>	-0,051	<b>-725,359</b>	-3,391
B1613	CS7 - HEA500	0,000	NC2	-15,387	0,219	<b>132,786</b>	<b>0,044</b>	-661,759	-1,048
B1613	CS7 - HEA500	8,333	NC2	-12,381	-0,568	-125,240	<b>-0,051</b>	<b>381,793</b>	1,344
B1613	CS7 - HEA500	8,333	NC18	-13,283	-3,542	-71,568	-0,019	-214,764	<b>-14,216</b>
B1614	CS7 - HEA500	8,333	NC2	<b>-182,031</b>	-0,466	-170,379	0,071	812,011	2,340
B1614	CS7 - HEA500	8,333	NC18	<b>-11,159</b>	0,426	98,967	-0,042	-440,273	-1,157
B1614	CS7 - HEA500	0,000	NC18	-38,774	<b>-1,308</b>	-48,041	0,049	0,000	0,000
B1614	CS7 - HEA500	0,000	NC3	-43,859	<b>1,185</b>	4,156	0,135	0,000	0,000
B1614	CS7 - HEA500	16,666	NC2	-182,031	-0,466	<b>-185,626</b>	0,071	<b>-671,281</b>	-1,543
B1614	CS7 - HEA500	0,000	NC2	-143,911	0,408	<b>106,313</b>	<b>-0,064</b>	0,000	0,000
B1614	CS7 - HEA500	0,000	NC11	-28,908	0,996	-19,074	<b>0,155</b>	0,000	0,000
B1614	CS7 - HEA500	8,333	NC2	-143,911	0,408	91,066	-0,064	<b>822,381</b>	3,402
B1614	CS7 - HEA500	8,333	NC18	-38,774	-1,308	-59,476	0,049	-447,968	<b>-10,896</b>
B1614	CS7 - HEA500	8,333	NC3	-43,859	1,185	-11,091	0,135	-28,894	<b>9,873</b>
B1615	CS26 - HEA360	8,333	NC18	<b>-62,146</b>	0,475	25,729	0,000	-261,094	-2,172
B1615	CS26 - HEA360	16,668	NC6	<b>9,996</b>	-0,668	15,919	0,000	-13,216	0,412
B1615	CS26 - HEA360	16,668	NC7	-3,451	<b>-1,016</b>	78,653	-0,001	-49,450	2,692
B1615	CS26 - HEA360	8,333	NC9	-27,489	<b>0,868</b>	4,489	0,000	2,832	-4,163
B1615	CS26 - HEA360	19,821	NC2	0,380	-0,027	<b>-185,510</b>	0,000	<b>-467,513</b>	-0,323
B1615	CS26 - HEA360	16,668	NC16	-16,902	-0,971	<b>121,156</b>	<b>-0,001</b>	-75,274	2,574
B1615	CS26 - HEA360	0,000	NC9	-27,862	-0,911	7,538	<b>0,000</b>	-14,091	<b>3,426</b>
B1615	CS26 - HEA360	8,333	NC2	0,651	-0,257	94,495	0,000	<b>430,860</b>	-1,124
B1615	CS26 - HEA360	8,333	NC7	-2,652	0,830	20,106	-0,001	-170,796	<b>-4,228</b>

### 3.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - Long. beams

#### Algehele eenheidscontrole

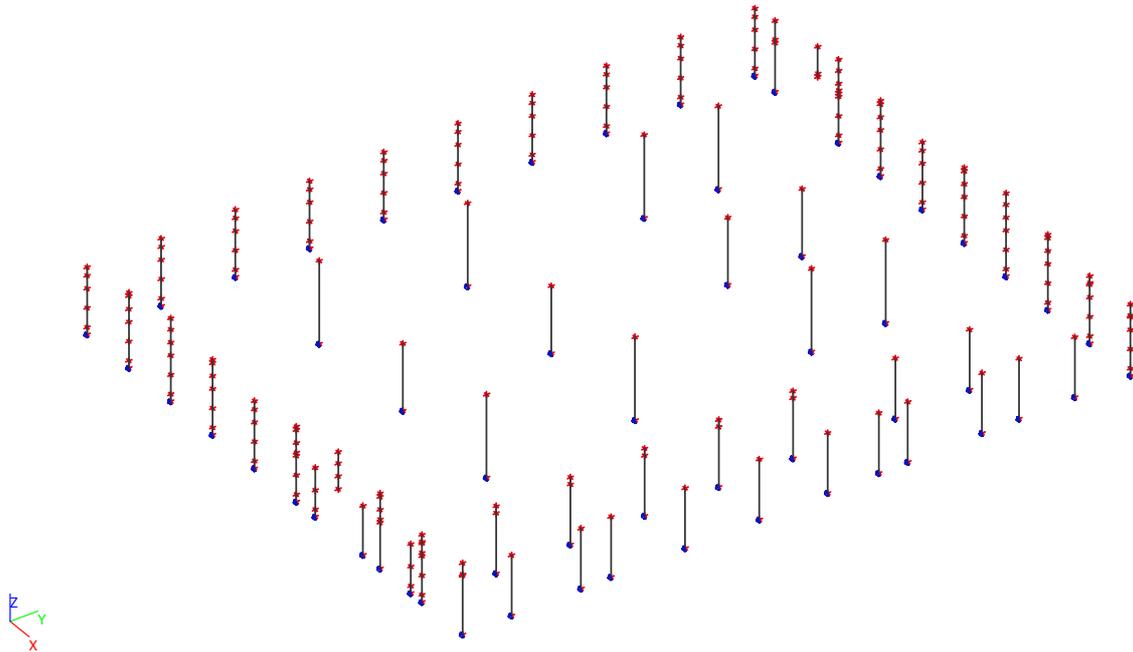
Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B72	8,333-	NC2	CS26 - HEA360	S 355	<b>0,67</b>	0,53	0,67
B638	5,500	NC2	CS3 - IPE300	S 355	<b>0,75</b>	0,45	0,75
B652	3,250	NC2	CS3 - IPE300	S 355	<b>0,49</b>	0,31	0,49
B658	4,167-	NC9	CS3 - IPE300	S 355	<b>0,72</b>	0,30	0,72
B668	19,823+	NC2	CS8 - HEA400	S 355	<b>0,60</b>	0,49	0,60
B1046	8,333-	NC2	CS7 - HEA500	S 355	<b>0,82</b>	0,55	0,82
B1532	0,000	NC8	CS3 - IPE300	S 355	<b>0,68</b>	0,28	0,68
B1596	16,666	NC2	CS26 - HEA360	S 355	<b>0,64</b>	0,54	0,64
B1597	0,000	NC2	CS26 - HEA360	S 355	<b>0,86</b>	0,63	0,86
B1608	16,666	NC2	CS7 - HEA500	S 355	<b>0,60</b>	0,49	0,60
B1609	0,000	NC2	CS7 - HEA500	S 355	<b>0,90</b>	0,59	0,90
B1610	19,821	NC2	CS7 - HEA500	S 355	<b>0,84</b>	0,59	0,84
B1611	19,821	NC2	CS7 - HEA500	S 355	<b>0,87</b>	0,61	0,87
B1612	0,000	NC2	CS7 - HEA500	S 355	<b>0,93</b>	0,61	0,93
B1613	16,666	NC2	CS7 - HEA500	S 355	<b>0,63</b>	0,52	0,63
B1614	8,333-	NC2	CS7 - HEA500	S 355	<b>0,87</b>	0,59	0,87



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B1615	19,821	NC2	CS26 - HEA360	S 355	<b>0,86</b>	0,63	0,86

## 4.) Kolommen

### 4.1. Analysemodel



### 4.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1	13,500	6,800	-0,500
N2	13,500	6,800	8,820
N3	0,000	6,800	-0,500
N4	0,000	6,800	7,040
N5	27,000	6,800	-0,500
N6	27,000	6,800	7,040
N11	13,500	23,466	-0,500
N13	0,000	31,799	-0,500
N14	0,000	31,799	7,040
N15	27,000	23,466	-0,500
N17	40,500	23,466	-0,500
N19	54,000	31,799	-0,500
N20	54,000	31,799	7,040
N21	6,750	6,800	-0,500
N22	6,750	6,800	7,930
N23	20,250	6,800	-0,500
N24	20,250	6,800	7,930
N31	40,500	6,800	4,650
N32	40,500	6,800	8,820
N33	47,250	6,800	-0,500
N34	47,250	6,800	7,930
N35	33,750	6,800	-0,500
N36	33,750	6,800	7,930
N40	54,000	6,800	-0,500
N41	54,000	6,800	7,040
N43	0,000	23,466	7,040
N45	54,000	23,466	-0,500
N46	54,000	23,466	7,040
N47	0,000	23,466	-0,500
N48	13,500	23,466	8,820
N49	27,000	23,466	7,040
N50	40,500	23,466	8,820
N51	0,000	15,133	7,040
N53	54,000	15,133	-0,500
N54	54,000	15,133	7,040
N55	0,000	15,133	-0,500
N160	0,000	40,132	7,040
N162	54,000	40,132	-0,500
N163	54,000	40,132	7,040
N164	0,000	40,132	-0,500
N165	13,500	40,132	8,820

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N166	27,000	40,132	7,040
N167	40,500	40,132	8,820
N233	0,000	56,800	-0,500
N234	0,000	56,800	7,040
N250	0,000	48,465	7,040
N252	54,000	48,465	-0,500
N253	54,000	48,465	7,040
N254	0,000	48,465	-0,500
N321	13,500	81,797	-0,500
N322	13,500	81,797	8,820
N323	0,000	81,797	-0,500
N324	0,000	81,797	7,040
N325	27,000	81,797	-0,500
N326	27,000	81,797	7,040
N327	40,500	81,797	-0,500
N328	40,500	81,797	8,820
N329	54,000	81,797	-0,500
N330	54,000	81,797	7,040
N332	0,000	73,464	7,040
N336	0,000	73,464	-0,500
N340	0,000	65,133	7,040
N342	54,000	68,288	-0,500
N344	0,000	65,133	-0,500
N378	20,250	81,797	7,930
N393	47,250	81,797	7,930
N408	33,750	81,797	7,930
N412	6,750	6,800	7,550
N413	20,250	6,800	7,550
N415	13,500	6,800	7,550
N416	33,750	6,800	7,550
N417	40,500	6,800	7,550
N419	47,250	6,800	7,550
N420	0,000	6,800	6,100
N421	6,750	6,800	6,100
N422	13,500	6,800	6,100
N423	20,250	6,800	6,100
N424	27,000	6,800	6,100
N425	33,750	6,800	6,100
N426	40,500	6,800	6,100
N427	47,250	6,800	6,100
N428	54,000	6,800	6,100



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N429	0,000	6,800	4,650
N430	6,750	6,800	4,650
N431	13,500	6,800	4,650
N432	20,250	6,800	4,650
N433	27,000	6,800	4,650
N434	33,750	6,800	4,650
N436	47,250	6,800	4,650
N437	54,000	6,800	4,650
N438	54,000	6,800	2,475
N441	33,750	6,800	2,475
N442	27,000	6,800	2,475
N443	20,250	6,800	2,475
N444	13,500	6,800	2,475
N445	6,750	6,800	2,475
N446	0,000	6,800	2,475
N447	54,000	6,800	0,300
N450	33,750	6,800	0,300
N451	27,000	6,800	0,300
N452	20,250	6,800	0,300
N453	13,500	6,800	0,300
N454	6,750	6,800	0,300
N455	0,000	6,800	0,300
N466	20,250	81,797	7,550
N468	13,500	81,797	7,550
N469	33,750	81,797	7,550
N470	40,500	81,797	7,550
N472	47,250	81,797	7,550
N473	0,000	81,797	6,100
N475	13,500	81,797	6,100
N476	20,250	81,797	6,100
N477	27,000	81,797	6,100
N478	33,750	81,797	6,100
N479	40,500	81,797	6,100
N480	47,250	81,797	6,100
N481	54,000	81,797	6,100
N482	0,000	81,797	4,650
N484	13,500	81,797	4,650
N485	20,250	81,797	4,650
N486	27,000	81,797	4,650
N487	33,750	81,797	4,650
N488	40,500	81,797	4,650
N489	47,250	81,797	4,650
N490	54,000	81,797	4,650
N491	54,000	81,797	2,475
N492	47,250	81,797	2,475
N493	40,500	81,797	2,475
N494	33,750	81,797	2,475
N495	27,000	81,797	2,475
N496	20,250	81,797	2,475
N497	13,500	81,797	2,475
N499	0,000	81,797	2,475
N500	54,000	81,797	0,300
N501	47,250	81,797	0,300
N502	40,500	81,797	0,300
N503	33,750	81,797	0,300
N504	27,000	81,797	0,300
N505	20,250	81,797	0,300
N506	13,500	81,797	0,300
N508	0,000	81,797	0,300
N510	20,250	81,797	-0,500
N511	33,750	81,797	-0,500
N512	47,250	81,797	-0,500
N524	0,000	73,464	6,100
N525	0,000	65,133	6,100
N526	0,000	56,800	6,100
N528	0,000	48,465	6,100
N531	0,000	40,132	6,100
N532	0,000	31,799	6,100
N533	0,000	23,466	6,100
N534	0,000	15,133	6,100
N535	0,000	73,464	4,650
N536	0,000	65,133	4,650
N537	0,000	56,800	4,650
N539	0,000	48,465	4,650
N542	0,000	40,132	4,650
N543	0,000	31,799	4,650

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N544	0,000	23,466	4,650
N545	0,000	15,133	4,650
N546	0,000	73,464	2,475
N547	0,000	65,133	2,475
N548	0,000	56,800	2,475
N550	0,000	48,465	2,475
N553	0,000	40,132	2,475
N554	0,000	31,799	2,475
N555	0,000	23,466	2,475
N556	0,000	15,133	2,475
N557	0,000	73,464	0,300
N558	0,000	65,133	0,300
N559	0,000	56,800	0,300
N561	0,000	48,465	0,300
N564	0,000	40,132	0,300
N565	0,000	31,799	0,300
N566	0,000	23,466	0,300
N567	0,000	15,133	0,300
N590	60,550	6,800	-0,500
N591	60,550	6,800	6,250
N592	60,550	23,466	-0,500
N597	54,000	23,466	6,250
N601	54,000	6,800	5,000
N602	60,550	81,797	-0,500
N603	60,550	81,797	6,250
N608	60,550	40,132	6,250
N612	60,550	40,132	-0,500
N616	60,550	56,800	6,250
N620	60,550	56,800	-0,500
N626	60,550	6,800	7,500
N628	60,550	81,797	7,500
N629	60,550	81,797	4,650
N630	60,550	81,797	2,475
N631	60,550	81,797	0,300
N723	3,250	81,797	5,000
N744	36,795	6,800	-0,500
N745	36,795	6,800	5,000
N746	44,495	6,800	-0,500
N747	44,495	6,800	5,000
N748	36,795	6,800	2,475
N749	36,795	6,800	0,300
N750	52,200	6,800	-0,500
N751	52,200	6,800	5,000
N752	52,200	6,800	2,475
N753	52,200	6,800	0,300
N756	33,750	6,800	5,000
N757	47,250	6,800	5,000
N1281	54,000	6,800	6,250
N1284	54,000	31,799	6,250
N1285	54,000	15,133	6,250
N1286	54,000	81,797	6,250
N1287	54,000	40,132	6,250
N1288	54,000	48,465	6,250
N1293	60,550	23,466	6,250
N1294	60,550	65,133	-0,500
N1295	60,550	65,133	6,250
N1296	60,550	69,299	-0,500
N1297	60,550	69,298	6,250
N1299	40,500	40,132	-0,500
N1300	27,000	40,132	-0,500
N1301	13,500	40,132	-0,500
N1302	13,500	59,953	-0,500
N1303	13,500	59,953	8,820
N1304	27,000	59,953	-0,500
N1305	27,000	59,953	7,040
N1306	40,500	59,953	-0,500
N1307	40,500	59,953	8,820
N1308	40,500	68,288	-0,500
N1309	40,500	68,288	8,820
N1310	27,000	68,288	-0,500
N1311	27,000	68,288	7,040
N1312	13,500	68,288	-0,500
N1313	13,500	68,288	8,820
N1314	54,000	68,288	6,250
N1315	54,000	59,955	-0,500
N1316	54,000	59,955	6,250



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1828	3,250	81,797	-0,500
N1829	3,250	81,797	7,469
N1834	13,500	81,797	5,000
N1835	3,250	81,797	5,350
N1836	13,500	81,797	5,350

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1837	10,125	81,797	5,000
N1838	10,125	81,797	8,375
N1840	10,125	81,797	5,350
N1842	60,550	6,800	6,100
N1843	60,550	81,797	6,100

### 4.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B1	CS23 - HEA220	Columns	9,320	Lijn	N1 N2	Kolom (100) standaard
B2	CS2 - HEA240	Columns	7,540	Lijn	N3 N4	Kolom (100) standaard
B3	CS23 - HEA220	Columns	7,540	Lijn	N5 N6	Kolom (100) standaard
B10	CS1 - HEA280	Columns	9,320	Lijn	N11 N48	Kolom (100) standaard
B11	CS23 - HEA220	Columns	7,540	Lijn	N13 N14	Kolom (100) standaard
B12	CS18 - HEA220	Columns	7,540	Lijn	N15 N49	Kolom (100) standaard
B15	CS1 - HEA280	Columns	9,320	Lijn	N17 N50	Kolom (100) standaard
B16	CS23 - HEA220	Columns	7,540	Lijn	N19 N20	Kolom (100) standaard
B19	CS23 - HEA220	Columns	8,430	Lijn	N21 N22	Kolom (100) standaard
B20	CS23 - HEA220	Columns	8,430	Lijn	N23 N24	Kolom (100) standaard
B33	CS17 - HEA160	Columns	4,170	Lijn	N31 N32	Kolom (100) standaard
B36	CS20 - HEA260	Columns	8,430	Lijn	N33 N34	Kolom (100) standaard
B37	CS20 - HEA260	Columns	8,430	Lijn	N35 N36	Kolom (100) standaard
B47	CS51 - HEA220	Columns	7,540	Lijn	N40 N41	Kolom (100) standaard
B49	CS31 - HEA200	Columns	7,540	Lijn	N47 N43	Kolom (100) standaard
B54	CS23 - HEA220	Columns	7,540	Lijn	N45 N46	Kolom (100) standaard
B56	CS2 - HEA240	Columns	7,540	Lijn	N55 N51	Kolom (100) standaard
B61	CS23 - HEA220	Columns	7,540	Lijn	N53 N54	Kolom (100) standaard
B151	CS2 - HEA240	Columns	7,540	Lijn	N164 N160	Kolom (100) standaard
B156	CS23 - HEA220	Columns	7,540	Lijn	N162 N163	Kolom (100) standaard
B250	CS2 - HEA240	Columns	7,540	Lijn	N252 N253	Kolom (100) standaard
B322	CS2 - HEA240	Columns	9,320	Lijn	N321 N322	Kolom (100) standaard
B323	CS23 - HEA220	Columns	7,540	Lijn	N323 N324	Kolom (100) standaard
B324	CS23 - HEA220	Columns	7,540	Lijn	N325 N326	Kolom (100) standaard
B327	CS2 - HEA240	Columns	9,320	Lijn	N327 N328	Kolom (100) standaard
B328	CS23 - HEA220	Columns	7,540	Lijn	N329 N330	Kolom (100) standaard
B332	CS23 - HEA220	Columns	7,540	Lijn	N336 N332	Kolom (100) standaard
B339	CS31 - HEA200	Columns	7,540	Lijn	N344 N340	Kolom (100) standaard
B344	CS23 - HEA220	Columns	6,750	Lijn	N342 N1314	Kolom (100) standaard
B532	CS2 - HEA240	Columns	8,430	Lijn	N510 N378	Kolom (100) standaard
B535	CS23 - HEA220	Columns	8,430	Lijn	N511 N408	Kolom (100) standaard
B538	CS2 - HEA240	Columns	8,430	Lijn	N512 N393	Kolom (100) standaard
B636	CS50 - HEA160	Columns	8,000	Lijn	N590	Kolom (100)

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
					N626	standaard
B637	CS23 - HEA220	Columns	6,750	Lijn	N592 N1293	Kolom (100) standaard
B644	CS50 - HEA160	Columns	8,000	Lijn	N602 N628	Kolom (100) standaard
B649	CS23 - HEA220	Columns	6,750	Lijn	N612 N608	Kolom (100) standaard
B655	CS23 - HEA220	Columns	6,750	Lijn	N620 N616	Kolom (100) standaard
B961	CS17 - HEA160	Columns	5,500	Lijn	N744 N745	Kolom (100) standaard
B962	CS17 - HEA160	Columns	5,500	Lijn	N746 N747	Kolom (100) standaard
B963	CS17 - HEA160	Columns	5,500	Lijn	N750 N751	Kolom (100) standaard
B1587	CS2 - HEA240	Columns	7,540	Lijn	N254 N250	Kolom (100) standaard
B1588	CS23 - HEA220	Columns	7,540	Lijn	N233 N234	Kolom (100) standaard
B1593	CS21 - HEA180	Columns	6,750	Lijn	N1294 N1295	Kolom (100) standaard
B1594	CS50 - HEA160	Columns	6,750	Lijn	N1296 N1297	Kolom (100) standaard
B1598	CS1 - HEA280	Columns	9,320	Lijn	N1299 N167	Kolom (100) standaard
B1599	CS18 - HEA220	Columns	7,540	Lijn	N1300 N166	Kolom (100) standaard
B1600	CS1 - HEA280	Columns	9,320	Lijn	N1301 N165	Kolom (100) standaard
B1601	CS1 - HEA280	Columns	9,320	Lijn	N1302 N1303	Kolom (100) standaard
B1602	CS18 - HEA220	Columns	7,540	Lijn	N1304 N1305	Kolom (100) standaard
B1603	CS1 - HEA280	Columns	9,320	Lijn	N1306 N1307	Kolom (100) standaard
B1604	CS1 - HEA280	Columns	9,320	Lijn	N1308 N1309	Kolom (100) standaard
B1605	CS18 - HEA220	Columns	7,540	Lijn	N1310 N1311	Kolom (100) standaard
B1606	CS1 - HEA280	Columns	9,320	Lijn	N1312 N1313	Kolom (100) standaard
B1607	CS23 - HEA220	Columns	6,750	Lijn	N1315 N1316	Kolom (100) standaard
B2267	CS23 - HEA220	Columns	7,969	Lijn	N1828 N1829	Kolom (100) standaard
B2271	CS4 - HEA140	Columns	3,375	Lijn	N1837 N1838	Kolom (100) standaard

#### 4.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Columns  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1	CS23 - HEA220	0,000	NC2	<b>-184,263</b>	-0,007	-0,001	0,000	0,000	0,000
B1	CS23 - HEA220	9,320	NC16	<b>89,346</b>	0,004	<b>-27,776</b>	0,000	-9,356	0,037
B1	CS23 - HEA220	0,000	NC5	-35,998	<b>-0,011</b>	-9,554	0,010	0,000	0,000
B1	CS23 - HEA220	0,000	NC3	-17,472	<b>0,026</b>	-15,143	<b>-0,016</b>	0,000	0,000
B1	CS23 - HEA220	8,050	NC3	-8,621	0,004	<b>24,222</b>	-0,003	-24,847	0,129
B1	CS23 - HEA220	0,000	NC13	0,650	-0,006	-9,551	<b>0,010</b>	0,000	0,000
B1	CS23 - HEA220	5,150	NC12	23,210	0,017	-3,742	-0,004	<b>-48,632</b>	0,105
B1	CS23 - HEA220	5,150	NC8	48,720	0,002	3,778	0,000	<b>49,133</b>	0,011
B1	CS23 - HEA220	9,320	NC2	-174,902	-0,007	0,000	0,000	-0,004	<b>-0,064</b>
B1	CS23 - HEA220	9,320	NC11	27,126	0,007	24,219	-0,003	5,911	<b>0,153</b>
B2	CS2 - HEA240	0,000	NC9	<b>-170,266</b>	3,706	-5,829	-0,001	0,000	0,000
B2	CS2 - HEA240	7,540	NC12	<b>-3,706</b>	-15,557	-15,050	0,003	-20,813	-13,233
B2	CS2 - HEA240	6,600	NC11	-4,206	<b>-15,557</b>	-15,050	0,003	-6,668	1,390
B2	CS2 - HEA240	7,540	NC7	-93,980	<b>11,791</b>	29,764	0,000	18,717	14,626
B2	CS2 - HEA240	0,000	NC15	-93,093	-7,070	<b>-22,799</b>	0,000	0,000	0,000
B2	CS2 - HEA240	6,600	NC7	-94,647	11,789	<b>29,764</b>	0,000	-9,261	3,543
B2	CS2 - HEA240	5,150	NC13	-126,569	-4,371	7,204	<b>-0,001</b>	0,423	7,057
B2	CS2 - HEA240	6,600	NC4	-10,728	-15,555	-15,046	<b>0,004</b>	-6,658	1,393
B2	CS2 - HEA240	2,975	NC15	-89,359	2,685	4,409	-0,001	<b>-45,903</b>	-13,386
B2	CS2 - HEA240	7,540	NC6	-132,975	-6,900	10,341	-0,001	<b>20,494</b>	-5,784



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2	CS2 - HEA240	7,540	NC9	-159,144	-8,087	8,696	0,000	8,586	<b>-14,331</b>
B2	CS2 - HEA240	2,975	NC4	-16,173	-2,767	-3,595	0,003	15,628	<b>21,436</b>
B3	CS23 - HEA220	0,000	NC5	<b>-165,894</b>	-0,010	-9,708	-0,002	0,000	0,000
B3	CS23 - HEA220	7,540	NC18	<b>28,908</b>	0,000	15,928	0,000	28,468	0,000
B3	CS23 - HEA220	7,540	NC3	-138,319	<b>-0,014</b>	13,809	0,002	11,595	-0,012
B3	CS23 - HEA220	7,540	NC6	-155,595	<b>0,014</b>	13,823	-0,003	11,716	0,012
B3	CS23 - HEA220	7,540	NC16	-111,975	0,000	<b>-23,319</b>	0,000	<b>-28,507</b>	-0,001
B3	CS23 - HEA220	7,540	NC10	4,693	0,000	<b>15,938</b>	0,000	<b>28,482</b>	0,000
B3	CS23 - HEA220	5,150	NC14	-131,338	0,005	8,761	<b>-0,003</b>	-14,123	-0,009
B3	CS23 - HEA220	5,150	NC11	-115,237	-0,005	8,752	<b>0,003</b>	-14,251	0,009
B3	CS23 - HEA220	2,975	NC5	-162,860	-0,003	-5,091	-0,002	-19,112	<b>-0,017</b>
B3	CS23 - HEA220	2,975	NC4	-144,354	0,003	-5,104	0,002	-19,224	<b>0,017</b>
B10	CS1 - HEA280	0,000	NC2	<b>-641,889</b>	0,000	0,000	-0,001	0,000	0,000
B10	CS1 - HEA280	9,320	NC18	<b>322,351</b>	0,000	0,008	0,001	0,000	0,000
B10	CS1 - HEA280	0,000	NC5	-95,558	<b>-0,010</b>	0,000	-0,004	0,000	0,000
B10	CS1 - HEA280	0,000	NC3	4,401	<b>0,010</b>	0,000	0,005	0,000	0,000
B10	CS1 - HEA280	0,000	NC9	-63,795	0,000	<b>-0,010</b>	0,000	0,000	0,000
B10	CS1 - HEA280	0,000	NC7	173,033	0,000	<b>0,010</b>	-0,006	0,000	0,000
B10	CS1 - HEA280	0,000	NC16	312,562	0,000	0,008	<b>-0,006</b>	0,000	0,000
B10	CS1 - HEA280	0,000	NC11	143,685	0,008	0,000	<b>0,005</b>	0,000	0,000
B10	CS1 - HEA280	4,349	NC9	-59,885	0,000	-0,001	0,000	<b>-0,024</b>	0,000
B10	CS1 - HEA280	4,349	NC7	176,944	0,000	0,001	-0,006	<b>0,024</b>	0,000
B10	CS1 - HEA280	4,349	NC5	-91,647	-0,001	0,000	-0,004	0,000	<b>-0,024</b>
B10	CS1 - HEA280	4,349	NC3	8,312	0,001	0,000	0,005	0,000	<b>0,024</b>
B11	CS23 - HEA220	0,000	NC2	<b>-100,042</b>	-0,002	-0,009	-0,002	0,000	0,000
B11	CS23 - HEA220	7,540	NC16	<b>46,353</b>	0,006	38,834	-0,006	18,475	-0,034
B11	CS23 - HEA220	0,000	NC8	19,701	<b>-0,019</b>	-29,585	-0,004	0,000	0,000
B11	CS23 - HEA220	0,000	NC10	16,226	<b>0,021</b>	-10,984	0,006	0,000	0,000
B11	CS23 - HEA220	0,000	NC16	38,451	-0,015	<b>-29,586</b>	-0,004	0,000	0,000
B11	CS23 - HEA220	6,600	NC7	29,049	0,009	<b>38,836</b>	-0,007	-18,024	-0,042
B11	CS23 - HEA220	0,800	NC8	21,580	-0,014	-17,092	<b>-0,008</b>	-25,241	-0,014
B11	CS23 - HEA220	0,800	NC18	36,418	0,014	-5,858	<b>0,008</b>	-9,409	0,014
B11	CS23 - HEA220	2,975	NC16	40,830	-0,009	-17,093	-0,008	<b>-62,419</b>	-0,034
B11	CS23 - HEA220	7,540	NC13	9,755	-0,001	20,016	0,000	<b>38,907</b>	0,001
B11	CS23 - HEA220	5,150	NC8	25,549	-0,001	4,512	-0,008	-52,581	<b>-0,048</b>
B11	CS23 - HEA220	5,150	NC10	22,079	0,001	3,069	0,008	-15,436	<b>0,054</b>
B12	CS18 - HEA220	0,000	NC2	<b>-310,052</b>	0,000	0,000	0,000	0,000	0,000
B12	CS18 - HEA220	7,540	NC16	<b>205,303</b>	0,000	-0,004	-0,004	0,000	0,000
B12	CS18 - HEA220	0,000	NC5	-0,199	<b>-0,006</b>	0,000	-0,003	0,000	0,000
B12	CS18 - HEA220	0,000	NC3	-21,644	<b>0,006</b>	0,000	0,004	0,000	0,000
B12	CS18 - HEA220	0,000	NC9	-20,135	0,000	<b>-0,006</b>	-0,002	0,000	0,000
B12	CS18 - HEA220	0,000	NC7	131,530	0,000	<b>0,006</b>	-0,004	0,000	0,000
B12	CS18 - HEA220	0,000	NC16	201,943	0,000	0,004	<b>-0,004</b>	0,000	0,000
B12	CS18 - HEA220	0,000	NC11	47,045	0,004	0,000	<b>0,004</b>	0,000	0,000
B12	CS18 - HEA220	3,770	NC9	-17,894	0,000	0,000	-0,002	<b>-0,011</b>	0,000
B12	CS18 - HEA220	3,770	NC7	133,770	0,000	0,000	-0,004	<b>0,011</b>	0,000
B12	CS18 - HEA220	3,770	NC5	2,041	0,000	0,000	-0,003	0,000	<b>-0,011</b>
B12	CS18 - HEA220	3,770	NC3	-19,404	0,000	0,000	0,004	0,000	<b>0,011</b>
B15	CS1 - HEA280	0,000	NC2	<b>-639,599</b>	0,000	0,000	0,001	0,000	0,000
B15	CS1 - HEA280	9,320	NC16	<b>346,925</b>	0,000	-0,008	-0,004	0,000	0,000
B15	CS1 - HEA280	0,000	NC5	-25,006	<b>-0,010</b>	0,000	-0,004	0,000	0,000
B15	CS1 - HEA280	0,000	NC3	-79,881	<b>0,010</b>	0,000	0,004	0,000	0,000
B15	CS1 - HEA280	0,000	NC9	-47,756	0,000	<b>-0,010</b>	-0,003	0,000	0,000
B15	CS1 - HEA280	0,000	NC7	198,576	0,000	<b>0,010</b>	-0,004	0,000	0,000
B15	CS1 - HEA280	0,000	NC13	115,393	-0,008	0,000	<b>-0,005</b>	0,000	0,000
B15	CS1 - HEA280	0,000	NC4	-79,135	0,010	0,000	<b>0,005</b>	0,000	0,000
B15	CS1 - HEA280	4,349	NC9	-43,846	0,000	-0,001	-0,003	<b>-0,024</b>	0,000
B15	CS1 - HEA280	4,349	NC7	202,486	0,000	0,001	-0,004	<b>0,024</b>	0,000
B15	CS1 - HEA280	4,349	NC5	-21,096	-0,001	0,000	-0,004	0,000	<b>-0,024</b>
B15	CS1 - HEA280	4,349	NC3	-75,970	0,001	0,000	0,004	0,000	<b>0,024</b>
B16	CS23 - HEA220	0,000	NC2	<b>-228,373</b>	-0,201	0,478	-0,005	0,000	0,000
B16	CS23 - HEA220	7,540	NC16	<b>42,575</b>	-14,581	-5,375	0,060	-3,981	-0,456
B16	CS23 - HEA220	6,750	NC15	41,611	<b>-14,597</b>	-5,432	0,060	0,310	<b>11,076</b>
B16	CS23 - HEA220	6,750	NC9	-2,148	<b>8,800</b>	-6,399	<b>-0,043</b>	2,130	<b>-6,629</b>
B16	CS23 - HEA220	6,750	NC5	-4,957	-6,572	<b>-8,524</b>	0,019	<b>11,108</b>	5,049
B16	CS23 - HEA220	6,750	NC12	3,561	5,383	<b>13,485</b>	-0,016	<b>-13,186</b>	-4,129
B16	CS23 - HEA220	6,750	NC16	42,223	-14,582	-5,375	<b>0,060</b>	0,265	11,063
B19	CS23 - HEA220	0,000	NC3	<b>-130,115</b>	0,011	-12,993	0,001	0,000	0,000
B19	CS23 - HEA220	8,430	NC15	<b>33,549</b>	0,000	-30,854	-0,001	-16,732	-0,001
B19	CS23 - HEA220	8,430	NC4	-122,921	<b>-0,020</b>	28,890	0,001	11,264	-0,006
B19	CS23 - HEA220	8,430	NC6	-6,590	<b>0,020</b>	16,907	0,001	6,359	0,006
B19	CS23 - HEA220	8,430	NC8	23,044	0,000	<b>-30,857</b>	-0,001	-16,733	-0,001
B19	CS23 - HEA220	8,050	NC4	-123,147	-0,019	<b>28,890</b>	0,001	0,286	0,001
B19	CS23 - HEA220	0,000	NC7	15,172	0,000	10,849	<b>-0,001</b>	0,000	0,000
B19	CS23 - HEA220	0,000	NC11	-115,998	0,008	-12,996	<b>0,002</b>	0,000	0,000
B19	CS23 - HEA220	5,150	NC11	-112,754	0,000	-1,670	0,001	<b>-32,807</b>	0,020



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B19	CS23 - HEA220	5,150	NC7	19,474	0,000	1,093	-0,001	<b>26,220</b>	0,000
B19	CS23 - HEA220	5,150	NC6	-10,057	0,000	-1,161	0,000	-18,899	<b>-0,027</b>
B19	CS23 - HEA220	5,150	NC4	-125,325	0,000	-1,667	0,001	-32,798	<b>0,026</b>
B20	CS23 - HEA220	0,000	NC5	<b>-113,978</b>	-0,013	-12,120	0,000	0,000	0,000
B20	CS23 - HEA220	8,430	NC11	<b>12,957</b>	-0,012	22,684	0,000	8,253	-0,003
B20	CS23 - HEA220	8,430	NC4	1,960	<b>-0,016</b>	22,664	0,000	8,229	-0,006
B20	CS23 - HEA220	8,430	NC6	-102,371	<b>0,016</b>	17,435	0,000	6,443	0,006
B20	CS23 - HEA220	8,430	NC8	-73,081	0,000	<b>-32,247</b>	0,000	-16,762	0,003
B20	CS23 - HEA220	8,430	NC9	-40,238	0,000	<b>24,236</b>	0,000	16,742	0,001
B20	CS23 - HEA220	0,800	NC12	5,758	0,006	-9,746	<b>-0,001</b>	-12,547	0,007
B20	CS23 - HEA220	2,975	NC5	-109,677	-0,002	0,060	<b>0,001</b>	-25,833	-0,024
B20	CS23 - HEA220	2,975	NC3	-6,345	0,005	-9,767	-0,001	<b>-33,775</b>	0,024
B20	CS23 - HEA220	2,975	NC15	-68,205	0,000	11,376	0,000	<b>39,615</b>	0,001
B20	CS23 - HEA220	4,280	NC5	-108,902	0,000	0,060	0,001	-25,755	<b>-0,025</b>
B20	CS23 - HEA220	4,280	NC3	-4,303	0,000	0,070	-0,001	-33,674	<b>0,025</b>
B33	CS17 - HEA160	0,350	NC2	<b>-170,179</b>	0,105	0,070	0,000	-0,071	-0,474
B33	CS17 - HEA160	4,170	NC16	<b>121,494</b>	-0,587	13,687	0,000	8,925	-0,030
B33	CS17 - HEA160	0,000	NC3	0,240	<b>-3,201</b>	-1,213	0,000	0,045	0,000
B33	CS17 - HEA160	0,000	NC16	0,895	<b>6,324</b>	2,120	0,000	-0,520	0,000
B33	CS17 - HEA160	4,170	NC18	62,079	0,176	<b>-11,735</b>	0,000	<b>-8,814</b>	0,095
B33	CS17 - HEA160	4,170	NC8	87,430	-0,553	<b>13,695</b>	0,000	<b>8,931</b>	-0,041
B33	CS17 - HEA160	2,900	NC6	12,436	-0,199	-9,891	<b>-0,001</b>	7,059	0,345
B33	CS17 - HEA160	2,900	NC12	-10,018	0,260	-6,356	<b>0,001</b>	4,600	-0,266
B33	CS17 - HEA160	0,350	NC3	0,366	-3,201	-1,213	0,000	-0,380	<b>-1,120</b>
B33	CS17 - HEA160	0,350	NC16	0,989	6,324	2,121	0,000	0,222	<b>2,214</b>
B36	CS20 - HEA260	5,500	NC2	<b>-64,395</b>	-0,646	-0,006	0,000	-0,173	1,892
B36	CS20 - HEA260	8,430	NC16	<b>34,271</b>	-4,760	<b>26,363</b>	-0,001	16,442	-0,001
B36	CS20 - HEA260	5,500	NC15	30,473	<b>-4,790</b>	4,967	-0,001	-17,664	14,035
B36	CS20 - HEA260	5,150	NC15	-2,894	<b>7,415</b>	-0,809	-0,001	-17,385	11,440
B36	CS20 - HEA260	8,050	NC6	-5,473	-2,058	<b>-20,321</b>	-0,001	-2,867	0,776
B36	CS20 - HEA260	0,000	NC13	-18,809	0,974	2,770	<b>-0,004</b>	0,000	0,000
B36	CS20 - HEA260	0,000	NC9	-6,637	-0,903	0,257	<b>0,000</b>	0,000	0,000
B36	CS20 - HEA260	5,150	NC16	-4,736	2,208	-3,432	-0,001	<b>-17,696</b>	11,369
B36	CS20 - HEA260	8,430	NC15	34,082	-4,790	26,360	-0,001	<b>16,442</b>	-0,001
B36	CS20 - HEA260	5,500	NC3	-4,196	-3,533	-0,489	0,000	3,491	<b>-6,642</b>
B36	CS20 - HEA260	5,500	NC15	-2,683	7,415	-0,808	-0,001	-17,668	<b>14,035</b>
B37	CS20 - HEA260	0,000	NC3	<b>-118,631</b>	-1,726	11,753	0,000	0,000	0,000
B37	CS20 - HEA260	8,430	NC16	<b>36,406</b>	-7,221	57,088	0,001	17,281	0,000
B37	CS20 - HEA260	5,500	NC16	32,798	<b>-7,221</b>	35,695	0,001	-105,813	21,157
B37	CS20 - HEA260	5,150	NC16	6,162	<b>11,696</b>	-7,478	0,001	-103,191	17,064
B37	CS20 - HEA260	0,000	NC7	-4,494	2,941	<b>-28,612</b>	0,001	0,000	0,000
B37	CS20 - HEA260	8,430	NC7	25,089	-6,411	<b>57,232</b>	0,001	17,296	0,000
B37	CS20 - HEA260	5,150	NC3	-112,052	-6,104	-1,413	<b>-0,001</b>	33,661	-8,846
B37	CS20 - HEA260	5,150	NC14	2,413	4,912	-1,504	<b>0,003</b>	40,619	7,286
B37	CS20 - HEA260	5,500	NC7	20,260	-6,411	35,836	0,001	<b>-106,184</b>	18,783
B37	CS20 - HEA260	5,150	NC14	1,636	1,410	3,543	0,002	<b>40,679</b>	7,286
B37	CS20 - HEA260	5,500	NC3	-111,771	-6,103	-1,413	-0,001	33,167	<b>-10,982</b>
B37	CS20 - HEA260	5,500	NC16	6,373	11,696	-7,477	0,001	-105,808	<b>21,157</b>
B47	CS51 - HEA220	0,000	NC2	<b>-127,458</b>	-0,470	0,342	0,000	0,000	0,000
B47	CS51 - HEA220	7,540	NC18	<b>11,417</b>	-15,157	-21,530	-0,001	14,590	-1,434
B47	CS51 - HEA220	5,500	NC16	9,478	<b>-19,874</b>	-37,404	0,003	-18,416	-2,928
B47	CS51 - HEA220	6,750	NC15	8,767	<b>31,771</b>	<b>69,441</b>	0,003	<b>-69,075</b>	<b>-27,824</b>
B47	CS51 - HEA220	6,750	NC15	10,960	-19,843	<b>-45,470</b>	0,003	-69,054	-27,811
B47	CS51 - HEA220	0,000	NC10	-35,277	0,431	-2,734	<b>-0,001</b>	0,000	0,000
B47	CS51 - HEA220	5,500	NC11	-21,000	8,127	13,281	<b>0,003</b>	7,477	1,717
B47	CS51 - HEA220	6,750	NC9	-3,196	-17,211	-24,517	0,000	<b>33,957</b>	12,072
B47	CS51 - HEA220	6,750	NC4	-4,962	-18,729	-26,311	0,002	26,656	<b>12,921</b>
B49	CS31 - HEA200	0,000	NC2	<b>-100,891</b>	0,007	0,058	<b>0,007</b>	0,000	0,000
B49	CS31 - HEA200	7,540	NC16	<b>47,507</b>	-0,001	44,651	-0,008	24,799	-0,078
B49	CS31 - HEA200	0,000	NC7	19,948	<b>-0,022</b>	-35,078	-0,007	0,000	0,000
B49	CS31 - HEA200	0,000	NC9	-12,283	<b>0,017</b>	-11,661	0,004	0,000	0,000
B49	CS31 - HEA200	0,000	NC16	39,793	-0,020	<b>-35,096</b>	-0,008	0,000	0,000
B49	CS31 - HEA200	6,600	NC7	29,765	0,003	<b>44,669</b>	-0,008	-17,153	-0,074
B49	CS31 - HEA200	6,600	NC15	46,481	-0,002	44,651	<b>-0,009</b>	-17,173	-0,079
B49	CS31 - HEA200	2,975	NC16	42,075	-0,014	-19,465	-0,006	<b>-69,523</b>	-0,048
B49	CS31 - HEA200	7,540	NC5	-6,988	0,001	20,264	0,001	<b>38,857</b>	0,005
B49	CS31 - HEA200	7,540	NC15	46,832	-0,001	44,651	-0,009	24,800	<b>-0,080</b>
B49	CS31 - HEA200	7,540	NC2	-90,606	0,007	0,058	0,007	0,119	<b>0,049</b>
B54	CS23 - HEA220	0,000	NC2	<b>-228,280</b>	-0,133	1,310	-0,011	0,000	0,000
B54	CS23 - HEA220	7,540	NC16	<b>41,171</b>	-17,404	5,251	0,073	-4,429	-0,553
B54	CS23 - HEA220	6,750	NC15	40,135	<b>-17,433</b>	5,144	0,074	-8,496	<b>13,215</b>
B54	CS23 - HEA220	6,750	NC9	-4,292	<b>9,861</b>	1,714	-0,045	-3,951	<b>-7,452</b>
B54	CS23 - HEA220	6,750	NC2	-70,742	1,259	<b>-11,690</b>	-0,011	<b>8,857</b>	-0,910
B54	CS23 - HEA220	6,750	NC18	40,172	9,174	<b>7,213</b>	-0,039	-8,120	-6,955
B54	CS23 - HEA220	0,000	NC9	-104,468	-1,095	-0,584	<b>-0,045</b>	0,000	0,000
B54	CS23 - HEA220	0,000	NC15	-2,880	1,951	-1,258	<b>0,074</b>	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B54	CS23 - HEA220	6,750	NC16	40,818	-17,405	5,251	0,073	<b>-8,577</b>	13,197
B56	CS2 - HEA240	0,000	NC2	<b>-114,889</b>	<b>-0,039</b>	-0,095	<b>-0,039</b>	0,000	0,000
B56	CS2 - HEA240	7,540	NC18	<b>47,972</b>	0,009	17,222	0,023	16,367	<b>0,157</b>
B56	CS2 - HEA240	0,000	NC18	39,056	<b>0,032</b>	-11,826	0,023	0,000	0,000
B56	CS2 - HEA240	0,000	NC7	-104,098	-0,005	<b>-40,014</b>	0,006	0,000	0,000
B56	CS2 - HEA240	6,600	NC16	-75,502	0,023	<b>51,002</b>	0,010	-19,048	0,077
B56	CS2 - HEA240	2,975	NC18	43,091	0,022	3,210	<b>0,023</b>	-22,878	0,082
B56	CS2 - HEA240	2,975	NC7	-98,719	0,009	7,090	0,005	<b>-80,487</b>	0,003
B56	CS2 - HEA240	7,540	NC13	10,121	0,003	20,111	0,003	<b>38,385</b>	0,022
B56	CS2 - HEA240	7,540	NC2	-103,001	-0,039	-0,095	-0,039	-0,205	<b>-0,295</b>
B61	CS23 - HEA220	0,000	NC2	<b>-243,304</b>	-0,127	-2,138	0,034	0,000	0,000
B61	CS23 - HEA220	7,540	NC16	<b>50,572</b>	-16,656	2,037	0,044	-5,129	-0,335
B61	CS23 - HEA220	6,750	NC15	49,967	<b>-16,665</b>	2,154	0,042	-6,829	12,843
B61	CS23 - HEA220	6,750	NC9	-1,952	<b>9,737</b>	-7,463	-0,046	3,213	-7,346
B61	CS23 - HEA220	6,750	NC18	49,408	9,310	<b>-17,711</b>	<b>-0,062</b>	<b>11,045</b>	-6,886
B61	CS23 - HEA220	6,750	NC2	-85,743	0,759	<b>18,888</b>	0,034	<b>-14,452</b>	-0,855
B61	CS23 - HEA220	6,750	NC8	31,819	-16,096	6,892	<b>0,048</b>	-10,447	12,349
B61	CS23 - HEA220	6,750	NC9	-98,139	-1,093	0,476	-0,046	3,213	<b>-7,346</b>
B61	CS23 - HEA220	6,750	NC15	44,074	1,906	-1,013	0,042	-6,841	<b>12,843</b>
B151	CS2 - HEA240	0,000	NC9	<b>-159,332</b>	<b>0,016</b>	-10,086	0,007	0,000	0,000
B151	CS2 - HEA240	7,540	NC16	<b>46,728</b>	0,004	38,914	-0,009	18,292	-0,053
B151	CS2 - HEA240	0,000	NC7	17,979	<b>-0,019</b>	-26,180	-0,010	0,000	0,000
B151	CS2 - HEA240	7,540	NC12	1,717	-0,001	<b>-29,425</b>	-0,001	-39,891	-0,010
B151	CS2 - HEA240	6,600	NC8	28,917	0,007	<b>38,921</b>	-0,009	-18,278	-0,054
B151	CS2 - HEA240	2,975	NC15	41,195	-0,008	4,590	<b>-0,010</b>	-62,834	-0,041
B151	CS2 - HEA240	6,600	NC9	-150,138	-0,007	17,558	<b>0,007</b>	0,195	0,048
B151	CS2 - HEA240	2,975	NC16	41,847	-0,008	4,590	-0,010	<b>-62,834</b>	-0,041
B151	CS2 - HEA240	7,540	NC6	-17,768	0,001	20,089	0,001	<b>39,070</b>	0,006
B151	CS2 - HEA240	5,150	NC7	23,968	-0,004	4,597	-0,010	-52,832	<b>-0,056</b>
B151	CS2 - HEA240	5,150	NC9	-154,436	0,004	3,546	0,007	-16,214	<b>0,050</b>
B156	CS23 - HEA220	0,000	NC2	<b>-226,173</b>	-0,279	2,352	-0,003	0,000	0,000
B156	CS23 - HEA220	7,540	NC18	<b>39,688</b>	5,628	12,046	-0,033	-3,038	0,251
B156	CS23 - HEA220	6,750	NC15	38,361	<b>-11,186</b>	11,824	<b>0,050</b>	-12,479	<b>8,452</b>
B156	CS23 - HEA220	6,750	NC9	-3,329	<b>7,289</b>	0,115	-0,037	-2,830	<b>-5,482</b>
B156	CS23 - HEA220	6,750	NC2	-68,632	2,423	<b>-19,516</b>	-0,003	15,862	-1,888
B156	CS23 - HEA220	6,750	NC18	39,336	5,629	<b>12,046</b>	-0,033	-12,555	-4,195
B156	CS23 - HEA220	0,000	NC9	-103,499	-0,805	-0,419	<b>-0,037</b>	0,000	0,000
B156	CS23 - HEA220	6,750	NC18	10,559	-0,624	-1,861	-0,033	<b>-12,562</b>	-4,183
B156	CS23 - HEA220	6,750	NC2	-222,162	-0,279	2,352	-0,003	<b>15,874</b>	-1,887
B250	CS2 - HEA240	0,000	NC2	<b>-270,797</b>	-0,440	12,018	<b>0,007</b>	0,000	0,000
B250	CS2 - HEA240	7,540	NC16	<b>56,462</b>	-7,524	-32,786	0,002	<b>-90,359</b>	-0,370
B250	CS2 - HEA240	6,750	NC15	55,360	<b>-7,528</b>	-32,723	0,002	-64,227	5,578
B250	CS2 - HEA240	6,750	NC9	-2,822	<b>5,887</b>	-3,661	0,001	-6,062	-4,268
B250	CS2 - HEA240	6,750	NC16	56,042	-7,525	<b>-32,786</b>	0,002	-64,458	5,575
B250	CS2 - HEA240	6,750	NC2	-91,873	4,108	<b>36,599</b>	0,007	80,999	-2,968
B250	CS2 - HEA240	0,000	NC12	-36,710	-0,285	0,871	<b>-0,001</b>	0,000	0,000
B250	CS2 - HEA240	7,540	NC2	-91,313	4,108	36,599	0,007	<b>109,912</b>	0,277
B250	CS2 - HEA240	6,750	NC9	-112,245	-0,638	-0,905	0,001	-6,106	<b>-4,268</b>
B250	CS2 - HEA240	6,750	NC15	21,232	0,831	-9,535	0,001	-64,364	<b>5,578</b>
B322	CS2 - HEA240	5,500	NC2	<b>-171,700</b>	5,330	0,004	0,000	0,016	-1,956
B322	CS2 - HEA240	9,320	NC18	<b>74,967</b>	1,063	38,973	0,003	8,861	0,090
B322	CS2 - HEA240	5,850	NC12	37,431	<b>-3,139</b>	-8,020	-0,003	63,283	2,222
B322	CS2 - HEA240	5,500	NC7	-10,760	<b>11,015</b>	-12,352	-0,003	95,183	-8,239
B322	CS2 - HEA240	9,320	NC7	-6,498	1,283	<b>-37,712</b>	-0,003	-8,874	0,070
B322	CS2 - HEA240	9,320	NC17	20,879	0,541	<b>39,038</b>	0,003	8,830	0,051
B322	CS2 - HEA240	0,000	NC6	-54,953	-0,470	8,822	<b>-0,015</b>	0,000	0,000
B322	CS2 - HEA240	0,000	NC4	-1,820	0,542	13,825	<b>0,019</b>	0,000	0,000
B322	CS2 - HEA240	5,150	NC9	-17,980	-0,730	-11,005	0,003	<b>-100,072</b>	-3,744
B322	CS2 - HEA240	5,150	NC7	-16,334	-1,501	10,403	-0,003	<b>96,026</b>	-7,713
B322	CS2 - HEA240	5,500	NC15	10,206	-1,653	2,522	-0,003	95,265	<b>-9,078</b>
B322	CS2 - HEA240	5,500	NC11	36,839	0,599	2,166	-0,003	66,186	<b>3,330</b>
B323	CS23 - HEA220	0,000	NC7	<b>-144,587</b>	-5,875	-10,635	-0,006	0,000	0,000
B323	CS23 - HEA220	7,540	NC18	<b>-0,159</b>	-6,764	27,666	0,004	17,484	-13,014
B323	CS23 - HEA220	7,540	NC9	-0,774	<b>-6,910</b>	17,146	0,005	17,302	-13,008
B323	CS23 - HEA220	6,600	NC12	-5,488	<b>7,099</b>	-14,619	-0,010	-6,824	5,006
B323	CS23 - HEA220	7,540	NC11	-5,071	7,099	<b>-14,629</b>	-0,010	-20,567	11,679
B323	CS23 - HEA220	6,600	NC18	-0,578	-6,763	<b>27,666</b>	0,004	-8,522	-6,657
B323	CS23 - HEA220	5,150	NC11	-6,848	4,970	-7,116	<b>-0,013</b>	3,599	-3,312
B323	CS23 - HEA220	2,975	NC9	-5,539	-2,812	3,978	<b>0,005</b>	-14,774	8,138
B323	CS23 - HEA220	2,975	NC15	-136,853	2,734	2,196	-0,007	<b>-23,022</b>	-7,845
B323	CS23 - HEA220	7,540	NC5	-18,768	2,408	16,125	0,002	<b>20,437</b>	4,837
B323	CS23 - HEA220	7,540	NC10	-0,343	-6,831	23,058	0,004	17,401	<b>-13,014</b>
B323	CS23 - HEA220	7,540	NC16	-132,490	6,980	22,794	-0,005	8,875	<b>13,112</b>
B324	CS23 - HEA220	0,000	NC3	<b>-170,978</b>	0,010	9,773	-0,003	0,000	0,000
B324	CS23 - HEA220	7,540	NC16	<b>-3,296</b>	0,000	<b>-33,509</b>	-0,001	-29,579	0,001
B324	CS23 - HEA220	7,540	NC4	-160,783	<b>-0,014</b>	-13,757	-0,003	-11,512	-0,012



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B324	CS23 - HEA220	7,540	NC5	-113,428	<b>0,014</b>	-13,769	0,003	-11,611	0,012
B324	CS23 - HEA220	7,540	NC9	-77,515	0,000	<b>34,246</b>	0,001	29,756	0,000
B324	CS23 - HEA220	5,150	NC3	-164,119	-0,007	-8,715	<b>-0,004</b>	14,257	0,012
B324	CS23 - HEA220	2,975	NC6	-118,658	0,001	-2,418	<b>0,003</b>	19,499	-0,017
B324	CS23 - HEA220	2,975	NC18	-17,578	0,000	5,958	0,001	<b>-47,595</b>	0,000
B324	CS23 - HEA220	2,975	NC7	-32,494	0,000	-5,905	-0,001	<b>46,222</b>	0,000
B324	CS23 - HEA220	2,975	NC6	-119,924	-0,003	5,145	0,003	19,298	<b>-0,017</b>
B324	CS23 - HEA220	2,975	NC3	-167,944	0,003	5,156	-0,004	19,301	<b>0,017</b>
B327	CS2 - HEA240	0,000	NC2	<b>-160,042</b>	0,000	-0,028	0,000	0,000	0,000
B327	CS2 - HEA240	9,320	NC18	<b>88,842</b>	-0,003	<b>38,464</b>	0,000	9,029	-0,032
B327	CS2 - HEA240	0,000	NC5	-27,545	<b>-0,032</b>	22,640	-0,001	0,000	0,000
B327	CS2 - HEA240	0,000	NC4	-32,633	<b>0,013</b>	14,143	0,000	0,000	0,000
B327	CS2 - HEA240	9,320	NC7	6,118	-0,004	<b>-37,541</b>	-0,001	-8,964	-0,042
B327	CS2 - HEA240	5,150	NC5	-20,091	-0,014	-6,945	<b>-0,003</b>	57,365	-0,123
B327	CS2 - HEA240	6,600	NC3	-22,855	-0,012	-9,387	<b>0,001</b>	29,596	0,009
B327	CS2 - HEA240	5,150	NC9	0,945	-0,002	-4,876	0,001	<b>-89,315</b>	-0,010
B327	CS2 - HEA240	5,150	NC8	0,299	-0,004	4,758	-0,001	<b>87,091</b>	-0,023
B327	CS2 - HEA240	9,320	NC5	-14,599	0,000	-24,664	-0,002	-5,532	<b>-0,152</b>
B327	CS2 - HEA240	3,410	NC4	-27,680	0,000	1,963	0,001	32,593	<b>0,023</b>
B328	CS23 - HEA220	0,000	NC3	<b>-176,963</b>	0,938	4,558	0,018	0,000	0,000
B328	CS23 - HEA220	7,540	NC18	<b>10,288</b>	35,713	-31,962	-0,064	15,064	-2,978
B328	CS23 - HEA220	7,540	NC4	-114,870	<b>-10,572</b>	18,902	0,014	-5,706	-1,505
B328	CS23 - HEA220	6,750	NC18	9,936	<b>35,713</b>	-31,962	<b>-0,064</b>	<b>40,314</b>	-31,191
B328	CS23 - HEA220	6,750	NC7	-47,674	0,089	<b>-36,691</b>	-0,009	-32,817	0,613
B328	CS23 - HEA220	6,750	NC18	9,261	-4,626	<b>38,711</b>	-0,064	40,298	<b>-31,209</b>
B328	CS23 - HEA220	0,000	NC2	-160,097	1,192	-1,514	<b>0,100</b>	0,000	0,000
B328	CS23 - HEA220	6,750	NC7	2,083	-3,479	21,619	-0,008	<b>-32,833</b>	0,792
B328	CS23 - HEA220	6,750	NC2	-152,458	1,192	-1,545	0,100	-10,471	<b>8,048</b>
B332	CS23 - HEA220	0,000	NC9	<b>-158,997</b>	0,011	-15,848	-0,005	0,000	0,000
B332	CS23 - HEA220	7,540	NC16	<b>51,298</b>	-0,013	39,231	-0,024	18,944	<b>-0,175</b>
B332	CS23 - HEA220	0,000	NC16	43,894	<b>-0,032</b>	-26,026	-0,010	0,000	0,000
B332	CS23 - HEA220	0,000	NC2	-112,292	<b>0,040</b>	-0,036	<b>0,040</b>	0,000	0,000
B332	CS23 - HEA220	7,540	NC4	-33,846	-0,009	<b>-29,540</b>	-0,009	-39,624	-0,067
B332	CS23 - HEA220	6,600	NC8	32,344	-0,006	<b>39,232</b>	-0,019	-17,883	-0,129
B332	CS23 - HEA220	0,000	NC18	-105,883	-0,012	-15,867	<b>-0,025</b>	0,000	0,000
B332	CS23 - HEA220	2,975	NC15	46,089	-0,024	4,911	-0,022	<b>-62,741</b>	-0,083
B332	CS23 - HEA220	7,540	NC13	9,903	-0,004	20,118	-0,004	<b>38,513</b>	-0,030
B332	CS23 - HEA220	7,540	NC2	-102,441	0,040	-0,046	0,040	-0,157	<b>0,304</b>
B339	CS31 - HEA200	0,000	NC2	<b>-98,931</b>	-0,008	0,031	<b>-0,008</b>	0,000	0,000
B339	CS31 - HEA200	7,540	NC16	<b>46,277</b>	0,009	38,963	-0,001	19,425	-0,010
B339	CS31 - HEA200	0,000	NC7	19,989	<b>-0,016</b>	-27,480	0,006	0,000	0,000
B339	CS31 - HEA200	0,000	NC10	16,944	<b>0,023</b>	-10,314	0,007	0,000	0,000
B339	CS31 - HEA200	7,540	NC11	2,110	0,001	<b>-29,426</b>	0,002	-39,990	0,019
B339	CS31 - HEA200	6,600	NC8	29,596	0,011	<b>38,969</b>	-0,002	-17,190	-0,026
B339	CS31 - HEA200	0,800	NC18	36,744	0,018	-5,914	<b>0,012</b>	-9,885	0,017
B339	CS31 - HEA200	2,975	NC15	40,580	-0,007	-16,739	0,000	<b>-61,251</b>	-0,026
B339	CS31 - HEA200	7,540	NC6	-6,757	0,000	20,004	0,000	<b>38,706</b>	0,003
B339	CS31 - HEA200	7,540	NC2	-89,483	-0,008	0,028	-0,008	0,053	<b>-0,063</b>
B339	CS31 - HEA200	7,540	NC18	42,630	0,001	17,648	0,012	17,284	<b>0,085</b>
B344	CS23 - HEA220	0,000	NC2	<b>-375,972</b>	0,000	0,000	-0,002	0,000	0,000
B344	CS23 - HEA220	6,750	NC18	<b>34,240</b>	-0,004	0,000	0,001	0,000	0,000
B344	CS23 - HEA220	0,000	NC7	-97,296	<b>-0,005</b>	0,000	0,003	0,000	0,000
B344	CS23 - HEA220	0,000	NC9	-108,860	<b>0,005</b>	0,000	0,001	0,000	0,000
B344	CS23 - HEA220	0,000	NC5	-145,754	0,000	<b>-0,005</b>	0,004	0,000	0,000
B344	CS23 - HEA220	0,000	NC3	-147,532	0,000	<b>0,005</b>	<b>-0,007</b>	0,000	0,000
B344	CS23 - HEA220	0,000	NC14	-42,414	0,000	-0,004	<b>0,005</b>	0,000	0,000
B344	CS23 - HEA220	3,375	NC5	-143,748	0,000	0,000	0,004	<b>-0,008</b>	0,000
B344	CS23 - HEA220	3,375	NC3	-145,527	0,000	0,000	-0,007	<b>0,008</b>	0,000
B344	CS23 - HEA220	3,375	NC7	-95,290	0,000	0,000	0,003	0,000	<b>-0,008</b>
B344	CS23 - HEA220	3,375	NC9	-106,855	0,000	0,000	0,001	0,000	<b>0,008</b>
B532	CS2 - HEA240	0,000	NC6	<b>-109,710</b>	-0,013	11,364	-0,001	0,000	0,000
B532	CS2 - HEA240	8,430	NC11	<b>12,425</b>	-0,012	-22,481	0,000	-8,083	-0,004
B532	CS2 - HEA240	8,430	NC4	1,695	<b>-0,017</b>	-22,490	0,000	-8,094	-0,006
B532	CS2 - HEA240	8,430	NC5	-97,765	<b>0,017</b>	-17,347	0,001	-6,457	0,006
B532	CS2 - HEA240	8,430	NC8	-69,664	0,000	<b>-42,235</b>	0,001	-16,545	0,001
B532	CS2 - HEA240	8,430	NC9	-31,718	0,000	<b>43,194</b>	-0,001	16,505	0,000
B532	CS2 - HEA240	0,000	NC14	-93,168	-0,010	11,363	<b>-0,001</b>	0,000	0,000
B532	CS2 - HEA240	0,000	NC3	-10,228	0,013	14,605	<b>0,003</b>	0,000	0,000
B532	CS2 - HEA240	5,150	NC10	-13,796	0,000	-0,138	-0,001	<b>-63,416</b>	0,001
B532	CS2 - HEA240	5,150	NC7	-75,812	0,000	0,062	0,001	<b>61,585</b>	0,001
B532	CS2 - HEA240	4,280	NC6	-104,524	0,000	0,027	0,000	25,595	<b>-0,026</b>
B532	CS2 - HEA240	4,280	NC3	-5,044	0,000	0,104	0,000	33,416	<b>0,026</b>
B535	CS23 - HEA220	0,000	NC3	<b>-117,093</b>	0,013	12,054	0,002	0,000	0,000
B535	CS23 - HEA220	8,430	NC18	<b>33,840</b>	0,000	43,600	-0,001	17,087	-0,003
B535	CS23 - HEA220	8,430	NC4	-105,363	<b>-0,016</b>	-17,500	0,001	-6,603	-0,006
B535	CS23 - HEA220	8,430	NC5	1,750	<b>0,016</b>	-22,737	0,000	-8,491	0,006



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B535	CS23 - HEA220	8,430	NC7	15,154	0,000	<b>-42,592</b>	0,001	-17,052	-0,001
B535	CS23 - HEA220	8,430	NC9	4,202	0,000	<b>43,605</b>	-0,001	17,092	-0,001
B535	CS23 - HEA220	2,975	NC6	-5,302	-0,002	-0,143	<b>-0,002</b>	33,486	-0,024
B535	CS23 - HEA220	2,975	NC11	-99,778	0,001	-0,129	<b>0,003</b>	25,660	0,018
B535	CS23 - HEA220	2,975	NC10	14,995	0,000	-18,296	-0,001	<b>-63,600</b>	-0,001
B535	CS23 - HEA220	2,975	NC15	19,744	0,000	17,828	0,001	<b>61,949</b>	-0,001
B535	CS23 - HEA220	4,280	NC6	-4,527	0,000	-0,143	-0,002	33,300	<b>-0,025</b>
B535	CS23 - HEA220	4,280	NC3	-112,017	0,000	-0,126	0,003	25,496	<b>0,025</b>
B538	CS2 - HEA240	0,000	NC5	<b>-111,012</b>	-0,014	20,924	-0,003	0,000	0,000
B538	CS2 - HEA240	8,430	NC12	<b>2,847</b>	-0,013	-17,476	-0,001	-6,447	-0,004
B538	CS2 - HEA240	8,430	NC3	-7,904	<b>-0,017</b>	-17,491	0,001	-6,475	-0,007
B538	CS2 - HEA240	8,430	NC6	-98,448	<b>0,017</b>	-30,231	-0,001	-11,196	0,005
B538	CS2 - HEA240	8,430	NC8	-22,672	0,000	<b>-42,551</b>	-0,002	-16,597	0,000
B538	CS2 - HEA240	8,430	NC18	-42,526	0,000	<b>43,550</b>	-0,004	16,626	0,001
B538	CS2 - HEA240	2,975	NC14	-92,571	-0,002	-0,151	<b>-0,004</b>	44,772	-0,020
B538	CS2 - HEA240	0,000	NC2	-74,115	0,000	-0,024	<b>0,008</b>	0,000	0,000
B538	CS2 - HEA240	2,975	NC9	-81,814	0,000	-18,349	0,000	<b>-64,067</b>	0,000
B538	CS2 - HEA240	2,975	NC15	-19,105	0,000	17,871	-0,003	<b>62,446</b>	0,000
B538	CS2 - HEA240	4,280	NC5	-105,442	0,000	-0,156	-0,003	44,515	<b>-0,028</b>
B538	CS2 - HEA240	4,280	NC4	-14,574	0,000	-0,114	0,002	25,622	<b>0,027</b>
B636	CS50 - HEA160	0,000	NC2	<b>-44,471</b>	0,002	0,010	0,000	0,000	0,000
B636	CS50 - HEA160	6,750	NC15	<b>1,242</b>	0,000	<b>-9,696</b>	0,000	-2,908	0,001
B636	CS50 - HEA160	6,750	NC4	-18,135	<b>-0,004</b>	5,947	-0,001	1,518	0,005
B636	CS50 - HEA160	6,750	NC5	-21,115	<b>0,006</b>	9,463	0,001	2,031	0,008
B636	CS50 - HEA160	6,600	NC6	-18,180	0,005	<b>9,463</b>	0,001	0,613	0,006
B636	CS50 - HEA160	0,000	NC3	-24,157	0,004	-4,847	<b>-0,002</b>	0,000	0,000
B636	CS50 - HEA160	0,000	NC6	-21,161	-0,002	-7,876	<b>0,001</b>	0,000	0,000
B636	CS50 - HEA160	3,300	NC13	-12,764	0,000	0,115	0,001	<b>-12,812</b>	-0,002
B636	CS50 - HEA160	3,300	NC8	-10,326	0,001	-0,342	0,000	<b>12,068</b>	0,002
B636	CS50 - HEA160	2,640	NC14	-9,953	0,000	-1,484	0,001	-12,359	<b>-0,003</b>
B636	CS50 - HEA160	6,750	NC2	-41,437	0,002	0,010	0,000	0,036	<b>0,015</b>
B637	CS23 - HEA220	0,000	NC9	<b>-181,361</b>	0,000	<b>-0,005</b>	<b>-0,003</b>	0,000	0,000
B637	CS23 - HEA220	6,750	NC14	<b>-21,602</b>	0,004	0,000	-0,002	0,000	0,000
B637	CS23 - HEA220	0,000	NC5	-60,792	<b>-0,005</b>	0,000	-0,002	0,000	0,000
B637	CS23 - HEA220	0,000	NC3	-75,929	<b>0,005</b>	0,000	0,002	0,000	0,000
B637	CS23 - HEA220	0,000	NC7	-65,427	0,000	<b>0,005</b>	0,000	0,000	0,000
B637	CS23 - HEA220	0,000	NC12	-40,556	0,004	0,000	<b>0,003</b>	0,000	0,000
B637	CS23 - HEA220	3,375	NC9	-179,356	0,000	0,000	-0,003	<b>-0,008</b>	0,000
B637	CS23 - HEA220	3,375	NC7	-63,422	0,000	0,000	0,000	<b>0,008</b>	0,000
B637	CS23 - HEA220	3,375	NC5	-58,787	0,000	0,000	-0,002	0,000	<b>-0,008</b>
B637	CS23 - HEA220	3,375	NC3	-73,923	0,000	0,000	0,002	0,000	<b>0,008</b>
B644	CS50 - HEA160	0,000	NC2	<b>-56,881</b>	0,003	-0,029	0,000	0,000	0,000
B644	CS50 - HEA160	8,000	NC17	<b>-0,453</b>	0,000	-3,170	0,000	0,902	0,000
B644	CS50 - HEA160	6,750	NC4	-22,738	<b>-0,005</b>	-6,705	0,001	-1,958	0,008
B644	CS50 - HEA160	6,750	NC5	-26,526	<b>0,008</b>	-10,936	-0,001	-3,127	0,011
B644	CS50 - HEA160	6,750	NC8	-26,626	0,001	<b>-16,447</b>	0,000	-4,749	0,010
B644	CS50 - HEA160	6,750	NC17	-6,528	0,000	<b>16,839</b>	0,000	4,881	-0,001
B644	CS50 - HEA160	0,000	NC5	-30,945	-0,003	6,885	<b>-0,004</b>	0,000	0,000
B644	CS50 - HEA160	0,000	NC3	-30,956	0,006	3,609	<b>0,002</b>	0,000	0,000
B644	CS50 - HEA160	2,975	NC9	-21,717	0,001	-5,005	0,000	<b>-19,053</b>	0,002
B644	CS50 - HEA160	2,975	NC16	-16,210	0,001	-3,049	0,000	<b>18,615</b>	0,002
B644	CS50 - HEA160	2,975	NC14	-12,605	0,000	3,148	-0,003	12,961	<b>-0,004</b>
B644	CS50 - HEA160	6,750	NC2	-52,459	0,003	-0,018	0,000	-0,128	<b>0,021</b>
B649	CS23 - HEA220	0,000	NC8	<b>-233,130</b>	0,000	0,005	<b>0,001</b>	0,000	0,000
B649	CS23 - HEA220	6,750	NC12	<b>-30,304</b>	-0,004	0,000	0,001	0,000	0,000
B649	CS23 - HEA220	0,000	NC5	-97,800	<b>-0,005</b>	0,000	0,000	0,000	0,000
B649	CS23 - HEA220	0,000	NC3	-84,127	<b>0,005</b>	0,000	0,001	0,000	0,000
B649	CS23 - HEA220	0,000	NC9	-105,662	0,000	<b>-0,005</b>	-0,002	0,000	0,000
B649	CS23 - HEA220	0,000	NC7	-233,128	0,000	<b>0,005</b>	0,001	0,000	0,000
B649	CS23 - HEA220	0,000	NC18	-33,457	0,000	-0,004	<b>-0,003</b>	0,000	0,000
B649	CS23 - HEA220	3,375	NC9	-103,656	0,000	0,000	-0,002	<b>-0,008</b>	0,000
B649	CS23 - HEA220	3,375	NC7	-231,122	0,000	0,000	0,001	<b>0,008</b>	0,000
B649	CS23 - HEA220	3,375	NC5	-95,795	0,000	0,000	0,000	0,000	<b>-0,008</b>
B649	CS23 - HEA220	3,375	NC3	-82,121	0,000	0,000	0,001	0,000	<b>0,008</b>
B655	CS23 - HEA220	0,000	NC9	<b>-240,205</b>	0,000	<b>-0,005</b>	-0,002	0,000	0,000
B655	CS23 - HEA220	6,750	NC14	<b>-26,571</b>	0,004	0,000	0,002	0,000	0,000
B655	CS23 - HEA220	0,000	NC5	-74,184	<b>-0,005</b>	0,000	0,002	0,000	0,000
B655	CS23 - HEA220	0,000	NC3	-74,286	<b>0,005</b>	0,000	-0,002	0,000	0,000
B655	CS23 - HEA220	0,000	NC7	-75,025	0,000	<b>0,005</b>	0,004	0,000	0,000
B655	CS23 - HEA220	0,000	NC17	-204,579	0,000	-0,004	<b>-0,002</b>	0,000	0,000
B655	CS23 - HEA220	0,000	NC8	-75,025	0,000	0,005	<b>0,004</b>	0,000	0,000
B655	CS23 - HEA220	3,375	NC9	-238,200	0,000	0,000	-0,002	<b>-0,008</b>	0,000
B655	CS23 - HEA220	3,375	NC7	-73,019	0,000	0,000	0,004	<b>0,008</b>	0,000
B655	CS23 - HEA220	3,375	NC5	-72,179	0,000	0,000	0,002	0,000	<b>-0,008</b>
B655	CS23 - HEA220	3,375	NC3	-72,281	0,000	0,000	-0,002	0,000	<b>0,008</b>
B961	CS17 - HEA160	0,000	NC2	<b>-206,137</b>	-0,234	0,000	0,000	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B961	CS17 - HEA160	5,500	NC16	<b>50,140</b>	-7,849	<b>5,827</b>	0,004	0,000	0,000
B961	CS17 - HEA160	5,150	NC16	50,045	<b>-7,849</b>	5,826	0,004	-2,039	2,747
B961	CS17 - HEA160	5,500	NC3	-64,418	<b>4,120</b>	-3,583	-0,001	0,000	0,000
B961	CS17 - HEA160	5,150	NC6	-0,187	-2,785	<b>-5,291</b>	-0,001	1,852	0,975
B961	CS17 - HEA160	0,000	NC18	33,010	-0,102	1,813	<b>-0,002</b>	0,000	0,000
B961	CS17 - HEA160	0,000	NC16	48,219	0,533	-2,857	<b>0,004</b>	0,000	0,000
B961	CS17 - HEA160	2,975	NC16	49,436	0,533	1,542	0,004	<b>-5,395</b>	1,587
B961	CS17 - HEA160	2,975	NC6	-1,730	0,188	-1,480	-0,001	<b>5,071</b>	0,567
B961	CS17 - HEA160	5,150	NC3	-65,747	-0,277	-0,930	-0,001	1,254	<b>-1,442</b>
B961	CS17 - HEA160	5,150	NC16	50,021	0,533	1,544	0,004	-2,039	<b>2,747</b>
B962	CS17 - HEA160	0,000	NC2	<b>-221,794</b>	-0,086	-0,001	0,000	0,000	0,000
B962	CS17 - HEA160	5,500	NC16	<b>61,363</b>	-5,922	2,417	0,009	0,000	0,000
B962	CS17 - HEA160	5,150	NC16	61,269	<b>-5,922</b>	2,416	0,009	-0,846	2,073
B962	CS17 - HEA160	5,500	NC3	-68,701	<b>3,003</b>	-1,786	-0,001	0,000	0,000
B962	CS17 - HEA160	5,150	NC4	-42,119	2,833	<b>-1,795</b>	-0,001	0,628	-0,991
B962	CS17 - HEA160	5,500	NC7	22,431	-5,529	<b>2,432</b>	0,009	0,000	0,000
B962	CS17 - HEA160	0,000	NC18	31,102	-0,105	0,109	<b>-0,004</b>	0,000	0,000
B962	CS17 - HEA160	0,000	NC16	59,807	0,402	-0,166	<b>0,009</b>	0,000	0,000
B962	CS17 - HEA160	5,150	NC7	21,763	0,376	-0,163	0,009	<b>-0,851</b>	1,935
B962	CS17 - HEA160	5,150	NC4	-43,223	-0,190	0,122	-0,001	<b>0,628</b>	-0,991
B962	CS17 - HEA160	5,150	NC3	-70,011	-0,202	0,121	-0,001	0,625	<b>-1,051</b>
B962	CS17 - HEA160	5,150	NC16	61,192	0,402	-0,163	0,009	-0,846	<b>2,073</b>
B963	CS17 - HEA160	0,000	NC2	<b>-50,921</b>	0,051	0,004	0,000	0,000	0,000
B963	CS17 - HEA160	5,500	NC14	<b>0,799</b>	-1,760	-6,084	-0,002	0,000	0,000
B963	CS17 - HEA160	5,150	NC15	-13,909	<b>-4,863</b>	2,893	0,008	-1,013	1,702
B963	CS17 - HEA160	5,500	NC3	-18,306	<b>2,337</b>	-2,702	-0,002	0,000	0,000
B963	CS17 - HEA160	5,150	NC13	-13,416	-2,017	<b>-6,089</b>	-0,002	2,131	0,706
B963	CS17 - HEA160	5,500	NC7	-18,799	-4,860	<b>2,939</b>	0,008	0,000	0,000
B963	CS17 - HEA160	0,000	NC18	-8,455	-0,149	1,201	<b>-0,003</b>	0,000	0,000
B963	CS17 - HEA160	0,000	NC16	-16,245	0,328	-1,917	<b>0,008</b>	0,000	0,000
B963	CS17 - HEA160	2,975	NC8	-20,821	0,328	-0,927	0,008	<b>-2,987</b>	0,975
B963	CS17 - HEA160	2,975	NC13	-14,847	0,137	1,216	-0,003	<b>4,925</b>	0,410
B963	CS17 - HEA160	5,150	NC3	-19,394	-0,156	-0,432	-0,002	0,946	<b>-0,818</b>
B963	CS17 - HEA160	5,150	NC15	-14,613	0,330	0,686	0,008	-1,013	<b>1,702</b>
B1587	CS2 - HEA240	0,000	NC7	<b>-132,794</b>	<b>-0,019</b>	-31,814	-0,009	0,000	0,000
B1587	CS2 - HEA240	7,540	NC18	<b>42,557</b>	-0,006	17,245	0,007	16,569	0,041
B1587	CS2 - HEA240	0,000	NC9	-14,710	<b>0,020</b>	-11,855	<b>0,009</b>	0,000	0,000
B1587	CS2 - HEA240	0,000	NC8	-132,129	-0,019	<b>-31,814</b>	-0,009	0,000	0,000
B1587	CS2 - HEA240	6,600	NC15	-104,052	0,005	<b>39,255</b>	-0,008	-18,645	-0,046
B1587	CS2 - HEA240	0,800	NC7	-130,663	-0,014	-17,901	<b>-0,009</b>	-25,558	-0,015
B1587	CS2 - HEA240	2,975	NC8	-128,455	-0,010	-17,901	-0,009	<b>-64,492</b>	-0,042
B1587	CS2 - HEA240	7,540	NC14	6,553	0,000	20,216	0,000	<b>39,015</b>	0,002
B1587	CS2 - HEA240	5,150	NC7	-125,870	-0,002	4,914	-0,009	-53,796	<b>-0,050</b>
B1587	CS2 - HEA240	5,150	NC9	-7,787	0,003	3,184	0,008	-15,875	<b>0,053</b>
B1588	CS23 - HEA220	0,000	NC2	<b>-103,304</b>	0,000	-0,015	0,000	0,000	0,000
B1588	CS23 - HEA220	7,540	NC16	<b>47,265</b>	0,005	39,354	-0,007	18,643	-0,041
B1588	CS23 - HEA220	0,000	NC8	19,516	<b>-0,019</b>	-31,703	-0,007	0,000	0,000
B1588	CS23 - HEA220	0,000	NC9	-12,953	<b>0,019</b>	-11,760	0,007	0,000	0,000
B1588	CS23 - HEA220	0,000	NC7	18,869	-0,019	<b>-31,703</b>	-0,007	0,000	0,000
B1588	CS23 - HEA220	6,600	NC15	46,199	0,004	<b>39,354</b>	-0,007	-18,350	-0,045
B1588	CS23 - HEA220	2,975	NC8	24,552	-0,006	5,025	<b>-0,007</b>	-64,193	-0,041
B1588	CS23 - HEA220	5,150	NC17	12,554	0,001	11,063	<b>0,007</b>	-15,586	0,048
B1588	CS23 - HEA220	2,975	NC7	23,905	-0,006	5,025	-0,007	<b>-64,193</b>	-0,041
B1588	CS23 - HEA220	7,540	NC13	9,375	0,000	20,235	0,000	<b>39,026</b>	0,000
B1588	CS23 - HEA220	5,150	NC8	25,844	-0,003	5,025	-0,007	-53,263	<b>-0,051</b>
B1588	CS23 - HEA220	5,150	NC9	-6,624	0,003	3,278	0,007	-15,574	<b>0,051</b>
B1593	CS21 - HEA180	0,000	NC8	<b>-195,654</b>	0,000	0,004	0,003	0,000	0,000
B1593	CS21 - HEA180	6,750	NC14	<b>-26,029</b>	0,003	0,000	0,002	0,000	0,000
B1593	CS21 - HEA180	0,000	NC5	-71,492	<b>-0,004</b>	0,000	0,002	0,000	0,000
B1593	CS21 - HEA180	0,000	NC3	-87,597	<b>0,004</b>	0,000	<b>-0,002</b>	0,000	0,000
B1593	CS21 - HEA180	0,000	NC9	-91,981	0,000	<b>-0,004</b>	0,000	0,000	0,000
B1593	CS21 - HEA180	0,000	NC7	-195,625	0,000	<b>0,004</b>	0,003	0,000	0,000
B1593	CS21 - HEA180	0,000	NC16	-160,693	0,000	0,003	<b>0,003</b>	0,000	0,000
B1593	CS21 - HEA180	3,375	NC9	-90,568	0,000	0,000	0,000	<b>-0,006</b>	0,000
B1593	CS21 - HEA180	3,375	NC7	-194,212	0,000	0,000	0,003	<b>0,006</b>	0,000
B1593	CS21 - HEA180	3,375	NC5	-70,079	0,000	0,000	0,002	0,000	<b>-0,006</b>
B1593	CS21 - HEA180	3,375	NC3	-86,184	0,000	0,000	-0,002	0,000	<b>0,006</b>
B1594	CS50 - HEA160	0,000	NC2	<b>-86,925</b>	0,000	0,000	-0,001	0,000	0,000
B1594	CS50 - HEA160	6,750	NC17	<b>-2,986</b>	0,000	0,002	0,000	0,000	0,000
B1594	CS50 - HEA160	0,000	NC6	-37,613	<b>-0,003</b>	0,000	0,001	0,000	0,000
B1594	CS50 - HEA160	0,000	NC3	-43,967	<b>0,003</b>	0,000	<b>-0,002</b>	0,000	0,000
B1594	CS50 - HEA160	0,000	NC9	-25,167	0,000	<b>-0,003</b>	-0,001	0,000	0,000
B1594	CS50 - HEA160	6,750	NC9	-22,747	0,000	<b>0,003</b>	-0,001	0,000	0,000
B1594	CS50 - HEA160	0,000	NC16	-24,563	0,000	0,002	<b>0,002</b>	0,000	0,000
B1594	CS50 - HEA160	3,375	NC9	-23,957	0,000	0,000	-0,001	<b>-0,005</b>	0,000
B1594	CS50 - HEA160	3,375	NC7	-43,738	0,000	0,000	0,002	<b>0,005</b>	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1594	CS50 - HEA160	3,375	NC5	-42,609	0,000	0,000	0,001	0,000	<b>-0,005</b>
B1594	CS50 - HEA160	3,375	NC4	-36,564	0,000	0,000	-0,002	0,000	<b>0,005</b>
B1598	CS1 - HEA280	0,000	NC2	<b>-634,691</b>	0,000	0,000	<b>-0,004</b>	0,000	0,000
B1598	CS1 - HEA280	9,320	NC18	<b>336,415</b>	0,000	0,008	0,000	0,000	0,000
B1598	CS1 - HEA280	0,000	NC5	3,675	<b>-0,010</b>	0,000	0,002	0,000	0,000
B1598	CS1 - HEA280	0,000	NC3	-30,248	<b>0,010</b>	0,000	0,001	0,000	0,000
B1598	CS1 - HEA280	0,000	NC9	-57,713	0,000	<b>-0,010</b>	-0,002	0,000	0,000
B1598	CS1 - HEA280	0,000	NC7	169,985	0,000	<b>0,010</b>	0,002	0,000	0,000
B1598	CS1 - HEA280	0,000	NC16	317,312	0,000	0,008	<b>0,004</b>	0,000	0,000
B1598	CS1 - HEA280	4,349	NC9	-53,803	0,000	-0,001	-0,002	<b>-0,024</b>	0,000
B1598	CS1 - HEA280	4,349	NC7	173,895	0,000	0,001	0,002	<b>0,024</b>	0,000
B1598	CS1 - HEA280	4,349	NC5	7,585	-0,001	0,000	0,002	0,000	<b>-0,024</b>
B1598	CS1 - HEA280	4,349	NC3	-26,338	0,001	0,000	0,001	0,000	<b>0,024</b>
B1599	CS18 - HEA220	0,000	NC2	<b>-333,702</b>	0,000	0,000	<b>-0,001</b>	0,000	0,000
B1599	CS18 - HEA220	7,540	NC16	<b>203,731</b>	0,000	-0,004	0,000	0,000	0,000
B1599	CS18 - HEA220	0,000	NC5	20,728	<b>-0,006</b>	0,000	0,000	0,000	0,000
B1599	CS18 - HEA220	0,000	NC3	-16,845	<b>0,006</b>	0,000	0,000	0,000	0,000
B1599	CS18 - HEA220	0,000	NC9	-14,037	0,000	<b>-0,006</b>	-0,001	0,000	0,000
B1599	CS18 - HEA220	0,000	NC7	121,021	0,000	<b>0,006</b>	0,000	0,000	0,000
B1599	CS18 - HEA220	0,000	NC14	96,757	-0,004	0,000	<b>0,001</b>	0,000	0,000
B1599	CS18 - HEA220	3,770	NC9	-11,796	0,000	0,000	-0,001	<b>-0,011</b>	0,000
B1599	CS18 - HEA220	3,770	NC7	123,261	0,000	0,000	0,000	<b>0,011</b>	0,000
B1599	CS18 - HEA220	3,770	NC5	22,968	0,000	0,000	0,000	0,000	<b>-0,011</b>
B1599	CS18 - HEA220	3,770	NC3	-14,605	0,000	0,000	0,000	0,000	<b>0,011</b>
B1600	CS1 - HEA280	0,000	NC2	<b>-652,817</b>	0,000	0,000	<b>0,001</b>	0,000	0,000
B1600	CS1 - HEA280	9,320	NC18	<b>343,615</b>	0,000	0,008	0,000	0,000	0,000
B1600	CS1 - HEA280	0,000	NC5	-86,264	<b>-0,010</b>	0,000	0,000	0,000	0,000
B1600	CS1 - HEA280	0,000	NC3	-3,113	<b>0,010</b>	0,000	0,000	0,000	0,000
B1600	CS1 - HEA280	0,000	NC9	-53,386	0,000	<b>-0,010</b>	0,000	0,000	0,000
B1600	CS1 - HEA280	0,000	NC7	182,177	0,000	<b>0,010</b>	-0,002	0,000	0,000
B1600	CS1 - HEA280	0,000	NC16	328,701	0,000	0,008	<b>-0,003</b>	0,000	0,000
B1600	CS1 - HEA280	4,349	NC9	-49,475	0,000	-0,001	0,000	<b>-0,024</b>	0,000
B1600	CS1 - HEA280	4,349	NC7	186,088	0,000	0,001	-0,002	<b>0,024</b>	0,000
B1600	CS1 - HEA280	4,349	NC5	-82,353	-0,001	0,000	0,000	0,000	<b>-0,024</b>
B1600	CS1 - HEA280	4,349	NC3	0,798	0,001	0,000	0,000	0,000	<b>0,024</b>
B1601	CS1 - HEA280	0,000	NC2	<b>-524,773</b>	0,000	0,000	-0,003	0,000	0,000
B1601	CS1 - HEA280	9,320	NC16	<b>275,363</b>	0,000	-0,008	0,008	0,000	0,000
B1601	CS1 - HEA280	0,000	NC5	-67,914	<b>-0,010</b>	0,000	0,006	0,000	0,000
B1601	CS1 - HEA280	0,000	NC3	-7,136	<b>0,010</b>	0,000	<b>-0,007</b>	0,000	0,000
B1601	CS1 - HEA280	0,000	NC9	-48,014	0,000	<b>-0,010</b>	-0,001	0,000	0,000
B1601	CS1 - HEA280	0,000	NC7	151,236	0,000	<b>0,010</b>	0,006	0,000	0,000
B1601	CS1 - HEA280	0,000	NC16	269,078	0,000	0,008	<b>0,008</b>	0,000	0,000
B1601	CS1 - HEA280	4,349	NC9	-44,103	0,000	-0,001	-0,001	<b>-0,024</b>	0,000
B1601	CS1 - HEA280	4,349	NC7	155,147	0,000	0,001	0,006	<b>0,024</b>	0,000
B1601	CS1 - HEA280	4,349	NC5	-64,003	-0,001	0,000	0,006	0,000	<b>-0,024</b>
B1601	CS1 - HEA280	4,349	NC3	-3,226	0,001	0,000	-0,007	0,000	<b>0,024</b>
B1602	CS18 - HEA220	0,000	NC2	<b>-273,325</b>	0,000	0,000	0,000	0,000	0,000
B1602	CS18 - HEA220	7,540	NC16	<b>175,987</b>	0,000	-0,004	0,002	0,000	0,000
B1602	CS18 - HEA220	0,000	NC5	11,439	<b>-0,006</b>	0,000	0,002	0,000	0,000
B1602	CS18 - HEA220	0,000	NC3	-19,749	<b>0,006</b>	0,000	-0,003	0,000	0,000
B1602	CS18 - HEA220	0,000	NC9	-14,575	0,000	<b>-0,006</b>	0,000	0,000	0,000
B1602	CS18 - HEA220	0,000	NC7	107,538	0,000	<b>0,006</b>	0,002	0,000	0,000
B1602	CS18 - HEA220	0,000	NC11	41,909	0,004	0,000	<b>-0,003</b>	0,000	0,000
B1602	CS18 - HEA220	0,000	NC6	11,431	-0,006	0,000	<b>0,002</b>	0,000	0,000
B1602	CS18 - HEA220	3,770	NC9	-12,335	0,000	0,000	0,000	<b>-0,011</b>	0,000
B1602	CS18 - HEA220	3,770	NC7	109,778	0,000	0,000	0,002	<b>0,011</b>	0,000
B1602	CS18 - HEA220	3,770	NC5	13,679	0,000	0,000	0,002	0,000	<b>-0,011</b>
B1602	CS18 - HEA220	3,770	NC3	-17,509	0,000	0,000	-0,003	0,000	<b>0,011</b>
B1603	CS1 - HEA280	0,000	NC2	<b>-510,183</b>	0,000	0,000	0,005	0,000	0,000
B1603	CS1 - HEA280	9,320	NC18	<b>264,201</b>	0,000	0,008	-0,002	0,000	0,000
B1603	CS1 - HEA280	0,000	NC5	-25,026	<b>-0,010</b>	0,000	0,005	0,000	0,000
B1603	CS1 - HEA280	0,000	NC3	-27,856	<b>0,010</b>	0,000	-0,007	0,000	0,000
B1603	CS1 - HEA280	0,000	NC9	-53,058	0,000	<b>-0,010</b>	0,000	0,000	0,000
B1603	CS1 - HEA280	0,000	NC7	136,537	0,000	<b>0,010</b>	0,003	0,000	0,000
B1603	CS1 - HEA280	0,000	NC11	87,834	0,008	0,000	<b>-0,008</b>	0,000	0,000
B1603	CS1 - HEA280	0,000	NC6	-24,984	-0,010	0,000	<b>0,005</b>	0,000	0,000
B1603	CS1 - HEA280	4,349	NC9	-49,147	0,000	-0,001	0,000	<b>-0,024</b>	0,000
B1603	CS1 - HEA280	4,349	NC7	140,447	0,000	0,001	0,003	<b>0,024</b>	0,000
B1603	CS1 - HEA280	4,349	NC5	-21,116	-0,001	0,000	0,005	0,000	<b>-0,024</b>
B1603	CS1 - HEA280	4,349	NC3	-23,946	0,001	0,000	-0,007	0,000	<b>0,024</b>
B1604	CS1 - HEA280	0,000	NC2	<b>-377,173</b>	0,000	0,000	-0,002	0,000	0,000
B1604	CS1 - HEA280	9,320	NC18	<b>205,453</b>	0,000	0,008	0,008	0,000	0,000
B1604	CS1 - HEA280	0,000	NC5	-9,466	<b>-0,010</b>	0,000	0,014	0,000	0,000
B1604	CS1 - HEA280	0,000	NC3	-63,779	<b>0,010</b>	0,000	-0,012	0,000	0,000
B1604	CS1 - HEA280	0,000	NC9	-20,556	0,000	<b>-0,010</b>	0,007	0,000	0,000
B1604	CS1 - HEA280	0,000	NC7	115,033	0,000	<b>0,010</b>	0,011	0,000	0,000



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1604	CS1 - HEA280	0,000	NC4	-63,355	0,010	0,000	<b>-0,012</b>	0,000	0,000
B1604	CS1 - HEA280	0,000	NC13	70,855	-0,008	0,000	<b>0,014</b>	0,000	0,000
B1604	CS1 - HEA280	4,349	NC9	-16,646	0,000	-0,001	0,007	<b>-0,024</b>	0,000
B1604	CS1 - HEA280	4,349	NC7	118,944	0,000	0,001	0,011	<b>0,024</b>	0,000
B1604	CS1 - HEA280	4,349	NC5	-5,556	-0,001	0,000	0,014	0,000	<b>-0,024</b>
B1604	CS1 - HEA280	4,349	NC3	-59,868	0,001	0,000	-0,012	0,000	<b>0,024</b>
B1605	CS18 - HEA220	0,000	NC2	<b>-185,067</b>	0,000	0,000	0,001	0,000	0,000
B1605	CS18 - HEA220	7,540	NC18	<b>129,232</b>	0,000	0,004	0,002	0,000	0,000
B1605	CS18 - HEA220	0,000	NC5	-4,977	<b>-0,006</b>	0,000	<b>0,007</b>	0,000	0,000
B1605	CS18 - HEA220	0,000	NC3	-15,855	<b>0,006</b>	0,000	-0,007	0,000	0,000
B1605	CS18 - HEA220	0,000	NC9	15,993	0,000	<b>-0,006</b>	0,003	0,000	0,000
B1605	CS18 - HEA220	0,000	NC7	42,368	0,000	<b>0,006</b>	0,007	0,000	0,000
B1605	CS18 - HEA220	0,000	NC12	23,814	0,004	0,000	<b>-0,007</b>	0,000	0,000
B1605	CS18 - HEA220	3,770	NC9	18,233	0,000	0,000	0,003	<b>-0,011</b>	0,000
B1605	CS18 - HEA220	3,770	NC7	44,608	0,000	0,000	0,007	<b>0,011</b>	0,000
B1605	CS18 - HEA220	3,770	NC5	-2,737	0,000	0,000	0,007	0,000	<b>-0,011</b>
B1605	CS18 - HEA220	3,770	NC3	-13,615	0,000	0,000	-0,007	0,000	<b>0,011</b>
B1606	CS1 - HEA280	0,000	NC2	<b>-377,314</b>	0,000	0,000	0,005	0,000	0,000
B1606	CS1 - HEA280	9,320	NC18	<b>194,373</b>	0,000	0,008	0,001	0,000	0,000
B1606	CS1 - HEA280	0,000	NC5	-68,844	<b>-0,010</b>	0,000	0,013	0,000	0,000
B1606	CS1 - HEA280	0,000	NC3	9,611	<b>0,010</b>	0,000	-0,012	0,000	0,000
B1606	CS1 - HEA280	0,000	NC9	-30,903	0,000	<b>-0,010</b>	0,004	0,000	0,000
B1606	CS1 - HEA280	0,000	NC7	78,433	0,000	<b>0,010</b>	<b>0,014</b>	0,000	0,000
B1606	CS1 - HEA280	0,000	NC12	89,848	0,008	0,000	<b>-0,013</b>	0,000	0,000
B1606	CS1 - HEA280	4,349	NC9	-26,992	0,000	-0,001	0,004	<b>-0,024</b>	0,000
B1606	CS1 - HEA280	4,349	NC7	82,344	0,000	0,001	0,014	<b>0,024</b>	0,000
B1606	CS1 - HEA280	4,349	NC5	-64,933	-0,001	0,000	0,013	0,000	<b>-0,024</b>
B1606	CS1 - HEA280	4,349	NC3	13,522	0,001	0,000	-0,012	0,000	<b>0,024</b>
B1607	CS23 - HEA220	0,000	NC2	<b>-283,014</b>	0,000	0,000	0,001	0,000	0,000
B1607	CS23 - HEA220	6,750	NC16	<b>-3,487</b>	0,004	0,000	0,004	0,000	0,000
B1607	CS23 - HEA220	0,000	NC7	-72,782	<b>-0,005</b>	0,000	0,004	0,000	0,000
B1607	CS23 - HEA220	0,000	NC9	-153,159	<b>0,005</b>	0,000	0,001	0,000	0,000
B1607	CS23 - HEA220	0,000	NC5	-111,321	0,000	<b>-0,005</b>	<b>0,004</b>	0,000	0,000
B1607	CS23 - HEA220	0,000	NC3	-123,663	0,000	<b>0,005</b>	-0,003	0,000	0,000
B1607	CS23 - HEA220	0,000	NC12	-44,004	0,000	0,004	<b>-0,003</b>	0,000	0,000
B1607	CS23 - HEA220	3,375	NC5	-109,315	0,000	0,000	0,004	<b>-0,008</b>	0,000
B1607	CS23 - HEA220	3,375	NC3	-121,658	0,000	0,000	-0,003	<b>0,008</b>	0,000
B1607	CS23 - HEA220	3,375	NC7	-70,776	0,000	0,000	0,004	0,000	<b>-0,008</b>
B1607	CS23 - HEA220	3,375	NC9	-151,153	0,000	0,000	0,001	0,000	<b>0,008</b>
B2267	CS23 - HEA220	0,000	NC2	<b>-74,453</b>	-0,276	0,043	0,000	0,000	0,000
B2267	CS23 - HEA220	6,600	NC18	<b>37,241</b>	13,489	18,383	0,011	-36,299	<b>3,815</b>
B2267	CS23 - HEA220	5,500	NC18	36,795	<b>-9,085</b>	16,004	0,011	-55,686	-3,123
B2267	CS23 - HEA220	5,850	NC18	36,907	<b>13,489</b>	18,382	0,011	-50,086	-6,302
B2267	CS23 - HEA220	7,969	NC16	28,192	-1,277	<b>-25,016</b>	-0,012	0,000	0,000
B2267	CS23 - HEA220	7,969	NC18	36,909	-2,788	<b>26,525</b>	0,011	0,000	0,000
B2267	CS23 - HEA220	0,000	NC7	0,941	-4,046	-1,592	<b>-0,012</b>	0,000	0,000
B2267	CS23 - HEA220	0,000	NC9	-4,368	-3,075	1,860	<b>0,011</b>	0,000	0,000
B2267	CS23 - HEA220	5,150	NC18	18,370	0,845	-4,968	0,011	<b>-60,972</b>	-5,465
B2267	CS23 - HEA220	5,150	NC16	12,840	0,673	4,264	-0,012	<b>57,586</b>	-6,973
B2267	CS23 - HEA220	2,975	NC15	11,223	-2,319	22,738	-0,012	48,301	<b>-8,438</b>
B2271	CS4 - HEA140	0,350	NC2	<b>-37,158</b>	<b>-1,592</b>	-0,048	-0,001	-0,017	0,421
B2271	CS4 - HEA140	3,375	NC10	<b>5,765</b>	0,059	6,057	0,013	0,000	0,000
B2271	CS4 - HEA140	1,100	NC2	-36,098	<b>1,279</b>	-0,022	-0,001	-0,053	-0,773
B2271	CS4 - HEA140	3,375	NC16	4,340	0,526	<b>-5,866</b>	-0,012	0,000	0,000
B2271	CS4 - HEA140	3,375	NC18	3,780	0,154	<b>6,143</b>	0,014	0,000	0,000
B2271	CS4 - HEA140	0,000	NC7	1,320	-1,327	-1,196	<b>-0,013</b>	0,000	0,000
B2271	CS4 - HEA140	0,000	NC18	4,075	0,921	1,028	<b>0,014</b>	0,000	0,000
B2271	CS4 - HEA140	2,550	NC18	1,544	-0,799	-1,513	0,014	<b>-5,068</b>	-0,127
B2271	CS4 - HEA140	2,550	NC16	2,574	-0,753	1,423	-0,012	<b>4,840</b>	-0,434
B2271	CS4 - HEA140	1,100	NC2	-36,940	-1,592	-0,048	-0,001	-0,053	<b>-0,773</b>
B2271	CS4 - HEA140	2,550	NC2	-35,677	1,279	-0,022	-0,001	-0,084	<b>1,082</b>

#### 4.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - Columns

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UCOverall [-]	UCSec [-]	UCStab [-]
B1	0,480-	NC4	CS23 - HEA220	S 235	<b>0,57</b>	0,05	0,57
B2	0,480-	NC8	CS2 - HEA240	S 355	<b>0,52</b>	0,04	0,52
B3	2,975+	NC7	CS23 - HEA220	S 235	<b>0,57</b>	0,21	0,57
B10	0,000	NC2	CS1 - HEA280	S 235	<b>0,82</b>	0,28	0,82



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B11	2,975-	NC16	CS23 - HEA220	S 235	<b>0,63</b>	0,47	0,63
B12	0,000	NC2	CS18 - HEA220	S 235	<b>0,62</b>	0,21	0,62
B15	0,000	NC2	CS1 - HEA280	S 235	<b>0,82</b>	0,28	0,82
B16	6,750-	NC2	CS23 - HEA220	S 235	<b>0,55</b>	0,15	0,55
B19	0,480-	NC3	CS23 - HEA220	S 235	<b>0,65</b>	0,09	0,65
B20	0,320-	NC8	CS23 - HEA220	S 235	<b>0,61</b>	0,07	0,61
B33	0,350+	NC2	CS17 - HEA160	S 235	<b>0,42</b>	0,19	0,42
B36	4,120-	NC15	CS20 - HEA260	S 235	<b>0,24</b>	0,10	0,24
B37	5,500-	NC16	CS20 - HEA260	S 235	<b>0,86</b>	0,49	0,86
B47	6,750+	NC15	CS51 - HEA220	S 355	<b>0,81</b>	0,41	0,81
B49	2,975-	NC16	CS31 - HEA200	S 235	<b>0,96</b>	0,69	0,96
B54	6,750-	NC2	CS23 - HEA220	S 235	<b>0,60</b>	0,15	0,60
B56	0,320-	NC7	CS2 - HEA240	S 355	<b>0,60</b>	0,08	0,60
B61	6,750-	NC2	CS23 - HEA220	S 235	<b>0,68</b>	0,16	0,68
B151	2,975+	NC16	CS2 - HEA240	S 355	<b>0,37</b>	0,24	0,37
B156	6,750-	NC2	CS23 - HEA220	S 235	<b>0,68</b>	0,15	0,68
B250	6,750-	NC2	CS2 - HEA240	S 355	<b>0,86</b>	0,31	0,86
B322	5,150-	NC15	CS2 - HEA240	S 355	<b>0,74</b>	0,36	0,74
B323	0,640-	NC15	CS23 - HEA220	S 235	<b>0,66</b>	0,09	0,66
B324	2,975-	NC9	CS23 - HEA220	S 235	<b>0,63</b>	0,36	0,63
B327	0,320-	NC9	CS2 - HEA240	S 355	<b>0,63</b>	0,07	0,63
B328	6,750-	NC18	CS23 - HEA220	S 235	<b>0,89</b>	0,58	0,89
B332	0,480-	NC9	CS23 - HEA220	S 235	<b>0,66</b>	0,11	0,66
B339	2,975-	NC15	CS31 - HEA200	S 235	<b>0,85</b>	0,61	0,85
B344	0,000	NC2	CS23 - HEA220	S 235	<b>0,64</b>	0,25	0,64
B532	0,320-	NC7	CS2 - HEA240	S 355	<b>0,52</b>	0,05	0,52
B535	0,320-	NC9	CS23 - HEA220	S 235	<b>0,69</b>	0,11	0,69
B538	0,320-	NC9	CS2 - HEA240	S 355	<b>0,54</b>	0,06	0,54
B636	0,660	NC5	CS50 - HEA160	S 235	<b>0,42</b>	0,08	0,42
B637	0,000	NC9	CS23 - HEA220	S 235	<b>0,31</b>	0,12	0,31
B644	0,320-	NC8	CS50 - HEA160	S 235	<b>0,59</b>	0,05	0,59
B649	0,000	NC8	CS23 - HEA220	S 235	<b>0,40</b>	0,15	0,40
B655	0,000	NC9	CS23 - HEA220	S 235	<b>0,41</b>	0,16	0,41
B961	0,000	NC2	CS17 - HEA160	S 235	<b>0,77</b>	0,23	0,77
B962	0,000	NC2	CS17 - HEA160	S 235	<b>0,78</b>	0,24	0,78
B963	1,670-	NC5	CS17 - HEA160	S 235	<b>0,21</b>	0,06	0,21
B1587	0,320-	NC7	CS2 - HEA240	S 355	<b>0,55</b>	0,06	0,55
B1588	2,975+	NC7	CS23 - HEA220	S 235	<b>0,65</b>	0,48	0,65
B1593	0,000	NC8	CS21 - HEA180	S 235	<b>0,64</b>	0,18	0,64
B1594	0,000	NC2	CS50 - HEA160	S 235	<b>0,41</b>	0,10	0,41
B1598	0,000	NC2	CS1 - HEA280	S 235	<b>0,81</b>	0,28	0,81
B1599	0,000	NC2	CS18 - HEA220	S 235	<b>0,67</b>	0,22	0,67
B1600	0,000	NC2	CS1 - HEA280	S 235	<b>0,83</b>	0,29	0,83
B1601	0,000	NC2	CS1 - HEA280	S 235	<b>0,67</b>	0,23	0,67
B1602	0,000	NC2	CS18 - HEA220	S 235	<b>0,55</b>	0,18	0,55
B1603	0,000	NC2	CS1 - HEA280	S 235	<b>0,65</b>	0,22	0,65
B1604	0,000	NC2	CS1 - HEA280	S 235	<b>0,48</b>	0,16	0,48
B1605	0,000	NC2	CS18 - HEA220	S 235	<b>0,37</b>	0,12	0,37
B1606	0,000	NC2	CS1 - HEA280	S 235	<b>0,48</b>	0,17	0,48
B1607	0,000	NC2	CS23 - HEA220	S 235	<b>0,48</b>	0,19	0,48
B2267	5,150-	NC18	CS23 - HEA220	S 235	<b>0,71</b>	0,46	0,71
B2271	2,550-	NC9	CS4 - HEA140	S 235	<b>0,19</b>	0,12	0,19

#### 4.6. Reacties

Niet-lineaire berekening, Extreem : Knoop

Selectie : Alle

Klasse : ULS-NL

Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn1/N1	NC6	<b>-0,079</b>	9,553	36,162
Sn1/N1	NC4	<b>0,018</b>	15,144	17,507
Sn1/N1	NC16	-0,004	<b>-15,392</b>	<b>-82,266</b>
Sn1/N1	NC12	-0,075	<b>15,147</b>	-19,803
Sn1/N1	NC2	0,007	0,001	<b>184,263</b>
Sn2/N3	NC3	<b>-114,084</b>	-27,920	-143,430
Sn2/N3	NC15	<b>22,799</b>	<b>-152,712</b>	-37,056
Sn2/N3	NC13	3,892	<b>4,873</b>	134,108
Sn2/N3	NC11	-112,564	-29,966	<b>-153,017</b>
Sn2/N3	NC9	5,829	3,280	<b>172,310</b>
Sn3/N5	NC4	<b>-96,487</b>	9,721	28,810
Sn3/N5	NC5	<b>87,001</b>	9,708	59,069
Sn3/N5	NC16	86,485	<b>-14,336</b>	12,562
Sn3/N5	NC11	-94,790	<b>9,737</b>	3,499
Sn3/N5	NC18	32,894	7,777	<b>-61,372</b>
Sn3/N5	NC2	1,009	-0,104	<b>141,894</b>



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn4/N11	NC12	<b>-0,368</b>	0,000	-143,921
Sn4/N11	NC14	<b>0,117</b>	0,000	-43,802
Sn4/N11	NC16	0,000	<b>-0,789</b>	-312,561
Sn4/N11	NC18	0,000	<b>0,798</b>	<b>-316,065</b>
Sn4/N11	NC2	0,000	0,000	<b>641,889</b>
Sn5/N13	NC11	<b>-15,855</b>	0,005	5,464
Sn5/N13	NC16	<b>29,586</b>	<b>-0,111</b>	<b>-38,451</b>
Sn5/N13	NC18	10,976	<b>0,105</b>	-35,008
Sn5/N13	NC2	0,009	-0,002	<b>100,042</b>
Sn6/N15	NC11	<b>-0,122</b>	0,000	-47,045
Sn6/N15	NC13	<b>0,176</b>	0,000	-68,606
Sn6/N15	NC16	0,000	<b>-0,509</b>	<b>-201,942</b>
Sn6/N15	NC18	0,000	<b>0,433</b>	-171,348
Sn6/N15	NC2	0,000	0,000	<b>310,052</b>
Sn7/N17	NC12	<b>-0,162</b>	0,000	-61,485
Sn7/N17	NC14	<b>0,298</b>	0,000	-116,041
Sn7/N17	NC16	0,000	<b>-0,859</b>	<b>-340,639</b>
Sn7/N17	NC18	0,000	<b>0,845</b>	-335,043
Sn7/N17	NC2	0,000	0,000	<b>639,599</b>
Sn8/N19	NC5	<b>-1,852</b>	0,747	84,910
Sn8/N19	NC3	<b>2,102</b>	-0,660	92,125
Sn8/N19	NC9	-0,315	<b>-1,231</b>	102,318
Sn8/N19	NC7	-0,039	<b>1,703</b>	54,163
Sn8/N19	NC18	0,094	-0,819	<b>-9,972</b>
Sn8/N19	NC2	-0,478	-0,201	<b>228,373</b>
Sn9/N21	NC12	<b>0,281</b>	12,996	116,250
Sn9/N21	NC5	<b>90,567</b>	7,251	-85,594
Sn9/N21	NC16	81,246	<b>-11,140</b>	<b>-117,609</b>
Sn9/N21	NC11	0,282	<b>12,996</b>	116,699
Sn9/N21	NC3	0,314	12,993	<b>131,048</b>
Sn10/N23	NC11	<b>-114,237</b>	15,746	<b>-130,978</b>
Sn10/N23	NC2	<b>0,001</b>	0,043	75,565
Sn10/N23	NC15	0,000	<b>-18,586</b>	71,210
Sn10/N23	NC3	-113,947	<b>15,766</b>	-116,626
Sn10/N23	NC5	-0,272	12,120	<b>114,911</b>
Sn12/N33	NC3	<b>-1,032</b>	0,735	8,919
Sn12/N33	NC15	<b>2,221</b>	<b>-3,421</b>	6,688
Sn12/N33	NC6	0,916	<b>2,839</b>	18,644
Sn12/N33	NC18	-0,973	0,802	<b>-1,677</b>
Sn12/N33	NC2	0,293	-0,039	<b>39,565</b>
Sn13/N35	NC3	<b>-1,429</b>	11,753	<b>119,569</b>
Sn13/N35	NC15	<b>123,020</b>	-28,887	<b>-134,823</b>
Sn13/N35	NC7	121,718	<b>-28,933</b>	-127,177
Sn13/N35	NC14	114,431	<b>14,029</b>	-122,348
Sn14/N40	NC18	<b>-0,535</b>	2,814	8,873
Sn14/N40	NC7	<b>0,611</b>	-4,986	21,566
Sn14/N40	NC8	0,596	<b>-4,997</b>	21,571
Sn14/N40	NC13	0,126	<b>12,956</b>	30,537
Sn14/N40	NC15	0,546	-4,827	<b>-4,699</b>
Sn14/N40	NC2	0,470	-0,342	<b>127,458</b>
Sn15/N45	NC2	<b>-1,310</b>	-0,133	<b>228,280</b>
Sn15/N45	NC16	<b>1,270</b>	1,953	2,191
Sn15/N45	NC9	0,584	<b>-1,356</b>	104,465
Sn15/N45	NC7	1,042	<b>2,030</b>	55,852
Sn15/N45	NC18	1,201	-1,003	<b>-8,379</b>
Sn16/N47	NC11	<b>-17,153</b>	-0,003	5,791
Sn16/N47	NC16	<b>35,096</b>	<b>-0,119</b>	<b>-39,793</b>
Sn16/N47	NC18	11,703	<b>0,101</b>	-35,781
Sn16/N47	NC2	-0,058	0,007	<b>100,891</b>
Sn17/N53	NC18	<b>-1,635</b>	-0,972	-17,600
Sn17/N53	NC2	<b>2,138</b>	-0,127	<b>243,304</b>
Sn17/N53	NC9	-0,476	<b>-1,339</b>	102,146
Sn17/N53	NC7	1,552	<b>1,864</b>	14,289
Sn17/N53	NC16	1,000	1,793	<b>-41,323</b>
Sn18/N55	NC11	<b>-17,310</b>	0,011	42,254
Sn18/N55	NC7	<b>40,014</b>	0,256	105,135
Sn18/N55	NC2	0,095	<b>-0,039</b>	<b>115,927</b>
Sn18/N55	NC9	11,889	<b>125,181</b>	-97,590
Sn18/N55	NC18	11,826	124,307	<b>-150,383</b>
Sn26/N162	NC2	<b>-2,352</b>	-0,279	<b>226,173</b>
Sn26/N162	NC18	<b>1,861</b>	-0,597	<b>-7,552</b>
Sn26/N162	NC9	0,419	<b>-1,064</b>	103,497
Sn26/N162	NC7	1,255	<b>1,310</b>	56,522
Sn27/N164	NC12	<b>-13,506</b>	-2,417	4,905
Sn27/N164	NC15	<b>26,189</b>	-164,999	-185,792
Sn27/N164	NC7	26,180	<b>-165,765</b>	-166,534



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn27/N164	NC2	-0,047	<b>0,002</b>	104,974
Sn27/N164	NC16	26,189	-164,999	<b>-186,439</b>
Sn27/N164	NC9	10,086	-0,382	<b>160,369</b>
Sn29/N233	NC11	<b>-17,266</b>	-0,001	5,703
Sn29/N233	NC7	<b>31,703</b>	-0,066	-18,869
Sn29/N233	NC16	31,702	<b>-0,113</b>	<b>-39,002</b>
Sn29/N233	NC18	11,768	<b>0,105</b>	-35,747
Sn29/N233	NC2	0,015	0,000	<b>103,304</b>
Sn35/N252	NC2	<b>-12,018</b>	-0,440	<b>270,797</b>
Sn35/N252	NC16	<b>9,570</b>	0,775	<b>-18,401</b>
Sn35/N252	NC9	0,905	<b>-0,919</b>	117,034
Sn35/N252	NC7	6,951	<b>0,805</b>	44,576
Sn36/N254	NC11	<b>-17,276</b>	0,000	9,908
Sn36/N254	NC8	<b>31,814</b>	0,311	133,166
Sn36/N254	NC12	-17,276	<b>0,000</b>	10,061
Sn36/N254	NC9	11,855	<b>162,299</b>	-130,787
Sn36/N254	NC18	11,807	160,477	<b>-177,648</b>
Sn36/N254	NC7	31,814	0,312	<b>133,831</b>
Sn37/N321	NC11	<b>-0,692</b>	-13,826	-32,452
Sn37/N321	NC15	<b>1,648</b>	-19,883	-6,202
Sn37/N321	NC16	1,647	<b>-19,885</b>	-7,045
Sn37/N321	NC18	1,182	<b>20,704</b>	<b>-49,596</b>
Sn37/N321	NC2	0,356	-0,012	<b>171,619</b>
Sn38/N323	NC11	<b>-5,761</b>	19,975	-10,844
Sn38/N323	NC15	<b>11,249</b>	-5,506	140,545
Sn38/N323	NC7	10,635	<b>-5,513</b>	<b>145,638</b>
Sn38/N323	NC9	8,096	<b>173,542</b>	-140,749
Sn38/N323	NC18	9,865	173,162	<b>-142,607</b>
Sn39/N325	NC3	<b>-89,694</b>	-9,773	60,784
Sn39/N325	NC6	<b>82,505</b>	-9,762	21,865
Sn39/N325	NC16	73,413	<b>-24,060</b>	<b>-79,817</b>
Sn39/N325	NC18	25,329	<b>24,584</b>	-9,348
Sn39/N325	NC2	5,262	-0,089	<b>112,664</b>
Sn40/N327	NC6	<b>-0,037</b>	-22,641	27,646
Sn40/N327	NC3	<b>0,069</b>	-14,143	32,604
Sn40/N327	NC16	0,004	<b>-34,597</b>	-26,933
Sn40/N327	NC18	0,003	<b>35,570</b>	<b>-79,228</b>
Sn40/N327	NC2	0,000	0,028	<b>160,042</b>
Sn41/N329	NC4	<b>-0,599</b>	-4,627	171,361
Sn41/N329	NC5	<b>83,316</b>	-11,725	-32,975
Sn41/N329	NC16	33,787	<b>-14,214</b>	-22,007
Sn41/N329	NC9	72,482	<b>13,981</b>	-36,531
Sn41/N329	NC18	72,276	13,544	<b>-87,066</b>
Sn41/N329	NC3	-0,496	-4,558	<b>177,962</b>
Sn43/N336	NC12	<b>-13,527</b>	-0,014	27,421
Sn43/N336	NC15	<b>26,026</b>	-144,155	-172,408
Sn43/N336	NC7	26,022	<b>-147,755</b>	-154,589
Sn43/N336	NC1	0,016	<b>0,009</b>	50,191
Sn43/N336	NC16	26,026	-144,225	<b>-173,191</b>
Sn43/N336	NC9	15,848	-0,387	<b>160,034</b>
Sn44/N342	NC5	<b>-0,359</b>	0,000	145,753
Sn44/N342	NC3	<b>0,364</b>	0,000	147,531
Sn44/N342	NC9	0,000	<b>-0,267</b>	108,860
Sn44/N342	NC7	0,000	<b>0,238</b>	97,296
Sn44/N342	NC18	0,000	0,082	<b>-31,232</b>
Sn44/N342	NC2	0,000	0,000	<b>375,972</b>
Sn45/N344	NC12	<b>-14,496</b>	0,004	4,910
Sn45/N344	NC15	<b>27,487</b>	-0,108	-38,565
Sn45/N344	NC16	27,486	<b>-0,109</b>	<b>-39,188</b>
Sn45/N344	NC18	10,317	<b>0,110</b>	-35,540
Sn45/N344	NC2	-0,031	-0,008	<b>98,931</b>
Sn47/N510	NC11	<b>-117,048</b>	-14,614	<b>-133,143</b>
Sn47/N510	NC2	<b>0,000</b>	0,023	79,904
Sn47/N510	NC16	0,000	<b>-27,564</b>	65,866
Sn47/N510	NC18	0,000	<b>28,473</b>	4,051
Sn47/N510	NC6	-0,261	-11,364	<b>110,644</b>
Sn48/N511	NC1	<b>0,191</b>	0,007	35,476
Sn48/N511	NC6	<b>97,361</b>	-15,693	-97,927
Sn48/N511	NC16	78,413	<b>-29,740</b>	-104,363
Sn48/N511	NC18	41,726	<b>30,413</b>	-71,351
Sn48/N511	NC14	96,044	-15,703	<b>-110,173</b>
Sn48/N511	NC3	0,280	-12,054	<b>118,027</b>
Sn49/N512	NC4	<b>-86,571</b>	-12,066	-75,394
Sn49/N512	NC2	<b>0,000</b>	0,024	75,050
Sn49/N512	NC15	0,000	<b>-29,467</b>	22,384
Sn49/N512	NC18	0,000	<b>30,155</b>	52,354



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn49/N512	NC12	-86,207	-12,079	<b>-88,944</b>
Sn49/N512	NC5	-0,264	-20,924	<b>111,946</b>
Sn50/N590	NC5	<b>-0,058</b>	7,877	24,149
Sn50/N590	NC3	<b>0,056</b>	4,847	24,157
Sn50/N590	NC16	0,000	<b>-7,647</b>	1,010
Sn50/N590	NC13	-0,032	<b>7,880</b>	13,651
Sn50/N590	NC15	0,000	-7,647	<b>1,010</b>
Sn50/N590	NC2	-0,002	-0,010	<b>44,471</b>
Sn51/N592	NC5	<b>-0,092</b>	-26,916	39,980
Sn51/N592	NC3	<b>0,185</b>	0,000	76,920
Sn51/N592	NC7	0,000	<b>-199,374</b>	-94,881
Sn51/N592	NC2	0,000	<b>0,236</b>	119,866
Sn51/N592	NC15	0,000	-198,903	<b>-122,534</b>
Sn51/N592	NC9	0,000	-0,448	<b>182,350</b>
Sn52/N602	NC5	<b>-0,074</b>	-6,885	30,945
Sn52/N602	NC3	<b>0,071</b>	-3,609	30,956
Sn52/N602	NC15	-0,001	<b>-8,742</b>	17,581
Sn52/N602	NC17	0,000	<b>9,008</b>	<b>9,802</b>
Sn52/N602	NC2	-0,003	0,029	<b>56,881</b>
Sn53/N612	NC5	<b>-0,239</b>	<b>0,000</b>	98,791
Sn53/N612	NC3	<b>0,187</b>	9,197	77,667
Sn53/N612	NC9	0,000	<b>135,353</b>	-2,975
Sn53/N612	NC18	0,000	132,599	<b>-73,056</b>
Sn53/N612	NC8	0,000	0,578	<b>234,119</b>
Sn54/N620	NC5	<b>-0,180</b>	0,000	75,175
Sn54/N620	NC3	<b>0,140</b>	-20,080	59,012
Sn54/N620	NC8	0,000	<b>-154,896</b>	-49,348
Sn54/N620	NC2	0,000	<b>0,232</b>	147,275
Sn54/N620	NC16	0,000	-152,811	<b>-82,104</b>
Sn54/N620	NC9	0,000	-0,595	<b>241,194</b>
Sn55/N701	NC11	<b>-3,632</b>	-0,001	1,377
Sn55/N701	NC7	<b>5,512</b>	0,003	1,863
Sn55/N701	NC10	2,684	<b>-0,003</b>	1,816
Sn55/N701	NC8	5,512	<b>0,003</b>	1,864
Sn55/N701	NC17	2,685	-0,002	<b>1,350</b>
Sn55/N701	NC1	0,003	0,000	<b>2,085</b>
Sn56/N703	NC11	<b>-3,272</b>	-0,002	0,636
Sn56/N703	NC8	<b>5,012</b>	0,001	0,822
Sn56/N703	NC4	-3,271	<b>-0,002</b>	0,848
Sn56/N703	NC7	5,012	<b>0,001</b>	0,822
Sn56/N703	NC16	5,011	0,001	<b>0,609</b>
Sn56/N703	NC1	0,002	0,000	<b>0,948</b>
Sn62/N720	NC6	<b>-0,005</b>	-7,259	2,495
Sn62/N720	NC4	<b>0,002</b>	-11,603	1,305
Sn62/N720	NC16	-0,001	<b>-17,497</b>	-14,625
Sn62/N720	NC18	-0,001	<b>18,082</b>	<b>-21,589</b>
Sn62/N720	NC2	0,000	0,010	<b>4,287</b>
Sn63/N729	NC6	<b>-0,003</b>	-4,138	1,816
Sn63/N729	NC4	<b>0,003</b>	-1,856	1,619
Sn63/N729	NC16	0,002	<b>-4,783</b>	1,393
Sn63/N729	NC9	0,002	<b>4,875</b>	1,821
Sn63/N729	NC11	0,002	-1,862	<b>1,190</b>
Sn63/N729	NC1	0,000	0,014	<b>2,014</b>
Sn64/N731	NC5	<b>-0,001</b>	-1,899	0,499
Sn64/N731	NC18	<b>0,003</b>	<b>2,767</b>	<b>0,153</b>
Sn64/N731	NC8	0,003	<b>-2,673</b>	0,447
Sn64/N731	NC3	0,002	-1,077	<b>0,955</b>
Sn65/N735	NC5	<b>-0,006</b>	4,115	3,218
Sn65/N735	NC3	<b>0,009</b>	6,588	<b>4,404</b>
Sn65/N735	NC16	0,001	<b>-6,550</b>	2,186
Sn65/N735	NC11	0,008	<b>6,588</b>	3,540
Sn65/N735	NC15	0,001	-6,550	<b>2,186</b>
Sn66/N737	NC6	<b>-0,005</b>	5,601	2,871
Sn66/N737	NC4	<b>0,004</b>	8,916	2,588
Sn66/N737	NC15	0,000	<b>-8,897</b>	2,086
Sn66/N737	NC11	0,003	<b>8,917</b>	<b>1,856</b>
Sn66/N737	NC1	0,000	0,001	<b>3,256</b>
Sn67/N744	NC2	<b>-0,234</b>	0,000	<b>206,137</b>
Sn67/N744	NC16	<b>0,533</b>	<b>-2,978</b>	<b>-48,212</b>
Sn67/N744	NC13	0,250	<b>2,917</b>	-10,209
Sn68/N746	NC9	<b>-0,152</b>	-0,002	46,757
Sn68/N746	NC16	<b>0,402</b>	<b>-0,315</b>	<b>-59,807</b>
Sn68/N746	NC18	-0,105	<b>0,187</b>	-31,101
Sn68/N746	NC2	-0,086	-0,001	<b>221,794</b>
Sn69/N750	NC12	<b>-0,153</b>	1,188	<b>1,658</b>
Sn69/N750	NC15	<b>0,330</b>	<b>-1,876</b>	16,249



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn69/N750	NC6	0,120	<b>2,696</b>	7,468
Sn69/N750	NC2	0,051	0,004	<b>50,921</b>
Sn70/N769	NC5	<b>-0,305</b>	0,000	124,265
Sn70/N769	NC3	<b>0,305</b>	-0,001	124,269
Sn70/N769	NC9	-0,002	<b>-0,179</b>	74,061
Sn70/N769	NC7	-0,003	<b>0,184</b>	75,703
Sn70/N769	NC14	0,028	0,000	<b>-9,576</b>
Sn70/N769	NC2	0,000	0,000	<b>203,496</b>
Sn71/N771	NC5	<b>-0,305</b>	0,001	124,278
Sn71/N771	NC3	<b>0,305</b>	-0,002	124,271
Sn71/N771	NC10	-0,004	<b>-0,180</b>	74,071
Sn71/N771	NC8	-0,008	<b>0,213</b>	87,507
Sn71/N771	NC12	-0,028	-0,002	<b>-9,562</b>
Sn71/N771	NC2	0,000	0,000	<b>203,436</b>
Sn72/N1294	NC5	<b>-0,175</b>	0,000	72,483
Sn72/N1294	NC3	<b>0,215</b>	<b>0,000</b>	88,588
Sn72/N1294	NC9	0,000	<b>184,126</b>	-56,057
Sn72/N1294	NC18	0,000	178,756	<b>-114,611</b>
Sn72/N1294	NC8	0,000	0,486	<b>196,643</b>
Sn73/N1296	NC5	<b>-0,107</b>	-0,003	43,819
Sn73/N1296	NC3	<b>0,107</b>	-0,003	43,967
Sn73/N1296	NC10	0,000	<b>-0,073</b>	29,417
Sn73/N1296	NC8	0,000	<b>0,106</b>	44,948
Sn73/N1296	NC17	0,000	-0,010	<b>4,801</b>
Sn73/N1296	NC2	0,000	-0,006	<b>86,925</b>
Sn74/N1299	NC11	<b>-0,292</b>	0,000	-113,691
Sn74/N1299	NC13	<b>0,377</b>	0,000	-147,656
Sn74/N1299	NC16	0,000	<b>-0,801</b>	-317,311
Sn74/N1299	NC18	0,000	<b>0,833</b>	<b>-330,129</b>
Sn74/N1299	NC2	0,000	0,000	<b>634,691</b>
Sn75/N1300	NC12	<b>-0,153</b>	0,000	-59,361
Sn75/N1300	NC14	<b>0,246</b>	0,000	-96,757
Sn75/N1300	NC16	0,000	<b>-0,505</b>	<b>-200,370</b>
Sn75/N1300	NC18	0,000	<b>0,487</b>	-193,292
Sn75/N1300	NC2	0,000	0,000	<b>333,702</b>
Sn76/N1301	NC11	<b>-0,357</b>	0,000	-139,622
Sn76/N1301	NC13	<b>0,150</b>	0,000	-56,781
Sn76/N1301	NC16	0,000	<b>-0,830</b>	-328,700
Sn76/N1301	NC18	0,000	<b>0,851</b>	<b>-337,328</b>
Sn76/N1301	NC2	0,000	0,000	<b>652,817</b>
Sn77/N1302	NC12	<b>-0,281</b>	0,000	-109,238
Sn77/N1302	NC14	<b>0,128</b>	0,000	-48,015
Sn77/N1302	NC16	0,000	<b>-0,681</b>	<b>-269,077</b>
Sn77/N1302	NC18	0,000	<b>0,674</b>	-266,335
Sn77/N1302	NC2	0,000	0,000	<b>524,773</b>
Sn78/N1304	NC12	<b>-0,109</b>	0,000	-41,921
Sn78/N1304	NC13	<b>0,187</b>	0,000	-73,307
Sn78/N1304	NC16	0,000	<b>-0,436</b>	<b>-172,626</b>
Sn78/N1304	NC18	0,000	<b>0,396</b>	-156,879
Sn78/N1304	NC2	0,000	0,000	<b>273,325</b>
Sn79/N1306	NC12	<b>-0,228</b>	0,000	-87,865
Sn79/N1306	NC14	<b>0,235</b>	0,000	-90,767
Sn79/N1306	NC16	0,000	<b>-0,643</b>	-254,018
Sn79/N1306	NC18	0,000	<b>0,653</b>	<b>-257,915</b>
Sn79/N1306	NC2	0,000	0,000	<b>510,183</b>
Sn80/N1308	NC12	<b>-0,052</b>	0,000	-17,847
Sn80/N1308	NC14	<b>0,186</b>	0,000	-71,154
Sn80/N1308	NC16	0,000	<b>-0,504</b>	-198,287
Sn80/N1308	NC18	0,000	<b>0,506</b>	<b>-199,168</b>
Sn80/N1308	NC2	0,000	0,000	<b>377,173</b>
Sn81/N1310	NC11	<b>-0,064</b>	0,000	-23,965
Sn81/N1310	NC13	<b>0,092</b>	0,000	-35,209
Sn81/N1310	NC16	0,000	<b>-0,209</b>	-81,866
Sn81/N1310	NC18	0,000	<b>0,319</b>	<b>-125,872</b>
Sn81/N1310	NC2	0,000	0,000	<b>185,067</b>
Sn82/N1312	NC11	<b>-0,233</b>	0,000	-89,948
Sn82/N1312	NC13	<b>0,037</b>	0,000	-11,520
Sn82/N1312	NC16	0,000	<b>-0,409</b>	-160,356
Sn82/N1312	NC18	0,000	<b>0,478</b>	<b>-188,087</b>
Sn82/N1312	NC2	0,000	0,000	<b>377,314</b>
Sn83/N1315	NC5	<b>-0,273</b>	0,000	111,320
Sn83/N1315	NC3	<b>0,304</b>	0,000	123,663
Sn83/N1315	NC9	0,000	<b>-0,378</b>	153,158
Sn83/N1315	NC7	0,000	<b>0,177</b>	72,782
Sn83/N1315	NC16	0,000	0,012	<b>6,495</b>
Sn83/N1315	NC2	0,000	0,000	<b>283,014</b>



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn85/N1344	NC3	<b>-0,615</b>	-0,004	-0,694
Sn85/N1344	NC7	<b>0,928</b>	-0,003	-1,093
Sn85/N1344	NC11	-0,615	<b>-0,004</b>	-0,635
Sn85/N1344	NC10	0,615	<b>0,000</b>	0,218
Sn85/N1344	NC8	0,928	-0,003	<b>-1,098</b>
Sn85/N1344	NC17	0,615	-0,001	<b>0,538</b>
Sn86/N1345	NC11	<b>-4,164</b>	-0,003	2,263
Sn86/N1345	NC7	<b>6,301</b>	0,006	3,117
Sn86/N1345	NC10	2,841	<b>-0,005</b>	2,708
Sn86/N1345	NC8	6,301	<b>0,006</b>	3,119
Sn86/N1345	NC17	2,841	-0,003	<b>1,915</b>
Sn86/N1345	NC1	0,001	0,000	<b>3,322</b>
Sn87/N1822	NC6	<b>-0,003</b>	-2,188	2,003
Sn87/N1822	NC3	<b>0,004</b>	-3,548	2,229
Sn87/N1822	NC8	0,002	<b>-5,413</b>	2,137
Sn87/N1822	NC9	0,002	<b>5,561</b>	2,122
Sn87/N1822	NC2	0,000	0,012	<b>1,482</b>
Sn87/N1822	NC10	0,002	5,552	<b>2,325</b>
Sn88/N1824	NC12	<b>-0,003</b>	-1,579	-0,954
Sn88/N1824	NC18	<b>0,003</b>	<b>2,701</b>	<b>-1,285</b>
Sn88/N1824	NC7	0,003	<b>-2,628</b>	-0,025
Sn88/N1824	NC2	0,000	0,004	<b>2,948</b>
Sn89/N1831	NC6	<b>-0,003</b>	-12,616	0,769
Sn89/N1831	NC3	<b>0,005</b>	-21,808	1,832
Sn89/N1831	NC7	0,001	<b>-32,236</b>	-7,415
Sn89/N1831	NC9	0,001	<b>33,488</b>	1,350
Sn89/N1831	NC18	0,001	33,129	<b>-21,021</b>
Sn89/N1831	NC2	0,000	0,058	<b>5,513</b>
Sn90/N1828	NC11	<b>-2,159</b>	-1,474	2,609
Sn90/N1828	NC15	<b>4,244</b>	1,423	-9,116
Sn90/N1828	NC9	3,075	<b>-1,871</b>	4,364
Sn90/N1828	NC7	4,046	<b>1,590</b>	-0,945
Sn90/N1828	NC18	3,650	-1,361	<b>-14,862</b>
Sn90/N1828	NC2	0,276	-0,043	<b>74,453</b>
Sn91/N2102	NC5	<b>-0,245</b>	-16,872	102,104
Sn91/N2102	NC3	<b>0,205</b>	18,881	86,178
Sn91/N2102	NC8	0,000	<b>-183,710</b>	105,827
Sn91/N2102	NC9	0,000	<b>130,733</b>	120,761
Sn91/N2102	NC12	0,071	19,874	<b>31,427</b>
Sn91/N2102	NC2	0,000	0,246	<b>183,426</b>
Sn92/N2103	NC5	<b>-0,185</b>	0,000	75,094
Sn92/N2103	NC3	<b>0,185</b>	0,000	75,060
Sn92/N2103	NC9	0,000	<b>-0,233</b>	94,463
Sn92/N2103	NC7	0,000	<b>0,081</b>	33,636
Sn92/N2103	NC16	0,000	-0,006	<b>-1,577</b>
Sn92/N2103	NC2	0,000	0,000	<b>150,368</b>
Sn93/N2105	NC5	<b>-0,176</b>	0,000	71,421
Sn93/N2105	NC3	<b>0,175</b>	0,000	71,377
Sn93/N2105	NC9	0,000	<b>-0,126</b>	51,465
Sn93/N2105	NC7	0,000	<b>0,175</b>	71,063
Sn93/N2105	NC18	0,000	-0,041	<b>17,447</b>
Sn93/N2105	NC2	0,000	0,000	<b>142,867</b>
Sn94/N2109	NC5	<b>-0,070</b>	0,000	29,227
Sn94/N2109	NC3	<b>0,070</b>	0,000	29,180
Sn94/N2109	NC9	0,000	<b>-0,092</b>	38,098
Sn94/N2109	NC7	0,000	<b>0,069</b>	28,625
Sn94/N2109	NC12	0,027	0,000	<b>11,771</b>
Sn94/N2109	NC2	0,000	0,000	<b>57,082</b>
Sn95/N2111	NC5	<b>-0,180</b>	0,000	74,196
Sn95/N2111	NC3	<b>0,180</b>	0,000	74,184
Sn95/N2111	NC9	0,000	<b>-0,227</b>	92,637
Sn95/N2111	NC8	0,000	<b>0,181</b>	74,420
Sn95/N2111	NC18	0,000	-0,068	<b>28,746</b>
Sn95/N2111	NC2	0,000	0,000	<b>147,077</b>
Sn96/N2112	NC5	<b>-0,134</b>	0,000	54,913
Sn96/N2112	NC3	<b>0,135</b>	0,000	55,056
Sn96/N2112	NC9	0,000	<b>-0,171</b>	69,787
Sn96/N2112	NC8	0,000	<b>0,105</b>	43,398
Sn96/N2112	NC15	0,000	0,042	<b>17,744</b>
Sn96/N2112	NC2	0,000	0,000	<b>109,518</b>

#### 4.7. Reacties

Niet-lineaire berekening, Extreem : Knoop

Selectie : Alle

Klasse : SLS-NL



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn1/N1	NC27	<b>-0,002</b>	6,439	-1,873
Sn1/N1	NC23	<b>0,074</b>	6,370	32,927
Sn1/N1	NC25	-0,001	<b>-10,183</b>	<b>-20,239</b>
Sn1/N1	NC21	0,033	<b>10,097</b>	20,655
Sn1/N1	NC19	0,005	0,000	<b>131,736</b>
Sn2/N3	NC20	<b>-76,391</b>	-18,102	<b>-91,412</b>
Sn2/N3	NC25	<b>15,191</b>	-100,339	-10,283
Sn2/N3	NC24	15,191	<b>-100,401</b>	-10,388
Sn2/N3	NC22	3,036	<b>3,244</b>	99,814
Sn2/N3	NC26	3,884	2,177	<b>119,338</b>
Sn3/N5	NC21	<b>-64,634</b>	6,481	26,459
Sn3/N5	NC25	<b>57,601</b>	-9,504	34,461
Sn3/N5	NC24	57,596	<b>-9,504</b>	34,591
Sn3/N5	NC20	-64,549	<b>6,481</b>	26,881
Sn3/N5	NC27	22,057	5,122	<b>-15,480</b>
Sn3/N5	NC19	0,732	-0,074	<b>102,370</b>
Sn4/N11	NC26	<b>0,000</b>	-0,165	69,510
Sn4/N11	NC22	<b>0,218</b>	0,000	90,758
Sn4/N11	NC25	0,000	<b>-0,235</b>	-90,542
Sn4/N11	NC27	0,000	<b>0,236</b>	<b>-91,037</b>
Sn4/N11	NC19	0,000	0,000	<b>454,881</b>
Sn5/N13	NC20	<b>-10,528</b>	0,003	21,199
Sn5/N13	NC25	<b>19,723</b>	<b>-0,035</b>	<b>-8,101</b>
Sn5/N13	NC27	7,324	<b>0,030</b>	-5,783
Sn5/N13	NC19	0,006	-0,002	<b>71,726</b>
Sn6/N15	NC26	<b>0,000</b>	-0,064	27,284
Sn6/N15	NC21	<b>0,066</b>	0,000	28,318
Sn6/N15	NC25	0,000	<b>-0,193</b>	<b>-75,183</b>
Sn6/N15	NC27	0,000	<b>0,141</b>	-54,607
Sn6/N15	NC19	0,000	0,000	<b>220,388</b>
Sn7/N17	NC27	<b>0,000</b>	<b>0,266</b>	-103,022
Sn7/N17	NC20	<b>0,193</b>	0,000	80,642
Sn7/N17	NC25	0,000	<b>-0,277</b>	<b>-107,215</b>
Sn7/N17	NC19	0,000	0,000	<b>453,629</b>
Sn8/N19	NC23	<b>-0,983</b>	0,479	60,445
Sn8/N19	NC20	<b>1,413</b>	-0,452	72,722
Sn8/N19	NC26	-0,239	<b>-0,857</b>	79,510
Sn8/N19	NC24	-0,024	<b>1,153</b>	47,440
Sn8/N19	NC27	-0,093	-0,701	<b>39,683</b>
Sn8/N19	NC19	-0,335	-0,144	<b>163,560</b>
Sn9/N21	NC21	<b>0,216</b>	8,661	90,895
Sn9/N21	NC23	<b>59,030</b>	4,834	-52,412
Sn9/N21	NC25	56,149	<b>-7,409</b>	<b>-68,736</b>
Sn9/N21	NC20	0,217	<b>8,661</b>	<b>91,204</b>
Sn10/N23	NC20	<b>-75,928</b>	<b>10,512</b>	<b>-73,536</b>
Sn10/N23	NC23	<b>0,186</b>	8,075	<b>79,264</b>
Sn10/N23	NC24	0,000	<b>-12,358</b>	60,922
Sn12/N33	NC20	<b>-0,676</b>	0,460	7,822
Sn12/N33	NC24	<b>1,490</b>	<b>-2,220</b>	9,616
Sn12/N33	NC23	0,621	<b>1,900</b>	14,216
Sn12/N33	NC27	-0,597	0,389	<b>4,068</b>
Sn12/N33	NC19	0,210	-0,028	<b>28,251</b>
Sn13/N35	NC20	<b>-1,014</b>	7,848	<b>82,651</b>
Sn13/N35	NC25	<b>80,668</b>	-19,296	-81,021
Sn13/N35	NC24	80,653	<b>-19,298</b>	<b>-81,718</b>
Sn13/N35	NC22	73,659	<b>9,385</b>	-67,270
Sn14/N40	NC27	<b>-0,268</b>	1,748	30,196
Sn14/N40	NC24	<b>0,430</b>	-3,330	<b>21,068</b>
Sn14/N40	NC25	0,420	<b>-3,337</b>	21,073
Sn14/N40	NC23	0,212	<b>8,474</b>	35,147
Sn14/N40	NC19	0,334	-0,245	<b>91,655</b>
Sn15/N45	NC19	<b>-0,925</b>	-0,096	<b>163,605</b>
Sn15/N45	NC25	<b>0,678</b>	1,370	48,237
Sn15/N45	NC26	0,355	<b>-0,936</b>	81,088
Sn15/N45	NC24	0,672	<b>1,373</b>	48,696
Sn15/N45	NC27	0,618	-0,804	<b>41,182</b>
Sn16/N47	NC20	<b>-11,403</b>	-0,001	21,795
Sn16/N47	NC25	<b>23,382</b>	<b>-0,038</b>	<b>-8,610</b>
Sn16/N47	NC27	7,787	<b>0,027</b>	-5,924
Sn16/N47	NC19	-0,041	0,004	<b>72,401</b>
Sn17/N53	NC27	<b>-0,779</b>	-0,792	36,653
Sn17/N53	NC19	<b>1,505</b>	-0,091	<b>173,864</b>
Sn17/N53	NC26	-0,276	<b>-0,924</b>	79,710
Sn17/N53	NC24	1,072	<b>1,263</b>	21,146
Sn17/N53	NC25	1,066	1,261	<b>20,982</b>
Sn18/N55	NC20	<b>-11,485</b>	0,003	46,669



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn18/N55	NC24	<b>26,682</b>	0,181	75,694
Sn18/N55	NC19	0,067	<b>-0,027</b>	<b>83,139</b>
Sn18/N55	NC26	7,930	<b>83,439</b>	-59,205
Sn18/N55	NC27	7,907	83,102	<b>-80,263</b>
Sn26/N162	NC19	<b>-1,655</b>	-0,201	<b>162,084</b>
Sn26/N162	NC27	<b>0,863</b>	-0,572	<b>41,025</b>
Sn26/N162	NC26	0,206	<b>-0,751</b>	80,323
Sn26/N162	NC24	0,733	<b>0,887</b>	48,960
Sn27/N164	NC20	<b>-8,973</b>	-1,146	22,613
Sn27/N164	NC24	<b>17,451</b>	<b>-110,855</b>	-105,748
Sn27/N164	NC19	-0,033	<b>0,002</b>	75,575
Sn27/N164	NC25	17,451	-110,836	<b>-106,162</b>
Sn27/N164	NC26	6,722	-0,266	<b>112,554</b>
Sn29/N233	NC20	<b>-11,467</b>	-0,001	22,101
Sn29/N233	NC24	<b>21,135</b>	-0,033	-7,300
Sn29/N233	NC25	21,135	<b>-0,034</b>	<b>-7,731</b>
Sn29/N233	NC27	7,841	<b>0,028</b>	-5,571
Sn29/N233	NC19	0,011	0,000	<b>74,149</b>
Sn35/N252	NC19	<b>-8,449</b>	-0,317	<b>194,216</b>
Sn35/N252	NC25	<b>4,229</b>	0,543	<b>42,972</b>
Sn35/N252	NC26	0,169	<b>-0,669</b>	91,726
Sn35/N252	NC24	4,206	<b>0,545</b>	43,481
Sn36/N254	NC21	<b>-11,460</b>	0,000	25,229
Sn36/N254	NC25	<b>21,212</b>	0,220	94,751
Sn36/N254	NC20	-11,460	<b>0,000</b>	25,187
Sn36/N254	NC26	7,907	<b>108,243</b>	-81,593
Sn36/N254	NC27	7,888	107,677	<b>-100,199</b>
Sn36/N254	NC24	21,212	0,221	<b>95,189</b>
Sn37/N321	NC20	<b>-0,317</b>	-9,219	9,945
Sn37/N321	NC25	<b>0,996</b>	<b>-13,196</b>	19,769
Sn37/N321	NC27	0,578	<b>13,754</b>	<b>-9,566</b>
Sn37/N321	NC19	0,262	-0,008	<b>123,244</b>
Sn38/N323	NC20	<b>-3,669</b>	9,795	2,275
Sn38/N323	NC25	<b>7,046</b>	-3,675	99,313
Sn38/N323	NC24	7,044	<b>-3,675</b>	<b>99,476</b>
Sn38/N323	NC26	5,277	<b>115,750</b>	-91,199
Sn38/N323	NC27	5,802	115,745	<b>-91,720</b>
Sn39/N325	NC20	<b>-60,021</b>	-6,517	47,150
Sn39/N325	NC23	<b>54,277</b>	-6,510	20,898
Sn39/N325	NC25	50,937	<b>-15,995</b>	<b>-31,275</b>
Sn39/N325	NC27	18,866	<b>16,323</b>	15,559
Sn39/N325	NC19	3,671	-0,063	<b>81,713</b>
Sn40/N327	NC19	<b>0,000</b>	0,020	<b>115,147</b>
Sn40/N327	NC22	<b>0,065</b>	-15,092	26,801
Sn40/N327	NC25	0,003	<b>-22,992</b>	12,323
Sn40/N327	NC27	0,003	<b>23,651</b>	<b>-22,698</b>
Sn41/N329	NC21	<b>-0,388</b>	-3,007	124,001
Sn41/N329	NC22	<b>54,092</b>	-7,728	-10,720
Sn41/N329	NC25	22,141	<b>-9,088</b>	19,326
Sn41/N329	NC26	48,612	<b>9,381</b>	-15,012
Sn41/N329	NC27	48,360	9,302	<b>-24,722</b>
Sn41/N329	NC20	-0,319	-2,961	<b>128,403</b>
Sn43/N336	NC21	<b>-8,973</b>	-0,005	34,636
Sn43/N336	NC24	<b>17,348</b>	<b>-99,383</b>	-98,234
Sn43/N336	NC20	-8,973	<b>-0,005</b>	34,733
Sn43/N336	NC25	17,348	-99,370	<b>-98,703</b>
Sn43/N336	NC26	10,564	-0,269	<b>112,324</b>
Sn44/N342	NC25	<b>0,000</b>	0,205	83,693
Sn44/N342	NC20	<b>0,290</b>	0,000	117,845
Sn44/N342	NC26	0,000	<b>-0,226</b>	91,985
Sn44/N342	NC24	0,000	<b>0,207</b>	84,382
Sn44/N342	NC27	0,000	-0,135	<b>55,775</b>
Sn44/N342	NC19	0,000	0,000	<b>270,151</b>
Sn45/N344	NC21	<b>-9,632</b>	0,002	20,614
Sn45/N344	NC24	<b>18,318</b>	-0,034	-8,459
Sn45/N344	NC25	18,318	<b>-0,035</b>	<b>-8,875</b>
Sn45/N344	NC27	6,875	<b>0,034</b>	-6,420
Sn45/N344	NC19	-0,022	-0,006	<b>70,848</b>
Sn47/N510	NC20	<b>-77,487</b>	-9,736	<b>-74,609</b>
Sn47/N510	NC23	<b>0,180</b>	-7,577	<b>77,144</b>
Sn47/N510	NC25	0,000	<b>-18,342</b>	59,688
Sn47/N510	NC27	0,000	<b>18,948</b>	18,495
Sn48/N511	NC21	<b>0,195</b>	-8,038	82,859
Sn48/N511	NC23	<b>63,197</b>	-10,461	<b>-59,577</b>
Sn48/N511	NC25	53,179	<b>-19,796</b>	-57,260
Sn48/N511	NC27	29,170	<b>20,254</b>	-35,734



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn48/N511	NC20	0,195	-8,038	<b>83,120</b>
Sn49/N512	NC21	<b>-57,753</b>	-8,042	<b>-45,977</b>
Sn49/N512	NC22	<b>0,180</b>	-13,948	<b>77,505</b>
Sn49/N512	NC25	0,000	<b>-19,612</b>	28,358
Sn49/N512	NC27	0,000	<b>20,079</b>	48,910
Sn50/N590	NC19	<b>-0,002</b>	-0,007	<b>32,349</b>
Sn50/N590	NC22	<b>0,044</b>	5,249	18,801
Sn50/N590	NC25	-0,001	<b>-5,079</b>	10,374
Sn50/N590	NC23	0,039	<b>5,249</b>	16,809
Sn50/N590	NC24	-0,001	-5,079	<b>10,374</b>
Sn51/N592	NC26	<b>0,000</b>	-0,315	<b>128,464</b>
Sn51/N592	NC20	<b>0,138</b>	0,000	57,754
Sn51/N592	NC24	0,000	<b>-132,935</b>	<b>-56,733</b>
Sn51/N592	NC19	0,000	<b>0,166</b>	86,467
Sn52/N602	NC19	<b>-0,002</b>	0,021	<b>41,393</b>
Sn52/N602	NC22	<b>0,056</b>	-4,587	24,103
Sn52/N602	NC24	-0,001	<b>-5,792</b>	24,142
Sn52/N602	NC26	-0,001	<b>5,982</b>	<b>18,955</b>
Sn53/N612	NC27	<b>0,000</b>	89,193	<b>-14,375</b>
Sn53/N612	NC22	<b>0,180</b>	<b>0,000</b>	74,623
Sn53/N612	NC26	0,000	<b>90,479</b>	6,685
Sn53/N612	NC24	0,000	0,406	<b>165,018</b>
Sn54/N620	NC25	<b>0,000</b>	<b>-103,524</b>	<b>-25,234</b>
Sn54/N620	NC22	<b>0,139</b>	0,000	58,008
Sn54/N620	NC19	0,000	<b>0,164</b>	106,079
Sn54/N620	NC26	0,000	-0,417	<b>169,122</b>
Sn55/N701	NC20	<b>-2,419</b>	-0,001	1,536
Sn55/N701	NC24	<b>3,675</b>	0,003	1,551
Sn55/N701	NC27	1,789	<b>-0,003</b>	1,520
Sn55/N701	NC25	3,675	<b>0,003</b>	<b>1,552</b>
Sn55/N701	NC26	1,791	-0,003	<b>1,517</b>
Sn56/N703	NC21	<b>-2,181</b>	<b>-0,002</b>	0,705
Sn56/N703	NC25	<b>3,341</b>	0,001	<b>0,688</b>
Sn56/N703	NC23	1,369	<b>0,001</b>	0,695
Sn56/N703	NC26	2,213	-0,001	<b>0,738</b>
Sn62/N720	NC26	<b>0,000</b>	12,026	0,413
Sn62/N720	NC23	<b>0,004</b>	-4,846	2,008
Sn62/N720	NC24	0,000	<b>-11,646</b>	-0,381
Sn62/N720	NC27	0,000	<b>12,033</b>	<b>-4,309</b>
Sn62/N720	NC19	0,000	0,007	<b>3,205</b>
Sn63/N729	NC19	<b>0,000</b>	0,021	1,401
Sn63/N729	NC23	<b>0,003</b>	-2,758	1,515
Sn63/N729	NC25	0,001	<b>-3,182</b>	1,512
Sn63/N729	NC26	0,001	<b>3,251</b>	1,518
Sn63/N729	NC20	0,002	-1,235	<b>1,376</b>
Sn63/N729	NC27	0,001	3,248	<b>1,537</b>
Sn64/N731	NC19	<b>0,000</b>	-0,007	0,659
Sn64/N731	NC27	<b>0,002</b>	<b>1,843</b>	<b>0,311</b>
Sn64/N731	NC25	0,002	<b>-1,783</b>	0,373
Sn64/N731	NC20	0,001	-0,719	<b>0,712</b>
Sn65/N735	NC19	<b>0,000</b>	0,001	2,890
Sn65/N735	NC20	<b>0,007</b>	<b>4,391</b>	<b>3,481</b>
Sn65/N735	NC25	0,000	<b>-4,364</b>	2,562
Sn65/N735	NC24	0,000	-4,364	<b>2,562</b>
Sn66/N737	NC25	<b>0,000</b>	-5,931	2,362
Sn66/N737	NC23	<b>0,004</b>	3,736	2,394
Sn66/N737	NC24	0,000	<b>-5,931</b>	2,362
Sn66/N737	NC20	0,004	<b>5,944</b>	<b>2,204</b>
Sn66/N737	NC19	0,000	0,001	<b>2,443</b>
Sn67/N744	NC19	<b>-0,165</b>	0,000	<b>146,146</b>
Sn67/N744	NC25	<b>0,309</b>	<b>-1,906</b>	<b>0,160</b>
Sn67/N744	NC23	0,132	<b>1,944</b>	11,150
Sn68/N746	NC26	<b>-0,104</b>	-0,022	39,823
Sn68/N746	NC25	<b>0,248</b>	<b>-0,130</b>	<b>-7,010</b>
Sn68/N746	NC21	-0,038	<b>0,081</b>	38,810
Sn68/N746	NC19	-0,061	-0,001	<b>156,613</b>
Sn69/N750	NC27	<b>-0,091</b>	0,776	11,454
Sn69/N750	NC24	<b>0,223</b>	<b>-1,235</b>	16,649
Sn69/N750	NC22	0,120	<b>1,799</b>	16,327
Sn69/N750	NC23	0,099	1,799	<b>6,920</b>
Sn69/N750	NC19	0,037	0,003	<b>35,890</b>
Sn70/N769	NC25	<b>-0,002</b>	0,145	59,814
Sn70/N769	NC20	<b>0,226</b>	-0,001	92,192
Sn70/N769	NC26	-0,002	<b>-0,142</b>	58,723
Sn70/N769	NC24	-0,002	<b>0,145</b>	59,815
Sn70/N769	NC23	0,056	0,000	<b>24,286</b>



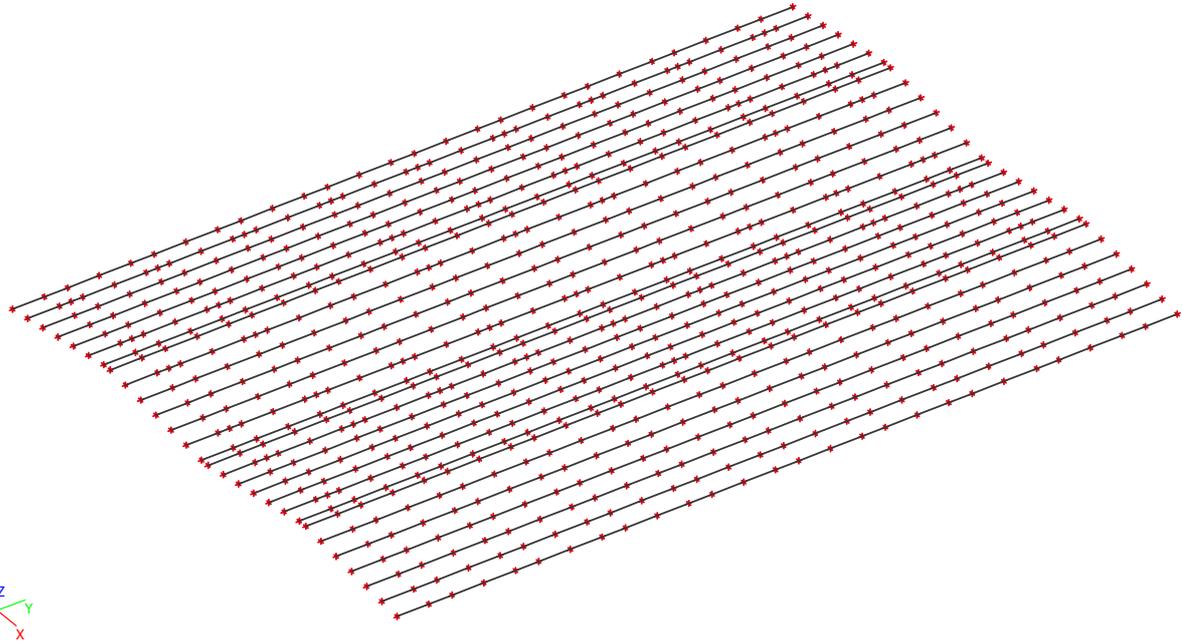
Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn70/N769	NC19	0,000	0,000	<b>145,011</b>
Sn71/N771	NC25	<b>-0,005</b>	<b>0,164</b>	67,680
Sn71/N771	NC22	<b>0,226</b>	-0,001	92,208
Sn71/N771	NC27	-0,002	<b>-0,142</b>	58,726
Sn71/N771	NC21	0,056	-0,001	<b>24,294</b>
Sn71/N771	NC19	0,000	0,000	<b>144,968</b>
Sn72/N1294	NC25	<b>0,000</b>	0,342	<b>138,863</b>
Sn72/N1294	NC20	<b>0,160</b>	<b>0,000</b>	66,014
Sn72/N1294	NC26	0,000	<b>123,280</b>	-30,267
Sn72/N1294	NC27	0,000	120,990	<b>-48,072</b>
Sn73/N1296	NC25	<b>0,000</b>	<b>0,081</b>	34,489
Sn73/N1296	NC20	<b>0,082</b>	-0,002	33,828
Sn73/N1296	NC27	0,000	<b>-0,060</b>	24,132
Sn73/N1296	NC26	0,000	-0,052	<b>21,299</b>
Sn73/N1296	NC19	0,000	-0,005	<b>62,472</b>
Sn74/N1299	NC25	<b>0,000</b>	<b>-0,229</b>	-88,212
Sn74/N1299	NC21	<b>0,110</b>	0,000	47,339
Sn74/N1299	NC27	0,000	<b>0,250</b>	<b>-96,382</b>
Sn74/N1299	NC19	0,000	0,000	<b>450,400</b>
Sn75/N1300	NC23	<b>-0,003</b>	0,000	0,830
Sn75/N1300	NC20	<b>0,061</b>	0,000	26,182
Sn75/N1300	NC25	0,000	<b>-0,174</b>	<b>-67,917</b>
Sn75/N1300	NC27	0,000	<b>0,163</b>	-63,350
Sn75/N1300	NC19	0,000	0,000	<b>237,258</b>
Sn76/N1301	NC19	<b>0,000</b>	0,000	<b>462,851</b>
Sn76/N1301	NC23	<b>0,204</b>	0,000	85,241
Sn76/N1301	NC25	0,000	<b>-0,249</b>	-95,993
Sn76/N1301	NC27	0,000	<b>0,263</b>	<b>-101,816</b>
Sn77/N1302	NC25	<b>0,000</b>	<b>-0,209</b>	<b>-80,049</b>
Sn77/N1302	NC22	<b>0,161</b>	0,000	68,025
Sn77/N1302	NC27	0,000	<b>0,205</b>	-78,355
Sn77/N1302	NC19	0,000	0,000	<b>372,337</b>
Sn78/N1304	NC25	<b>0,000</b>	<b>-0,157</b>	<b>-60,945</b>
Sn78/N1304	NC21	<b>0,058</b>	0,000	25,128
Sn78/N1304	NC27	0,000	<b>0,132</b>	-50,786
Sn78/N1304	NC19	0,000	0,000	<b>194,420</b>
Sn79/N1306	NC24	<b>0,000</b>	-0,181	-68,786
Sn79/N1306	NC20	<b>0,094</b>	0,000	41,145
Sn79/N1306	NC25	0,000	<b>-0,185</b>	-70,480
Sn79/N1306	NC27	0,000	<b>0,191</b>	<b>-73,103</b>
Sn79/N1306	NC19	0,000	0,000	<b>362,347</b>
Sn80/N1308	NC25	<b>0,000</b>	<b>-0,162</b>	-61,386
Sn80/N1308	NC20	<b>0,138</b>	0,000	58,740
Sn80/N1308	NC27	0,000	<b>0,164</b>	<b>-62,228</b>
Sn80/N1308	NC19	0,000	0,000	<b>267,796</b>
Sn81/N1310	NC25	<b>0,000</b>	<b>-0,058</b>	-21,410
Sn81/N1310	NC21	<b>0,042</b>	0,000	18,850
Sn81/N1310	NC27	0,000	<b>0,128</b>	<b>-49,504</b>
Sn81/N1310	NC19	0,000	0,000	<b>131,550</b>
Sn82/N1312	NC24	<b>0,000</b>	-0,099	-36,262
Sn82/N1312	NC23	<b>0,146</b>	0,000	61,768
Sn82/N1312	NC25	0,000	<b>-0,102</b>	-37,423
Sn82/N1312	NC27	0,000	<b>0,146</b>	<b>-55,058</b>
Sn82/N1312	NC19	0,000	0,000	<b>267,625</b>
Sn83/N1315	NC25	<b>0,000</b>	0,154	<b>63,241</b>
Sn83/N1315	NC20	<b>0,240</b>	0,000	97,642
Sn83/N1315	NC26	0,000	<b>-0,289</b>	117,444
Sn83/N1315	NC24	0,000	<b>0,155</b>	63,726
Sn83/N1315	NC19	0,000	0,000	<b>203,953</b>
Sn85/N1344	NC20	<b>-0,410</b>	-0,002	-0,571
Sn85/N1344	NC24	<b>0,619</b>	-0,003	-0,836
Sn85/N1344	NC25	0,619	<b>-0,003</b>	<b>-0,840</b>
Sn85/N1344	NC23	0,253	<b>0,002</b>	-0,573
Sn85/N1344	NC26	0,410	0,000	<b>0,216</b>
Sn86/N1345	NC21	<b>-2,775</b>	-0,002	2,481
Sn86/N1345	NC24	<b>4,201</b>	0,005	2,575
Sn86/N1345	NC27	1,894	<b>-0,004</b>	2,302
Sn86/N1345	NC25	4,201	<b>0,005</b>	<b>2,576</b>
Sn86/N1345	NC26	1,893	-0,004	<b>2,247</b>
Sn87/N1822	NC19	<b>0,000</b>	0,008	<b>1,322</b>
Sn87/N1822	NC20	<b>0,003</b>	-2,365	1,820
Sn87/N1822	NC25	0,002	<b>-3,608</b>	1,768
Sn87/N1822	NC26	0,002	<b>3,708</b>	1,748
Sn87/N1822	NC27	0,002	3,702	<b>1,894</b>
Sn88/N1824	NC20	<b>-0,001</b>	-1,049	-0,156
Sn88/N1824	NC27	<b>0,002</b>	<b>1,800</b>	<b>-0,536</b>



Steunpunt	BG	Rx [kN]	Ry [kN]	Rz [kN]
Sn88/N1824	NC24	0,002	<b>-1,754</b>	0,046
Sn88/N1824	NC19	0,000	0,003	<b>2,069</b>
Sn89/N1831	NC19	<b>0,000</b>	0,040	<b>3,994</b>
Sn89/N1831	NC20	<b>0,004</b>	-14,548	1,547
Sn89/N1831	NC24	0,000	<b>-21,511</b>	-1,583
Sn89/N1831	NC26	0,000	<b>22,354</b>	1,877
Sn89/N1831	NC27	0,000	22,235	<b>-6,242</b>
Sn90/N1828	NC20	<b>-1,359</b>	-1,001	14,577
Sn90/N1828	NC25	<b>2,685</b>	1,091	1,670
Sn90/N1828	NC26	2,010	<b>-1,286</b>	6,083
Sn90/N1828	NC24	2,685	<b>1,095</b>	1,709
Sn90/N1828	NC27	2,180	-1,112	<b>-1,884</b>
Sn90/N1828	NC19	0,205	-0,030	<b>53,574</b>
Sn91/N2102	NC26	<b>0,000</b>	<b>87,565</b>	90,267
Sn91/N2102	NC22	<b>0,186</b>	-11,103	77,845
Sn91/N2102	NC24	0,000	<b>-122,522</b>	80,430
Sn91/N2102	NC21	0,139	12,810	<b>58,735</b>
Sn91/N2102	NC19	0,000	0,173	<b>132,180</b>
Sn92/N2103	NC27	<b>0,000</b>	-0,123	50,362
Sn92/N2103	NC22	<b>0,142</b>	0,000	57,720
Sn92/N2103	NC26	0,000	<b>-0,174</b>	70,632
Sn92/N2103	NC24	0,000	<b>0,073</b>	30,082
Sn92/N2103	NC25	0,000	0,073	<b>30,082</b>
Sn92/N2103	NC19	0,000	0,000	<b>107,903</b>
Sn93/N2105	NC25	<b>0,000</b>	0,134	54,668
Sn93/N2105	NC22	<b>0,135</b>	0,000	54,906
Sn93/N2105	NC26	0,000	<b>-0,101</b>	41,603
Sn93/N2105	NC24	0,000	<b>0,134</b>	54,668
Sn93/N2105	NC27	0,000	-0,101	<b>41,231</b>
Sn93/N2105	NC19	0,000	0,000	<b>102,537</b>
Sn94/N2109	NC25	<b>0,000</b>	0,053	22,159
Sn94/N2109	NC22	<b>0,054</b>	0,000	22,559
Sn94/N2109	NC26	0,000	<b>-0,069</b>	28,480
Sn94/N2109	NC24	0,000	<b>0,053</b>	22,159
Sn94/N2109	NC21	0,047	0,000	<b>19,860</b>
Sn94/N2109	NC19	0,000	0,000	<b>41,131</b>
Sn95/N2111	NC27	<b>0,000</b>	-0,120	<b>49,796</b>
Sn95/N2111	NC22	<b>0,139</b>	0,000	57,124
Sn95/N2111	NC26	0,000	<b>-0,169</b>	69,416
Sn95/N2111	NC25	0,000	<b>0,139</b>	57,273
Sn95/N2111	NC19	0,000	0,000	<b>105,711</b>
Sn96/N2112	NC26	<b>0,000</b>	<b>-0,128</b>	52,164
Sn96/N2112	NC20	<b>0,103</b>	0,000	42,340
Sn96/N2112	NC25	0,000	<b>0,084</b>	34,569
Sn96/N2112	NC24	0,000	0,084	<b>34,569</b>
Sn96/N2112	NC19	0,000	0,000	<b>78,649</b>

## 5.) Gordingen

### 5.1. Analysemodel



### 5.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N22	6,750	6,800	7,930
N24	20,250	6,800	7,930
N34	47,250	6,800	7,930
N36	33,750	6,800	7,930
N62	6,750	15,133	7,930
N63	6,750	23,466	7,930
N64	10,947	15,133	8,483
N65	10,947	23,466	8,483
N66	13,046	15,133	8,760
N67	13,046	23,466	8,760
N70	2,553	15,133	7,377
N71	2,553	23,466	7,377
N72	0,454	15,133	7,100
N73	0,454	23,466	7,100
N74	13,046	6,800	8,760
N75	10,947	6,800	8,483
N77	2,553	6,800	7,377
N78	0,454	6,800	7,100
N79	13,046	31,799	8,760
N80	10,947	31,799	8,483
N81	6,750	31,799	7,930
N82	2,553	31,799	7,377
N83	0,454	31,799	7,100
N84	20,250	15,133	7,930
N85	20,250	23,466	7,930
N86	16,053	15,133	8,483
N87	16,053	23,466	8,483
N88	13,954	15,133	8,760
N89	13,954	23,466	8,760
N90	24,447	15,133	7,377
N91	24,447	23,466	7,377
N92	26,546	15,133	7,100
N93	26,546	23,466	7,100
N94	13,954	6,800	8,760
N95	16,053	6,800	8,483
N96	24,447	6,800	7,377
N97	26,546	6,800	7,100
N98	13,954	31,799	8,760
N99	16,053	31,799	8,483
N100	20,250	31,799	7,930
N101	24,447	31,799	7,377

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N102	26,546	31,799	7,100
N103	47,250	15,133	7,930
N104	47,250	23,466	7,930
N105	44,102	15,133	8,345
N106	44,102	23,466	8,345
N107	40,954	15,133	8,760
N108	40,954	23,466	8,760
N109	50,398	15,133	7,515
N110	50,398	23,466	7,515
N111	53,546	15,133	7,100
N112	53,546	23,466	7,100
N113	40,954	6,800	8,760
N114	44,102	6,800	8,345
N115	50,398	6,800	7,515
N116	53,546	6,800	7,100
N117	40,954	31,799	8,760
N118	44,102	31,799	8,345
N119	47,250	31,799	7,930
N120	50,398	31,799	7,515
N121	53,546	31,799	7,100
N122	33,750	15,133	7,930
N123	33,750	23,466	7,930
N124	37,947	15,133	8,483
N125	37,947	23,466	8,483
N126	40,046	15,133	8,760
N127	40,046	23,466	8,760
N128	29,553	15,133	7,377
N129	29,553	23,466	7,377
N130	27,454	15,133	7,100
N131	27,454	23,466	7,100
N132	40,046	6,800	8,760
N133	37,947	6,800	8,483
N134	29,553	6,800	7,377
N135	27,454	6,800	7,100
N136	40,046	31,799	8,760
N137	37,947	31,799	8,483
N138	33,750	31,799	7,930
N139	29,553	31,799	7,377
N140	27,454	31,799	7,100
N171	6,750	40,132	7,930
N173	10,947	40,132	8,483



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N175	13,046	40,132	8,760
N177	2,553	40,132	7,377
N179	0,454	40,132	7,100
N186	20,250	40,132	7,930
N188	16,053	40,132	8,483
N190	13,954	40,132	8,760
N192	24,447	40,132	7,377
N194	26,546	40,132	7,100
N201	47,250	40,132	7,930
N203	44,102	40,132	8,345
N205	40,954	40,132	8,760
N207	50,398	40,132	7,515
N209	53,546	40,132	7,100
N216	33,750	40,132	7,930
N218	37,947	40,132	8,483
N220	40,046	40,132	8,760
N222	29,553	40,132	7,377
N224	27,454	40,132	7,100
N261	6,750	48,465	7,930
N262	6,750	56,800	7,930
N263	10,947	48,465	8,483
N264	10,947	56,800	8,483
N265	13,046	48,465	8,760
N266	13,046	56,800	8,760
N267	2,553	48,465	7,377
N268	2,553	56,800	7,377
N269	0,454	48,465	7,100
N270	0,454	56,800	7,100
N276	20,250	48,465	7,930
N277	20,250	56,800	7,930
N278	16,053	48,465	8,483
N279	16,053	56,800	8,483
N280	13,954	48,465	8,760
N281	13,954	56,800	8,760
N282	24,447	48,465	7,377
N283	24,447	56,800	7,377
N284	26,546	48,465	7,100
N285	26,546	56,800	7,100
N291	47,250	48,465	7,930
N292	47,250	56,800	7,930
N293	44,102	48,465	8,345
N294	44,102	56,800	8,345
N295	40,954	48,465	8,760
N296	40,954	56,800	8,760
N297	50,398	48,465	7,515
N298	50,398	56,800	7,515
N299	53,546	48,465	7,100
N300	53,546	56,800	7,100
N306	33,750	48,465	7,930
N307	33,750	56,800	7,930
N308	37,947	48,465	8,483
N309	37,947	56,800	8,483
N310	40,046	48,465	8,760
N311	40,046	56,800	8,760
N312	29,553	48,465	7,377
N313	29,553	56,800	7,377
N314	27,454	48,465	7,100
N315	27,454	56,800	7,100
N351	6,750	65,133	7,930
N352	6,750	73,464	7,930
N353	10,947	65,133	8,483
N354	10,947	73,464	8,483
N355	13,046	65,133	8,760
N356	13,046	73,464	8,760
N357	2,553	65,133	7,377
N358	2,553	73,464	7,377
N359	0,454	65,133	7,100
N360	0,454	73,464	7,100
N361	13,046	81,797	8,760
N362	10,947	81,797	8,483
N363	6,750	81,797	7,930
N364	2,553	81,797	7,377
N365	0,454	81,797	7,100
N366	20,250	65,133	7,930
N367	20,250	73,464	7,930
N368	16,053	65,133	8,483

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N369	16,053	73,464	8,483
N370	13,954	65,133	8,760
N371	13,954	73,464	8,760
N372	24,447	65,133	7,377
N373	24,447	73,464	7,377
N374	26,546	65,133	7,100
N375	26,546	73,464	7,100
N376	13,954	81,797	8,760
N377	17,102	81,797	8,345
N378	20,250	81,797	7,930
N379	24,447	81,797	7,377
N380	26,546	81,797	7,100
N381	47,250	65,133	7,930
N382	47,250	73,464	7,930
N383	44,102	65,133	8,345
N384	44,102	73,464	8,345
N385	40,954	65,133	8,760
N386	40,954	73,464	8,760
N387	50,398	65,133	7,515
N388	50,398	73,464	7,515
N389	53,546	65,133	7,100
N390	53,546	73,464	7,100
N391	40,954	81,797	8,760
N392	44,102	81,797	8,345
N393	47,250	81,797	7,930
N394	50,398	81,797	7,515
N395	53,546	81,797	7,100
N396	33,750	65,133	7,930
N397	33,750	73,464	7,930
N398	37,947	65,133	8,483
N399	37,947	73,464	8,483
N400	40,046	65,133	8,760
N401	40,046	73,464	8,760
N402	29,553	65,133	7,377
N403	29,553	73,464	7,377
N404	27,454	65,133	7,100
N405	27,454	73,464	7,100
N406	40,046	81,797	8,760
N407	36,898	81,797	8,345
N408	33,750	81,797	7,930
N409	29,553	81,797	7,377
N410	27,454	81,797	7,100
N637	2,553	10,966	7,377
N638	10,947	10,966	8,483
N639	24,447	10,966	7,377
N640	16,053	10,966	8,483
N643	29,553	10,966	7,377
N644	37,947	10,966	8,483
N1349	0,454	18,180	7,100
N1350	2,553	18,180	7,377
N1351	6,750	18,180	7,930
N1352	10,947	18,180	8,483
N1353	13,046	18,180	8,760
N1354	0,454	20,419	7,100
N1355	2,553	20,419	7,377
N1356	6,750	20,419	7,930
N1357	10,947	20,419	8,483
N1358	13,046	20,419	8,760
N1359	2,553	44,299	7,377
N1360	10,947	44,299	8,483
N1361	16,053	44,299	8,483
N1362	24,447	44,299	7,377
N1363	29,553	44,299	7,377
N1364	37,947	44,299	8,483
N1367	2,553	77,630	7,377
N1368	10,947	77,630	8,483
N1369	16,053	77,630	8,483
N1370	24,447	77,630	7,377
N1371	29,553	77,630	7,377
N1372	37,947	77,630	8,483
N1375	24,447	19,299	7,377
N1376	29,553	19,299	7,377
N1377	2,553	19,299	7,377
N1379	24,447	27,633	7,377
N1380	29,553	27,633	7,377
N1381	2,553	27,633	7,377



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1383	24,447	35,965	7,377
N1384	29,553	35,965	7,377
N1385	2,553	35,965	7,377
N1387	24,447	52,632	7,377
N1388	29,553	52,632	7,377
N1389	2,553	52,632	7,377
N1399	24,447	60,967	7,377
N1400	29,553	60,967	7,377
N1401	2,553	60,967	7,377
N1403	24,447	69,299	7,377
N1404	29,553	69,299	7,377
N1449	10,947	9,847	8,483
N1450	10,947	12,086	8,483
N1451	16,053	9,847	8,483
N1452	16,053	12,086	8,483
N1453	37,947	9,847	8,483
N1454	37,947	12,086	8,483
N1455	43,053	9,847	8,483
N1456	43,053	12,086	8,483
N1457	47,250	9,847	7,930
N1458	47,250	12,086	7,930
N1459	6,750	9,847	7,930
N1460	13,046	9,847	8,760
N1461	6,750	12,086	7,930
N1462	13,046	12,086	8,760
N1463	2,553	9,847	7,377
N1464	2,553	12,086	7,377
N1465	0,454	12,086	7,100
N1466	0,454	9,847	7,100
N1467	20,250	9,847	7,930
N1468	13,954	9,847	8,760
N1469	20,250	12,086	7,930
N1470	13,954	12,086	8,760
N1471	24,447	9,847	7,377
N1472	24,447	12,086	7,377
N1473	26,546	12,086	7,100
N1474	26,546	9,847	7,100
N1475	33,750	9,847	7,930
N1476	40,046	9,847	8,760
N1477	33,750	12,086	7,930
N1478	40,046	12,086	8,760
N1479	29,553	9,847	7,377
N1480	29,553	12,086	7,377
N1481	27,454	12,086	7,100
N1482	27,454	9,847	7,100
N1483	40,954	9,847	8,760
N1484	40,954	12,086	8,760
N1485	51,447	9,847	7,377
N1486	51,447	12,086	7,377
N1487	53,546	12,086	7,100
N1488	53,546	9,847	7,100
N1489	10,947	26,513	8,483
N1490	10,947	28,753	8,483
N1491	16,053	26,513	8,483
N1492	16,053	28,753	8,483
N1493	37,947	26,513	8,483
N1494	37,947	28,753	8,483
N1495	43,053	26,513	8,483
N1496	43,053	28,753	8,483
N1497	47,250	26,513	7,930
N1498	47,250	28,753	7,930
N1499	6,750	26,513	7,930
N1500	13,046	26,513	8,760
N1501	6,750	28,753	7,930
N1502	13,046	28,753	8,760
N1503	2,553	26,513	7,377
N1504	2,553	28,753	7,377
N1505	0,454	28,753	7,100
N1506	0,454	26,513	7,100
N1507	20,250	26,513	7,930
N1508	13,954	26,513	8,760
N1509	20,250	28,753	7,930
N1510	13,954	28,753	8,760
N1511	24,447	26,513	7,377
N1512	24,447	28,753	7,377
N1513	26,546	28,753	7,100

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1514	26,546	26,513	7,100
N1515	33,750	26,513	7,930
N1516	40,046	26,513	8,760
N1517	33,750	28,753	7,930
N1518	40,046	28,753	8,760
N1519	29,553	26,513	7,377
N1520	29,553	28,753	7,377
N1521	27,454	28,753	7,100
N1522	27,454	26,513	7,100
N1523	40,954	26,513	8,760
N1524	40,954	28,753	8,760
N1525	51,447	26,513	7,377
N1526	51,447	28,753	7,377
N1527	53,546	28,753	7,100
N1528	53,546	26,513	7,100
N1529	10,947	34,846	8,483
N1530	10,947	37,086	8,483
N1531	16,053	34,846	8,483
N1532	16,053	37,086	8,483
N1533	37,947	34,846	8,483
N1534	37,947	37,086	8,483
N1535	43,053	34,846	8,483
N1536	43,053	37,086	8,483
N1537	47,250	34,846	7,930
N1538	47,250	37,086	7,930
N1539	6,750	34,846	7,930
N1540	13,046	34,846	8,760
N1541	6,750	37,086	7,930
N1542	13,046	37,086	8,760
N1543	2,553	34,846	7,377
N1544	2,553	37,086	7,377
N1545	0,454	37,086	7,100
N1546	0,454	34,846	7,100
N1547	20,250	34,846	7,930
N1548	13,954	34,846	8,760
N1549	20,250	37,086	7,930
N1550	13,954	37,086	8,760
N1551	24,447	34,846	7,377
N1552	24,447	37,086	7,377
N1553	26,546	37,086	7,100
N1554	26,546	34,846	7,100
N1555	33,750	34,846	7,930
N1556	40,046	34,846	8,760
N1557	33,750	37,086	7,930
N1558	40,046	37,086	8,760
N1559	29,553	34,846	7,377
N1560	29,553	37,086	7,377
N1561	27,454	37,086	7,100
N1562	27,454	34,846	7,100
N1563	40,954	34,846	8,760
N1564	40,954	37,086	8,760
N1565	51,447	34,846	7,377
N1566	51,447	37,086	7,377
N1567	53,546	37,086	7,100
N1568	53,546	34,846	7,100
N1569	10,947	43,178	8,483
N1570	10,947	45,419	8,483
N1571	16,053	43,178	8,483
N1572	16,053	45,419	8,483
N1573	37,947	43,178	8,483
N1574	37,947	45,419	8,483
N1575	43,053	43,178	8,483
N1576	43,053	45,419	8,483
N1577	47,250	43,178	7,930
N1578	47,250	45,419	7,930
N1579	6,750	43,178	7,930
N1580	13,046	43,178	8,760
N1581	6,750	45,419	7,930
N1582	13,046	45,419	8,760
N1583	2,553	43,178	7,377
N1584	2,553	45,419	7,377
N1585	0,454	45,419	7,100
N1586	0,454	43,178	7,100
N1587	20,250	43,178	7,930
N1588	13,954	43,178	8,760
N1589	20,250	45,419	7,930



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1590	13,954	45,419	8,760
N1591	24,447	43,178	7,377
N1592	24,447	45,419	7,377
N1593	26,546	45,419	7,100
N1594	26,546	43,178	7,100
N1595	33,750	43,178	7,930
N1596	40,046	43,178	8,760
N1597	33,750	45,419	7,930
N1598	40,046	45,419	8,760
N1599	29,553	43,178	7,377
N1600	29,553	45,419	7,377
N1601	27,454	45,419	7,100
N1602	27,454	43,178	7,100
N1603	40,954	43,178	8,760
N1604	40,954	45,419	8,760
N1605	51,447	43,178	7,377
N1606	51,447	45,419	7,377
N1607	53,546	45,419	7,100
N1608	53,546	43,178	7,100
N1609	10,947	51,512	8,483
N1610	10,947	53,752	8,483
N1611	16,053	51,512	8,483
N1612	16,053	53,752	8,483
N1613	37,947	51,512	8,483
N1614	37,947	53,752	8,483
N1615	43,053	51,512	8,483
N1616	43,053	53,752	8,483
N1617	47,250	51,512	7,930
N1618	47,250	53,752	7,930
N1619	6,750	51,512	7,930
N1620	13,046	51,512	8,760
N1621	6,750	53,752	7,930
N1622	13,046	53,752	8,760
N1624	2,553	51,512	7,377
N1625	2,553	53,752	7,377
N1626	0,454	53,752	7,100
N1627	0,454	51,512	7,100
N1628	20,250	51,512	7,930
N1629	13,954	51,512	8,760
N1630	20,250	53,752	7,930
N1631	13,954	53,752	8,760
N1633	24,447	51,512	7,377
N1634	24,447	53,752	7,377
N1635	26,546	53,752	7,100
N1636	26,546	51,512	7,100
N1637	33,750	51,512	7,930
N1638	40,046	51,512	8,760
N1639	33,750	53,752	7,930
N1640	40,046	53,752	8,760
N1642	29,553	51,512	7,377
N1643	29,553	53,752	7,377
N1644	27,454	53,752	7,100
N1645	27,454	51,512	7,100
N1646	40,954	51,512	8,760
N1647	40,954	53,752	8,760
N1649	51,447	51,512	7,377
N1650	51,447	53,752	7,377
N1651	53,546	53,752	7,100
N1652	53,546	51,512	7,100
N1653	10,947	59,847	8,483
N1654	10,947	62,087	8,483
N1655	16,053	59,847	8,483
N1656	16,053	62,087	8,483
N1657	37,947	59,847	8,483
N1658	37,947	62,087	8,483
N1659	43,053	59,847	8,483
N1660	43,053	62,087	8,483
N1661	47,250	59,847	7,930
N1662	47,250	62,087	7,930
N1663	6,750	59,847	7,930
N1664	13,046	59,847	8,760
N1665	6,750	62,087	7,930
N1666	13,046	62,087	8,760
N1667	2,553	59,847	7,377
N1668	2,553	62,087	7,377
N1669	0,454	62,087	7,100

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1670	0,454	59,847	7,100
N1671	20,250	59,847	7,930
N1672	13,954	59,847	8,760
N1673	20,250	62,087	7,930
N1674	13,954	62,087	8,760
N1675	24,447	59,847	7,377
N1676	24,447	62,087	7,377
N1677	26,546	62,087	7,100
N1678	26,546	59,847	7,100
N1679	33,750	59,847	7,930
N1680	40,046	59,847	8,760
N1681	33,750	62,087	7,930
N1682	40,046	62,087	8,760
N1683	29,553	59,847	7,377
N1684	29,553	62,087	7,377
N1685	27,454	62,087	7,100
N1686	27,454	59,847	7,100
N1687	40,954	59,847	8,760
N1688	40,954	62,087	8,760
N1689	51,447	59,847	7,377
N1690	51,447	62,087	7,377
N1691	53,546	62,087	7,100
N1692	53,546	59,847	7,100
N1693	10,947	68,288	8,483
N1694	10,947	70,419	8,483
N1695	16,053	68,288	8,483
N1696	16,053	70,419	8,483
N1697	37,947	68,288	8,483
N1698	37,947	70,419	8,483
N1699	43,053	68,288	8,483
N1700	43,053	70,419	8,483
N1701	47,250	68,288	7,930
N1702	47,250	70,419	7,930
N1705	6,750	70,419	7,930
N1706	13,046	70,419	8,760
N1709	2,553	70,419	7,377
N1710	0,454	70,419	7,100
N1712	20,250	68,288	7,930
N1713	13,954	68,288	8,760
N1714	20,250	70,419	7,930
N1715	13,954	70,419	8,760
N1717	24,447	68,288	7,377
N1718	24,447	70,419	7,377
N1719	26,546	70,419	7,100
N1720	26,546	68,288	7,100
N1721	33,750	68,288	7,930
N1722	40,046	68,288	8,760
N1723	33,750	70,419	7,930
N1724	40,046	70,419	8,760
N1726	29,553	68,288	7,377
N1727	29,553	70,419	7,377
N1728	27,454	70,419	7,100
N1729	27,454	68,288	7,100
N1730	40,954	68,288	8,760
N1731	40,954	70,419	8,760
N1733	51,447	68,288	7,377
N1734	51,447	70,419	7,377
N1735	53,546	70,419	7,100
N1736	53,546	68,288	7,100
N1737	10,947	76,511	8,483
N1738	10,947	78,751	8,483
N1739	16,053	76,511	8,483
N1740	16,053	78,751	8,483
N1741	37,947	76,511	8,483
N1742	37,947	78,751	8,483
N1743	43,053	76,511	8,483
N1744	43,053	78,751	8,483
N1745	47,250	76,511	7,930
N1746	47,250	78,751	7,930
N1747	6,750	76,511	7,930
N1748	13,046	76,511	8,760
N1749	6,750	78,751	7,930
N1750	13,046	78,751	8,760
N1751	2,553	76,511	7,377
N1752	2,553	78,751	7,377
N1753	0,454	78,751	7,100



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1754	0,454	76,511	7,100
N1755	20,250	76,511	7,930
N1756	13,954	76,511	8,760
N1757	20,250	78,751	7,930
N1758	13,954	78,751	8,760
N1759	24,447	76,511	7,377
N1760	24,447	78,751	7,377
N1761	26,546	78,751	7,100
N1762	26,546	76,511	7,100
N1763	33,750	76,511	7,930
N1764	40,046	76,511	8,760
N1765	33,750	78,751	7,930
N1766	40,046	78,751	8,760
N1767	29,553	76,511	7,377
N1768	29,553	78,751	7,377
N1769	27,454	78,751	7,100
N1770	27,454	76,511	7,100
N1771	40,954	76,511	8,760
N1772	40,954	78,751	8,760
N1773	51,447	76,511	7,377
N1774	51,447	78,751	7,377
N1775	53,546	78,751	7,100
N1776	53,546	76,511	7,100
N1777	16,053	18,180	8,483
N1778	13,954	18,180	8,760
N1779	16,053	20,419	8,483
N1780	13,954	20,419	8,760
N1781	20,250	18,180	7,930
N1782	20,250	20,419	7,930
N1783	24,447	18,180	7,377
N1784	24,447	20,419	7,377
N1785	26,546	20,419	7,100
N1786	26,546	18,180	7,100

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1787	33,750	18,180	7,930
N1788	37,947	18,180	8,483
N1789	33,750	20,419	7,930
N1790	37,947	20,419	8,483
N1791	29,553	18,180	7,377
N1792	29,553	20,419	7,377
N1793	27,454	18,180	7,100
N1794	27,454	20,419	7,100
N1795	40,046	18,180	8,760
N1796	40,046	20,419	8,760
N1797	43,053	20,419	8,483
N1798	43,053	18,180	8,483
N1799	53,546	20,419	7,100
N1800	51,447	20,419	7,377
N1801	53,546	18,180	7,100
N1802	51,447	18,180	7,377
N1803	47,250	20,419	7,930
N1804	47,250	18,180	7,930
N1805	40,954	18,180	8,760
N1806	40,954	20,419	8,760
N1815	2,553	69,299	7,377
N1818	0,454	68,288	7,100
N1819	6,750	68,288	7,930
N1820	2,553	68,288	7,377
N1821	13,046	68,288	8,760
N1845	10,947	69,297	8,483
N1847	16,053	69,297	8,483
N1849	10,947	52,632	8,483
N1850	16,053	52,632	8,483
N1852	10,947	35,965	8,483
N1853	16,053	35,965	8,483
N1854	10,947	19,299	8,483
N1855	16,053	19,299	8,483

### 5.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B73	CS48 - IPE180	Purlins	8,333	Lijn	N62 N63	Gording (0) standaard
B74	CS48 - IPE180	Purlins	8,333	Lijn	N64 N65	Gording (0) standaard
B75	CS39 - HEA140	Purlins	8,333	Lijn	N66 N67	Gording (0) standaard
B77	CS48 - IPE180	Purlins	8,333	Lijn	N70 N71	Gording (0) standaard
B78	CS47 - IPE160	Purlins	8,333	Lijn	N72 N73	Gording (0) standaard
B79	CS39 - HEA140	Purlins	8,333	Lijn	N74 N66	Gording (0) standaard
B80	CS48 - IPE180	Purlins	8,333	Lijn	N75 N64	Gording (0) standaard
B81	CS48 - IPE180	Purlins	8,333	Lijn	N22 N62	Gording (0) standaard
B82	CS48 - IPE180	Purlins	8,333	Lijn	N77 N70	Gording (0) standaard
B83	CS48 - IPE180	Purlins	8,333	Lijn	N78 N72	Gording (0) standaard
B84	CS39 - HEA140	Purlins	8,333	Lijn	N67 N79	Gording (0) standaard
B85	CS48 - IPE180	Purlins	8,333	Lijn	N65 N80	Gording (0) standaard
B86	CS48 - IPE180	Purlins	8,333	Lijn	N63 N81	Gording (0) standaard
B87	CS48 - IPE180	Purlins	8,333	Lijn	N71 N82	Gording (0) standaard
B88	CS47 - IPE160	Purlins	8,333	Lijn	N73 N83	Gording (0) standaard
B89	CS47 - IPE160	Purlins	8,333	Lijn	N97 N92	Gording (0) standaard
B90	CS48 - IPE180	Purlins	8,333	Lijn	N84 N85	Gording (0) standaard
B91	CS48 - IPE180	Purlins	8,333	Lijn	N86 N87	Gording (0) standaard
B92	CS39 - HEA140	Purlins	8,333	Lijn	N88	Gording (0)



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N89		standaard
B93	CS48 - IPE180	Purlins	8,333	Lijn	N90 N91		Gording (0) standaard
B94	CS47 - IPE160	Purlins	8,333	Lijn	N92 N93		Gording (0) standaard
B95	CS39 - HEA140	Purlins	8,333	Lijn	N94 N88		Gording (0) standaard
B96	CS48 - IPE180	Purlins	8,333	Lijn	N95 N86		Gording (0) standaard
B97	CS39 - HEA140	Purlins	8,333	Lijn	N24 N84		Gording (0) standaard
B98	CS48 - IPE180	Purlins	8,333	Lijn	N96 N90		Gording (0) standaard
B99	CS39 - HEA140	Purlins	8,333	Lijn	N89 N98		Gording (0) standaard
B100	CS48 - IPE180	Purlins	8,333	Lijn	N87 N99		Gording (0) standaard
B101	CS48 - IPE180	Purlins	8,333	Lijn	N85 N100		Gording (0) standaard
B102	CS48 - IPE180	Purlins	8,333	Lijn	N91 N101		Gording (0) standaard
B103	CS47 - IPE160	Purlins	8,333	Lijn	N93 N102		Gording (0) standaard
B104	CS47 - IPE160	Purlins	8,333	Lijn	N116 N111		Gording (0) standaard
B105	CS48 - IPE180	Purlins	8,333	Lijn	N103 N104		Gording (0) standaard
B107	CS39 - HEA140	Purlins	8,333	Lijn	N107 N108		Gording (0) standaard
B109	CS47 - IPE160	Purlins	8,333	Lijn	N111 N112		Gording (0) standaard
B110	CS39 - HEA140	Purlins	8,333	Lijn	N113 N107		Gording (0) standaard
B112	CS48 - IPE180	Purlins	8,333	Lijn	N34 N103		Gording (0) standaard
B114	CS39 - HEA140	Purlins	8,333	Lijn	N108 N117		Gording (0) standaard
B116	CS48 - IPE180	Purlins	8,333	Lijn	N104 N119		Gording (0) standaard
B118	CS47 - IPE160	Purlins	8,333	Lijn	N112 N121		Gording (0) standaard
B119	CS47 - IPE160	Purlins	8,333	Lijn	N135 N130		Gording (0) standaard
B120	CS48 - IPE180	Purlins	8,333	Lijn	N122 N123		Gording (0) standaard
B121	CS48 - IPE180	Purlins	8,333	Lijn	N124 N125		Gording (0) standaard
B122	CS39 - HEA140	Purlins	8,333	Lijn	N126 N127		Gording (0) standaard
B123	CS48 - IPE180	Purlins	8,333	Lijn	N128 N129		Gording (0) standaard
B124	CS47 - IPE160	Purlins	8,333	Lijn	N130 N131		Gording (0) standaard
B125	CS39 - HEA140	Purlins	8,333	Lijn	N132 N126		Gording (0) standaard
B126	CS48 - IPE180	Purlins	8,333	Lijn	N133 N124		Gording (0) standaard
B127	CS48 - IPE180	Purlins	8,333	Lijn	N36 N122		Gording (0) standaard
B128	CS48 - IPE180	Purlins	8,333	Lijn	N134 N128		Gording (0) standaard
B129	CS39 - HEA140	Purlins	8,333	Lijn	N127 N136		Gording (0) standaard
B130	CS48 - IPE180	Purlins	8,333	Lijn	N125 N137		Gording (0) standaard
B131	CS48 - IPE180	Purlins	8,333	Lijn	N123 N138		Gording (0) standaard
B132	CS48 - IPE180	Purlins	8,333	Lijn	N129 N139		Gording (0) standaard
B133	CS47 - IPE160	Purlins	8,333	Lijn	N131 N140		Gording (0) standaard
B1534	CS47 - IPE160	Purlins	8,333	Lijn	N102 N194		Gording (0) standaard
B1535	CS48 - IPE180	Purlins	8,333	Lijn	N100 N186		Gording (0) standaard



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
B1536	CS48 - IPE180	Purlins	8,333	Lijn	N101 N192	Gording (0) standaard	
B1537	CS48 - IPE180	Purlins	8,333	Lijn	N99 N188	Gording (0) standaard	
B1538	CS39 - HEA140	Purlins	8,333	Lijn	N98 N190	Gording (0) standaard	
B1539	CS39 - HEA140	Purlins	8,333	Lijn	N79 N175	Gording (0) standaard	
B1540	CS48 - IPE180	Purlins	8,333	Lijn	N80 N173	Gording (0) standaard	
B1541	CS48 - IPE180	Purlins	8,333	Lijn	N81 N171	Gording (0) standaard	
B1542	CS48 - IPE180	Purlins	8,333	Lijn	N82 N177	Gording (0) standaard	
B1543	CS47 - IPE160	Purlins	8,333	Lijn	N83 N179	Gording (0) standaard	
B1544	CS47 - IPE160	Purlins	8,333	Lijn	N194 N284	Gording (0) standaard	
B1545	CS48 - IPE180	Purlins	8,333	Lijn	N186 N276	Gording (0) standaard	
B1546	CS48 - IPE180	Purlins	8,333	Lijn	N192 N282	Gording (0) standaard	
B1547	CS48 - IPE180	Purlins	8,333	Lijn	N188 N278	Gording (0) standaard	
B1548	CS39 - HEA140	Purlins	8,333	Lijn	N190 N280	Gording (0) standaard	
B1549	CS39 - HEA140	Purlins	8,333	Lijn	N175 N265	Gording (0) standaard	
B1550	CS48 - IPE180	Purlins	8,333	Lijn	N173 N263	Gording (0) standaard	
B1551	CS48 - IPE180	Purlins	8,333	Lijn	N171 N261	Gording (0) standaard	
B1552	CS48 - IPE180	Purlins	8,333	Lijn	N177 N267	Gording (0) standaard	
B1553	CS47 - IPE160	Purlins	8,333	Lijn	N179 N269	Gording (0) standaard	
B1556	CS48 - IPE180	Purlins	8,333	Lijn	N201 N291	Gording (0) standaard	
B1558	CS47 - IPE160	Purlins	8,333	Lijn	N224 N314	Gording (0) standaard	
B1559	CS39 - HEA140	Purlins	8,333	Lijn	N220 N310	Gording (0) standaard	
B1560	CS48 - IPE180	Purlins	8,333	Lijn	N218 N308	Gording (0) standaard	
B1561	CS48 - IPE180	Purlins	8,333	Lijn	N216 N306	Gording (0) standaard	
B1562	CS48 - IPE180	Purlins	8,333	Lijn	N222 N312	Gording (0) standaard	
B1573	CS48 - IPE180	Purlins	8,333	Lijn	N137 N218	Gording (0) standaard	
B1574	CS48 - IPE180	Purlins	8,333	Lijn	N138 N216	Gording (0) standaard	
B1575	CS48 - IPE180	Purlins	8,333	Lijn	N139 N222	Gording (0) standaard	
B1577	CS39 - HEA140	Purlins	8,333	Lijn	N117 N205	Gording (0) standaard	
B1579	CS48 - IPE180	Purlins	8,333	Lijn	N119 N201	Gording (0) standaard	
B1581	CS47 - IPE160	Purlins	8,333	Lijn	N121 N209	Gording (0) standaard	
B262	CS48 - IPE180	Purlins	8,335	Lijn	N261 N262	Gording (0) standaard	
B263	CS48 - IPE180	Purlins	8,335	Lijn	N263 N264	Gording (0) standaard	
B264	CS39 - HEA140	Purlins	8,335	Lijn	N265 N266	Gording (0) standaard	
B265	CS48 - IPE180	Purlins	8,335	Lijn	N267 N268	Gording (0) standaard	
B266	CS47 - IPE160	Purlins	8,335	Lijn	N269 N270	Gording (0) standaard	
B278	CS48 - IPE180	Purlins	8,335	Lijn	N276 N277	Gording (0) standaard	
B279	CS48 - IPE180	Purlins	8,335	Lijn	N278 N279	Gording (0) standaard	
B280	CS39 - HEA140	Purlins	8,335	Lijn	N280	Gording (0)	



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N281		standaard
B281	CS48 - IPE180	Purlins	8,335	Lijn	N282 N283		Gording (0) standaard
B282	CS47 - IPE160	Purlins	8,335	Lijn	N284 N285		Gording (0) standaard
B293	CS48 - IPE180	Purlins	8,335	Lijn	N291 N292		Gording (0) standaard
B295	CS39 - HEA140	Purlins	8,335	Lijn	N295 N296		Gording (0) standaard
B297	CS47 - IPE160	Purlins	8,335	Lijn	N299 N300		Gording (0) standaard
B308	CS48 - IPE180	Purlins	8,335	Lijn	N306 N307		Gording (0) standaard
B309	CS48 - IPE180	Purlins	8,335	Lijn	N308 N309		Gording (0) standaard
B310	CS39 - HEA140	Purlins	8,335	Lijn	N310 N311		Gording (0) standaard
B311	CS48 - IPE180	Purlins	8,335	Lijn	N312 N313		Gording (0) standaard
B312	CS47 - IPE160	Purlins	8,335	Lijn	N314 N315		Gording (0) standaard
B356	CS48 - IPE180	Purlins	8,331	Lijn	N351 N352		Gording (0) standaard
B357	CS48 - IPE180	Purlins	8,331	Lijn	N353 N354		Gording (0) standaard
B358	CS39 - HEA140	Purlins	8,331	Lijn	N355 N356		Gording (0) standaard
B359	CS48 - IPE180	Purlins	8,331	Lijn	N357 N358		Gording (0) standaard
B360	CS47 - IPE160	Purlins	8,331	Lijn	N359 N360		Gording (0) standaard
B361	CS39 - HEA140	Purlins	8,333	Lijn	N266 N355		Gording (0) standaard
B362	CS48 - IPE180	Purlins	8,333	Lijn	N264 N353		Gording (0) standaard
B363	CS48 - IPE180	Purlins	8,333	Lijn	N262 N351		Gording (0) standaard
B364	CS48 - IPE180	Purlins	8,333	Lijn	N268 N357		Gording (0) standaard
B365	CS47 - IPE160	Purlins	8,333	Lijn	N270 N359		Gording (0) standaard
B366	CS39 - HEA140	Purlins	8,333	Lijn	N356 N361		Gording (0) standaard
B367	CS48 - IPE180	Purlins	8,333	Lijn	N354 N362		Gording (0) standaard
B368	CS48 - IPE180	Purlins	8,333	Lijn	N352 N363		Gording (0) standaard
B369	CS48 - IPE180	Purlins	8,333	Lijn	N358 N364		Gording (0) standaard
B370	CS47 - IPE160	Purlins	8,333	Lijn	N360 N365		Gording (0) standaard
B371	CS47 - IPE160	Purlins	8,333	Lijn	N285 N374		Gording (0) standaard
B372	CS48 - IPE180	Purlins	8,331	Lijn	N366 N367		Gording (0) standaard
B373	CS48 - IPE180	Purlins	8,331	Lijn	N368 N369		Gording (0) standaard
B374	CS39 - HEA140	Purlins	8,331	Lijn	N370 N371		Gording (0) standaard
B375	CS48 - IPE180	Purlins	8,331	Lijn	N372 N373		Gording (0) standaard
B376	CS47 - IPE160	Purlins	8,331	Lijn	N374 N375		Gording (0) standaard
B377	CS39 - HEA140	Purlins	8,333	Lijn	N281 N370		Gording (0) standaard
B378	CS48 - IPE180	Purlins	8,333	Lijn	N279 N368		Gording (0) standaard
B379	CS48 - IPE180	Purlins	8,333	Lijn	N277 N366		Gording (0) standaard
B380	CS48 - IPE180	Purlins	8,333	Lijn	N283 N372		Gording (0) standaard
B381	CS39 - HEA140	Purlins	8,333	Lijn	N371 N376		Gording (0) standaard
B382	CS48 - IPE180	Purlins	8,333	Lijn	N369 N1989		Gording (0) standaard

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
B383	CS48 - IPE180	Purlins	8,333	Lijn	N367	N378	Gording (0) standaard
B384	CS48 - IPE180	Purlins	8,333	Lijn	N373	N379	Gording (0) standaard
B385	CS47 - IPE160	Purlins	8,333	Lijn	N375	N380	Gording (0) standaard
B386	CS47 - IPE160	Purlins	8,333	Lijn	N300	N389	Gording (0) standaard
B387	CS48 - IPE180	Purlins	8,331	Lijn	N381	N382	Gording (0) standaard
B389	CS39 - HEA140	Purlins	8,331	Lijn	N385	N386	Gording (0) standaard
B391	CS47 - IPE160	Purlins	8,331	Lijn	N389	N390	Gording (0) standaard
B392	CS39 - HEA140	Purlins	8,333	Lijn	N296	N385	Gording (0) standaard
B394	CS48 - IPE180	Purlins	8,333	Lijn	N292	N381	Gording (0) standaard
B396	CS39 - HEA140	Purlins	8,333	Lijn	N386	N391	Gording (0) standaard
B398	CS48 - IPE180	Purlins	8,333	Lijn	N382	N393	Gording (0) standaard
B400	CS47 - IPE160	Purlins	8,333	Lijn	N390	N395	Gording (0) standaard
B401	CS47 - IPE160	Purlins	8,333	Lijn	N315	N404	Gording (0) standaard
B402	CS48 - IPE180	Purlins	8,331	Lijn	N396	N397	Gording (0) standaard
B403	CS48 - IPE180	Purlins	8,331	Lijn	N398	N399	Gording (0) standaard
B404	CS39 - HEA140	Purlins	8,331	Lijn	N400	N401	Gording (0) standaard
B405	CS48 - IPE180	Purlins	8,331	Lijn	N402	N403	Gording (0) standaard
B406	CS47 - IPE160	Purlins	8,331	Lijn	N404	N405	Gording (0) standaard
B407	CS39 - HEA140	Purlins	8,333	Lijn	N311	N400	Gording (0) standaard
B408	CS48 - IPE180	Purlins	8,333	Lijn	N309	N398	Gording (0) standaard
B409	CS48 - IPE180	Purlins	8,333	Lijn	N307	N396	Gording (0) standaard
B410	CS48 - IPE180	Purlins	8,333	Lijn	N313	N402	Gording (0) standaard
B411	CS39 - HEA140	Purlins	8,333	Lijn	N401	N406	Gording (0) standaard
B412	CS48 - IPE180	Purlins	8,333	Lijn	N399	N1932	Gording (0) standaard
B413	CS48 - IPE180	Purlins	8,333	Lijn	N397	N408	Gording (0) standaard
B414	CS48 - IPE180	Purlins	8,333	Lijn	N403	N409	Gording (0) standaard
B415	CS47 - IPE160	Purlins	8,333	Lijn	N405	N410	Gording (0) standaard
B1618	CS47 - IPE160	Purlins	8,333	Lijn	N209	N299	Gording (0) standaard
B1670	CS39 - HEA140	Purlins	8,333	Lijn	N205	N295	Gording (0) standaard
B2232	CS47 - IPE160	Purlins	8,333	Lijn	N140	N224	Gording (0) standaard
B2233	CS39 - HEA140	Purlins	8,333	Lijn	N136	N220	Gording (0) standaard

#### 5.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Purlins  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B73	CS48 - IPE180	0,000	NC2	<b>-10,120</b>	<b>-0,818</b>	<b>13,573</b>	<b>0,003</b>	-16,149	0,485
B73	CS48 - IPE180	0,000	NC6	<b>47,992</b>	-0,299	0,019	0,000	0,618	0,296
B73	CS48 - IPE180	8,333	NC2	-10,120	<b>0,912</b>	<b>-16,139</b>	0,003	<b>-26,835</b>	<b>0,784</b>
B73	CS48 - IPE180	5,287	NC18	0,187	-0,148	3,417	<b>-0,002</b>	-4,865	0,013
B73	CS48 - IPE180	8,333	NC18	0,187	-0,015	11,713	-0,002	<b>18,181</b>	-0,235



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B73	CS48 - IPE180	1,828	NC2	-10,120	0,020	7,214	0,003	2,850	<b>-0,244</b>
B74	CS48 - IPE180	3,047	NC3	<b>-2,383</b>	-0,200	-0,080	0,000	0,337	0,120
B74	CS48 - IPE180	0,000	NC2	<b>2,420</b>	<b>-0,838</b>	<b>15,011</b>	<b>0,002</b>	-20,752	0,436
B74	CS48 - IPE180	8,333	NC2	<b>2,420</b>	<b>1,016</b>	<b>-17,130</b>	0,002	<b>-29,584</b>	<b>0,909</b>
B74	CS48 - IPE180	0,000	NC18	-0,876	-0,079	-11,613	<b>-0,001</b>	15,882	0,144
B74	CS48 - IPE180	8,333	NC18	-0,876	-0,021	12,689	-0,001	<b>20,367</b>	-0,252
B74	CS48 - IPE180	8,333	NC16	2,195	-0,103	12,463	-0,001	19,957	<b>-0,341</b>
B75	CS39 - HEA140	5,287	NC18	<b>-12,802</b>	-0,176	2,313	<b>-0,001</b>	-2,672	-0,148
B75	CS39 - HEA140	0,000	NC2	<b>9,878</b>	<b>-0,895</b>	<b>9,097</b>	<b>0,002</b>	-9,301	0,927
B75	CS39 - HEA140	8,333	NC2	9,878	<b>1,267</b>	<b>-11,787</b>	0,002	<b>-20,678</b>	<b>2,026</b>
B75	CS39 - HEA140	8,333	NC18	-12,802	-0,050	7,165	-0,001	<b>11,765</b>	-0,491
B75	CS39 - HEA140	8,333	NC16	-11,622	-0,481	6,959	-0,001	11,200	<b>-1,111</b>
B77	CS48 - IPE180	3,047	NC16	<b>-2,029</b>	-0,061	-3,751	-0,003	-4,211	0,083
B77	CS48 - IPE180	3,047	NC18	<b>2,670</b>	-0,045	-3,552	-0,002	-4,967	0,063
B77	CS48 - IPE180	0,000	NC2	0,411	<b>-1,143</b>	<b>21,691</b>	<b>0,004</b>	<b>-34,593</b>	0,661
B77	CS48 - IPE180	8,333	NC2	0,411	<b>1,242</b>	<b>-20,612</b>	0,004	-30,097	<b>0,970</b>
B77	CS48 - IPE180	3,047	NC15	-1,991	-0,061	-3,751	<b>-0,003</b>	-4,210	0,079
B77	CS48 - IPE180	0,000	NC15	-1,990	-0,022	-12,777	-0,003	<b>20,360</b>	-0,068
B77	CS48 - IPE180	8,333	NC18	2,668	-0,098	11,938	-0,002	17,090	<b>-0,435</b>
B78	CS47 - IPE160	0,000	NC9	<b>-14,973</b>	-0,306	-0,502	0,000	0,517	0,480
B78	CS47 - IPE160	0,000	NC8	<b>10,835</b>	0,019	-5,070	-0,001	8,059	<b>-0,310</b>
B78	CS47 - IPE160	0,000	NC2	0,171	<b>-0,732</b>	<b>14,167</b>	<b>0,004</b>	<b>-22,939</b>	0,414
B78	CS47 - IPE160	8,333	NC2	0,171	<b>0,814</b>	<b>-12,985</b>	0,004	-18,019	<b>0,656</b>
B78	CS47 - IPE160	5,287	NC15	9,817	-0,037	1,327	<b>-0,002</b>	-3,006	0,016
B78	CS47 - IPE160	0,000	NC16	9,835	0,094	-7,133	-0,002	<b>11,371</b>	-0,295
B79	CS39 - HEA140	0,000	NC2	<b>-9,299</b>	<b>-1,080</b>	<b>11,558</b>	<b>-0,016</b>	0,000	0,000
B79	CS39 - HEA140	0,000	NC11	<b>1,816</b>	0,105	-1,149	0,005	0,000	0,000
B79	CS39 - HEA140	8,333	NC2	-9,299	<b>1,135</b>	<b>-12,771</b>	-0,016	<b>-13,368</b>	<b>1,425</b>
B79	CS39 - HEA140	0,000	NC16	-2,303	0,173	-6,468	<b>0,010</b>	0,000	0,000
B79	CS39 - HEA140	3,046	NC2	-9,299	0,164	2,109	-0,016	<b>20,230</b>	-1,318
B79	CS39 - HEA140	2,437	NC2	-9,299	-0,061	3,813	-0,016	18,430	<b>-1,350</b>
B80	CS48 - IPE180	0,000	NC18	<b>-0,547</b>	-0,018	-10,238	0,001	0,000	0,000
B80	CS48 - IPE180	3,047	NC2	<b>2,569</b>	-0,695	1,455	-0,001	29,298	0,135
B80	CS48 - IPE180	0,000	NC2	2,568	<b>-1,075</b>	<b>18,121</b>	<b>-0,001</b>	0,000	0,000
B80	CS48 - IPE180	3,046	NC2	2,568	<b>1,071</b>	1,815	-0,001	29,295	0,135
B80	CS48 - IPE180	8,333	NC2	2,568	1,036	<b>-19,708</b>	-0,001	<b>-20,820</b>	<b>0,859</b>
B80	CS48 - IPE180	0,000	NC12	-0,505	-0,013	-2,923	<b>0,001</b>	0,000	0,000
B80	CS48 - IPE180	3,271	NC2	2,569	-0,559	0,423	-0,001	<b>29,508</b>	-0,005
B80	CS48 - IPE180	1,219	NC2	2,568	-0,150	11,092	-0,001	17,731	<b>-0,737</b>
B81	CS48 - IPE180	5,287	NC7	<b>-40,887</b>	-0,312	3,511	<b>-0,001</b>	-10,092	0,175
B81	CS48 - IPE180	0,000	NC3	<b>34,451</b>	-0,154	0,140	0,000	0,000	0,000
B81	CS48 - IPE180	0,000	NC2	0,217	<b>-1,001</b>	<b>17,062</b>	0,000	0,000	0,000
B81	CS48 - IPE180	8,333	NC2	0,217	<b>0,971</b>	<b>-17,818</b>	0,000	-16,087	<b>0,813</b>
B81	CS48 - IPE180	0,000	NC11	34,391	-0,009	-2,693	<b>0,000</b>	0,000	0,000
B81	CS48 - IPE180	3,494	NC16	-40,769	-0,038	-0,062	-0,001	<b>-18,893</b>	0,172
B81	CS48 - IPE180	3,494	NC2	0,217	-0,385	-0,158	0,000	<b>28,530</b>	-0,145
B81	CS48 - IPE180	1,219	NC2	0,217	-0,151	10,611	0,000	16,799	<b>-0,694</b>
B82	CS48 - IPE180	3,047	NC13	<b>0,054</b>	-0,061	-0,338	0,001	-4,111	0,005
B82	CS48 - IPE180	3,047	NC18	<b>2,430</b>	-0,084	-1,072	<b>0,004</b>	-16,271	0,138
B82	CS48 - IPE180	0,000	NC2	0,182	<b>-1,112</b>	<b>19,103</b>	<b>-0,007</b>	0,000	0,000
B82	CS48 - IPE180	8,333	NC2	0,182	<b>1,301</b>	<b>-25,839</b>	-0,007	<b>-34,656</b>	<b>1,000</b>
B82	CS48 - IPE180	3,271	NC2	0,182	-0,655	0,100	-0,007	<b>31,294</b>	0,011
B82	CS48 - IPE180	1,219	NC2	0,182	-0,162	11,893	-0,007	18,854	<b>-0,772</b>
B83	CS48 - IPE180	0,000	NC9	<b>-11,826</b>	-0,157	-0,321	0,000	0,000	0,000
B83	CS48 - IPE180	0,000	NC14	<b>1,057</b>	-0,052	-1,213	0,000	0,000	0,000
B83	CS48 - IPE180	0,000	NC2	-0,086	<b>-0,704</b>	<b>11,391</b>	<b>-0,004</b>	0,000	0,000
B83	CS48 - IPE180	8,333	NC2	-0,086	<b>0,931</b>	<b>-16,733</b>	-0,004	<b>-23,201</b>	<b>0,814</b>
B83	CS48 - IPE180	0,000	NC18	-11,444	-0,014	-5,389	<b>0,003</b>	0,000	0,000
B83	CS48 - IPE180	3,494	NC2	-0,086	-0,274	-0,598	-0,004	<b>19,027</b>	-0,238
B83	CS48 - IPE180	8,333	NC17	-11,657	-0,176	2,876	0,001	3,896	<b>-0,614</b>
B84	CS39 - HEA140	0,000	NC2	<b>-6,730</b>	<b>-0,816</b>	<b>12,227</b>	<b>0,001</b>	<b>-24,003</b>	<b>1,044</b>
B84	CS39 - HEA140	5,287	NC16	<b>0,556</b>	-0,496	0,459	0,000	-3,311	0,526
B84	CS39 - HEA140	8,333	NC2	-6,730	<b>0,887</b>	<b>-8,789</b>	0,001	-9,790	0,943
B84	CS39 - HEA140	5,287	NC15	0,292	-0,489	0,373	<b>0,000</b>	-3,123	0,518
B84	CS39 - HEA140	0,000	NC16	0,556	-0,225	-7,371	0,000	<b>13,759</b>	0,246
B84	CS39 - HEA140	8,333	NC16	0,556	-0,370	5,311	0,000	5,477	<b>-0,792</b>
B85	CS48 - IPE180	0,000	NC3	<b>-3,807</b>	-0,151	0,132	0,000	-0,429	-0,185
B85	CS48 - IPE180	0,000	NC15	<b>4,691</b>	-0,184	-12,912	0,000	20,196	0,246
B85	CS48 - IPE180	0,000	NC2	1,345	<b>-0,843</b>	<b>17,625</b>	0,000	<b>-29,757</b>	0,528
B85	CS48 - IPE180	8,333	NC2	1,345	<b>0,890</b>	<b>-14,516</b>	0,000	-16,805	<b>0,562</b>
B85	CS48 - IPE180	3,047	NC15	4,689	0,056	-4,100	<b>0,000</b>	-5,302	-0,100
B85	CS48 - IPE180	3,047	NC9	-1,219	-0,279	-0,300	<b>0,000</b>	-0,946	0,201
B85	CS48 - IPE180	0,000	NC18	0,184	-0,152	-12,975	0,000	<b>20,553</b>	0,338
B85	CS48 - IPE180	0,000	NC11	-3,356	0,023	-3,728	0,000	6,213	<b>-0,283</b>
B86	CS48 - IPE180	0,000	NC2	<b>-10,504</b>	<b>-0,827</b>	<b>16,049</b>	<b>-0,001</b>	<b>-26,814</b>	<b>0,600</b>
B86	CS48 - IPE180	0,000	NC6	<b>41,699</b>	-0,335	0,442	0,000	-1,456	0,453



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B86	CS48 - IPE180	8,333	NC2	-10,504	<b>0,807</b>	<b>-13,663</b>	-0,001	-16,874	0,484
B86	CS48 - IPE180	3,047	NC18	0,318	-0,094	-3,627	<b>0,000</b>	-4,691	0,079
B86	CS48 - IPE180	0,000	NC18	0,319	-0,154	-11,652	0,000	<b>18,171</b>	0,345
B86	CS48 - IPE180	8,333	NC17	14,329	-0,021	4,312	0,000	5,622	<b>-0,303</b>
B87	CS48 - IPE180	3,047	NC14	<b>-2,211</b>	-0,068	-0,959	0,000	-1,638	0,052
B87	CS48 - IPE180	3,047	NC11	<b>1,893</b>	0,021	-1,450	0,000	-2,718	-0,076
B87	CS48 - IPE180	0,000	NC2	0,467	<b>-1,151</b>	<b>21,322</b>	<b>0,000</b>	<b>-30,110</b>	0,775
B87	CS48 - IPE180	8,333	NC2	0,467	<b>1,140</b>	<b>-20,981</b>	0,000	-28,686	0,678
B87	CS48 - IPE180	5,287	NC16	-2,160	-0,018	3,012	<b>0,000</b>	-6,672	0,031
B87	CS48 - IPE180	0,000	NC18	0,924	-0,263	-12,252	0,000	<b>17,096</b>	0,579
B87	CS48 - IPE180	8,333	NC17	-0,541	-0,138	4,890	0,000	6,535	<b>-0,565</b>
B87	CS48 - IPE180	0,000	NC9	-0,752	-0,498	-1,374	0,000	1,516	<b>0,829</b>
B88	CS47 - IPE160	0,000	NC11	<b>-16,896</b>	-0,094	-4,822	0,000	6,333	0,048
B88	CS47 - IPE160	0,000	NC14	<b>11,325</b>	-0,003	-1,614	0,000	2,169	-0,023
B88	CS47 - IPE160	0,000	NC2	0,333	<b>-0,738</b>	<b>13,451</b>	<b>0,000</b>	-18,084	0,490
B88	CS47 - IPE160	8,333	NC2	0,333	<b>0,745</b>	<b>-13,701</b>	0,000	<b>-19,128</b>	0,457
B88	CS47 - IPE160	3,047	NC16	9,809	-0,036	-1,824	<b>0,000</b>	-3,876	0,039
B88	CS47 - IPE160	3,942	NC2	0,332	-0,119	0,595	0,000	<b>9,797</b>	-0,069
B88	CS47 - IPE160	8,333	NC17	-8,230	-0,104	2,511	0,000	3,344	<b>-0,409</b>
B88	CS47 - IPE160	0,000	NC9	-8,808	-0,302	-0,554	0,000	0,720	<b>0,511</b>
B89	CS47 - IPE160	0,000	NC18	<b>-5,450</b>	-0,006	-6,173	0,000	0,000	0,000
B89	CS47 - IPE160	3,047	NC1	<b>-0,042</b>	0,108	0,650	0,000	6,039	0,007
B89	CS47 - IPE160	3,046	NC2	-0,106	<b>-0,608</b>	1,583	-0,002	18,147	-0,097
B89	CS47 - IPE160	0,000	NC2	-0,106	<b>0,595</b>	<b>10,717</b>	<b>-0,002</b>	0,000	0,000
B89	CS47 - IPE160	8,333	NC2	-0,106	-0,499	<b>-10,512</b>	-0,002	-6,956	<b>-0,243</b>
B89	CS47 - IPE160	5,287	NC8	-3,098	0,076	1,841	<b>0,001</b>	-6,897	-0,045
B89	CS47 - IPE160	3,494	NC15	-4,531	0,053	-0,314	0,001	<b>-12,080</b>	-0,089
B89	CS47 - IPE160	3,494	NC2	-0,106	0,240	0,255	-0,002	<b>18,516</b>	0,044
B89	CS47 - IPE160	1,219	NC2	-0,106	0,077	6,785	-0,002	10,626	<b>0,404</b>
B90	CS48 - IPE180	5,287	NC15	<b>-10,743</b>	0,239	3,691	-0,001	-4,396	-0,121
B90	CS48 - IPE180	0,000	NC3	<b>36,082</b>	0,266	-2,792	0,000	3,392	-0,223
B90	CS48 - IPE180	8,333	NC2	19,898	<b>-0,824</b>	<b>-16,518</b>	0,001	<b>-28,451</b>	<b>-0,612</b>
B90	CS48 - IPE180	0,000	NC2	19,898	<b>0,744</b>	<b>13,194</b>	<b>0,001</b>	-14,603	-0,344
B90	CS48 - IPE180	0,000	NC15	-10,743	0,150	-10,359	<b>-0,001</b>	12,005	-0,289
B90	CS48 - IPE180	8,333	NC16	-10,691	0,106	11,992	-0,001	<b>19,508</b>	<b>0,406</b>
B91	CS48 - IPE180	0,000	NC6	<b>-3,493</b>	0,166	-0,775	0,000	1,791	0,082
B91	CS48 - IPE180	0,000	NC2	<b>1,871</b>	<b>0,750</b>	<b>14,784</b>	<b>0,001</b>	-19,327	-0,262
B91	CS48 - IPE180	8,333	NC2	1,871	<b>-0,943</b>	<b>-17,357</b>	0,001	<b>-30,049</b>	<b>-0,774</b>
B91	CS48 - IPE180	0,000	NC15	-1,473	0,266	-11,896	<b>-0,001</b>	16,513	-0,533
B91	CS48 - IPE180	8,333	NC18	-3,366	-0,273	12,876	0,000	<b>20,795</b>	-0,528
B91	CS48 - IPE180	8,333	NC16	-1,454	0,218	12,624	-0,001	20,311	<b>0,664</b>
B92	CS39 - HEA140	0,000	NC15	<b>-21,219</b>	0,019	-5,220	-0,001	4,153	-0,201
B92	CS39 - HEA140	0,000	NC2	<b>10,197</b>	0,474	<b>9,070</b>	<b>0,002</b>	-9,072	-0,059
B92	CS39 - HEA140	8,333	NC2	10,197	<b>-1,004</b>	<b>-11,814</b>	0,002	<b>-20,671</b>	<b>-1,537</b>
B92	CS39 - HEA140	5,287	NC16	-20,563	<b>0,495</b>	2,336	-0,001	-2,389	-0,215
B92	CS39 - HEA140	0,000	NC18	-3,556	-0,193	-5,363	<b>-0,001</b>	4,333	0,655
B92	CS39 - HEA140	8,333	NC18	-3,557	0,175	7,260	-0,001	<b>12,177</b>	0,313
B92	CS39 - HEA140	8,333	NC16	-20,563	0,369	7,187	-0,001	12,117	<b>1,101</b>
B93	CS48 - IPE180	3,047	NC4	<b>-0,886</b>	0,166	-1,122	0,000	-1,093	-0,060
B93	CS48 - IPE180	3,047	NC16	<b>4,111</b>	0,088	-2,292	-0,001	-6,838	-0,127
B93	CS48 - IPE180	8,333	NC2	-0,120	<b>-0,862</b>	<b>-17,929</b>	0,001	<b>-31,173</b>	<b>-0,590</b>
B93	CS48 - IPE180	0,000	NC2	-0,120	<b>0,825</b>	<b>14,212</b>	<b>0,001</b>	-15,682	-0,421
B93	CS48 - IPE180	3,047	NC18	0,859	0,002	-2,119	<b>-0,001</b>	-7,629	-0,005
B93	CS48 - IPE180	8,333	NC18	0,858	-0,008	13,370	-0,001	<b>22,001</b>	0,075
B93	CS48 - IPE180	1,828	NC2	-0,120	-0,082	7,320	0,001	3,996	<b>0,258</b>
B94	CS47 - IPE160	0,000	NC18	<b>-7,788</b>	0,068	-5,797	<b>-0,001</b>	5,216	-0,058
B94	CS47 - IPE160	3,047	NC2	<b>0,003</b>	0,307	0,825	0,001	6,363	-0,122
B94	CS47 - IPE160	8,333	NC2	0,003	<b>-0,504</b>	<b>-10,613</b>	0,001	<b>-19,581</b>	<b>-0,374</b>
B94	CS47 - IPE160	0,000	NC2	0,003	<b>0,457</b>	7,493	<b>0,001</b>	-6,583	-0,212
B94	CS47 - IPE160	8,333	NC18	-7,788	-0,017	<b>7,850</b>	-0,001	<b>13,770</b>	0,023
B94	CS47 - IPE160	1,828	NC2	0,003	-0,056	3,600	0,001	3,556	<b>0,154</b>
B95	CS39 - HEA140	0,000	NC2	<b>-9,972</b>	<b>0,890</b>	<b>11,559</b>	<b>0,013</b>	0,000	0,000
B95	CS39 - HEA140	0,000	NC18	<b>9,174</b>	-0,205	-5,395	-0,005	0,000	0,000
B95	CS39 - HEA140	8,333	NC2	-9,972	<b>-0,761</b>	<b>-12,769</b>	0,013	<b>-13,352</b>	-0,362
B95	CS39 - HEA140	3,047	NC15	-3,805	0,184	-0,756	<b>-0,007</b>	-9,695	-0,688
B95	CS39 - HEA140	3,046	NC2	-9,972	-0,354	2,111	0,013	<b>20,234</b>	0,739
B95	CS39 - HEA140	3,046	NC18	9,174	-0,331	-0,543	-0,005	-9,044	<b>-0,815</b>
B95	CS39 - HEA140	1,828	NC2	-9,972	0,107	5,612	0,013	15,567	<b>0,894</b>
B96	CS48 - IPE180	3,047	NC18	<b>-0,836</b>	0,149	-1,518	0,001	-17,633	-0,278
B96	CS48 - IPE180	3,047	NC2	<b>2,451</b>	0,743	1,622	-0,001	29,808	-0,279
B96	CS48 - IPE180	3,046	NC2	2,450	<b>-1,118</b>	1,982	-0,001	29,805	-0,279
B96	CS48 - IPE180	0,000	NC2	2,450	<b>1,028</b>	<b>18,289</b>	<b>-0,001</b>	0,000	0,000
B96	CS48 - IPE180	8,333	NC2	2,450	-0,915	<b>-19,541</b>	-0,001	-19,425	-0,527
B96	CS48 - IPE180	0,000	NC12	0,218	0,051	-6,637	<b>0,002</b>	0,000	0,000
B96	CS48 - IPE180	3,494	NC16	-0,550	0,016	0,113	0,001	<b>-20,109</b>	-0,171
B96	CS48 - IPE180	3,494	NC2	2,451	0,474	-0,419	-0,001	<b>30,074</b>	-0,007



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B96	CS48 - IPE180	8,333	NC10	-0,484	-0,429	10,048	0,001	11,564	<b>-0,695</b>
B96	CS48 - IPE180	1,219	NC2	2,450	0,103	11,259	-0,001	17,935	<b>0,680</b>
B97	CS39 - HEA140	5,287	NC8	<b>-42,265</b>	0,547	3,276	0,003	-10,378	-0,480
B97	CS39 - HEA140	5,287	NC9	<b>34,336</b>	-0,014	0,243	0,001	-0,026	-0,301
B97	CS39 - HEA140	8,333	NC2	-0,217	<b>-1,030</b>	<b>-17,929</b>	-0,006	-14,623	-0,506
B97	CS39 - HEA140	0,000	NC2	-0,217	<b>1,252</b>	<b>17,524</b>	<b>-0,006</b>	0,000	0,000
B97	CS39 - HEA140	0,000	NC18	34,097	-0,203	-9,545	<b>0,004</b>	0,000	0,000
B97	CS39 - HEA140	3,494	NC16	-42,252	0,033	-0,232	0,004	<b>-19,170</b>	-0,583
B97	CS39 - HEA140	3,494	NC2	-0,217	0,267	0,064	-0,006	<b>29,722</b>	0,816
B97	CS39 - HEA140	8,333	NC9	34,336	-0,476	1,185	0,001	2,149	<b>-1,047</b>
B97	CS39 - HEA140	1,828	NC2	-0,217	-0,008	7,951	-0,006	23,073	<b>1,109</b>
B98	CS48 - IPE180	0,000	NC12	<b>-0,030</b>	0,056	-5,657	<b>-0,002</b>	0,000	0,000
B98	CS48 - IPE180	3,047	NC16	<b>2,348</b>	0,081	-1,682	-0,001	-21,009	-0,174
B98	CS48 - IPE180	3,046	NC2	0,138	<b>-1,107</b>	2,427	0,001	31,160	-0,245
B98	CS48 - IPE180	0,000	NC2	0,138	<b>1,039</b>	<b>18,733</b>	<b>0,001</b>	0,000	0,000
B98	CS48 - IPE180	8,333	NC2	0,138	-0,868	<b>-19,096</b>	0,001	-15,726	<b>-0,417</b>
B98	CS48 - IPE180	3,494	NC16	2,348	0,060	-0,269	-0,001	<b>-21,446</b>	-0,142
B98	CS48 - IPE180	3,494	NC2	0,138	0,444	0,025	0,001	<b>31,625</b>	0,014
B98	CS48 - IPE180	1,219	NC2	0,138	0,114	11,704	0,001	18,477	<b>0,694</b>
B99	CS39 - HEA140	0,000	NC7	<b>-18,220</b>	0,164	-4,198	0,000	7,326	-0,105
B99	CS39 - HEA140	0,000	NC11	<b>7,904</b>	0,137	-5,950	0,000	10,334	-0,502
B99	CS39 - HEA140	8,333	NC2	-7,810	<b>-0,606</b>	<b>-8,735</b>	0,001	-9,606	-0,350
B99	CS39 - HEA140	3,047	NC2	-7,809	<b>0,561</b>	4,225	0,001	2,784	-0,386
B99	CS39 - HEA140	0,000	NC2	-7,810	0,462	<b>12,281</b>	<b>0,001</b>	<b>-24,267</b>	-0,428
B99	CS39 - HEA140	5,287	NC18	1,411	-0,045	0,739	<b>-0,001</b>	-3,203	-0,612
B99	CS39 - HEA140	0,000	NC16	-16,200	0,057	-7,258	-0,001	<b>13,186</b>	-0,033
B99	CS39 - HEA140	8,333	NC10	0,011	-0,288	3,674	0,000	4,336	<b>-0,968</b>
B99	CS39 - HEA140	0,000	NC18	1,411	-0,274	-7,110	-0,001	12,760	<b>1,367</b>
B100	CS48 - IPE180	0,000	NC6	<b>-6,103</b>	0,142	-0,203	0,000	-0,886	0,191
B100	CS48 - IPE180	0,000	NC3	<b>3,173</b>	0,290	-4,413	0,000	5,898	-0,314
B100	CS48 - IPE180	8,333	NC2	0,406	<b>-0,807</b>	<b>-14,542</b>	0,001	-17,485	-0,387
B100	CS48 - IPE180	0,000	NC2	0,406	<b>0,754</b>	<b>17,599</b>	<b>0,001</b>	<b>-30,219</b>	-0,374
B100	CS48 - IPE180	3,047	NC18	-5,362	0,124	-4,075	<b>-0,001</b>	-4,932	-0,107
B100	CS48 - IPE180	0,000	NC16	-1,006	0,288	-12,917	-0,001	<b>20,566</b>	-0,515
B100	CS48 - IPE180	8,333	NC10	-4,206	-0,533	8,283	0,000	10,622	<b>-0,928</b>
B100	CS48 - IPE180	0,000	NC18	-5,363	-0,235	-12,886	-0,001	20,490	<b>0,823</b>
B101	CS48 - IPE180	5,287	NC15	<b>-9,807</b>	0,172	2,059	0,000	-5,426	-0,121
B101	CS48 - IPE180	0,000	NC3	<b>31,994</b>	0,314	-2,860	0,000	3,831	-0,394
B101	CS48 - IPE180	8,333	NC2	17,085	<b>-0,705</b>	<b>-13,545</b>	0,001	-17,526	-0,262
B101	CS48 - IPE180	0,000	NC2	17,085	<b>0,755</b>	<b>16,167</b>	<b>0,001</b>	<b>-28,452</b>	-0,483
B101	CS48 - IPE180	0,000	NC18	27,646	0,013	-11,793	<b>0,000</b>	19,451	0,268
B101	CS48 - IPE180	0,000	NC16	-9,781	0,153	-11,802	0,000	<b>19,506</b>	-0,224
B101	CS48 - IPE180	8,333	NC9	7,147	-0,367	1,325	0,000	1,829	<b>-0,570</b>
B101	CS48 - IPE180	0,000	NC17	17,290	-0,045	-4,618	0,000	7,185	<b>0,378</b>
B102	CS48 - IPE180	3,047	NC4	<b>-1,716</b>	0,187	-0,820	0,000	-1,730	-0,079
B102	CS48 - IPE180	0,000	NC16	<b>5,159</b>	0,043	-13,103	0,001	21,886	0,026
B102	CS48 - IPE180	8,333	NC2	-0,182	<b>-0,745</b>	<b>-14,486</b>	-0,001	-17,975	-0,245
B102	CS48 - IPE180	0,000	NC2	-0,182	<b>0,848</b>	<b>17,655</b>	<b>-0,001</b>	<b>-31,181</b>	<b>-0,585</b>
B102	CS48 - IPE180	3,047	NC16	5,158	0,057	-4,292	<b>0,001</b>	-4,196	-0,057
B102	CS48 - IPE180	0,000	NC18	0,436	0,066	-13,108	0,001	<b>22,006</b>	0,160
B102	CS48 - IPE180	7,114	NC2	-0,182	-0,140	-9,891	-0,001	-3,122	<b>0,294</b>
B103	CS47 - IPE160	0,000	NC18	<b>-7,533</b>	0,035	-7,677	0,001	<b>13,821</b>	0,129
B103	CS47 - IPE160	0,000	NC5	<b>0,127</b>	0,123	-0,336	0,000	0,229	0,037
B103	CS47 - IPE160	8,333	NC2	0,081	<b>-0,423</b>	-7,681	-0,001	-8,247	-0,139
B103	CS47 - IPE160	0,000	NC2	0,081	<b>0,474</b>	<b>10,424</b>	<b>-0,001</b>	<b>-19,672</b>	<b>-0,326</b>
B103	CS47 - IPE160	0,000	NC16	-2,185	-0,067	<b>-7,685</b>	0,001	13,786	<b>0,231</b>
B103	CS47 - IPE160	5,287	NC16	-2,185	-0,035	0,874	<b>0,001</b>	-3,802	0,040
B104	CS47 - IPE160	5,287	NC15	<b>-10,953</b>	0,262	3,286	-0,002	-6,142	-0,266
B104	CS47 - IPE160	3,047	NC1	<b>-0,362</b>	0,124	0,137	0,002	4,475	-0,013
B104	CS47 - IPE160	8,333	NC2	-0,746	<b>-0,643</b>	<b>-11,718</b>	0,003	<b>-17,002</b>	<b>-0,621</b>
B104	CS47 - IPE160	0,000	NC2	-0,746	<b>0,593</b>	<b>9,510</b>	<b>0,003</b>	0,000	0,000
B104	CS47 - IPE160	0,000	NC18	-1,038	0,005	-5,397	<b>-0,003</b>	0,000	0,000
B104	CS47 - IPE160	3,047	NC2	-0,746	0,421	0,197	0,003	<b>14,475</b>	-0,103
B104	CS47 - IPE160	8,333	NC16	-10,921	0,175	8,438	-0,002	11,866	<b>0,406</b>
B105	CS48 - IPE180	5,287	NC7	<b>-38,134</b>	0,071	2,255	0,001	-3,209	-0,101
B105	CS48 - IPE180	0,000	NC4	<b>32,164</b>	0,306	0,007	0,000	0,716	-0,321
B105	CS48 - IPE180	8,333	NC2	-19,549	<b>-0,862</b>	<b>-16,367</b>	-0,004	<b>-27,668</b>	<b>-0,687</b>
B105	CS48 - IPE180	0,000	NC2	-19,549	<b>0,759</b>	<b>13,346</b>	<b>-0,004</b>	-15,083	-0,371
B105	CS48 - IPE180	3,047	NC16	-29,409	0,037	-2,250	<b>0,002</b>	-6,404	-0,038
B105	CS48 - IPE180	8,333	NC16	-29,419	-0,181	11,876	0,002	<b>18,929</b>	-0,414
B105	CS48 - IPE180	0,000	NC15	-29,654	-0,090	-10,486	0,002	12,458	<b>0,438</b>
B107	CS39 - HEA140	0,000	NC16	<b>-15,527</b>	-0,203	-5,281	0,001	4,000	<b>1,041</b>
B107	CS39 - HEA140	0,000	NC2	<b>10,238</b>	<b>0,721</b>	<b>9,066</b>	<b>-0,002</b>	-9,731	-0,611
B107	CS39 - HEA140	8,333	NC2	10,238	<b>-1,051</b>	<b>-11,735</b>	-0,002	<b>-21,074</b>	<b>-1,602</b>
B107	CS39 - HEA140	5,287	NC18	-7,865	0,418	2,236	<b>0,001</b>	-2,433	-0,119
B107	CS39 - HEA140	8,333	NC16	-15,526	0,265	7,352	0,001	<b>12,792</b>	0,171



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B109	CS47 - IPE160	5,287	NC15	<b>-19,637</b>	0,218	1,173	0,003	-2,922	-0,240
B109	CS47 - IPE160	5,287	NC10	<b>-0,066</b>	0,083	0,974	0,001	-2,168	0,024
B109	CS47 - IPE160	8,333	NC2	-1,222	<b>-0,596</b>	<b>-8,443</b>	-0,004	-11,695	<b>-0,576</b>
B109	CS47 - IPE160	0,000	NC2	-1,222	<b>0,411</b>	<b>9,663</b>	<b>-0,004</b>	<b>-16,771</b>	-0,101
B109	CS47 - IPE160	5,287	NC16	-19,598	0,221	1,295	<b>0,003</b>	-3,145	-0,243
B109	CS47 - IPE160	0,000	NC16	-19,598	0,198	-7,280	0,003	<b>12,224</b>	-0,281
B109	CS47 - IPE160	8,333	NC16	-19,598	0,126	6,384	0,003	8,552	<b>0,285</b>
B110	CS39 - HEA140	0,000	NC2	<b>-8,138</b>	<b>0,944</b>	<b>11,508</b>	<b>0,012</b>	0,000	0,000
B110	CS39 - HEA140	5,287	NC16	<b>5,214</b>	0,350	2,954	-0,009	-7,980	-0,756
B110	CS39 - HEA140	8,333	NC2	-8,138	<b>-0,941</b>	<b>-12,743</b>	0,012	<b>-13,611</b>	<b>-1,060</b>
B110	CS39 - HEA140	3,047	NC16	5,213	0,112	-0,344	<b>-0,009</b>	-11,242	-0,903
B110	CS39 - HEA140	3,046	NC2	-8,138	-0,300	2,059	0,012	<b>20,076</b>	0,902
B110	CS39 - HEA140	2,437	NC2	-8,138	-0,076	3,763	0,012	18,307	<b>1,018</b>
B112	CS48 - IPE180	5,287	NC16	<b>-35,414</b>	0,036	4,664	0,001	-15,235	-0,138
B112	CS48 - IPE180	5,287	NC18	<b>28,647</b>	0,151	4,279	<b>-0,001</b>	-13,159	-0,095
B112	CS48 - IPE180	3,046	NC2	0,172	<b>-1,007</b>	2,214	0,001	28,585	-0,193
B112	CS48 - IPE180	0,000	NC2	0,172	<b>0,965</b>	<b>17,191</b>	<b>0,001</b>	0,000	0,000
B112	CS48 - IPE180	8,333	NC2	0,172	-0,936	<b>-17,689</b>	0,001	-15,015	<b>-0,754</b>
B112	CS48 - IPE180	3,494	NC16	-35,402	0,078	-0,225	0,001	<b>-19,461</b>	-0,206
B112	CS48 - IPE180	3,494	NC2	0,172	0,413	-0,029	0,001	<b>28,979</b>	0,047
B112	CS48 - IPE180	1,219	NC2	0,172	0,115	10,740	0,001	16,956	<b>0,650</b>
B114	CS39 - HEA140	0,000	NC8	<b>-10,291</b>	0,122	-4,572	0,000	8,309	0,527
B114	CS39 - HEA140	0,000	NC18	<b>-0,042</b>	-0,016	-7,269	0,001	13,405	0,129
B114	CS39 - HEA140	8,333	NC2	-5,088	<b>-0,663</b>	<b>-8,756</b>	-0,001	-10,033	-0,563
B114	CS39 - HEA140	0,000	NC2	-5,088	<b>0,675</b>	<b>12,169</b>	<b>-0,001</b>	<b>-24,160</b>	<b>-0,726</b>
B114	CS39 - HEA140	5,287	NC15	-9,230	0,080	0,539	<b>0,001</b>	-2,841	-0,636
B114	CS39 - HEA140	0,000	NC16	-9,660	-0,022	-7,265	0,001	<b>13,644</b>	<b>0,699</b>
B116	CS48 - IPE180	5,287	NC7	<b>-36,501</b>	0,059	1,526	0,000	-3,678	-0,107
B116	CS48 - IPE180	0,000	NC4	<b>27,118</b>	0,350	0,382	0,000	-1,450	-0,492
B116	CS48 - IPE180	8,333	NC2	-19,361	<b>-0,753</b>	<b>-13,567</b>	0,001	-16,906	-0,394
B116	CS48 - IPE180	0,000	NC2	-19,361	<b>0,781</b>	<b>16,145</b>	<b>0,001</b>	<b>-27,645</b>	-0,496
B116	CS48 - IPE180	3,047	NC18	5,152	0,022	-3,642	<b>0,000</b>	-4,523	0,004
B116	CS48 - IPE180	0,000	NC16	-28,251	-0,075	-11,706	0,000	<b>18,915</b>	<b>0,445</b>
B116	CS48 - IPE180	8,333	NC7	-36,501	-0,376	7,535	0,000	10,123	<b>-0,591</b>
B118	CS47 - IPE160	5,287	NC15	<b>-31,401</b>	0,141	1,683	0,000	-3,581	-0,212
B118	CS47 - IPE160	0,000	NC12	<b>5,174</b>	0,058	-1,594	0,000	2,043	-0,102
B118	CS47 - IPE160	8,333	NC2	-1,689	<b>-0,533</b>	<b>-9,195</b>	0,000	<b>-12,985</b>	<b>-0,400</b>
B118	CS47 - IPE160	0,000	NC2	-1,689	<b>0,420</b>	<b>8,911</b>	<b>0,000</b>	-11,802	-0,175
B118	CS47 - IPE160	0,000	NC18	3,459	-0,019	-6,706	<b>0,000</b>	8,746	0,135
B118	CS47 - IPE160	8,333	NC18	3,460	-0,109	6,941	0,000	<b>9,723</b>	-0,163
B118	CS47 - IPE160	3,047	NC15	-31,395	-0,161	-1,742	0,000	-3,667	<b>0,227</b>
B119	CS47 - IPE160	0,000	NC18	<b>-5,249</b>	-0,002	-6,183	0,000	0,000	0,000
B119	CS47 - IPE160	3,047	NC1	<b>-0,039</b>	-0,112	0,652	0,000	6,045	-0,011
B119	CS47 - IPE160	0,000	NC2	-0,111	<b>-0,611</b>	<b>10,723</b>	0,001	0,000	0,000
B119	CS47 - IPE160	3,046	NC2	-0,111	<b>0,592</b>	1,590	0,001	18,167	0,048
B119	CS47 - IPE160	8,333	NC2	-0,111	0,565	<b>-10,505</b>	0,001	-6,899	<b>0,386</b>
B119	CS47 - IPE160	5,287	NC7	-3,109	-0,130	1,816	<b>-0,001</b>	-7,030	0,031
B119	CS47 - IPE160	0,000	NC14	-1,857	-0,046	-3,012	<b>0,001</b>	0,000	0,000
B119	CS47 - IPE160	3,494	NC15	-4,525	-0,028	-0,321	0,000	<b>-12,105</b>	0,033
B119	CS47 - IPE160	3,494	NC2	-0,111	-0,245	0,262	0,001	<b>18,540</b>	-0,095
B119	CS47 - IPE160	1,219	NC2	-0,111	-0,093	6,792	0,001	10,634	<b>-0,424</b>
B120	CS48 - IPE180	5,287	NC16	<b>-35,409</b>	-0,192	4,158	0,000	-4,783	-0,034
B120	CS48 - IPE180	0,000	NC11	<b>34,541</b>	-0,031	-3,316	0,000	3,596	-0,076
B120	CS48 - IPE180	0,000	NC2	16,148	<b>-0,759</b>	12,426	0,000	-9,777	0,365
B120	CS48 - IPE180	8,333	NC2	16,148	<b>0,871</b>	<b>-17,286</b>	0,000	<b>-30,025</b>	<b>0,710</b>
B120	CS48 - IPE180	8,333	NC16	-35,409	-0,058	<b>12,455</b>	0,000	<b>20,523</b>	<b>-0,416</b>
B120	CS48 - IPE180	0,000	NC14	16,197	-0,095	-5,459	<b>0,000</b>	5,181	0,148
B120	CS48 - IPE180	3,047	NC10	3,465	-0,159	-1,460	<b>0,001</b>	-5,211	0,095
B121	CS48 - IPE180	0,000	NC3	<b>-3,706</b>	-0,149	-0,700	0,000	1,460	-0,129
B121	CS48 - IPE180	3,047	NC16	<b>3,469</b>	0,025	-2,693	0,000	-5,663	-0,016
B121	CS48 - IPE180	0,000	NC2	1,235	<b>-0,777</b>	<b>14,690</b>	<b>0,000</b>	-19,105	0,309
B121	CS48 - IPE180	8,333	NC2	1,235	<b>0,972</b>	<b>-17,451</b>	0,000	<b>-30,612</b>	0,831
B121	CS48 - IPE180	0,000	NC15	3,453	-0,349	-11,727	<b>0,000</b>	15,701	0,834
B121	CS48 - IPE180	8,333	NC18	-1,503	0,134	12,902	0,000	<b>21,002</b>	0,195
B121	CS48 - IPE180	8,333	NC16	3,467	-0,291	12,797	0,000	20,937	<b>-0,944</b>
B121	CS48 - IPE180	0,000	NC8	3,132	-0,500	-8,603	0,000	12,064	<b>0,854</b>
B122	CS39 - HEA140	0,000	NC16	<b>-18,068</b>	-0,125	-5,762	0,001	5,810	0,884
B122	CS39 - HEA140	0,000	NC2	<b>8,541</b>	-0,582	<b>9,084</b>	<b>-0,002</b>	-9,685	0,265
B122	CS39 - HEA140	5,287	NC16	-18,068	<b>-0,620</b>	2,020	0,001	-2,945	-0,145
B122	CS39 - HEA140	8,333	NC2	8,541	<b>1,169</b>	<b>-11,718</b>	-0,002	<b>-20,887</b>	<b>1,883</b>
B122	CS39 - HEA140	0,000	NC18	-3,877	0,128	-5,488	<b>0,001</b>	4,888	-0,422
B122	CS39 - HEA140	8,333	NC18	-3,878	-0,185	7,144	0,001	<b>11,845</b>	-0,407
B122	CS39 - HEA140	8,333	NC16	-18,068	-0,495	6,872	0,001	10,600	<b>-1,844</b>
B123	CS48 - IPE180	3,047	NC6	<b>-0,997</b>	-0,178	-0,989	0,000	-1,188	0,090
B123	CS48 - IPE180	3,047	NC16	<b>1,846</b>	-0,182	-2,218	0,000	-7,071	0,213
B123	CS48 - IPE180	0,000	NC2	-0,135	<b>-0,828</b>	<b>14,129</b>	<b>0,000</b>	-15,155	0,416



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B123	CS48 - IPE180	8,333	NC2	-0,135	<b>0,922</b>	<b>-18,012</b>	0,000	<b>-31,339</b>	<b>0,717</b>
B123	CS48 - IPE180	3,047	NC18	-0,924	0,010	-2,083	<b>0,001</b>	-7,697	-0,010
B123	CS48 - IPE180	8,333	NC18	-0,926	-0,034	13,406	0,001	<b>22,123</b>	-0,190
B123	CS48 - IPE180	8,333	NC16	1,844	0,004	13,272	0,000	22,036	<b>-0,281</b>
B124	CS47 - IPE160	0,000	NC18	<b>-8,022</b>	-0,163	-5,774	<b>0,001</b>	5,131	0,286
B124	CS47 - IPE160	3,047	NC2	<b>0,042</b>	-0,318	0,819	-0,001	6,401	0,112
B124	CS47 - IPE160	0,000	NC2	0,042	<b>-0,459</b>	7,487	<b>-0,001</b>	-6,526	0,209
B124	CS47 - IPE160	8,333	NC2	0,042	<b>0,544</b>	<b>-10,619</b>	-0,001	<b>-19,575</b>	<b>0,458</b>
B124	CS47 - IPE160	8,333	NC18	-8,022	-0,077	<b>7,873</b>	0,001	<b>13,875</b>	<b>-0,248</b>
B125	CS39 - HEA140	0,000	NC2	<b>-9,309</b>	<b>-0,981</b>	<b>11,522</b>	<b>-0,007</b>	0,000	0,000
B125	CS39 - HEA140	0,000	NC18	<b>5,830</b>	0,174	-5,431	0,004	0,000	0,000
B125	CS39 - HEA140	8,333	NC2	-9,309	<b>1,038</b>	<b>-12,729</b>	-0,007	<b>-13,491</b>	<b>0,934</b>
B125	CS39 - HEA140	3,047	NC16	-7,728	-0,327	-0,440	<b>0,006</b>	-11,537	0,705
B125	CS39 - HEA140	3,047	NC2	-9,308	-0,306	0,521	-0,007	<b>20,120</b>	-1,016
B125	CS39 - HEA140	3,942	NC2	-9,308	0,001	-1,817	-0,007	19,524	<b>-1,150</b>
B126	CS48 - IPE180	3,047	NC18	<b>-0,811</b>	-0,122	-1,544	-0,002	-17,712	0,236
B126	CS48 - IPE180	3,047	NC2	<b>2,216</b>	-0,745	1,654	0,004	29,905	0,207
B126	CS48 - IPE180	0,000	NC2	2,216	<b>-1,052</b>	<b>18,321</b>	<b>0,004</b>	0,000	0,000
B126	CS48 - IPE180	3,046	NC2	2,216	<b>1,095</b>	2,014	0,004	29,903	0,207
B126	CS48 - IPE180	8,333	NC2	2,216	0,994	<b>-19,509</b>	0,004	-19,159	<b>0,692</b>
B126	CS48 - IPE180	0,000	NC14	0,122	-0,049	-6,622	<b>-0,002</b>	0,000	0,000
B126	CS48 - IPE180	3,494	NC16	0,965	-0,027	-0,015	-0,002	<b>-20,557</b>	0,149
B126	CS48 - IPE180	3,494	NC2	2,216	-0,476	-0,387	0,004	<b>30,186</b>	-0,066
B126	CS48 - IPE180	1,219	NC2	2,216	-0,126	11,291	0,004	17,974	<b>-0,709</b>
B127	CS48 - IPE180	5,287	NC8	<b>-66,629</b>	-0,232	3,122	0,000	-12,149	0,056
B127	CS48 - IPE180	5,287	NC9	<b>37,387</b>	-0,171	0,373	-0,002	-0,300	0,053
B127	CS48 - IPE180	0,000	NC2	-0,173	<b>-0,981</b>	<b>17,829</b>	<b>0,002</b>	0,000	0,000
B127	CS48 - IPE180	3,046	NC2	-0,173	<b>0,991</b>	2,851	0,002	30,527	0,144
B127	CS48 - IPE180	8,333	NC2	-0,173	0,923	<b>-17,051</b>	0,002	-9,703	<b>0,635</b>
B127	CS48 - IPE180	0,000	NC18	36,634	0,007	-9,980	<b>-0,003</b>	0,000	0,000
B127	CS48 - IPE180	3,494	NC16	-66,430	-0,076	-0,613	0,000	<b>-20,818</b>	0,115
B127	CS48 - IPE180	3,494	NC2	-0,173	-0,427	0,608	0,002	<b>31,207</b>	-0,102
B127	CS48 - IPE180	1,219	NC2	-0,173	-0,131	11,377	0,002	17,733	<b>-0,669</b>
B128	CS48 - IPE180	0,000	NC13	<b>-0,213</b>	-0,063	-5,722	0,002	0,000	0,000
B128	CS48 - IPE180	3,047	NC16	<b>1,234</b>	-0,100	-1,737	0,002	-21,177	0,125
B128	CS48 - IPE180	0,000	NC2	0,107	<b>-1,063</b>	<b>18,796</b>	<b>-0,002</b>	0,000	0,000
B128	CS48 - IPE180	3,046	NC2	0,107	<b>1,084</b>	2,490	-0,002	31,352	0,173
B128	CS48 - IPE180	8,333	NC2	0,107	0,967	<b>-19,033</b>	-0,002	-15,199	<b>0,629</b>
B128	CS48 - IPE180	0,000	NC14	-0,212	-0,063	-5,726	<b>0,002</b>	0,000	0,000
B128	CS48 - IPE180	3,494	NC16	1,234	-0,079	-0,324	0,002	<b>-21,639</b>	0,085
B128	CS48 - IPE180	3,494	NC2	0,107	-0,452	0,088	-0,002	<b>31,846</b>	-0,089
B128	CS48 - IPE180	1,219	NC2	0,107	-0,137	11,767	-0,002	18,554	<b>-0,722</b>
B129	CS39 - HEA140	0,000	NC3	<b>-13,900</b>	-0,012	1,145	0,000	-3,196	-0,617
B129	CS39 - HEA140	0,000	NC18	<b>6,637</b>	0,073	-7,354	0,001	13,770	-0,442
B129	CS39 - HEA140	0,000	NC2	-9,170	<b>-0,650</b>	<b>12,214</b>	<b>-0,001</b>	<b>-24,399</b>	0,874
B129	CS39 - HEA140	8,333	NC2	-9,170	<b>0,721</b>	<b>-8,710</b>	-0,001	-9,897	0,514
B129	CS39 - HEA140	3,047	NC16	5,564	-0,195	-3,052	<b>0,001</b>	-0,396	0,244
B129	CS39 - HEA140	0,000	NC16	5,566	-0,209	-7,675	0,001	<b>15,596</b>	0,688
B129	CS39 - HEA140	8,333	NC16	5,566	-0,266	5,052	0,001	4,764	<b>-1,090</b>
B129	CS39 - HEA140	8,333	NC4	-13,892	0,364	-0,382	0,000	0,004	<b>0,891</b>
B130	CS48 - IPE180	0,000	NC3	<b>-6,334</b>	-0,132	-0,384	0,000	-0,594	-0,221
B130	CS48 - IPE180	0,000	NC15	<b>7,069</b>	-0,365	-13,017	0,001	21,382	0,776
B130	CS48 - IPE180	0,000	NC2	0,060	<b>-0,820</b>	<b>17,613</b>	<b>-0,001</b>	<b>-30,748</b>	0,529
B130	CS48 - IPE180	8,333	NC2	0,060	<b>0,808</b>	<b>-14,528</b>	-0,001	-17,892	0,363
B130	CS48 - IPE180	3,047	NC18	-1,371	-0,097	-4,168	<b>0,001</b>	-4,749	0,075
B130	CS48 - IPE180	0,000	NC16	7,059	-0,363	-13,026	0,001	<b>21,435</b>	0,772
B130	CS48 - IPE180	8,333	NC16	7,059	-0,166	11,275	0,001	14,138	<b>-0,594</b>
B130	CS48 - IPE180	0,000	NC7	6,195	-0,521	-9,170	0,000	14,564	<b>0,836</b>
B131	CS48 - IPE180	5,287	NC16	<b>-30,443</b>	-0,084	1,923	0,000	-5,120	-0,053
B131	CS48 - IPE180	0,000	NC11	<b>30,794</b>	-0,007	-3,766	0,000	5,815	-0,209
B131	CS48 - IPE180	0,000	NC2	13,818	<b>-0,802</b>	<b>16,390</b>	<b>-0,001</b>	<b>-30,003</b>	<b>0,593</b>
B131	CS48 - IPE180	8,333	NC2	13,818	<b>0,727</b>	<b>-13,322</b>	-0,001	-17,223	0,287
B131	CS48 - IPE180	0,000	NC18	12,039	-0,051	-11,894	<b>0,000</b>	20,083	-0,059
B131	CS48 - IPE180	0,000	NC16	-30,443	-0,119	-11,931	0,000	<b>20,508</b>	0,232
B131	CS48 - IPE180	6,505	NC2	13,818	-0,110	-6,963	-0,001	1,317	<b>-0,277</b>
B132	CS48 - IPE180	0,000	NC18	<b>-2,357</b>	-0,165	-13,115	-0,001	<b>22,126</b>	0,185
B132	CS48 - IPE180	3,047	NC16	<b>1,343</b>	-0,148	-4,297	<b>-0,001</b>	-4,057	0,123
B132	CS48 - IPE180	0,000	NC2	-0,202	<b>-0,881</b>	<b>17,664</b>	<b>0,001</b>	<b>-31,348</b>	<b>0,666</b>
B132	CS48 - IPE180	8,333	NC2	-0,202	<b>0,780</b>	<b>-14,477</b>	0,001	-18,072	0,298
B132	CS48 - IPE180	6,505	NC2	-0,202	-0,127	-7,586	0,001	2,093	<b>-0,298</b>
B133	CS47 - IPE160	0,000	NC18	<b>-8,108</b>	-0,169	-7,700	-0,001	<b>13,927</b>	0,253
B133	CS47 - IPE160	3,047	NC2	<b>0,119</b>	-0,338	3,750	0,002	2,191	0,167
B133	CS47 - IPE160	0,000	NC2	0,119	<b>-0,498</b>	<b>10,418</b>	<b>0,002</b>	<b>-19,665</b>	<b>0,383</b>
B133	CS47 - IPE160	8,333	NC2	0,119	<b>0,446</b>	-7,688	0,002	-8,292	0,171
B133	CS47 - IPE160	0,000	NC16	-3,391	-0,035	<b>-7,702</b>	-0,001	13,821	0,050
B133	CS47 - IPE160	5,287	NC16	-3,391	-0,024	0,856	<b>-0,001</b>	-3,859	-0,061



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B133	CS47 - IPE160	8,333	NC18	-8,108	-0,059	5,946	-0,001	6,620	<b>-0,180</b>
B1534	CS47 - IPE160	0,000	NC18	<b>-7,320</b>	0,002	-5,771	-0,001	6,695	0,125
B1534	CS47 - IPE160	0,000	NC7	<b>0,860</b>	0,070	-3,830	-0,001	4,411	0,021
B1534	CS47 - IPE160	5,287	NC2	0,056	<b>-0,396</b>	-4,157	0,002	0,116	-0,274
B1534	CS47 - IPE160	0,000	NC2	0,056	<b>0,514</b>	7,281	<b>0,002</b>	-8,217	<b>-0,357</b>
B1534	CS47 - IPE160	8,333	NC2	0,056	-0,354	<b>-10,825</b>	0,002	<b>-22,979</b>	-0,052
B1534	CS47 - IPE160	8,333	NC16	-0,532	-0,134	<b>7,911</b>	-0,001	<b>15,653</b>	-0,127
B1534	CS47 - IPE160	5,287	NC16	-0,532	-0,039	2,823	<b>-0,001</b>	-0,697	0,136
B1534	CS47 - IPE160	7,114	NC2	0,056	-0,013	-8,230	0,002	-11,369	<b>0,172</b>
B1535	CS48 - IPE180	5,287	NC16	<b>-9,313</b>	0,168	3,668	0,000	-2,952	0,017
B1535	CS48 - IPE180	0,000	NC3	<b>29,238</b>	0,255	-2,841	0,000	3,704	-0,178
B1535	CS48 - IPE180	5,287	NC2	15,059	<b>-0,617</b>	-5,519	-0,001	3,007	-0,410
B1535	CS48 - IPE180	0,000	NC2	15,065	<b>0,812</b>	<b>13,233</b>	<b>-0,001</b>	-17,527	<b>-0,525</b>
B1535	CS48 - IPE180	8,333	NC2	15,065	-0,615	<b>-16,479</b>	-0,001	<b>-31,052</b>	-0,158
B1535	CS48 - IPE180	0,000	NC18	24,542	-0,004	-10,182	<b>0,000</b>	13,469	0,199
B1535	CS48 - IPE180	8,333	NC18	24,542	-0,145	11,969	0,000	<b>20,915</b>	-0,268
B1535	CS48 - IPE180	8,333	NC16	-9,313	0,034	11,964	0,000	20,858	<b>0,325</b>
B1536	CS48 - IPE180	3,047	NC11	<b>-2,355</b>	0,071	-1,492	0,000	-2,967	-0,027
B1536	CS48 - IPE180	0,000	NC16	<b>6,783</b>	0,068	-10,913	<b>-0,001</b>	13,949	-0,157
B1536	CS48 - IPE180	5,287	NC2	-0,110	<b>-0,682</b>	-6,297	0,002	2,525	-0,455
B1536	CS48 - IPE180	0,000	NC2	-0,110	<b>0,905</b>	<b>13,997</b>	<b>0,002</b>	-17,974	<b>-0,626</b>
B1536	CS48 - IPE180	8,333	NC2	-0,110	-0,651	<b>-18,144</b>	0,002	<b>-35,254</b>	-0,133
B1536	CS48 - IPE180	8,333	NC16	6,782	-0,061	13,388	-0,001	<b>24,261</b>	0,118
B1536	CS48 - IPE180	7,114	NC2	-0,110	-0,046	-13,550	0,002	-15,943	<b>0,291</b>
B1537	CS48 - IPE180	0,000	NC18	<b>-8,475</b>	-0,257	-11,056	0,001	13,898	<b>0,770</b>
B1537	CS48 - IPE180	0,000	NC3	<b>4,757</b>	0,225	-4,368	0,000	5,834	-0,084
B1537	CS48 - IPE180	8,333	NC2	0,752	<b>-0,709</b>	<b>-18,040</b>	-0,001	<b>-33,846</b>	-0,262
B1537	CS48 - IPE180	0,000	NC2	0,752	<b>0,826</b>	<b>14,101</b>	<b>-0,001</b>	-17,434	-0,452
B1537	CS48 - IPE180	5,287	NC18	-8,475	-0,276	4,163	<b>0,001</b>	-3,494	0,185
B1537	CS48 - IPE180	8,333	NC18	-8,475	-0,418	13,246	0,001	<b>23,023</b>	<b>-0,872</b>
B1538	CS39 - HEA140	0,000	NC6	<b>-20,060</b>	0,165	0,635	0,000	-1,150	-0,050
B1538	CS39 - HEA140	0,000	NC11	<b>15,520</b>	-0,070	-4,948	0,000	6,453	0,233
B1538	CS39 - HEA140	8,333	NC2	-10,644	<b>-0,564</b>	<b>-12,342</b>	-0,002	<b>-24,944</b>	-0,618
B1538	CS39 - HEA140	0,000	NC2	-10,644	<b>0,547</b>	<b>8,693</b>	<b>-0,002</b>	-10,106	-0,318
B1538	CS39 - HEA140	3,047	NC18	-2,384	-0,066	-0,761	<b>0,001</b>	-3,208	0,021
B1538	CS39 - HEA140	8,333	NC18	-2,386	-0,147	7,516	0,001	<b>14,592</b>	-0,485
B1538	CS39 - HEA140	0,000	NC15	-15,373	0,133	-5,175	0,001	5,845	<b>-0,682</b>
B1538	CS39 - HEA140	8,333	NC16	-15,270	0,203	7,195	0,001	13,393	<b>1,044</b>
B1539	CS39 - HEA140	0,000	NC2	<b>-7,779</b>	<b>-0,944</b>	<b>8,717</b>	<b>-0,001</b>	-9,957	<b>1,024</b>
B1539	CS39 - HEA140	5,287	NC16	<b>2,701</b>	-0,330	2,377	0,001	-1,262	0,562
B1539	CS39 - HEA140	8,333	NC2	-7,779	<b>0,712</b>	<b>-12,319</b>	-0,001	<b>-24,598</b>	0,888
B1539	CS39 - HEA140	0,000	NC18	0,088	0,254	-5,402	<b>0,001</b>	6,047	-0,231
B1539	CS39 - HEA140	8,333	NC18	0,087	0,191	7,308	0,001	<b>13,680</b>	-0,118
B1539	CS39 - HEA140	5,287	NC18	0,087	-0,509	2,598	0,001	-1,195	<b>-0,509</b>
B1540	CS48 - IPE180	0,000	NC3	<b>-5,212</b>	-0,200	0,108	0,000	-0,297	0,015
B1540	CS48 - IPE180	0,000	NC8	<b>5,629</b>	-0,268	-8,114	0,000	10,306	0,091
B1540	CS48 - IPE180	0,000	NC2	1,997	<b>-0,918</b>	<b>14,100</b>	0,000	-16,746	<b>0,613</b>
B1540	CS48 - IPE180	8,333	NC2	1,997	<b>0,803</b>	<b>-18,041</b>	0,000	<b>-33,165</b>	0,460
B1540	CS48 - IPE180	0,000	NC9	-0,837	-0,252	-1,601	<b>0,000</b>	2,407	0,207
B1540	CS48 - IPE180	0,000	NC14	2,628	-0,093	-3,934	<b>0,000</b>	5,051	0,095
B1540	CS48 - IPE180	8,333	NC18	0,716	0,072	13,174	0,000	<b>22,306</b>	-0,085
B1540	CS48 - IPE180	1,828	NC2	1,997	-0,010	7,208	0,000	2,729	<b>-0,235</b>
B1541	CS48 - IPE180	0,000	NC2	<b>-14,339</b>	<b>-0,883</b>	<b>13,562</b>	<b>0,001</b>	-16,879	<b>0,642</b>
B1541	CS48 - IPE180	0,000	NC5	<b>64,390</b>	-0,293	0,073	0,000	-0,003	0,264
B1541	CS48 - IPE180	8,333	NC2	-14,339	<b>0,733</b>	<b>-16,150</b>	0,001	<b>-27,661</b>	0,405
B1541	CS48 - IPE180	3,047	NC16	7,019	-0,012	-2,433	<b>0,000</b>	-5,871	-0,016
B1541	CS48 - IPE180	8,333	NC18	2,764	0,073	11,709	0,000	<b>18,646</b>	-0,079
B1541	CS48 - IPE180	1,828	NC2	-14,339	-0,046	7,203	0,001	2,099	<b>-0,207</b>
B1542	CS48 - IPE180	3,047	NC14	<b>-2,929</b>	-0,055	-0,915	0,000	-1,635	0,037
B1542	CS48 - IPE180	3,047	NC11	<b>2,527</b>	-0,063	-1,407	0,000	-2,500	0,030
B1542	CS48 - IPE180	0,000	NC2	0,370	<b>-1,202</b>	<b>20,771</b>	<b>0,000</b>	-28,683	<b>0,808</b>
B1542	CS48 - IPE180	8,333	NC2	0,370	<b>1,071</b>	<b>-21,531</b>	0,000	<b>-31,850</b>	0,611
B1542	CS48 - IPE180	3,047	NC16	-1,969	-0,109	-3,170	<b>0,000</b>	-6,328	0,091
B1542	CS48 - IPE180	8,333	NC18	0,742	0,009	12,351	0,000	<b>17,918</b>	-0,233
B1542	CS48 - IPE180	0,000	NC16	-1,968	0,093	-11,982	0,000	16,338	<b>-0,408</b>
B1543	CS47 - IPE160	0,000	NC11	<b>-19,558</b>	-0,061	-4,903	0,000	6,860	0,053
B1543	CS47 - IPE160	0,000	NC14	<b>14,877</b>	0,006	-1,593	<b>0,000</b>	2,090	-0,087
B1543	CS47 - IPE160	0,000	NC2	0,650	<b>-0,772</b>	<b>13,575</b>	<b>0,000</b>	-19,110	<b>0,513</b>
B1543	CS47 - IPE160	8,333	NC2	0,650	<b>0,699</b>	<b>-13,577</b>	0,000	<b>-19,116</b>	0,414
B1543	CS47 - IPE160	8,333	NC18	-5,490	-0,015	6,861	0,000	<b>9,634</b>	-0,208
B1543	CS47 - IPE160	8,333	NC17	-6,737	-0,066	2,555	0,000	3,603	<b>-0,301</b>
B1544	CS47 - IPE160	0,000	NC18	<b>-6,955</b>	-0,065	-8,405	0,002	15,480	<b>0,348</b>
B1544	CS47 - IPE160	0,000	NC7	<b>1,682</b>	0,039	-5,511	0,001	10,017	0,139
B1544	CS47 - IPE160	8,333	NC2	-0,154	<b>-0,340</b>	-6,339	-0,003	-0,403	0,106
B1544	CS47 - IPE160	0,000	NC2	-0,154	<b>0,619</b>	<b>11,766</b>	<b>-0,003</b>	<b>-23,010</b>	<b>-0,688</b>
B1544	CS47 - IPE160	0,000	NC16	0,457	-0,105	<b>-8,460</b>	0,002	<b>15,673</b>	0,302



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1544	CS47 - IPE160	5,287	NC16	0,457	-0,056	0,098	<b>0,002</b>	-6,013	0,061
B1545	CS48 - IPE180	5,287	NC16	<b>-9,251</b>	0,130	1,243	0,001	-8,367	-0,078
B1545	CS48 - IPE180	0,000	NC3	<b>27,499</b>	0,234	-2,845	0,000	3,732	-0,118
B1545	CS48 - IPE180	8,333	NC2	13,629	<b>-0,569</b>	-12,061	-0,001	-7,762	0,120
B1545	CS48 - IPE180	0,000	NC2	13,629	<b>0,980</b>	<b>17,651</b>	<b>-0,001</b>	<b>-31,052</b>	<b>-1,036</b>
B1545	CS48 - IPE180	0,000	NC18	22,281	-0,096	<b>-12,631</b>	0,001	<b>20,915</b>	<b>0,509</b>
B1545	CS48 - IPE180	0,000	NC14	24,945	0,046	-4,058	<b>0,001</b>	6,515	0,028
B1546	CS48 - IPE180	3,047	NC11	<b>-2,987</b>	0,064	-2,520	0,000	-3,126	-0,039
B1546	CS48 - IPE180	0,000	NC16	<b>8,874</b>	-0,014	<b>-14,176</b>	0,003	<b>24,262</b>	0,134
B1546	CS48 - IPE180	8,333	NC2	0,058	<b>-0,624</b>	-12,626	-0,004	-6,552	0,109
B1546	CS48 - IPE180	0,000	NC2	0,058	<b>1,059</b>	<b>19,515</b>	<b>-0,004</b>	<b>-35,256</b>	<b>-1,113</b>
B1546	CS48 - IPE180	3,047	NC16	8,872	0,095	-5,364	<b>0,003</b>	-5,088	-0,123
B1546	CS48 - IPE180	7,114	NC2	0,058	-0,019	-8,032	-0,004	6,035	<b>0,501</b>
B1547	CS48 - IPE180	0,000	NC18	<b>-12,329</b>	-0,364	-13,663	0,001	22,486	<b>1,110</b>
B1547	CS48 - IPE180	0,000	NC3	<b>5,247</b>	0,188	-4,423	0,000	6,011	0,015
B1547	CS48 - IPE180	8,333	NC2	3,251	<b>-0,642</b>	-13,180	-0,001	-9,517	0,053
B1547	CS48 - IPE180	0,000	NC2	3,251	<b>1,018</b>	<b>18,961</b>	<b>-0,001</b>	<b>-33,604</b>	-1,010
B1547	CS48 - IPE180	0,000	NC16	-0,314	0,237	<b>-13,705</b>	0,001	<b>22,675</b>	-0,427
B1547	CS48 - IPE180	3,047	NC16	-0,313	-0,078	-4,893	<b>0,001</b>	-5,241	0,080
B1547	CS48 - IPE180	8,333	NC18	-12,328	-0,454	10,639	0,001	9,887	<b>-1,075</b>
B1548	CS39 - HEA140	0,000	NC8	<b>-21,315</b>	0,037	-4,622	0,001	7,655	0,028
B1548	CS39 - HEA140	0,000	NC4	<b>14,843</b>	0,141	-3,004	0,000	3,972	0,016
B1548	CS39 - HEA140	3,046	NC18	-14,437	<b>-0,665</b>	-2,194	0,002	-2,375	0,100
B1548	CS39 - HEA140	0,000	NC2	1,882	<b>1,050</b>	<b>12,133</b>	<b>-0,002</b>	<b>-22,270</b>	<b>-1,875</b>
B1548	CS39 - HEA140	8,333	NC2	1,882	-0,183	<b>-8,793</b>	-0,002	-7,833	0,876
B1548	CS39 - HEA140	0,000	NC16	-20,594	-0,193	-7,305	<b>0,002</b>	<b>12,605</b>	0,403
B1548	CS39 - HEA140	0,000	NC18	-14,437	-0,539	-7,046	0,002	11,699	<b>1,934</b>
B1549	CS39 - HEA140	0,000	NC11	<b>-5,192</b>	0,087	-1,655	0,001	3,528	-0,260
B1549	CS39 - HEA140	0,000	NC6	<b>1,028</b>	-0,255	-0,208	0,000	-0,650	0,284
B1549	CS39 - HEA140	0,000	NC2	0,269	<b>-1,305</b>	<b>12,248</b>	<b>-0,003</b>	<b>-22,871</b>	<b>1,934</b>
B1549	CS39 - HEA140	8,333	NC2	0,269	<b>0,611</b>	<b>-8,678</b>	-0,003	-7,485	0,426
B1549	CS39 - HEA140	3,047	NC16	0,437	0,302	-2,808	<b>0,002</b>	-2,135	-0,158
B1549	CS39 - HEA140	0,000	NC16	0,437	-0,004	-7,358	0,002	<b>12,890</b>	-0,339
B1549	CS39 - HEA140	3,047	NC2	0,269	-0,060	4,516	-0,003	4,078	<b>-0,676</b>
B1550	CS48 - IPE180	0,000	NC3	<b>-5,175</b>	-0,233	0,083	0,000	-0,243	0,101
B1550	CS48 - IPE180	0,000	NC8	<b>6,388</b>	-0,236	-9,436	0,001	14,866	0,039
B1550	CS48 - IPE180	0,000	NC2	3,644	<b>-1,033</b>	<b>18,710</b>	<b>-0,003</b>	<b>-33,017</b>	<b>0,907</b>
B1550	CS48 - IPE180	8,333	NC2	3,644	<b>0,788</b>	-13,431	-0,003	-11,021	0,360
B1550	CS48 - IPE180	0,000	NC18	0,487	-0,031	<b>-13,565</b>	0,002	<b>22,331</b>	0,072
B1550	CS48 - IPE180	0,000	NC16	5,643	-0,022	-13,513	<b>0,002</b>	22,100	-0,144
B1550	CS48 - IPE180	6,505	NC2	3,644	-0,119	-6,539	-0,003	7,230	<b>-0,251</b>
B1551	CS48 - IPE180	0,000	NC2	<b>-15,798</b>	<b>-0,987</b>	<b>16,571</b>	<b>-0,004</b>	<b>-27,661</b>	<b>0,912</b>
B1551	CS48 - IPE180	0,000	NC5	<b>62,341</b>	-0,290	0,529	-0,001	-1,629	0,261
B1551	CS48 - IPE180	8,333	NC2	-15,798	<b>0,731</b>	<b>-13,141</b>	-0,004	-13,373	0,331
B1551	CS48 - IPE180	3,047	NC18	3,163	-0,157	-3,910	<b>0,002</b>	-5,076	0,176
B1551	CS48 - IPE180	0,000	NC18	3,164	-0,038	-11,935	0,002	<b>18,646</b>	0,089
B1551	CS48 - IPE180	6,505	NC2	-15,798	-0,107	-6,782	-0,004	4,836	<b>-0,239</b>
B1552	CS48 - IPE180	3,047	NC14	<b>-3,222</b>	-0,054	-0,978	0,000	-1,589	0,042
B1552	CS48 - IPE180	3,047	NC11	<b>3,504</b>	-0,053	-1,574	0,001	-2,560	0,028
B1552	CS48 - IPE180	0,000	NC2	-0,032	<b>-1,304</b>	<b>21,748</b>	<b>-0,004</b>	<b>-31,851</b>	<b>1,073</b>
B1552	CS48 - IPE180	8,333	NC2	-0,032	<b>1,075</b>	<b>-20,555</b>	-0,004	-26,882	0,552
B1552	CS48 - IPE180	3,047	NC18	1,903	-0,091	-3,646	<b>0,002</b>	-6,197	0,104
B1552	CS48 - IPE180	0,000	NC18	1,902	-0,126	-12,457	0,002	<b>17,918</b>	0,274
B1552	CS48 - IPE180	0,000	NC16	-0,963	0,118	-12,420	0,002	17,748	<b>-0,470</b>
B1553	CS47 - IPE160	0,000	NC11	<b>-20,577</b>	-0,028	-4,892	0,001	6,724	-0,021
B1553	CS47 - IPE160	0,000	NC14	<b>17,207</b>	-0,006	-1,615	0,000	2,184	-0,071
B1553	CS47 - IPE160	0,000	NC2	1,370	<b>-0,843</b>	<b>13,630</b>	<b>-0,003</b>	<b>-19,114</b>	<b>0,693</b>
B1553	CS47 - IPE160	8,333	NC2	1,370	<b>0,688</b>	<b>-13,522</b>	-0,003	-18,658	0,343
B1553	CS47 - IPE160	0,000	NC18	-8,422	-0,110	-6,872	<b>0,002</b>	<b>9,581</b>	0,243
B1553	CS47 - IPE160	8,333	NC17	-9,248	-0,072	2,486	0,000	3,291	<b>-0,315</b>
B1556	CS48 - IPE180	5,287	NC7	<b>-12,962</b>	0,133	1,747	-0,002	-4,107	-0,087
B1556	CS48 - IPE180	0,000	NC4	<b>54,399</b>	0,263	0,127	0,000	-0,068	-0,189
B1556	CS48 - IPE180	8,333	NC2	-5,607	<b>-0,694</b>	<b>-13,823</b>	0,005	-17,260	-0,323
B1556	CS48 - IPE180	0,000	NC2	-5,607	<b>0,902</b>	<b>15,889</b>	<b>0,005</b>	<b>-25,865</b>	<b>-0,686</b>
B1556	CS48 - IPE180	5,287	NC16	-6,722	-0,032	2,428	<b>-0,003</b>	-5,966	-0,006
B1556	CS48 - IPE180	0,000	NC18	-5,756	0,033	-11,535	-0,003	<b>17,417</b>	-0,032
B1556	CS48 - IPE180	0,000	NC16	-6,722	-0,102	-11,426	-0,003	16,994	<b>0,384</b>
B1558	CS47 - IPE160	0,000	NC18	<b>-8,042</b>	-0,040	-8,422	-0,002	15,542	-0,082
B1558	CS47 - IPE160	0,000	NC4	<b>0,879</b>	-0,193	-0,238	0,000	-0,185	0,188
B1558	CS47 - IPE160	0,000	NC2	-0,188	<b>-0,676</b>	<b>11,765</b>	<b>0,003</b>	<b>-22,964</b>	<b>0,839</b>
B1558	CS47 - IPE160	8,333	NC2	-0,188	<b>0,368</b>	-6,341	0,003	-0,371	-0,092
B1558	CS47 - IPE160	0,000	NC16	-1,481	0,103	<b>-8,485</b>	-0,002	<b>15,742</b>	-0,330
B1558	CS47 - IPE160	5,287	NC16	-1,481	0,065	0,074	<b>-0,002</b>	-6,074	-0,043
B1558	CS47 - IPE160	7,114	NC2	-0,188	0,027	-3,746	0,003	5,775	<b>-0,333</b>
B1559	CS39 - HEA140	0,000	NC12	<b>-10,836</b>	0,067	-4,961	0,000	6,871	-0,254
B1559	CS39 - HEA140	0,000	NC5	<b>35,397</b>	-0,218	-9,801	0,000	11,823	0,214



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1559	CS39 - HEA140	0,000	NC2	6,893	<b>-1,329</b>	<b>11,897</b>	<b>0,004</b>	<b>-21,289</b>	<b>2,629</b>
B1559	CS39 - HEA140	3,046	NC18	-2,676	<b>0,541</b>	-2,199	-0,003	-2,362	-0,022
B1559	CS39 - HEA140	0,000	NC13	34,488	0,103	<b>-12,451</b>	-0,001	<b>16,578</b>	-0,422
B1559	CS39 - HEA140	0,000	NC16	9,133	0,153	-7,205	<b>-0,003</b>	12,364	-0,491
B1559	CS39 - HEA140	0,000	NC18	-2,676	0,415	-7,051	-0,003	11,728	<b>-1,477</b>
B1560	CS48 - IPE180	0,000	NC3	<b>-9,843</b>	-0,236	-6,070	0,000	4,746	0,122
B1560	CS48 - IPE180	0,000	NC16	<b>7,977</b>	-0,119	-13,719	-0,001	22,584	0,122
B1560	CS48 - IPE180	0,000	NC2	4,283	<b>-1,135</b>	<b>18,948</b>	<b>0,001</b>	<b>-33,234</b>	<b>1,306</b>
B1560	CS48 - IPE180	8,333	NC2	4,283	<b>0,651</b>	-13,193	0,001	-9,255	-0,106
B1560	CS48 - IPE180	0,000	NC13	3,135	0,104	<b>-18,244</b>	-0,001	21,294	-0,396
B1560	CS48 - IPE180	3,047	NC16	7,974	0,012	-4,907	<b>-0,001</b>	-5,373	-0,026
B1560	CS48 - IPE180	0,000	NC18	-4,741	0,227	-13,717	-0,001	<b>22,681</b>	<b>-0,755</b>
B1561	CS48 - IPE180	5,287	NC16	<b>-23,862</b>	0,061	1,143	-0,001	-8,686	-0,041
B1561	CS48 - IPE180	0,000	NC11	<b>26,779</b>	-0,003	-9,350	0,000	10,573	-0,127
B1561	CS48 - IPE180	0,000	NC2	10,930	<b>-1,210</b>	<b>20,406</b>	<b>0,001</b>	<b>-33,272</b>	<b>1,352</b>
B1561	CS48 - IPE180	8,333	NC2	10,930	<b>0,735</b>	<b>-14,635</b>	0,001	-9,229	-0,052
B1561	CS48 - IPE180	0,000	NC16	-23,862	0,099	-12,711	<b>-0,001</b>	21,064	-0,361
B1561	CS48 - IPE180	0,000	NC18	11,352	0,106	-12,714	-0,001	<b>21,183</b>	-0,483
B1561	CS48 - IPE180	7,114	NC2	10,930	0,075	-9,617	0,001	5,548	<b>-0,546</b>
B1562	CS48 - IPE180	0,000	NC18	<b>-5,122</b>	-0,023	-13,402	-0,002	23,581	-0,269
B1562	CS48 - IPE180	0,000	NC12	<b>1,429</b>	-0,122	-9,886	-0,001	11,890	0,064
B1562	CS48 - IPE180	0,000	NC2	-0,021	<b>-1,193</b>	<b>20,592</b>	<b>0,003</b>	<b>-36,036</b>	<b>1,356</b>
B1562	CS48 - IPE180	8,333	NC2	-0,021	<b>0,721</b>	-13,631	0,003	-7,034	-0,055
B1562	CS48 - IPE180	0,000	NC14	-3,176	0,059	<b>-15,137</b>	-0,001	18,464	-0,366
B1562	CS48 - IPE180	0,000	NC16	1,061	0,111	-13,458	<b>-0,002</b>	<b>23,711</b>	-0,466
B1562	CS48 - IPE180	7,114	NC2	-0,021	0,076	-8,732	0,003	6,592	<b>-0,541</b>
B1573	CS48 - IPE180	0,000	NC3	<b>-8,654</b>	-0,196	0,091	-0,001	-0,033	-0,004
B1573	CS48 - IPE180	0,000	NC16	<b>8,395</b>	-0,232	-11,174	-0,001	14,374	0,466
B1573	CS48 - IPE180	0,000	NC2	0,966	<b>-0,913</b>	<b>14,176</b>	<b>0,002</b>	-17,778	<b>0,648</b>
B1573	CS48 - IPE180	8,333	NC2	0,966	<b>0,706</b>	<b>-17,965</b>	0,002	<b>-33,567</b>	0,227
B1573	CS48 - IPE180	0,000	NC14	4,541	-0,059	-6,377	<b>-0,002</b>	8,739	0,026
B1573	CS48 - IPE180	8,333	NC18	-2,313	0,289	13,251	-0,001	<b>23,026</b>	0,555
B1573	CS48 - IPE180	0,000	NC18	-2,313	0,117	-11,051	-0,001	13,857	<b>-0,427</b>
B1574	CS48 - IPE180	5,287	NC16	<b>-26,718</b>	0,017	3,701	0,000	-2,849	-0,117
B1574	CS48 - IPE180	0,000	NC11	<b>28,261</b>	-0,047	-2,837	0,000	4,255	-0,028
B1574	CS48 - IPE180	0,000	NC2	12,136	<b>-0,876</b>	<b>12,937</b>	<b>0,001</b>	-17,217	<b>0,673</b>
B1574	CS48 - IPE180	8,333	NC2	12,136	<b>0,636</b>	<b>-16,776</b>	0,001	<b>-33,213</b>	0,176
B1574	CS48 - IPE180	0,000	NC18	11,503	0,019	-10,125	<b>0,000</b>	13,265	-0,202
B1574	CS48 - IPE180	8,333	NC18	11,503	0,165	12,025	0,000	<b>21,182</b>	0,281
B1574	CS48 - IPE180	7,114	NC2	12,136	0,078	-12,536	0,001	-15,353	<b>-0,259</b>
B1575	CS48 - IPE180	0,000	NC18	<b>-3,706</b>	-0,074	-11,011	0,001	14,095	0,002
B1575	CS48 - IPE180	3,047	NC16	<b>1,100</b>	-0,217	-2,179	0,001	-5,586	0,211
B1575	CS48 - IPE180	0,000	NC2	-0,153	<b>-0,955</b>	<b>13,917</b>	<b>-0,002</b>	-18,065	<b>0,743</b>
B1575	CS48 - IPE180	8,333	NC2	-0,153	<b>0,684</b>	<b>-18,224</b>	-0,002	<b>-36,011</b>	0,180
B1575	CS48 - IPE180	0,000	NC14	-2,475	-0,057	-5,281	<b>0,002</b>	7,249	0,020
B1575	CS48 - IPE180	8,333	NC16	1,098	0,209	13,310	0,001	<b>23,726</b>	0,263
B1575	CS48 - IPE180	7,114	NC2	-0,153	0,079	-13,629	-0,002	-16,603	<b>-0,285</b>
B1577	CS39 - HEA140	0,000	NC8	<b>-9,635</b>	0,125	-3,585	0,000	3,941	0,178
B1577	CS39 - HEA140	0,000	NC11	<b>1,119</b>	-0,052	-2,472	-0,002	3,191	0,141
B1577	CS39 - HEA140	5,287	NC2	-4,654	<b>-0,679</b>	-4,059	0,002	2,799	-0,364
B1577	CS39 - HEA140	0,000	NC2	-4,654	<b>0,840</b>	<b>8,723</b>	<b>0,002</b>	-9,924	<b>-0,774</b>
B1577	CS39 - HEA140	8,333	NC2	-4,654	-0,476	<b>-12,202</b>	0,002	<b>-24,013</b>	-0,448
B1577	CS39 - HEA140	0,000	NC14	-5,651	0,053	-0,858	<b>-0,003</b>	0,546	-0,020
B1577	CS39 - HEA140	8,333	NC18	-1,168	-0,033	7,314	-0,001	<b>13,528</b>	0,333
B1577	CS39 - HEA140	3,046	NC2	-4,654	-0,056	1,921	0,002	6,289	<b>0,420</b>
B1579	CS48 - IPE180	5,287	NC7	<b>-12,351</b>	0,077	1,978	0,000	-3,968	-0,028
B1579	CS48 - IPE180	0,000	NC4	<b>56,157</b>	0,316	0,320	0,000	-0,503	-0,321
B1579	CS48 - IPE180	8,333	NC2	-4,843	<b>-0,684</b>	<b>-15,931</b>	-0,001	<b>-25,870</b>	-0,324
B1579	CS48 - IPE180	0,000	NC2	-4,843	<b>0,851</b>	<b>13,781</b>	<b>-0,001</b>	-16,912	<b>-0,567</b>
B1579	CS48 - IPE180	5,287	NC18	-6,144	0,069	3,255	<b>0,000</b>	-5,132	0,056
B1579	CS48 - IPE180	8,333	NC18	-6,144	-0,065	11,551	0,000	<b>17,421</b>	0,062
B1579	CS48 - IPE180	0,000	NC16	-6,204	-0,094	-10,675	0,000	13,665	<b>0,361</b>
B1581	CS47 - IPE160	5,287	NC15	<b>-36,454</b>	0,090	1,545	0,000	-3,536	-0,080
B1581	CS47 - IPE160	0,000	NC12	<b>8,227</b>	0,043	-1,562	0,000	2,011	-0,026
B1581	CS47 - IPE160	8,333	NC2	-1,318	<b>-0,497</b>	<b>-8,939</b>	-0,001	-12,076	<b>-0,380</b>
B1581	CS47 - IPE160	0,000	NC2	-1,318	<b>0,458</b>	<b>9,166</b>	<b>-0,001</b>	<b>-13,020</b>	-0,203
B1581	CS47 - IPE160	0,000	NC13	-18,873	0,025	-4,907	<b>0,001</b>	6,891	0,028
B1581	CS47 - IPE160	0,000	NC16	-36,404	0,119	-6,921	0,000	<b>9,830</b>	-0,166
B1581	CS47 - IPE160	1,828	NC2	-1,318	-0,054	5,274	-0,001	0,178	<b>0,167</b>
B262	CS48 - IPE180	0,000	NC18	<b>-16,152</b>	0,011	-10,611	<b>-0,001</b>	11,481	-0,043
B262	CS48 - IPE180	0,000	NC5	<b>32,447</b>	-0,261	0,123	0,000	0,544	0,129
B262	CS48 - IPE180	0,000	NC2	11,109	<b>-1,007</b>	<b>13,888</b>	<b>0,002</b>	-13,375	<b>0,902</b>
B262	CS48 - IPE180	8,335	NC2	11,109	<b>0,998</b>	<b>-15,832</b>	0,002	<b>-21,477</b>	0,893
B262	CS48 - IPE180	8,335	NC16	16,834	0,016	11,535	-0,001	<b>15,432</b>	0,106
B262	CS48 - IPE180	0,000	NC16	16,834	0,074	-10,620	-0,001	11,619	<b>-0,419</b>
B263	CS48 - IPE180	0,000	NC3	<b>-4,575</b>	-0,264	0,086	0,000	-0,356	0,208



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B263	CS48 - IPE180	0,000	NC7	<b>6,851</b>	-0,177	-8,194	-0,001	8,399	-0,176
B263	CS48 - IPE180	0,000	NC2	5,592	<b>-1,042</b>	<b>14,515</b>	<b>0,001</b>	-10,808	0,885
B263	CS48 - IPE180	8,335	NC2	5,592	<b>1,113</b>	<b>-17,633</b>	0,001	<b>-23,803</b>	<b>1,048</b>
B263	CS48 - IPE180	3,047	NC16	5,373	0,091	-2,515	<b>-0,001</b>	-10,033	-0,020
B263	CS48 - IPE180	8,335	NC16	5,374	-0,019	12,981	-0,001	<b>17,530</b>	0,026
B263	CS48 - IPE180	0,000	NC16	5,374	0,039	-11,327	-0,001	10,637	<b>-0,355</b>
B264	CS39 - HEA140	5,287	NC18	<b>-12,490</b>	-0,393	1,927	-0,001	-5,791	0,192
B264	CS39 - HEA140	0,000	NC2	<b>14,065</b>	<b>-1,318</b>	<b>9,312</b>	<b>0,002</b>	-4,689	1,785
B264	CS39 - HEA140	8,335	NC2	14,065	<b>1,454</b>	<b>-11,288</b>	0,002	<b>-12,991</b>	<b>2,092</b>
B264	CS39 - HEA140	3,047	NC18	-12,488	-0,334	-1,269	<b>-0,001</b>	-6,944	0,837
B264	CS39 - HEA140	3,494	NC2	14,063	-0,245	0,486	0,002	<b>13,759</b>	-1,006
B264	CS39 - HEA140	4,391	NC2	14,063	0,018	-1,515	0,002	13,298	<b>-1,108</b>
B265	CS48 - IPE180	3,047	NC16	<b>-3,053</b>	-0,040	-3,194	-0,001	-7,237	0,114
B265	CS48 - IPE180	3,047	NC11	<b>4,639</b>	-0,062	-1,400	0,000	-2,973	0,074
B265	CS48 - IPE180	0,000	NC2	-0,471	<b>-1,315</b>	<b>20,782</b>	<b>0,002</b>	-26,882	1,041
B265	CS48 - IPE180	8,335	NC2	-0,471	<b>1,348</b>	<b>-21,531</b>	0,002	<b>-30,005</b>	<b>1,124</b>
B265	CS48 - IPE180	0,000	NC18	2,302	-0,077	-11,985	<b>-0,001</b>	15,362	0,150
B265	CS48 - IPE180	8,335	NC18	2,302	-0,142	12,322	-0,001	<b>16,765</b>	-0,488
B265	CS48 - IPE180	0,000	NC16	-3,051	0,184	-12,006	-0,001	15,503	<b>-0,661</b>
B266	CS47 - IPE160	0,000	NC11	<b>-19,264</b>	-0,002	-4,869	0,000	6,671	-0,040
B266	CS47 - IPE160	0,000	NC14	<b>15,670</b>	-0,022	-1,594	0,000	2,094	-0,069
B266	CS47 - IPE160	0,000	NC2	1,052	<b>-0,863</b>	<b>13,504</b>	<b>0,002</b>	-18,644	0,703
B266	CS47 - IPE160	8,335	NC2	1,052	<b>0,865</b>	<b>-13,654</b>	0,002	<b>-19,274</b>	<b>0,712</b>
B266	CS47 - IPE160	3,047	NC18	-6,977	-0,064	-1,806	<b>-0,001</b>	-3,726	0,119
B266	CS47 - IPE160	8,335	NC18	-6,978	-0,024	6,891	-0,001	<b>9,666</b>	-0,164
B266	CS47 - IPE160	0,000	NC16	5,822	0,155	-6,798	-0,001	9,277	<b>-0,526</b>
B278	CS48 - IPE180	5,287	NC16	<b>-9,566</b>	0,370	3,676	-0,001	-8,306	-0,114
B278	CS48 - IPE180	0,000	NC3	<b>26,651</b>	0,212	-2,843	0,000	3,731	-0,037
B278	CS48 - IPE180	8,335	NC2	12,628	<b>-0,945</b>	<b>-16,447</b>	0,001	<b>-20,989</b>	<b>-0,845</b>
B278	CS48 - IPE180	0,000	NC2	12,628	<b>0,905</b>	<b>13,272</b>	<b>0,001</b>	-7,759	-0,649
B278	CS48 - IPE180	0,000	NC14	24,162	0,096	-3,279	<b>-0,001</b>	2,542	-0,161
B278	CS48 - IPE180	3,494	NC2	12,622	0,275	0,754	0,001	<b>17,218</b>	0,151
B278	CS48 - IPE180	8,335	NC16	-9,566	0,236	11,978	-0,001	15,554	<b>0,808</b>
B279	CS48 - IPE180	0,000	NC18	<b>-16,050</b>	-0,283	-11,170	0,000	9,353	0,765
B279	CS48 - IPE180	0,000	NC2	<b>5,799</b>	<b>0,924</b>	<b>14,359</b>	<b>0,000</b>	-9,256	-0,595
B279	CS48 - IPE180	8,335	NC2	5,799	<b>-1,081</b>	<b>-17,790</b>	0,000	<b>-23,553</b>	<b>-1,048</b>
B279	CS48 - IPE180	3,047	NC18	-16,042	0,188	-2,358	<b>0,000</b>	-10,840	-0,311
B279	CS48 - IPE180	3,719	NC2	5,794	0,234	-0,022	0,000	<b>17,828</b>	0,185
B279	CS48 - IPE180	8,335	NC16	0,667	0,470	13,008	0,000	17,141	<b>1,344</b>
B280	CS39 - HEA140	5,287	NC18	<b>-25,157</b>	0,344	1,924	<b>-0,001</b>	-6,066	-0,588
B280	CS39 - HEA140	0,000	NC2	<b>15,983</b>	<b>0,765</b>	<b>9,462</b>	<b>0,001</b>	-4,944	-0,429
B280	CS39 - HEA140	8,335	NC2	15,983	<b>-1,239</b>	<b>-11,138</b>	0,001	<b>-11,997</b>	<b>-1,857</b>
B280	CS39 - HEA140	3,942	NC2	15,980	0,073	-0,365	0,001	<b>14,088</b>	0,721
B280	CS39 - HEA140	8,335	NC16	-24,096	0,639	6,399	-0,001	5,858	<b>2,103</b>
B281	CS48 - IPE180	0,000	NC11	<b>-3,665</b>	0,005	-6,186	0,000	5,792	0,134
B281	CS48 - IPE180	0,000	NC16	<b>11,476</b>	0,071	-10,912	<b>-0,002</b>	7,383	-0,271
B281	CS48 - IPE180	8,335	NC2	0,215	<b>-0,987</b>	<b>-18,119</b>	0,002	<b>-23,585</b>	<b>-0,834</b>
B281	CS48 - IPE180	0,000	NC2	0,215	<b>0,999</b>	<b>14,030</b>	<b>0,002</b>	-6,545	-0,750
B281	CS48 - IPE180	3,719	NC2	0,214	0,168	-0,352	0,002	<b>19,315</b>	0,216
B281	CS48 - IPE180	8,335	NC16	11,476	0,174	13,395	-0,002	17,731	<b>0,678</b>
B282	CS47 - IPE160	0,000	NC18	<b>-6,562</b>	-0,031	-5,915	-0,001	2,256	0,152
B282	CS47 - IPE160	0,000	NC7	<b>2,195</b>	0,076	-3,869	-0,001	1,572	-0,057
B282	CS47 - IPE160	8,335	NC2	-0,342	<b>-0,586</b>	<b>-10,661</b>	0,002	<b>-13,706</b>	<b>-0,534</b>
B282	CS47 - IPE160	0,000	NC2	-0,342	<b>0,585</b>	7,449	<b>0,002</b>	-0,322	-0,455
B282	CS47 - IPE160	8,335	NC16	1,103	0,006	<b>7,832</b>	-0,001	10,368	<b>0,207</b>
B282	CS47 - IPE160	5,287	NC16	1,103	0,100	2,740	<b>-0,001</b>	-5,746	0,045
B282	CS47 - IPE160	3,494	NC2	-0,342	0,154	-0,173	0,002	<b>12,627</b>	0,123
B293	CS48 - IPE180	0,000	NC18	<b>-23,029</b>	0,009	-10,981	0,002	13,581	-0,010
B293	CS48 - IPE180	0,000	NC12	<b>32,032</b>	0,067	-2,752	0,000	2,457	-0,004
B293	CS48 - IPE180	8,335	NC2	7,162	<b>-0,925</b>	<b>-14,963</b>	-0,004	<b>-18,122</b>	-0,754
B293	CS48 - IPE180	0,000	NC2	7,162	<b>0,974</b>	<b>14,756</b>	<b>-0,004</b>	-17,261	<b>-0,836</b>
B293	CS48 - IPE180	5,287	NC16	16,195	0,114	2,804	<b>0,002</b>	-6,901	-0,118
B293	CS48 - IPE180	8,335	NC18	-23,029	0,060	11,175	0,002	<b>14,390</b>	0,303
B293	CS48 - IPE180	0,000	NC16	16,195	-0,098	-11,050	0,002	14,068	<b>0,325</b>
B295	CS39 - HEA140	5,287	NC18	<b>-13,900</b>	0,521	1,876	0,002	-5,625	-0,265
B295	CS39 - HEA140	0,000	NC2	<b>11,323</b>	<b>1,203</b>	<b>9,393</b>	<b>-0,004</b>	-5,437	-1,579
B295	CS39 - HEA140	8,335	NC2	11,323	<b>-1,272</b>	<b>-11,105</b>	-0,004	<b>-12,620</b>	<b>-1,786</b>
B295	CS39 - HEA140	0,000	NC14	-6,374	-0,008	-0,879	<b>0,003</b>	-1,186	-0,114
B295	CS39 - HEA140	3,942	NC2	11,321	0,068	-0,374	-0,004	<b>13,377</b>	0,901
B295	CS39 - HEA140	8,335	NC18	-13,900	0,395	6,731	0,002	7,495	<b>1,131</b>
B297	CS47 - IPE160	5,287	NC15	<b>-36,918</b>	0,044	1,545	-0,001	-3,477	-0,059
B297	CS47 - IPE160	0,000	NC3	<b>12,912</b>	0,146	0,700	0,000	-1,639	-0,045
B297	CS47 - IPE160	8,335	NC2	5,379	<b>-0,735</b>	<b>-8,287</b>	0,000	-8,562	<b>-0,839</b>
B297	CS47 - IPE160	0,000	NC2	5,379	<b>0,507</b>	<b>9,823</b>	<b>0,000</b>	<b>-14,960</b>	-0,310
B297	CS47 - IPE160	3,047	NC15	-36,910	0,052	-1,879	<b>-0,001</b>	-3,255	-0,099
B297	CS47 - IPE160	0,000	NC16	-36,884	-0,023	-6,923	-0,001	<b>9,904</b>	0,114



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B297	CS47 - IPE160	4,391	NC2	5,377	0,010	0,293	0,000	7,400	<b>0,201</b>
B308	CS48 - IPE180	5,287	NC16	<b>-21,643</b>	-0,104	3,759	0,000	-8,486	0,051
B308	CS48 - IPE180	0,000	NC11	<b>26,022</b>	-0,087	-3,723	0,000	6,080	0,124
B308	CS48 - IPE180	0,000	NC2	10,063	<b>-0,961</b>	<b>13,400</b>	<b>-0,001</b>	-9,168	0,769
B308	CS48 - IPE180	8,335	NC2	10,063	<b>0,978</b>	<b>-16,319</b>	-0,001	<b>-21,331</b>	<b>0,896</b>
B308	CS48 - IPE180	0,000	NC16	-21,643	0,100	-10,095	<b>0,000</b>	7,433	-0,267
B308	CS48 - IPE180	3,942	NC2	10,058	-0,069	-0,677	-0,001	<b>16,303</b>	-0,278
B308	CS48 - IPE180	0,000	NC18	11,567	0,071	-10,128	0,000	7,527	<b>-0,288</b>
B309	CS48 - IPE180	0,000	NC3	<b>-10,476</b>	-0,282	-1,178	0,001	5,572	0,225
B309	CS48 - IPE180	0,000	NC2	<b>7,497</b>	<b>-1,000</b>	<b>14,246</b>	<b>-0,001</b>	-8,915	0,762
B309	CS48 - IPE180	8,335	NC2	7,497	<b>1,099</b>	<b>-17,902</b>	-0,001	<b>-24,149</b>	<b>1,065</b>
B309	CS48 - IPE180	0,000	NC14	2,704	0,023	-8,475	<b>0,002</b>	14,808	-0,206
B309	CS48 - IPE180	3,494	NC2	7,491	-0,332	0,710	-0,001	<b>17,687</b>	-0,180
B309	CS48 - IPE180	8,335	NC16	7,091	-0,198	13,084	0,001	17,280	<b>-0,582</b>
B310	CS39 - HEA140	0,000	NC12	<b>-25,411</b>	0,107	-1,539	0,002	1,152	-0,157
B310	CS39 - HEA140	0,000	NC2	<b>24,342</b>	<b>-0,916</b>	<b>9,399</b>	<b>-0,003</b>	-4,912	0,745
B310	CS39 - HEA140	8,335	NC2	24,342	<b>1,355</b>	<b>-11,099</b>	-0,003	<b>-12,045</b>	<b>2,025</b>
B310	CS39 - HEA140	0,000	NC14	1,065	0,281	-5,292	<b>0,003</b>	6,526	-0,862
B310	CS39 - HEA140	3,942	NC2	24,337	-0,093	-0,368	-0,003	<b>13,926</b>	-0,881
B310	CS39 - HEA140	8,335	NC16	3,056	-0,489	6,615	0,002	6,673	<b>-1,203</b>
B311	CS48 - IPE180	0,000	NC18	<b>-6,640</b>	0,001	-10,863	0,001	6,659	-0,133
B311	CS48 - IPE180	0,000	NC11	<b>2,340</b>	-0,174	-4,290	-0,001	6,548	0,309
B311	CS48 - IPE180	0,000	NC2	0,089	<b>-1,042</b>	<b>14,056</b>	<b>-0,001</b>	-7,004	0,840
B311	CS48 - IPE180	8,335	NC2	0,089	<b>1,033</b>	<b>-18,093</b>	-0,001	<b>-23,831</b>	<b>0,914</b>
B311	CS48 - IPE180	0,000	NC16	1,254	0,151	-10,753	<b>0,001</b>	6,325	<b>-0,386</b>
B311	CS48 - IPE180	3,719	NC2	0,089	-0,177	-0,326	-0,001	<b>18,952</b>	-0,261
B312	CS47 - IPE160	0,000	NC18	<b>-7,851</b>	-0,051	-5,899	0,001	2,170	0,026
B312	CS47 - IPE160	0,000	NC4	<b>1,039</b>	-0,230	-0,394	-0,001	0,815	0,271
B312	CS47 - IPE160	0,000	NC2	-0,429	<b>-0,615</b>	7,438	<b>-0,001</b>	-0,300	0,520
B312	CS47 - IPE160	8,335	NC2	-0,429	<b>0,615</b>	<b>-10,671</b>	-0,001	<b>-13,771</b>	<b>0,585</b>
B312	CS47 - IPE160	8,335	NC16	-1,131	0,052	<b>7,857</b>	0,001	10,439	0,027
B312	CS47 - IPE160	5,287	NC16	-1,131	-0,042	2,766	<b>0,001</b>	-5,753	0,012
B312	CS47 - IPE160	3,494	NC2	-0,429	-0,159	-0,183	-0,001	<b>12,612</b>	-0,153
B312	CS47 - IPE160	8,335	NC18	-7,851	-0,112	7,751	0,001	9,886	<b>-0,283</b>
B356	CS48 - IPE180	5,287	NC7	<b>-10,718</b>	-0,111	1,813	0,000	-3,138	0,227
B356	CS48 - IPE180	0,000	NC11	<b>9,477</b>	-0,083	-3,334	0,001	5,515	0,185
B356	CS48 - IPE180	0,000	NC2	8,963	<b>-0,941</b>	<b>15,563</b>	<b>-0,002</b>	<b>-25,420</b>	<b>0,746</b>
B356	CS48 - IPE180	8,331	NC2	8,963	<b>0,746</b>	<b>-14,132</b>	-0,002	-19,422	0,412
B356	CS48 - IPE180	5,287	NC18	-7,482	-0,029	2,799	<b>0,001</b>	-3,636	-0,057
B356	CS48 - IPE180	8,331	NC18	-7,482	0,105	11,286	0,001	<b>17,629</b>	0,059
B356	CS48 - IPE180	0,000	NC16	-9,234	0,070	-11,164	0,001	17,199	<b>-0,494</b>
B357	CS48 - IPE180	0,000	NC17	<b>-3,660</b>	-0,034	-4,727	0,000	7,145	-0,022
B357	CS48 - IPE180	0,000	NC7	<b>8,711</b>	-0,136	-8,623	0,000	12,895	-0,353
B357	CS48 - IPE180	0,000	NC2	5,033	<b>-0,983</b>	<b>16,662</b>	<b>-0,001</b>	<b>-28,085</b>	<b>0,728</b>
B357	CS48 - IPE180	8,331	NC2	5,033	<b>0,838</b>	<b>-15,461</b>	-0,001	-23,044	0,520
B357	CS48 - IPE180	0,000	NC11	-0,979	-0,157	-3,707	<b>0,000</b>	6,394	0,348
B357	CS48 - IPE180	8,331	NC18	-0,350	0,065	12,436	0,000	<b>19,920</b>	-0,042
B357	CS48 - IPE180	0,000	NC16	6,949	0,074	-12,174	0,000	18,907	<b>-0,513</b>
B358	CS39 - HEA140	5,287	NC9	<b>-6,924</b>	-0,017	-0,467	0,000	0,404	-0,178
B358	CS39 - HEA140	5,287	NC15	<b>8,351</b>	-0,296	0,925	0,000	-3,601	1,134
B358	CS39 - HEA140	0,000	NC2	-4,147	<b>-1,215</b>	<b>11,087</b>	<b>-0,001</b>	<b>-18,946</b>	<b>1,627</b>
B358	CS39 - HEA140	5,287	NC7	4,389	<b>1,009</b>	0,971	0,000	-2,007	1,143
B358	CS39 - HEA140	8,331	NC2	-4,147	0,652	<b>-9,845</b>	-0,001	-13,260	0,713
B358	CS39 - HEA140	5,287	NC18	2,220	-0,053	0,869	<b>0,000</b>	-3,790	-0,193
B358	CS39 - HEA140	0,000	NC18	2,221	0,298	-6,937	0,000	<b>11,533</b>	-0,544
B358	CS39 - HEA140	0,000	NC16	8,304	0,015	-6,794	0,000	10,437	<b>-0,922</b>
B359	CS48 - IPE180	0,000	NC9	<b>-3,502</b>	-0,382	-1,250	0,000	1,510	0,459
B359	CS48 - IPE180	0,000	NC11	<b>7,046</b>	-0,154	-5,106	0,001	7,340	0,340
B359	CS48 - IPE180	0,000	NC2	-1,183	<b>-1,253</b>	<b>20,764</b>	<b>-0,003</b>	-30,327	0,879
B359	CS48 - IPE180	8,331	NC2	-1,183	<b>1,114</b>	<b>-21,519</b>	-0,003	<b>-33,431</b>	0,678
B359	CS48 - IPE180	3,155	NC18	1,996	-0,074	-2,855	<b>0,002</b>	-5,621	0,077
B359	CS48 - IPE180	8,331	NC18	1,996	0,010	12,523	0,002	<b>18,856</b>	-0,158
B359	CS48 - IPE180	0,000	NC16	-0,842	0,210	-12,087	0,002	17,375	<b>-0,818</b>
B359	CS48 - IPE180	8,331	NC7	0,098	0,522	8,743	0,001	12,836	<b>0,963</b>
B360	CS47 - IPE160	0,000	NC11	<b>-11,664</b>	-0,007	-4,651	0,001	6,341	0,009
B360	CS47 - IPE160	0,000	NC13	<b>4,664</b>	-0,034	-1,519	0,000	1,980	-0,087
B360	CS47 - IPE160	0,000	NC2	-0,647	<b>-0,825</b>	<b>12,886</b>	<b>-0,002</b>	-17,868	<b>0,604</b>
B360	CS47 - IPE160	8,331	NC2	-0,647	<b>0,711</b>	<b>-14,255</b>	-0,002	<b>-23,547</b>	0,422
B360	CS47 - IPE160	0,000	NC18	1,123	-0,037	-6,351	<b>0,002</b>	8,588	0,037
B360	CS47 - IPE160	8,331	NC18	1,123	0,002	7,314	0,002	<b>12,552</b>	-0,122
B360	CS47 - IPE160	0,000	NC15	-10,039	0,082	-6,193	0,001	8,459	<b>-0,413</b>
B361	CS39 - HEA140	0,000	NC2	<b>-16,076</b>	-0,480	<b>10,374</b>	<b>0,002</b>	-19,214	0,251
B361	CS39 - HEA140	5,287	NC16	<b>14,514</b>	-0,406	1,601	-0,001	-0,508	0,765
B361	CS39 - HEA140	5,287	NC8	9,670	<b>-0,555</b>	0,724	-0,001	-0,160	<b>0,923</b>
B361	CS39 - HEA140	5,287	NC8	9,667	<b>0,900</b>	1,411	-0,001	-0,160	0,923
B361	CS39 - HEA140	8,333	NC2	-16,076	0,685	<b>-10,828</b>	0,002	<b>-21,287</b>	0,720



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B361	CS39 - HEA140	0,000	NC16	14,514	-0,308	-6,308	<b>-0,001</b>	10,902	0,064
B361	CS39 - HEA140	8,333	NC16	14,514	-0,280	6,453	-0,001	<b>11,760</b>	-0,280
B361	CS39 - HEA140	3,047	NC7	9,625	0,661	-0,968	-0,001	-0,397	<b>-0,835</b>
B362	CS48 - IPE180	3,047	NC3	<b>-3,444</b>	-0,194	-0,027	0,000	0,354	0,118
B362	CS48 - IPE180	0,000	NC7	<b>8,441</b>	-0,264	-8,575	0,000	12,346	0,013
B362	CS48 - IPE180	0,000	NC2	3,436	<b>-0,706</b>	<b>15,573</b>	<b>0,002</b>	-24,089	0,206
B362	CS48 - IPE180	8,333	NC2	3,436	<b>0,859</b>	<b>-16,568</b>	0,002	<b>-28,234</b>	<b>0,555</b>
B362	CS48 - IPE180	3,047	NC16	7,219	0,034	-3,159	<b>-0,001</b>	-5,009	-0,106
B362	CS48 - IPE180	8,333	NC18	1,147	0,050	12,347	-0,001	<b>19,244</b>	-0,101
B362	CS48 - IPE180	1,219	NC2	3,436	-0,101	10,979	0,002	-7,911	<b>-0,286</b>
B363	CS48 - IPE180	0,000	NC18	<b>-16,337</b>	-0,153	-10,836	-0,001	15,373	0,284
B363	CS48 - IPE180	0,000	NC5	<b>33,805</b>	-0,203	0,168	0,000	-0,663	-0,009
B363	CS48 - IPE180	0,000	NC2	9,122	<b>-0,710</b>	<b>14,383</b>	<b>0,002</b>	-21,474	0,320
B363	CS48 - IPE180	8,333	NC2	9,122	<b>0,767</b>	<b>-15,329</b>	0,002	<b>-25,414</b>	<b>0,459</b>
B363	CS48 - IPE180	5,287	NC18	-16,337	-0,070	3,018	<b>-0,001</b>	-4,465	-0,054
B363	CS48 - IPE180	8,333	NC18	-16,337	0,064	11,314	-0,001	<b>17,367</b>	-0,063
B363	CS48 - IPE180	1,828	NC8	10,521	0,031	-4,116	-0,001	-0,090	<b>-0,224</b>
B364	CS48 - IPE180	0,000	NC9	<b>-3,281</b>	-0,425	-1,440	0,000	1,712	0,601
B364	CS48 - IPE180	0,000	NC11	<b>5,567</b>	-0,191	-5,127	-0,001	7,035	0,365
B364	CS48 - IPE180	0,000	NC2	-0,737	<b>-1,019</b>	<b>21,112</b>	<b>0,002</b>	-30,006	0,460
B364	CS48 - IPE180	8,333	NC2	-0,737	<b>1,121</b>	<b>-21,190</b>	0,002	<b>-30,330</b>	0,702
B364	CS48 - IPE180	5,287	NC18	1,552	-0,179	3,142	<b>-0,002</b>	-6,030	0,036
B364	CS48 - IPE180	8,333	NC18	1,552	-0,038	12,224	-0,002	<b>17,376</b>	-0,293
B364	CS48 - IPE180	0,000	NC16	-1,413	0,076	-12,074	-0,001	16,734	<b>-0,443</b>
B364	CS48 - IPE180	8,333	NC7	-0,539	0,446	8,700	-0,001	12,125	<b>0,722</b>
B365	CS47 - IPE160	0,000	NC11	<b>-15,278</b>	-0,039	-4,943	-0,001	6,838	0,045
B365	CS47 - IPE160	0,000	NC13	<b>9,113</b>	-0,085	-1,629	0,000	2,195	0,054
B365	CS47 - IPE160	0,000	NC2	-0,074	<b>-0,672</b>	<b>13,740</b>	<b>0,002</b>	<b>-19,307</b>	0,329
B365	CS47 - IPE160	8,333	NC2	-0,074	<b>0,711</b>	<b>-13,412</b>	0,002	-17,944	<b>0,427</b>
B365	CS47 - IPE160	0,000	NC18	-0,494	-0,107	-6,936	<b>-0,001</b>	9,631	0,191
B365	CS47 - IPE160	4,391	NC2	-0,074	0,085	-0,557	0,002	<b>9,786</b>	-0,020
B365	CS47 - IPE160	8,333	NC17	-0,902	-0,048	2,460	0,000	3,060	<b>-0,243</b>
B366	CS39 - HEA140	5,287	NC17	<b>-4,509</b>	-0,185	-1,301	-0,004	-0,206	0,371
B366	CS39 - HEA140	0,000	NC3	<b>2,223</b>	-0,346	0,914	-0,003	-1,745	0,250
B366	CS39 - HEA140	3,047	NC7	-3,416	<b>-0,778</b>	-2,071	-0,003	-0,525	0,692
B366	CS39 - HEA140	8,333	NC2	-2,713	<b>0,689</b>	<b>-10,428</b>	0,001	0,000	0,000
B366	CS39 - HEA140	0,000	NC2	-2,713	-0,251	<b>11,680</b>	<b>0,001</b>	<b>-13,024</b>	-0,172
B366	CS39 - HEA140	5,287	NC18	-2,595	-0,347	-2,096	<b>-0,013</b>	-5,018	0,866
B366	CS39 - HEA140	4,838	NC2	-2,714	-0,030	0,404	0,001	<b>16,873</b>	-0,148
B366	CS39 - HEA140	5,287	NC7	-3,416	-0,541	0,215	-0,003	-2,604	<b>-0,784</b>
B366	CS39 - HEA140	5,287	NC18	-2,587	0,668	1,350	-0,013	-5,018	<b>0,866</b>
B367	CS48 - IPE180	0,000	NC17	<b>-4,922</b>	-0,175	-6,746	-0,001	8,828	0,195
B367	CS48 - IPE180	3,047	NC7	<b>15,363</b>	-0,343	-4,027	0,000	-7,163	0,284
B367	CS48 - IPE180	5,287	NC2	-0,246	<b>-1,170</b>	-1,776	-0,003	29,176	<b>0,436</b>
B367	CS48 - IPE180	8,333	NC2	-0,246	<b>0,976</b>	<b>-18,082</b>	-0,003	0,000	0,000
B367	CS48 - IPE180	0,000	NC2	6,679	-0,740	<b>20,205</b>	<b>-0,003</b>	<b>-23,060</b>	0,290
B367	CS48 - IPE180	5,287	NC14	2,006	-0,056	-0,062	<b>0,000</b>	-4,688	-0,043
B367	CS48 - IPE180	5,063	NC2	9,336	0,544	-0,154	-0,003	<b>29,325</b>	0,299
B367	CS48 - IPE180	7,114	NC2	-0,246	0,051	-11,053	-0,003	17,683	<b>-0,617</b>
B368	CS48 - IPE180	0,000	NC18	<b>-47,817</b>	-0,156	-14,080	0,001	17,656	0,155
B368	CS48 - IPE180	3,047	NC1	<b>-8,173</b>	-0,176	2,011	-0,001	6,542	0,100
B368	CS48 - IPE180	5,287	NC2	-22,756	<b>-1,073</b>	-1,684	-0,002	26,970	<b>0,392</b>
B368	CS48 - IPE180	8,333	NC2	-22,756	<b>0,899</b>	<b>-16,661</b>	-0,002	0,000	0,000
B368	CS48 - IPE180	0,000	NC2	-22,756	-0,724	<b>18,219</b>	<b>-0,002</b>	<b>-19,411</b>	0,364
B368	CS48 - IPE180	5,287	NC18	-47,817	-0,136	0,606	<b>0,001</b>	-17,129	0,212
B368	CS48 - IPE180	4,838	NC2	-22,751	0,388	0,557	-0,002	<b>27,137</b>	0,164
B368	CS48 - IPE180	7,114	NC2	-22,756	0,050	-10,210	-0,002	16,310	<b>-0,570</b>
B369	CS48 - IPE180	5,287	NC18	<b>-19,861</b>	-0,137	0,577	<b>-0,004</b>	-18,471	0,203
B369	CS48 - IPE180	5,287	NC7	<b>23,427</b>	-0,203	0,294	-0,003	-10,945	-0,094
B369	CS48 - IPE180	5,287	NC2	0,878	<b>-1,284</b>	-2,040	0,009	32,279	0,481
B369	CS48 - IPE180	8,333	NC2	0,878	<b>1,011</b>	<b>-19,478</b>	0,009	0,000	0,000
B369	CS48 - IPE180	0,000	NC2	-1,982	-1,027	<b>25,922</b>	<b>0,009</b>	<b>-33,451</b>	0,485
B369	CS48 - IPE180	5,063	NC2	0,876	0,650	-0,245	0,009	<b>32,465</b>	0,318
B369	CS48 - IPE180	7,114	NC2	0,878	0,062	-12,268	0,009	19,311	<b>-0,650</b>
B369	CS48 - IPE180	0,000	NC9	-2,641	-0,480	-2,511	0,000	3,109	<b>0,597</b>
B370	CS47 - IPE160	3,047	NC7	<b>-14,024</b>	-0,215	-2,184	-0,003	-3,609	0,186
B370	CS47 - IPE160	0,000	NC1	<b>-0,099</b>	-0,150	3,980	0,003	-5,737	0,069
B370	CS47 - IPE160	5,287	NC2	-0,371	<b>-0,760</b>	-0,964	0,009	18,432	0,276
B370	CS47 - IPE160	3,046	NC2	-0,371	<b>0,629</b>	6,782	0,009	11,909	0,262
B370	CS47 - IPE160	8,333	NC2	-0,371	0,583	<b>-11,166</b>	0,009	0,000	0,000
B370	CS47 - IPE160	0,000	NC2	-0,371	-0,672	<b>16,667</b>	<b>0,009</b>	<b>-23,856</b>	0,334
B370	CS47 - IPE160	0,000	NC18	-2,397	-0,171	-8,879	<b>-0,006</b>	12,704	0,260
B370	CS47 - IPE160	4,838	NC2	-0,371	0,298	0,700	0,009	<b>18,456</b>	0,098
B370	CS47 - IPE160	7,114	NC2	-0,371	0,043	-7,064	0,009	11,104	<b>-0,381</b>
B370	CS47 - IPE160	0,000	NC9	-2,117	-0,346	-1,253	0,000	1,624	<b>0,490</b>
B371	CS47 - IPE160	0,000	NC18	<b>-6,264</b>	0,080	-6,365	<b>-0,001</b>	10,041	-0,042



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B371	CS47 - IPE160	0,000	NC7	<b>2,174</b>	0,147	-4,391	0,000	7,004	-0,171
B371	CS47 - IPE160	3,046	NC2	0,029	<b>-0,481</b>	1,883	0,001	1,565	-0,234
B371	CS47 - IPE160	5,287	NC2	0,029	<b>0,455</b>	-3,249	0,001	0,036	-0,238
B371	CS47 - IPE160	8,333	NC2	0,029	-0,399	<b>-9,736</b>	0,001	<b>-19,743</b>	-0,153
B371	CS47 - IPE160	0,000	NC2	0,029	0,373	<b>8,370</b>	<b>0,001</b>	-14,052	-0,070
B371	CS47 - IPE160	8,333	NC18	-6,264	-0,065	7,282	-0,001	<b>13,860</b>	-0,101
B371	CS47 - IPE160	0,000	NC6	1,386	0,200	-0,351	0,000	0,556	<b>-0,244</b>
B371	CS47 - IPE160	1,219	NC2	0,029	0,032	5,775	0,001	-5,434	<b>0,176</b>
B372	CS48 - IPE180	5,287	NC16	<b>-11,084</b>	0,196	1,948	0,000	-5,755	0,055
B372	CS48 - IPE180	0,000	NC4	<b>27,524</b>	0,171	-2,924	0,000	3,877	0,145
B372	CS48 - IPE180	8,331	NC2	11,288	<b>-0,572</b>	<b>-13,082</b>	-0,001	-15,598	0,077
B372	CS48 - IPE180	0,000	NC2	11,288	<b>0,940</b>	<b>16,613</b>	<b>-0,001</b>	<b>-30,344</b>	<b>-0,897</b>
B372	CS48 - IPE180	0,000	NC18	19,112	0,011	-12,039	<b>0,001</b>	<b>20,541</b>	0,189
B372	CS48 - IPE180	8,331	NC16	-11,084	0,062	10,239	0,000	12,797	<b>0,448</b>
B373	CS48 - IPE180	0,000	NC18	<b>-19,835</b>	-0,249	-12,277	0,000	19,789	0,793
B373	CS48 - IPE180	0,000	NC16	<b>7,736</b>	0,427	-12,486	0,000	<b>20,087</b>	-1,040
B373	CS48 - IPE180	8,331	NC2	5,325	<b>-0,664</b>	<b>-15,541</b>	-0,001	-24,531	-0,030
B373	CS48 - IPE180	0,000	NC2	5,325	<b>0,983</b>	<b>16,582</b>	<b>-0,001</b>	<b>-28,909</b>	-0,883
B373	CS48 - IPE180	5,287	NC18	-19,835	-0,214	2,950	<b>0,000</b>	-4,023	0,105
B373	CS48 - IPE180	0,000	NC7	5,196	0,618	-8,799	0,000	13,670	<b>-1,170</b>
B373	CS48 - IPE180	8,331	NC16	7,735	0,354	11,817	0,000	17,325	<b>1,107</b>
B374	CS39 - HEA140	5,287	NC9	<b>-15,279</b>	0,175	-0,530	0,000	0,207	-0,196
B374	CS39 - HEA140	5,287	NC16	<b>16,300</b>	0,412	0,573	0,000	-4,118	0,396
B374	CS39 - HEA140	3,155	NC18	-8,332	<b>-0,536</b>	-1,807	0,000	-2,607	-0,132
B374	CS39 - HEA140	0,000	NC2	-6,149	<b>1,001</b>	<b>10,871</b>	<b>-0,001</b>	<b>-18,146</b>	<b>-1,739</b>
B374	CS39 - HEA140	8,331	NC2	-6,149	-0,285	<b>-10,062</b>	-0,001	-14,261	0,493
B374	CS39 - HEA140	0,000	NC18	-8,332	-0,406	-6,831	<b>0,000</b>	11,019	1,355
B374	CS39 - HEA140	0,000	NC16	16,299	0,078	-7,233	0,000	<b>12,418</b>	-0,821
B374	CS39 - HEA140	8,331	NC16	16,300	0,286	5,421	0,000	5,006	<b>1,458</b>
B375	CS48 - IPE180	0,000	NC11	<b>-5,373</b>	-0,058	-6,904	0,000	10,837	0,403
B375	CS48 - IPE180	0,000	NC16	<b>18,956</b>	0,148	-12,851	0,001	21,371	-0,406
B375	CS48 - IPE180	8,331	NC2	0,203	<b>-0,636</b>	<b>-14,639</b>	-0,001	-20,242	0,047
B375	CS48 - IPE180	0,000	NC2	0,203	<b>1,013</b>	<b>17,484</b>	<b>-0,001</b>	<b>-32,131</b>	<b>-0,956</b>
B375	CS48 - IPE180	5,287	NC18	-0,088	0,045	2,140	<b>0,001</b>	-5,338	-0,119
B375	CS48 - IPE180	0,000	NC18	-0,088	-0,008	-13,086	0,001	<b>22,753</b>	0,237
B375	CS48 - IPE180	8,331	NC14	5,951	0,098	3,782	0,001	4,598	<b>0,456</b>
B376	CS47 - IPE160	0,000	NC18	<b>-5,295</b>	-0,024	-7,548	<b>0,001</b>	<b>13,804</b>	0,203
B376	CS47 - IPE160	0,000	NC7	<b>1,778</b>	0,111	-4,738	0,000	7,837	-0,129
B376	CS47 - IPE160	8,331	NC2	-0,123	<b>-0,339</b>	<b>-7,847</b>	-0,001	-9,601	0,082
B376	CS47 - IPE160	0,000	NC2	-0,123	<b>0,590</b>	<b>10,250</b>	<b>-0,001</b>	<b>-19,629</b>	<b>-0,592</b>
B376	CS47 - IPE160	7,113	NC2	-0,123	0,002	-5,253	-0,001	-1,625	<b>0,287</b>
B377	CS39 - HEA140	0,000	NC2	<b>-22,437</b>	0,133	<b>10,439</b>	<b>0,002</b>	-19,874	0,431
B377	CS39 - HEA140	0,000	NC12	<b>13,416</b>	0,007	-5,049	0,000	7,434	0,408
B377	CS39 - HEA140	3,046	NC2	-22,437	<b>-0,762</b>	3,636	0,002	1,565	-0,528
B377	CS39 - HEA140	3,047	NC15	6,767	<b>0,547</b>	-1,929	-0,001	-0,299	-0,565
B377	CS39 - HEA140	8,333	NC2	-22,437	-0,529	<b>-10,763</b>	0,002	<b>-21,413</b>	-0,557
B377	CS39 - HEA140	3,047	NC16	6,914	0,544	-2,018	<b>-0,001</b>	-0,455	-0,570
B377	CS39 - HEA140	0,000	NC16	6,916	0,252	-6,728	-0,001	<b>12,653</b>	-1,146
B377	CS39 - HEA140	0,000	NC7	-0,125	0,433	-4,100	-0,001	7,696	<b>-1,218</b>
B377	CS39 - HEA140	8,333	NC16	6,917	0,145	6,032	-0,001	10,007	<b>1,178</b>
B378	CS48 - IPE180	0,000	NC18	<b>-16,279</b>	-0,090	-11,805	-0,001	17,418	0,406
B378	CS48 - IPE180	0,000	NC16	<b>5,421</b>	0,527	-11,944	-0,001	17,886	<b>-1,230</b>
B378	CS48 - IPE180	3,046	NC2	2,663	<b>-0,922</b>	3,956	0,001	5,600	-0,469
B378	CS48 - IPE180	5,287	NC2	2,663	<b>0,744</b>	-5,213	0,001	4,192	-0,354
B378	CS48 - IPE180	8,333	NC2	2,663	-0,768	<b>-16,699</b>	0,001	<b>-29,185</b>	-0,391
B378	CS48 - IPE180	0,000	NC2	2,663	0,590	<b>15,442</b>	<b>0,001</b>	-23,948	0,036
B378	CS48 - IPE180	5,287	NC16	5,421	0,458	3,275	<b>-0,001</b>	-4,204	-0,150
B378	CS48 - IPE180	8,333	NC18	-16,279	-0,339	12,497	-0,001	<b>20,302</b>	-0,689
B378	CS48 - IPE180	8,333	NC16	5,421	0,317	12,357	-0,001	19,607	<b>1,030</b>
B379	CS48 - IPE180	5,287	NC16	<b>-10,065</b>	0,207	3,281	-0,001	-2,894	0,051
B379	CS48 - IPE180	0,000	NC4	<b>26,673</b>	0,192	-2,830	0,000	3,753	0,043
B379	CS48 - IPE180	3,046	NC2	11,653	<b>-0,787</b>	3,137	0,001	4,711	-0,385
B379	CS48 - IPE180	5,287	NC2	11,653	<b>0,719</b>	-5,378	0,001	2,201	-0,362
B379	CS48 - IPE180	8,333	NC2	11,653	-0,677	<b>-15,977</b>	0,001	<b>-30,327</b>	-0,298
B379	CS48 - IPE180	0,000	NC2	11,653	0,608	<b>13,735</b>	<b>0,001</b>	-20,990	-0,113
B379	CS48 - IPE180	0,000	NC13	24,053	0,141	-3,470	<b>-0,001</b>	5,078	-0,265
B379	CS48 - IPE180	8,333	NC18	19,761	-0,052	11,694	-0,001	<b>20,534</b>	-0,053
B379	CS48 - IPE180	0,000	NC7	-6,325	0,443	-7,590	0,000	10,948	<b>-0,738</b>
B379	CS48 - IPE180	8,333	NC16	-10,065	0,073	11,577	-0,001	19,737	<b>0,478</b>
B380	CS48 - IPE180	0,000	NC11	<b>-4,420</b>	0,041	-6,425	0,000	9,321	0,116
B380	CS48 - IPE180	0,000	NC16	<b>14,826</b>	0,214	-11,714	-0,001	17,738	-0,533
B380	CS48 - IPE180	3,046	NC2	0,153	<b>-0,817</b>	3,558	0,001	4,738	-0,386
B380	CS48 - IPE180	5,287	NC2	0,153	<b>0,788</b>	-5,610	0,001	2,440	-0,398
B380	CS48 - IPE180	8,333	NC2	0,153	0,153	<b>-17,096</b>	0,001	<b>-32,147</b>	-0,301
B380	CS48 - IPE180	0,000	NC2	0,153	0,695	<b>15,045</b>	<b>0,001</b>	-23,599	-0,200
B380	CS48 - IPE180	3,047	NC18	0,204	-0,035	-2,670	<b>-0,001</b>	-3,957	0,107



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B380	CS48 - IPE180	8,333	NC18	0,206	-0,072	12,819	-0,001	<b>22,760</b>	-0,092
B380	CS48 - IPE180	0,000	NC7	13,251	0,400	-8,446	0,000	12,557	<b>-0,611</b>
B380	CS48 - IPE180	8,333	NC16	14,826	0,041	12,588	-0,001	21,379	<b>0,413</b>
B381	CS39 - HEA140	5,287	NC18	<b>-14,179</b>	0,061	-2,065	0,008	-5,114	0,005
B381	CS39 - HEA140	5,287	NC16	<b>10,294</b>	0,647	-0,837	0,006	-4,840	<b>-1,780</b>
B381	CS39 - HEA140	5,287	NC16	10,291	<b>-1,327</b>	0,455	0,006	-4,842	-1,780
B381	CS39 - HEA140	0,000	NC7	9,694	<b>0,842</b>	-2,476	0,004	2,466	-1,037
B381	CS39 - HEA140	8,333	NC2	-0,955	-0,648	<b>-10,409</b>	-0,014	0,000	0,000
B381	CS39 - HEA140	0,000	NC2	-0,955	0,011	<b>11,699</b>	<b>-0,014</b>	<b>-13,189</b>	0,782
B381	CS39 - HEA140	3,047	NC18	-14,165	0,609	-2,215	<b>0,008</b>	-4,183	-1,255
B381	CS39 - HEA140	4,838	NC2	-0,956	0,029	0,424	-0,014	<b>16,804</b>	0,024
B381	CS39 - HEA140	0,000	NC18	-14,167	-0,885	-5,430	0,008	4,910	<b>1,632</b>
B382	CS48 - IPE180	0,000	NC18	<b>-22,298</b>	-0,348	-15,179	-0,001	18,634	<b>0,811</b>
B382	CS48 - IPE180	0,000	NC16	<b>10,161</b>	0,625	-14,137	-0,001	17,972	-1,137
B382	CS48 - IPE180	8,333	NC2	-0,465	<b>-0,961</b>	<b>-17,912</b>	0,000	0,000	0,000
B382	CS48 - IPE180	5,287	NC2	-0,465	<b>1,186</b>	-1,606	0,000	28,658	-0,484
B382	CS48 - IPE180	0,000	NC2	7,834	0,749	<b>20,375</b>	0,000	<b>-24,469</b>	-0,299
B382	CS48 - IPE180	5,287	NC11	0,011	0,043	0,418	<b>-0,002</b>	-10,356	0,084
B382	CS48 - IPE180	0,000	NC1	2,431	0,239	6,655	<b>0,000</b>	-7,334	-0,089
B382	CS48 - IPE180	5,063	NC2	7,832	-0,574	0,015	0,000	<b>28,772</b>	-0,340
B382	CS48 - IPE180	0,000	NC7	7,435	0,771	-10,010	-0,001	13,151	<b>-1,167</b>
B383	CS48 - IPE180	5,287	NC16	<b>-114,934</b>	0,240	1,247	-0,002	-16,437	-0,527
B383	CS48 - IPE180	3,047	NC1	<b>-3,032</b>	0,162	1,771	0,001	7,810	-0,092
B383	CS48 - IPE180	8,333	NC2	-8,933	<b>-0,882</b>	<b>-17,129</b>	0,004	0,000	0,000
B383	CS48 - IPE180	5,287	NC2	-8,933	<b>1,090</b>	-2,152	0,004	28,395	-0,446
B383	CS48 - IPE180	0,000	NC2	-8,933	0,730	<b>17,751</b>	<b>0,004</b>	-15,529	-0,368
B383	CS48 - IPE180	0,000	NC18	-52,041	-0,088	-13,476	<b>-0,003</b>	12,638	0,210
B383	CS48 - IPE180	4,838	NC18	-52,024	0,076	0,190	-0,003	<b>-19,338</b>	-0,056
B383	CS48 - IPE180	4,838	NC2	-8,932	-0,418	0,091	0,004	<b>28,764</b>	-0,203
B383	CS48 - IPE180	0,000	NC7	-101,018	0,515	-9,022	-0,001	9,712	<b>-0,600</b>
B383	CS48 - IPE180	7,114	NC2	-8,933	-0,032	-10,678	0,004	16,880	<b>0,549</b>
B384	CS48 - IPE180	0,000	NC11	<b>-6,491</b>	-0,127	-7,447	0,002	8,425	0,329
B384	CS48 - IPE180	3,047	NC16	<b>28,405</b>	-0,347	-5,210	0,002	-12,766	0,367
B384	CS48 - IPE180	8,333	NC2	0,259	<b>-0,957</b>	<b>-18,414</b>	-0,001	0,000	0,000
B384	CS48 - IPE180	5,287	NC2	0,259	<b>1,190</b>	-2,108	-0,001	30,188	-0,497
B384	CS48 - IPE180	0,000	NC2	0,146	0,811	<b>19,873</b>	<b>-0,001</b>	<b>-20,291</b>	-0,436
B384	CS48 - IPE180	0,000	NC12	-6,446	-0,125	-7,448	<b>0,002</b>	8,436	0,326
B384	CS48 - IPE180	5,063	NC2	0,145	-0,603	-0,486	-0,001	<b>30,413</b>	-0,347
B384	CS48 - IPE180	0,000	NC6	5,940	0,534	-0,510	0,000	0,660	<b>-0,679</b>
B384	CS48 - IPE180	7,114	NC2	0,259	-0,031	-11,385	-0,001	18,088	<b>0,593</b>
B385	CS47 - IPE160	0,000	NC18	<b>-3,523</b>	-0,108	-8,313	<b>-0,001</b>	7,991	0,258
B385	CS47 - IPE160	0,000	NC7	<b>0,472</b>	0,220	-5,223	0,001	6,010	-0,117
B385	CS47 - IPE160	8,333	NC2	-0,192	<b>-0,538</b>	<b>-10,372</b>	0,001	0,000	0,000
B385	CS47 - IPE160	5,287	NC2	-0,192	<b>0,665</b>	-1,238	0,001	17,096	-0,271
B385	CS47 - IPE160	0,000	NC2	-0,192	0,459	<b>10,857</b>	0,001	-9,829	-0,252
B385	CS47 - IPE160	0,000	NC12	-1,394	-0,045	-4,008	<b>0,002</b>	4,656	0,128
B385	CS47 - IPE160	4,838	NC18	-3,522	0,074	-0,302	-0,001	<b>-12,764</b>	-0,033
B385	CS47 - IPE160	4,838	NC2	-0,192	-0,260	0,090	0,001	<b>17,312</b>	-0,121
B385	CS47 - IPE160	0,000	NC6	-0,259	0,321	-0,396	0,000	0,374	<b>-0,400</b>
B385	CS47 - IPE160	7,114	NC2	-0,192	-0,020	-6,440	0,001	10,206	<b>0,335</b>
B386	CS47 - IPE160	5,287	NC16	<b>-24,630</b>	-0,047	1,681	0,000	-3,961	0,037
B386	CS47 - IPE160	0,000	NC2	<b>18,114</b>	0,284	<b>7,892</b>	<b>0,000</b>	-8,497	0,133
B386	CS47 - IPE160	3,046	NC2	18,114	<b>-0,570</b>	1,405	0,000	5,664	-0,303
B386	CS47 - IPE160	3,047	NC2	18,111	<b>0,394</b>	1,224	0,000	5,664	-0,303
B386	CS47 - IPE160	8,333	NC2	18,114	-0,486	<b>-10,214</b>	0,000	<b>-18,171</b>	-0,303
B386	CS47 - IPE160	0,000	NC3	13,504	0,149	-0,123	<b>0,000</b>	1,071	-0,020
B386	CS47 - IPE160	8,333	NC18	1,736	-0,037	6,843	0,000	<b>9,378</b>	0,046
B386	CS47 - IPE160	8,333	NC7	-19,386	-0,263	4,173	0,000	4,350	<b>-0,349</b>
B386	CS47 - IPE160	1,219	NC2	18,114	-0,058	5,297	0,000	-0,461	<b>0,270</b>
B387	CS48 - IPE180	0,000	NC10	<b>-42,812</b>	0,265	-7,988	-0,001	12,055	-0,319
B387	CS48 - IPE180	0,000	NC8	<b>41,908</b>	0,207	-7,908	<b>-0,001</b>	11,475	-0,102
B387	CS48 - IPE180	8,331	NC2	-6,350	<b>-0,669</b>	<b>-13,466</b>	-0,001	-16,651	-0,222
B387	CS48 - IPE180	0,000	NC2	-6,350	<b>0,934</b>	<b>16,229</b>	-0,001	<b>-28,199</b>	<b>-0,774</b>
B387	CS48 - IPE180	0,000	NC17	-39,828	0,115	-4,567	<b>0,000</b>	7,075	-0,254
B387	CS48 - IPE180	0,000	NC18	-41,160	0,061	-11,553	-0,001	<b>18,210</b>	-0,146
B387	CS48 - IPE180	7,113	NC2	-6,350	-0,111	-9,229	-0,001	-2,831	<b>0,254</b>
B389	CS39 - HEA140	0,000	NC3	<b>-19,720</b>	0,114	0,263	-0,001	-2,519	0,462
B389	CS39 - HEA140	3,155	NC16	<b>6,421</b>	0,263	-2,331	-0,001	-2,403	-0,399
B389	CS39 - HEA140	5,287	NC2	-8,887	<b>-0,569</b>	-1,637	0,000	6,440	-0,112
B389	CS39 - HEA140	0,000	NC2	-8,888	<b>1,061</b>	<b>11,099</b>	0,000	<b>-19,047</b>	<b>-1,453</b>
B389	CS39 - HEA140	8,331	NC2	-8,888	-0,539	<b>-9,730</b>	0,000	-12,834	-0,391
B389	CS39 - HEA140	0,000	NC11	-13,684	-0,110	-2,333	<b>-0,001</b>	2,137	0,776
B389	CS39 - HEA140	3,155	NC9	-8,789	0,480	-0,174	<b>0,000</b>	0,544	-0,431
B389	CS39 - HEA140	0,000	NC18	-0,614	-0,094	-7,016	0,000	<b>11,870</b>	-0,189
B389	CS39 - HEA140	8,331	NC18	-0,615	0,113	5,671	0,000	6,036	<b>0,830</b>
B391	CS47 - IPE160	5,287	NC16	<b>-11,505</b>	-0,010	2,038	-0,001	-2,429	0,051



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B391	CS47 - IPE160	0,000	NC2	<b>17,782</b>	<b>0,545</b>	<b>10,013</b>	0,000	<b>-18,251</b>	<b>-0,400</b>
B391	CS47 - IPE160	8,331	NC2	17,782	<b>-0,367</b>	<b>-8,083</b>	0,000	-10,197	-0,026
B391	CS47 - IPE160	0,000	NC10	-1,690	0,179	-4,253	<b>-0,002</b>	5,051	-0,233
B391	CS47 - IPE160	0,000	NC12	5,710	0,057	-1,352	<b>0,001</b>	1,271	0,038
B391	CS47 - IPE160	8,331	NC18	-6,304	-0,114	7,165	-0,001	<b>11,897</b>	-0,085
B391	CS47 - IPE160	7,113	NC2	17,782	-0,025	-5,490	0,000	-1,932	<b>0,213</b>
B392	CS39 - HEA140	0,000	NC2	<b>-18,906</b>	0,371	<b>10,294</b>	<b>-0,002</b>	-18,814	-0,122
B392	CS39 - HEA140	3,047	NC16	<b>7,175</b>	-0,085	-1,675	0,002	-1,030	0,167
B392	CS39 - HEA140	8,333	NC2	-18,906	<b>-0,529</b>	<b>-10,797</b>	-0,002	<b>-21,086</b>	-0,355
B392	CS39 - HEA140	3,047	NC2	-18,904	<b>0,440</b>	2,170	-0,002	2,187	-0,355
B392	CS39 - HEA140	3,047	NC18	-0,403	0,209	-1,602	<b>0,002</b>	-1,187	-0,175
B392	CS39 - HEA140	8,333	NC18	-0,402	-0,039	6,515	0,002	<b>11,678</b>	0,263
B392	CS39 - HEA140	8,333	NC3	-4,337	-0,213	0,489	0,000	0,607	<b>-0,443</b>
B392	CS39 - HEA140	1,219	NC3	-4,337	-0,005	-0,049	0,000	-0,369	<b>0,379</b>
B394	CS48 - IPE180	0,000	NC18	<b>-23,630</b>	0,149	-10,618	0,001	14,390	-0,260
B394	CS48 - IPE180	0,000	NC12	<b>34,292</b>	0,096	-3,021	0,001	4,118	-0,010
B394	CS48 - IPE180	8,333	NC2	6,245	<b>-0,694</b>	<b>-16,063</b>	-0,001	<b>-28,180</b>	-0,291
B394	CS48 - IPE180	0,000	NC2	6,245	<b>0,706</b>	<b>13,649</b>	<b>-0,001</b>	-18,121	<b>-0,341</b>
B394	CS48 - IPE180	5,287	NC18	-23,630	0,076	3,236	<b>0,001</b>	-4,296	0,028
B394	CS48 - IPE180	8,333	NC18	-23,630	-0,058	11,532	0,001	<b>18,200</b>	0,054
B394	CS48 - IPE180	7,114	NC2	6,245	-0,136	-11,824	-0,001	-11,188	<b>0,215</b>
B396	CS39 - HEA140	0,000	NC3	<b>-30,249</b>	-0,443	-0,817	0,000	1,211	0,937
B396	CS39 - HEA140	0,000	NC13	<b>2,704</b>	0,221	-0,460	0,005	-0,927	-0,150
B396	CS39 - HEA140	5,287	NC10	1,305	<b>-1,030</b>	0,332	0,007	-5,027	-1,370
B396	CS39 - HEA140	3,047	NC3	-30,246	<b>0,705</b>	-0,339	0,000	-0,239	-0,903
B396	CS39 - HEA140	8,333	NC2	-15,410	-0,683	<b>-10,307</b>	-0,014	0,000	0,000
B396	CS39 - HEA140	0,000	NC2	-15,410	0,129	<b>11,801</b>	<b>-0,014</b>	<b>-14,041</b>	0,454
B396	CS39 - HEA140	3,047	NC18	1,400	-0,873	-3,056	<b>0,009</b>	-4,464	0,586
B396	CS39 - HEA140	4,838	NC2	-15,410	0,063	0,526	-0,014	<b>16,447</b>	0,116
B396	CS39 - HEA140	5,287	NC18	1,397	0,546	-1,354	0,009	-7,279	<b>-1,472</b>
B396	CS39 - HEA140	0,000	NC16	-16,045	-0,747	-4,192	0,007	1,916	<b>1,498</b>
B398	CS48 - IPE180	0,000	NC18	<b>-116,952</b>	0,193	-13,683	<b>-0,001</b>	14,362	-0,216
B398	CS48 - IPE180	0,000	NC7	<b>6,750</b>	0,103	-9,193	0,000	11,144	0,123
B398	CS48 - IPE180	8,333	NC2	-17,061	<b>-0,894</b>	<b>-17,003</b>	0,004	0,000	0,000
B398	CS48 - IPE180	5,287	NC2	-17,061	<b>1,078</b>	-2,025	0,004	28,011	-0,410
B398	CS48 - IPE180	0,000	NC2	-17,061	0,733	<b>17,877</b>	<b>0,004</b>	-16,581	-0,389
B398	CS48 - IPE180	4,838	NC18	-116,916	-0,277	-0,017	-0,001	<b>-18,615</b>	-0,259
B398	CS48 - IPE180	4,838	NC2	-17,056	-0,397	0,217	0,004	<b>28,323</b>	-0,177
B398	CS48 - IPE180	0,000	NC9	-107,361	0,441	-2,437	0,000	2,917	<b>-0,487</b>
B398	CS48 - IPE180	7,114	NC2	-17,061	-0,044	-10,551	0,004	16,726	<b>0,563</b>
B400	CS47 - IPE160	3,047	NC18	<b>-5,899</b>	-0,128	-3,737	0,001	-6,804	0,086
B400	CS47 - IPE160	0,000	NC2	<b>4,950</b>	<b>0,488</b>	<b>10,857</b>	0,001	-10,653	-0,352
B400	CS47 - IPE160	8,333	NC2	4,950	<b>-0,728</b>	<b>-10,372</b>	0,001	-0,822	<b>-0,428</b>
B400	CS47 - IPE160	0,000	NC12	1,086	-0,027	-2,018	<b>0,000</b>	3,474	0,071
B400	CS47 - IPE160	5,287	NC7	-2,719	0,072	-0,027	<b>0,001</b>	-5,060	0,014
B400	CS47 - IPE160	5,287	NC18	-5,899	-0,198	0,035	0,001	<b>-10,950</b>	-0,280
B400	CS47 - IPE160	4,838	NC2	4,950	-0,187	0,090	0,001	<b>16,489</b>	-0,003
B400	CS47 - IPE160	0,000	NC16	-4,276	-0,082	-8,216	0,001	11,852	<b>0,238</b>
B401	CS47 - IPE160	0,000	NC18	<b>-7,671</b>	-0,172	-6,379	<b>0,001</b>	10,091	0,262
B401	CS47 - IPE160	0,000	NC4	<b>1,090</b>	-0,228	-0,390	0,000	0,432	0,301
B401	CS47 - IPE160	5,287	NC2	-0,059	<b>-0,410</b>	-3,238	-0,001	0,028	0,202
B401	CS47 - IPE160	3,046	NC2	-0,059	<b>0,464</b>	1,893	-0,001	1,533	0,200
B401	CS47 - IPE160	8,333	NC2	-0,059	0,444	<b>-9,726</b>	-0,001	<b>-19,720</b>	0,255
B401	CS47 - IPE160	0,000	NC2	-0,059	-0,390	<b>8,380</b>	<b>-0,001</b>	-14,114	0,089
B401	CS47 - IPE160	8,333	NC18	-7,671	-0,028	7,268	0,001	<b>13,795</b>	-0,124
B401	CS47 - IPE160	1,219	NC2	-0,059	-0,049	5,785	-0,001	-5,484	<b>-0,179</b>
B401	CS47 - IPE160	0,000	NC3	1,055	-0,229	-0,388	0,000	0,429	<b>0,304</b>
B402	CS48 - IPE180	5,287	NC16	<b>-18,233</b>	0,142	1,800	0,000	-5,964	-0,063
B402	CS48 - IPE180	0,000	NC11	<b>27,114</b>	-0,132	-3,889	0,000	6,337	0,283
B402	CS48 - IPE180	0,000	NC2	8,653	<b>-0,962</b>	<b>16,489</b>	<b>0,001</b>	<b>-29,842</b>	<b>0,905</b>
B402	CS48 - IPE180	8,331	NC2	8,653	<b>0,633</b>	<b>-13,206</b>	0,001	-16,126	0,075
B402	CS48 - IPE180	0,000	NC18	13,341	0,074	-12,056	<b>-0,001</b>	<b>20,650</b>	-0,447
B402	CS48 - IPE180	0,000	NC16	-18,233	0,144	-12,062	0,000	20,317	<b>-0,525</b>
B403	CS48 - IPE180	0,000	NC3	<b>-10,719</b>	-0,371	-0,423	0,000	0,096	0,519
B403	CS48 - IPE180	0,000	NC16	<b>7,319</b>	-0,065	-12,572	0,000	<b>20,391</b>	-0,054
B403	CS48 - IPE180	0,000	NC2	6,376	<b>-1,013</b>	<b>16,473</b>	<b>0,000</b>	<b>-28,401</b>	<b>0,908</b>
B403	CS48 - IPE180	8,331	NC2	6,376	<b>0,719</b>	<b>-15,650</b>	0,000	-24,930	0,168
B403	CS48 - IPE180	5,287	NC18	-9,168	0,208	2,936	<b>0,000</b>	-4,027	-0,040
B403	CS48 - IPE180	0,000	NC18	-9,168	0,216	-12,291	0,000	19,858	<b>-0,780</b>
B404	CS39 - HEA140	0,000	NC4	<b>-7,956</b>	-0,239	0,672	-0,001	-1,165	0,702
B404	CS39 - HEA140	5,287	NC16	<b>21,841</b>	-0,092	0,964	-0,001	-3,876	0,403
B404	CS39 - HEA140	0,000	NC2	-2,458	<b>-1,132</b>	<b>10,896</b>	<b>0,000</b>	<b>-18,372</b>	<b>1,879</b>
B404	CS39 - HEA140	3,155	NC18	-2,910	<b>0,540</b>	-1,603	0,000	-2,623	-0,126
B404	CS39 - HEA140	8,331	NC2	-2,458	0,468	<b>-9,933</b>	0,000	-13,852	-0,022
B404	CS39 - HEA140	0,000	NC11	-4,541	-0,020	-1,851	<b>-0,001</b>	3,238	0,362
B404	CS39 - HEA140	0,000	NC16	21,841	0,183	-6,868	-0,001	<b>11,131</b>	-0,779



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B404	CS39 - HEA140	0,000	NC18	-2,910	0,410	-6,628	0,000	10,362	<b>-1,624</b>
B405	CS48 - IPE180	0,000	NC18	<b>-10,429</b>	0,030	-13,077	-0,001	<b>22,708</b>	-0,352
B405	CS48 - IPE180	0,000	NC11	<b>5,219</b>	-0,231	-4,497	0,000	7,507	0,500
B405	CS48 - IPE180	0,000	NC2	-0,106	<b>-1,023</b>	<b>17,430</b>	<b>0,002</b>	<b>-31,907</b>	<b>0,937</b>
B405	CS48 - IPE180	8,331	NC2	-0,106	<b>0,709</b>	<b>-14,693</b>	0,002	-20,463	0,134
B405	CS48 - IPE180	5,287	NC18	-10,429	0,003	2,149	<b>-0,001</b>	-5,335	0,137
B405	CS48 - IPE180	0,000	NC16	2,717	0,162	-12,874	0,000	21,453	<b>-0,572</b>
B406	CS47 - IPE160	0,000	NC18	<b>-6,618</b>	-0,035	-7,536	<b>-0,001</b>	<b>13,738</b>	-0,110
B406	CS47 - IPE160	0,000	NC4	<b>0,742</b>	-0,268	-0,292	0,000	0,115	0,422
B406	CS47 - IPE160	0,000	NC2	-0,175	<b>-0,598</b>	<b>10,246</b>	<b>0,001</b>	<b>-19,606</b>	<b>0,582</b>
B406	CS47 - IPE160	8,331	NC2	-0,175	<b>0,388</b>	<b>-7,850</b>	0,001	-9,611	0,037
B406	CS47 - IPE160	0,000	NC16	-1,158	0,134	-7,298	0,000	12,480	<b>-0,440</b>
B407	CS39 - HEA140	0,000	NC4	<b>-15,049</b>	-0,198	0,522	0,000	-0,712	0,437
B407	CS39 - HEA140	5,287	NC16	<b>24,986</b>	-0,352	1,589	0,002	-0,548	0,061
B407	CS39 - HEA140	3,047	NC3	-14,903	<b>-0,382</b>	-0,150	0,000	0,619	0,329
B407	CS39 - HEA140	8,333	NC2	-14,468	<b>0,691</b>	<b>-10,619</b>	-0,002	<b>-20,765</b>	<b>0,921</b>
B407	CS39 - HEA140	0,000	NC2	-14,468	-0,286	<b>10,472</b>	<b>-0,002</b>	-19,973	-0,203
B407	CS39 - HEA140	5,287	NC18	4,587	-0,149	1,683	<b>0,002</b>	-0,385	0,221
B407	CS39 - HEA140	8,333	NC18	4,587	-0,023	6,535	0,002	<b>12,134</b>	-0,042
B407	CS39 - HEA140	8,333	NC16	24,986	-0,226	6,441	0,002	11,685	<b>-0,819</b>
B408	CS48 - IPE180	0,000	NC3	<b>-11,032</b>	-0,301	-0,453	0,000	-0,217	0,319
B408	CS48 - IPE180	0,000	NC16	<b>8,974</b>	-0,295	-11,809	0,001	17,608	0,557
B408	CS48 - IPE180	5,287	NC2	4,359	<b>-0,696</b>	-5,077	-0,001	4,333	0,316
B408	CS48 - IPE180	3,046	NC2	4,359	<b>0,871</b>	4,092	-0,001	5,436	0,399
B408	CS48 - IPE180	8,333	NC2	4,359	0,816	<b>-16,563</b>	-0,001	<b>-28,630</b>	0,500
B408	CS48 - IPE180	0,000	NC2	4,359	-0,641	<b>15,578</b>	<b>-0,001</b>	-24,526	0,048
B408	CS48 - IPE180	3,047	NC18	-6,559	-0,102	-3,008	<b>0,001</b>	-4,655	0,029
B408	CS48 - IPE180	8,333	NC16	8,974	-0,030	12,493	0,001	<b>20,459</b>	-0,241
B408	CS48 - IPE180	1,219	NC2	4,359	-0,036	10,983	-0,001	-8,342	<b>-0,364</b>
B408	CS48 - IPE180	0,000	NC15	8,922	-0,295	-11,813	0,001	17,600	<b>0,557</b>
B409	CS48 - IPE180	5,287	NC16	<b>-19,702</b>	0,041	3,341	0,001	-2,504	-0,106
B409	CS48 - IPE180	0,000	NC11	<b>26,177</b>	-0,151	-3,413	0,000	4,935	0,288
B409	CS48 - IPE180	5,287	NC2	9,115	<b>-0,663</b>	-5,276	-0,001	2,388	0,318
B409	CS48 - IPE180	3,046	NC2	9,115	<b>0,751</b>	3,239	-0,001	4,668	0,326
B409	CS48 - IPE180	8,333	NC2	9,115	0,733	<b>-15,874</b>	-0,001	<b>-29,830</b>	<b>0,424</b>
B409	CS48 - IPE180	0,000	NC2	9,115	-0,644	<b>13,838</b>	<b>-0,001</b>	-21,344	0,164
B409	CS48 - IPE180	3,047	NC18	12,334	-0,003	-2,426	<b>0,001</b>	-3,759	-0,066
B409	CS48 - IPE180	8,333	NC18	12,339	0,096	11,699	0,001	<b>20,643</b>	0,126
B409	CS48 - IPE180	1,219	NC2	9,115	-0,086	9,598	-0,001	-7,065	<b>-0,281</b>
B410	CS48 - IPE180	0,000	NC18	<b>-8,291</b>	-0,168	-11,515	0,001	17,418	0,193
B410	CS48 - IPE180	0,000	NC11	<b>3,576</b>	-0,243	-3,901	0,000	5,430	0,486
B410	CS48 - IPE180	5,287	NC2	-0,050	<b>-0,720</b>	-5,553	-0,001	2,490	0,343
B410	CS48 - IPE180	3,046	NC2	-0,050	<b>0,794</b>	3,615	-0,001	4,661	0,338
B410	CS48 - IPE180	8,333	NC2	-0,050	0,793	<b>-17,040</b>	-0,001	<b>-31,925</b>	0,454
B410	CS48 - IPE180	0,000	NC2	-0,050	-0,718	<b>15,101</b>	<b>-0,001</b>	-23,849	0,223
B410	CS48 - IPE180	3,047	NC18	-8,288	0,032	-2,704	<b>0,001</b>	-3,827	-0,105
B410	CS48 - IPE180	8,333	NC18	-8,291	0,050	12,786	0,001	<b>22,714</b>	0,018
B410	CS48 - IPE180	8,333	NC11	3,576	-0,050	4,401	0,000	7,516	<b>-0,324</b>
B410	CS48 - IPE180	0,000	NC3	1,903	-0,387	-0,604	0,000	0,099	<b>0,510</b>
B411	CS39 - HEA140	5,287	NC18	<b>-11,075</b>	0,024	-1,254	-0,008	-7,585	-0,266
B411	CS39 - HEA140	5,287	NC8	<b>1,316</b>	-0,369	-1,068	-0,003	-1,856	0,631
B411	CS39 - HEA140	3,047	NC10	-8,596	<b>-0,792</b>	-2,073	-0,006	-3,458	1,116
B411	CS39 - HEA140	3,046	NC10	-8,596	<b>0,866</b>	-0,838	-0,006	-3,456	1,116
B411	CS39 - HEA140	8,333	NC2	-0,515	0,626	<b>-10,377</b>	0,014	0,000	0,000
B411	CS39 - HEA140	0,000	NC2	-0,515	-0,113	<b>11,731</b>	<b>0,014</b>	<b>-13,453</b>	-0,590
B411	CS39 - HEA140	3,047	NC18	-11,067	-0,672	-2,955	<b>-0,008</b>	-4,996	1,137
B411	CS39 - HEA140	4,838	NC2	-0,516	0,054	0,455	0,014	<b>16,693</b>	0,007
B411	CS39 - HEA140	0,000	NC18	-11,067	0,731	-5,975	-0,008	5,758	<b>-1,281</b>
B411	CS39 - HEA140	3,046	NC18	-11,067	0,857	-1,082	-0,008	-4,992	<b>1,137</b>
B412	CS48 - IPE180	0,000	NC18	<b>-11,075</b>	0,306	-15,176	0,001	18,605	<b>-0,721</b>
B412	CS48 - IPE180	0,000	NC2	<b>8,184</b>	-0,767	<b>20,429</b>	0,000	<b>-24,915</b>	0,330
B412	CS48 - IPE180	5,287	NC2	-0,374	<b>-1,191</b>	-1,552	0,000	28,495	0,499
B412	CS48 - IPE180	8,333	NC2	-0,374	<b>0,956</b>	<b>-17,858</b>	0,000	0,000	0,000
B412	CS48 - IPE180	0,000	NC1	2,618	-0,243	6,682	<b>0,000</b>	-7,564	0,096
B412	CS48 - IPE180	0,000	NC13	-0,543	0,179	-9,042	<b>0,002</b>	11,092	-0,454
B412	CS48 - IPE180	5,063	NC2	8,181	0,592	0,069	0,000	<b>28,597</b>	0,352
B412	CS48 - IPE180	0,000	NC3	-10,886	-0,490	-0,338	0,001	0,735	<b>0,574</b>
B413	CS48 - IPE180	0,000	NC9	<b>-86,914</b>	-0,082	-2,406	0,001	2,659	-0,130
B413	CS48 - IPE180	3,047	NC1	<b>-2,784</b>	-0,159	1,809	-0,001	7,610	0,088
B413	CS48 - IPE180	5,287	NC2	-9,740	<b>-1,094</b>	-2,088	-0,004	28,202	0,459
B413	CS48 - IPE180	8,333	NC2	-9,740	<b>0,877</b>	<b>-17,066</b>	-0,004	0,000	0,000
B413	CS48 - IPE180	0,000	NC2	-9,740	-0,742	<b>17,814</b>	<b>-0,004</b>	-16,058	0,384
B413	CS48 - IPE180	0,000	NC18	-65,309	0,145	-13,473	<b>0,003</b>	12,612	-0,356
B413	CS48 - IPE180	4,838	NC18	-65,289	-0,124	0,193	0,003	<b>-19,349</b>	-0,003
B413	CS48 - IPE180	4,838	NC2	-9,738	0,433	0,154	-0,004	<b>28,542</b>	0,210
B413	CS48 - IPE180	7,114	NC2	-9,740	0,028	-10,614	-0,004	16,803	<b>-0,543</b>



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B413	CS48 - IPE180	0,000	NC3	-28,737	-0,452	-0,448	0,000	0,705	<b>0,511</b>
B414	CS48 - IPE180	0,000	NC18	<b>-13,225</b>	0,103	-14,764	-0,001	15,178	-0,277
B414	CS48 - IPE180	3,047	NC16	<b>15,123</b>	0,048	-5,197	-0,002	-12,837	-0,034
B414	CS48 - IPE180	5,287	NC2	0,363	<b>-1,194</b>	-2,081	0,001	30,107	0,508
B414	CS48 - IPE180	8,333	NC2	0,363	<b>0,953</b>	<b>-18,388</b>	0,001	0,000	0,000
B414	CS48 - IPE180	0,000	NC2	-0,304	-0,812	<b>19,899</b>	<b>0,001</b>	<b>-20,512</b>	0,426
B414	CS48 - IPE180	3,047	NC15	14,406	0,046	-5,205	<b>-0,002</b>	-12,793	-0,034
B414	CS48 - IPE180	5,063	NC2	0,189	0,613	-0,460	0,001	<b>30,326</b>	0,356
B414	CS48 - IPE180	7,114	NC2	0,363	0,027	-11,358	0,001	18,056	<b>-0,588</b>
B414	CS48 - IPE180	0,000	NC3	5,283	-0,567	-0,511	0,000	0,663	<b>0,745</b>
B415	CS47 - IPE160	3,047	NC18	<b>-4,355</b>	-0,112	-3,323	0,001	-9,499	0,138
B415	CS47 - IPE160	3,047	NC1	<b>-0,061</b>	-0,101	1,157	0,000	4,860	0,053
B415	CS47 - IPE160	5,287	NC2	-0,186	<b>-0,667</b>	-1,237	-0,002	17,093	0,279
B415	CS47 - IPE160	8,333	NC2	-0,186	<b>0,535</b>	<b>-10,371</b>	-0,002	0,000	0,000
B415	CS47 - IPE160	0,000	NC2	-0,186	-0,461	<b>10,858</b>	<b>-0,002</b>	-9,839	0,248
B415	CS47 - IPE160	0,000	NC18	-4,354	0,020	-8,317	<b>0,001</b>	8,025	-0,067
B415	CS47 - IPE160	4,838	NC18	-4,355	-0,056	-0,306	0,001	<b>-12,750</b>	-0,013
B415	CS47 - IPE160	4,838	NC2	-0,186	0,268	0,091	-0,002	<b>17,307</b>	0,126
B415	CS47 - IPE160	7,114	NC2	-0,186	0,017	-6,439	-0,002	10,204	<b>-0,332</b>
B415	CS47 - IPE160	0,000	NC3	-0,418	-0,348	-0,431	0,000	0,662	<b>0,455</b>
B1618	CS47 - IPE160	5,287	NC15	<b>-40,770</b>	0,049	1,660	0,001	-3,362	-0,075
B1618	CS47 - IPE160	0,000	NC11	<b>11,668</b>	0,017	-1,670	-0,001	2,301	0,049
B1618	CS47 - IPE160	8,333	NC2	0,468	<b>-0,537</b>	<b>-9,364</b>	0,000	<b>-14,693</b>	<b>-0,449</b>
B1618	CS47 - IPE160	0,000	NC2	0,468	<b>0,474</b>	<b>8,741</b>	0,000	-12,100	-0,245
B1618	CS47 - IPE160	0,000	NC12	11,592	0,019	-1,656	<b>-0,001</b>	2,278	0,045
B1618	CS47 - IPE160	5,287	NC7	-39,513	0,113	1,023	<b>0,001</b>	-2,508	-0,093
B1618	CS47 - IPE160	8,333	NC18	8,601	-0,082	6,888	0,001	<b>9,699</b>	-0,057
B1618	CS47 - IPE160	1,828	NC2	0,468	-0,038	4,849	0,000	0,321	<b>0,153</b>
B1670	CS39 - HEA140	0,000	NC16	<b>-8,453</b>	-0,278	-7,274	<b>-0,003</b>	<b>12,749</b>	<b>0,797</b>
B1670	CS39 - HEA140	0,000	NC2	<b>1,424</b>	<b>1,081</b>	<b>12,200</b>	<b>0,004</b>	<b>-22,726</b>	<b>-1,287</b>
B1670	CS39 - HEA140	5,287	NC2	1,424	<b>-0,784</b>	-0,501	0,004	8,557	-0,375
B1670	CS39 - HEA140	8,333	NC2	1,424	-0,426	<b>-8,653</b>	0,004	-7,444	-0,309
B2232	CS47 - IPE160	0,000	NC18	<b>-8,193</b>	-0,101	-5,753	0,001	6,601	0,117
B2232	CS47 - IPE160	0,000	NC4	<b>0,478</b>	-0,182	-0,486	0,001	0,983	0,138
B2232	CS47 - IPE160	0,000	NC2	0,066	<b>-0,551</b>	7,291	<b>-0,002</b>	-8,265	<b>0,441</b>
B2232	CS47 - IPE160	5,287	NC2	0,066	<b>0,392</b>	-4,146	-0,002	0,121	0,238
B2232	CS47 - IPE160	8,333	NC2	0,066	0,374	<b>-10,815</b>	-0,002	<b>-22,944</b>	0,077
B2232	CS47 - IPE160	8,333	NC16	-2,138	0,139	<b>7,932</b>	0,001	<b>15,714</b>	0,174
B2232	CS47 - IPE160	0,000	NC14	-0,798	-0,051	-3,001	<b>0,002</b>	3,750	0,041
B2232	CS47 - IPE160	7,114	NC2	0,066	0,033	-8,220	-0,002	-11,346	<b>-0,171</b>
B2233	CS39 - HEA140	0,000	NC4	<b>-21,843</b>	-0,176	0,906	-0,001	-1,729	0,034
B2233	CS39 - HEA140	5,287	NC15	<b>13,328</b>	-0,286	2,224	-0,001	-1,215	-0,105
B2233	CS39 - HEA140	0,000	NC2	-9,803	<b>-0,753</b>	<b>8,619</b>	<b>0,003</b>	-9,903	0,799
B2233	CS39 - HEA140	8,333	NC2	-9,803	<b>0,714</b>	<b>-12,307</b>	0,003	<b>-24,859</b>	<b>0,851</b>
B2233	CS39 - HEA140	0,000	NC14	9,400	0,061	-4,601	<b>-0,003</b>	6,033	-0,227
B2233	CS39 - HEA140	8,333	NC18	8,181	0,076	7,407	-0,001	<b>14,181</b>	0,195
B2233	CS39 - HEA140	8,333	NC16	13,169	-0,173	7,168	-0,001	13,072	<b>-0,812</b>

### 5.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extremes 1D: Element

Selectie: Benoemde selectie - Purlins

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B73	3,943	NC2	CS48 - IPE180	S 355	<b>0,56</b>	0,17	0,56
B74	8,333	NC2	CS48 - IPE180	S 355	<b>0,71</b>	0,50	0,71
B75	8,333	NC2	CS39 - HEA140	S 355	<b>0,41</b>	0,34	0,41
B77	0,000	NC2	CS48 - IPE180	S 355	<b>0,78</b>	0,59	0,78
B78	0,000	NC2	CS47 - IPE160	S 355	<b>0,62</b>	0,52	0,62
B79	3,047	NC2	CS39 - HEA140	S 355	<b>0,40</b>	0,33	0,40
B80	3,047	NC2	CS48 - IPE180	S 355	<b>0,88</b>	0,50	0,88
B81	3,047	NC2	CS48 - IPE180	S 355	<b>0,60</b>	0,48	0,60
B82	3,047	NC2	CS48 - IPE180	S 355	<b>0,94</b>	0,53	0,94
B83	3,047	NC2	CS48 - IPE180	S 355	<b>0,54</b>	0,32	0,54
B84	0,000	NC2	CS39 - HEA140	S 355	<b>0,43</b>	0,39	0,43
B85	0,000	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,50	0,68
B86	4,390	NC2	CS48 - IPE180	S 355	<b>0,56</b>	0,16	0,56
B87	0,000	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,51	0,68
B88	8,333	NC2	CS47 - IPE160	S 355	<b>0,53</b>	0,43	0,53
B89	3,047	NC2	CS47 - IPE160	S 355	<b>0,59</b>	0,41	0,59
B90	8,333	NC2	CS48 - IPE180	S 355	<b>0,56</b>	0,48	0,56
B91	8,333	NC2	CS48 - IPE180	S 355	<b>0,71</b>	0,51	0,71



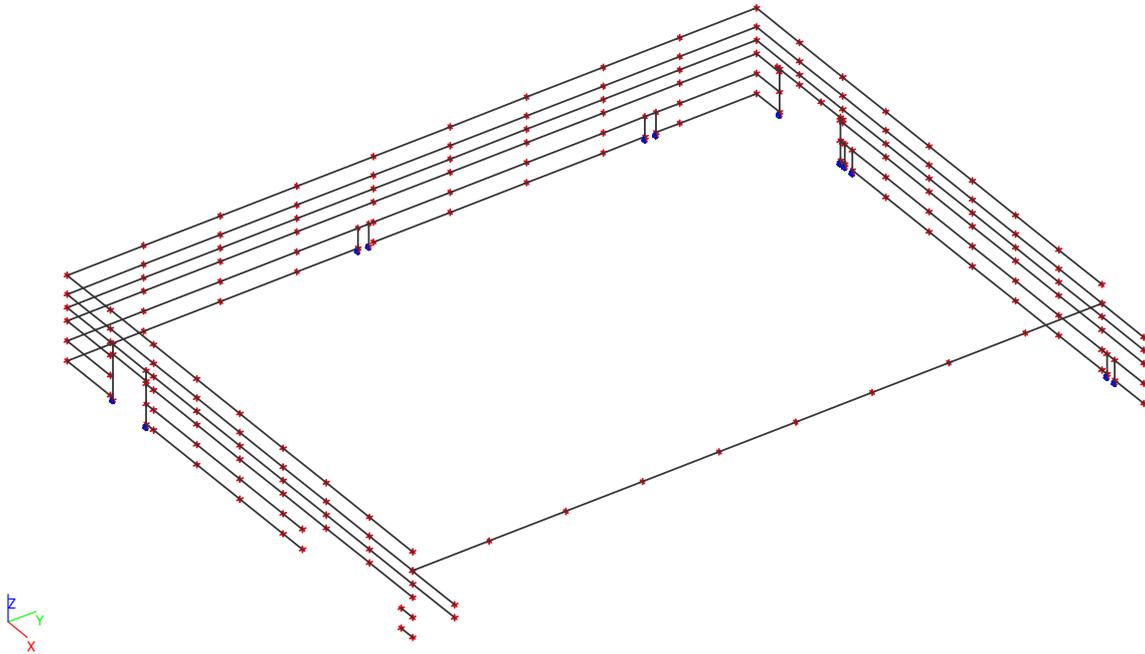
Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B92	8,333	NC2	CS39 - HEA140	S 355	<b>0,39</b>	0,34	0,39
B93	5,287+	NC2	CS48 - IPE180	S 355	<b>0,72</b>	0,10	0,72
B94	8,333	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,44	0,54
B95	3,047-	NC2	CS39 - HEA140	S 355	<b>0,39</b>	0,33	0,39
B96	3,047-	NC2	CS48 - IPE180	S 355	<b>0,90</b>	0,51	0,90
B97	3,047-	NC2	CS39 - HEA140	S 355	<b>0,56</b>	0,48	0,56
B98	3,047-	NC2	CS48 - IPE180	S 355	<b>0,93</b>	0,53	0,93
B99	0,000	NC2	CS39 - HEA140	S 355	<b>0,42</b>	0,39	0,42
B100	0,000	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,51	0,68
B101	0,000	NC2	CS48 - IPE180	S 355	<b>0,55</b>	0,48	0,55
B102	3,046-	NC2	CS48 - IPE180	S 355	<b>0,72</b>	0,09	0,72
B103	0,000	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,45	0,54
B104	3,047-	NC2	CS47 - IPE160	S 355	<b>0,55</b>	0,33	0,55
B105	3,943-	NC2	CS48 - IPE180	S 355	<b>0,61</b>	0,17	0,61
B107	8,333	NC2	CS39 - HEA140	S 355	<b>0,40</b>	0,34	0,40
B109	4,390-	NC2	CS47 - IPE160	S 355	<b>0,48</b>	0,11	0,48
B110	3,047-	NC2	CS39 - HEA140	S 355	<b>0,39</b>	0,33	0,39
B112	3,047-	NC2	CS48 - IPE180	S 355	<b>0,62</b>	0,49	0,62
B114	0,000	NC2	CS39 - HEA140	S 355	<b>0,42</b>	0,39	0,42
B116	4,390-	NC2	CS48 - IPE180	S 355	<b>0,61</b>	0,16	0,61
B118	0,000	NC16	CS47 - IPE160	S 355	<b>0,42</b>	0,21	0,42
B119	3,047-	NC2	CS47 - IPE160	S 355	<b>0,59</b>	0,41	0,59
B120	8,333	NC2	CS48 - IPE180	S 355	<b>0,69</b>	0,51	0,69
B121	8,333	NC2	CS48 - IPE180	S 355	<b>0,73</b>	0,52	0,73
B122	8,333	NC2	CS39 - HEA140	S 355	<b>0,41</b>	0,34	0,41
B123	8,333	NC2	CS48 - IPE180	S 355	<b>0,71</b>	0,53	0,71
B124	8,333	NC2	CS47 - IPE160	S 355	<b>0,55</b>	0,44	0,55
B125	3,047-	NC2	CS39 - HEA140	S 355	<b>0,39</b>	0,33	0,39
B126	3,047-	NC2	CS48 - IPE180	S 355	<b>0,83</b>	0,51	0,83
B127	3,047-	NC2	CS48 - IPE180	S 355	<b>0,66</b>	0,52	0,66
B128	3,047-	NC2	CS48 - IPE180	S 355	<b>0,83</b>	0,53	0,83
B129	0,000	NC2	CS39 - HEA140	S 355	<b>0,43</b>	0,40	0,43
B130	0,000	NC2	CS48 - IPE180	S 355	<b>0,70</b>	0,52	0,70
B131	0,000	NC2	CS48 - IPE180	S 355	<b>0,70</b>	0,51	0,70
B132	0,000	NC2	CS48 - IPE180	S 355	<b>0,71</b>	0,53	0,71
B133	0,000	NC2	CS47 - IPE160	S 355	<b>0,55</b>	0,45	0,55
B1534	8,333	NC2	CS47 - IPE160	S 355	<b>0,61</b>	0,52	0,61
B1535	8,333	NC2	CS48 - IPE180	S 355	<b>0,59</b>	0,53	0,59
B1536	8,333	NC2	CS48 - IPE180	S 355	<b>0,80</b>	0,60	0,80
B1537	8,333	NC2	CS48 - IPE180	S 355	<b>0,76</b>	0,57	0,76
B1538	8,333	NC2	CS39 - HEA140	S 355	<b>0,44</b>	0,41	0,44
B1539	8,333	NC2	CS39 - HEA140	S 355	<b>0,43</b>	0,40	0,43
B1540	8,333	NC2	CS48 - IPE180	S 355	<b>0,76</b>	0,56	0,76
B1541	3,047-	NC2	CS48 - IPE180	S 355	<b>0,58</b>	0,14	0,58
B1542	8,333	NC2	CS48 - IPE180	S 355	<b>0,71</b>	0,54	0,71
B1543	0,000	NC2	CS47 - IPE160	S 355	<b>0,53</b>	0,43	0,53
B1544	5,287+	NC2	CS47 - IPE160	S 355	<b>0,73</b>	0,21	0,73
B1545	0,000	NC2	CS48 - IPE180	S 355	<b>0,65</b>	0,53	0,65
B1546	0,000	NC2	CS48 - IPE180	S 355	<b>0,86</b>	0,60	0,86
B1547	0,000	NC2	CS48 - IPE180	S 355	<b>0,80</b>	0,57	0,80
B1548	0,000	NC2	CS39 - HEA140	S 355	<b>0,44</b>	0,36	0,44
B1549	0,000	NC2	CS39 - HEA140	S 355	<b>0,45</b>	0,37	0,45
B1550	0,000	NC2	CS48 - IPE180	S 355	<b>0,78</b>	0,56	0,78
B1551	4,839-	NC2	CS48 - IPE180	S 355	<b>0,61</b>	0,19	0,61
B1552	3,047-	NC2	CS48 - IPE180	S 355	<b>0,72</b>	0,19	0,72
B1553	0,000	NC2	CS47 - IPE160	S 355	<b>0,55</b>	0,43	0,55
B1556	4,391-	NC2	CS48 - IPE180	S 355	<b>0,54</b>	0,17	0,54
B1558	5,287+	NC2	CS47 - IPE160	S 355	<b>0,73</b>	0,21	0,73
B1559	0,000	NC2	CS39 - HEA140	S 355	<b>0,44</b>	0,35	0,44
B1560	0,000	NC2	CS48 - IPE180	S 355	<b>0,82</b>	0,56	0,82
B1561	0,000	NC2	CS48 - IPE180	S 355	<b>0,81</b>	0,56	0,81
B1562	0,000	NC2	CS48 - IPE180	S 355	<b>0,83</b>	0,61	0,83
B1573	8,333	NC2	CS48 - IPE180	S 355	<b>0,75</b>	0,57	0,75
B1574	8,333	NC2	CS48 - IPE180	S 355	<b>0,75</b>	0,56	0,75
B1575	8,333	NC2	CS48 - IPE180	S 355	<b>0,84</b>	0,61	0,84
B1577	8,333	NC2	CS39 - HEA140	S 355	<b>0,42</b>	0,39	0,42
B1579	3,943-	NC2	CS48 - IPE180	S 355	<b>0,54</b>	0,17	0,54
B1581	0,000	NC16	CS47 - IPE160	S 355	<b>0,46</b>	0,22	0,46
B262	8,335	NC2	CS48 - IPE180	S 355	<b>0,45</b>	0,36	0,45
B263	8,335	NC2	CS48 - IPE180	S 355	<b>0,56</b>	0,40	0,56
B264	3,942-	NC2	CS39 - HEA140	S 355	<b>0,26</b>	0,22	0,26
B265	5,286+	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,21	0,68
B266	8,335	NC2	CS47 - IPE160	S 355	<b>0,56</b>	0,44	0,56
B278	8,335	NC2	CS48 - IPE180	S 355	<b>0,44</b>	0,36	0,44
B279	8,335	NC2	CS48 - IPE180	S 355	<b>0,55</b>	0,40	0,55
B280	3,942-	NC2	CS39 - HEA140	S 355	<b>0,25</b>	0,23	0,25



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B281	8,335	NC2	CS48 - IPE180	S 355	<b>0,54</b>	0,40	0,54
B282	3,046-	NC2	CS47 - IPE160	S 355	<b>0,42</b>	0,28	0,42
B293	8,335	NC2	CS48 - IPE180	S 355	<b>0,38</b>	0,31	0,38
B295	3,942-	NC2	CS39 - HEA140	S 355	<b>0,25</b>	0,22	0,25
B297	0,000	NC16	CS47 - IPE160	S 355	<b>0,46</b>	0,22	0,46
B308	3,046-	NC15	CS48 - IPE180	S 355	<b>0,50</b>	0,18	0,50
B309	8,335	NC2	CS48 - IPE180	S 355	<b>0,57</b>	0,41	0,57
B310	3,942-	NC2	CS39 - HEA140	S 355	<b>0,25</b>	0,23	0,25
B311	8,335	NC2	CS48 - IPE180	S 355	<b>0,57</b>	0,40	0,57
B312	3,046-	NC2	CS47 - IPE160	S 355	<b>0,43</b>	0,28	0,43
B356	0,000	NC2	CS48 - IPE180	S 355	<b>0,52</b>	0,43	0,52
B357	0,000	NC2	CS48 - IPE180	S 355	<b>0,65</b>	0,48	0,65
B358	0,000	NC2	CS39 - HEA140	S 355	<b>0,35</b>	0,31	0,35
B359	3,155-	NC2	CS48 - IPE180	S 355	<b>0,76</b>	0,18	0,76
B360	4,008-	NC2	CS47 - IPE160	S 355	<b>0,66</b>	0,18	0,66
B361	8,333	NC2	CS39 - HEA140	S 355	<b>0,41</b>	0,35	0,41
B362	8,333	NC2	CS48 - IPE180	S 355	<b>0,64</b>	0,48	0,64
B363	8,333	NC2	CS48 - IPE180	S 355	<b>0,50</b>	0,43	0,50
B364	5,287+	NC2	CS48 - IPE180	S 355	<b>0,67</b>	0,19	0,67
B365	4,391-	NC2	CS47 - IPE160	S 355	<b>0,55</b>	0,22	0,55
B366	5,287+	NC2	CS39 - HEA140	S 355	<b>0,32</b>	0,27	0,32
B367	5,287+	NC2	CS48 - IPE180	S 355	<b>0,92</b>	0,50	0,92
B368	5,287+	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,46	0,68
B369	5,287+	NC2	CS48 - IPE180	S 355	<b>0,99</b>	0,55	0,99
B370	5,287+	NC2	CS47 - IPE160	S 355	<b>0,74</b>	0,42	0,74
B371	8,333	NC2	CS47 - IPE160	S 355	<b>0,53</b>	0,45	0,53
B372	0,000	NC2	CS48 - IPE180	S 355	<b>0,63</b>	0,51	0,63
B373	0,000	NC2	CS48 - IPE180	S 355	<b>0,69</b>	0,49	0,69
B374	0,000	NC2	CS39 - HEA140	S 355	<b>0,29</b>	0,29	0,29
B375	0,000	NC2	CS48 - IPE180	S 355	<b>0,78</b>	0,55	0,78
B376	4,860-	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,11	0,54
B377	8,333	NC2	CS39 - HEA140	S 355	<b>0,44</b>	0,35	0,44
B378	8,333	NC2	CS48 - IPE180	S 355	<b>0,66</b>	0,50	0,66
B379	8,333	NC2	CS48 - IPE180	S 355	<b>0,58</b>	0,51	0,58
B380	8,333	NC2	CS48 - IPE180	S 355	<b>0,73</b>	0,55	0,73
B381	5,287+	NC2	CS39 - HEA140	S 355	<b>0,31</b>	0,27	0,31
B382	5,287+	NC2	CS48 - IPE180	S 355	<b>0,90</b>	0,49	0,90
B383	5,287+	NC16	CS48 - IPE180	S 355	<b>0,77</b>	0,28	0,77
B384	5,287+	NC2	CS48 - IPE180	S 355	<b>0,93</b>	0,51	0,93
B385	5,287+	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,39	0,54
B386	8,333	NC2	CS47 - IPE160	S 355	<b>0,47</b>	0,41	0,47
B387	4,434-	NC2	CS48 - IPE180	S 355	<b>0,58</b>	0,15	0,58
B389	0,000	NC2	CS39 - HEA140	S 355	<b>0,35</b>	0,31	0,35
B391	0,000	NC2	CS47 - IPE160	S 355	<b>0,49</b>	0,41	0,49
B392	8,333	NC2	CS39 - HEA140	S 355	<b>0,42</b>	0,34	0,42
B394	8,333	NC2	CS48 - IPE180	S 355	<b>0,55</b>	0,48	0,55
B396	5,287+	NC2	CS39 - HEA140	S 355	<b>0,34</b>	0,27	0,34
B398	0,000	NC18	CS48 - IPE180	S 355	<b>0,82</b>	0,24	0,82
B400	5,287+	NC2	CS47 - IPE160	S 355	<b>0,48</b>	0,37	0,48
B401	8,333	NC2	CS47 - IPE160	S 355	<b>0,52</b>	0,45	0,52
B402	0,000	NC2	CS48 - IPE180	S 355	<b>0,73</b>	0,51	0,73
B403	0,000	NC2	CS48 - IPE180	S 355	<b>0,68</b>	0,48	0,68
B404	0,000	NC2	CS39 - HEA140	S 355	<b>0,30</b>	0,30	0,29
B405	0,000	NC2	CS48 - IPE180	S 355	<b>0,75</b>	0,54	0,75
B406	4,860-	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,11	0,54
B407	8,333	NC2	CS39 - HEA140	S 355	<b>0,40</b>	0,34	0,40
B408	8,333	NC2	CS48 - IPE180	S 355	<b>0,65</b>	0,49	0,65
B409	8,333	NC2	CS48 - IPE180	S 355	<b>0,69</b>	0,51	0,69
B410	8,333	NC2	CS48 - IPE180	S 355	<b>0,73</b>	0,54	0,73
B411	5,287+	NC2	CS39 - HEA140	S 355	<b>0,31</b>	0,27	0,31
B412	5,287+	NC2	CS48 - IPE180	S 355	<b>0,90</b>	0,48	0,90
B413	5,287+	NC2	CS48 - IPE180	S 355	<b>0,89</b>	0,48	0,89
B414	5,287+	NC2	CS48 - IPE180	S 355	<b>0,90</b>	0,51	0,90
B415	5,287+	NC2	CS47 - IPE160	S 355	<b>0,54</b>	0,39	0,54
B1618	8,333	NC16	CS47 - IPE160	S 355	<b>0,47</b>	0,22	0,47
B1670	0,000	NC2	CS39 - HEA140	S 355	<b>0,42</b>	0,37	0,42
B2232	8,333	NC2	CS47 - IPE160	S 355	<b>0,61</b>	0,52	0,61
B2233	8,333	NC2	CS39 - HEA140	S 355	<b>0,44</b>	0,40	0,44

## 6.) Gevelementen

### 6.1. Analysemodel



### 6.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N25	0,000	6,800	9,600
N26	0,000	31,799	9,600
N27	27,000	6,800	9,600
N28	6,750	6,800	9,600
N29	13,500	6,800	9,600
N30	20,250	6,800	9,600
N31	40,500	6,800	4,650
N37	47,250	6,800	9,600
N38	40,500	6,800	9,600
N39	33,750	6,800	9,600
N42	54,000	6,800	9,600
N44	0,000	23,466	9,600
N52	0,000	15,133	9,600
N59	54,000	15,133	7,550
N60	54,000	23,466	7,550
N61	54,000	31,799	7,550
N161	0,000	40,132	9,600
N168	54,000	40,132	7,550
N241	0,000	56,800	9,600
N251	0,000	48,465	9,600
N258	54,000	48,465	7,550
N259	54,000	56,800	7,550
N331	0,000	81,797	9,600
N333	0,000	73,464	9,600
N341	0,000	65,133	9,600
N348	54,000	65,133	7,550
N349	54,000	73,464	7,550
N411	0,000	6,800	7,550
N412	6,750	6,800	7,550
N413	20,250	6,800	7,550
N414	27,000	6,800	7,550
N415	13,500	6,800	7,550
N416	33,750	6,800	7,550
N417	40,500	6,800	7,550
N418	54,000	6,800	7,550
N419	47,250	6,800	7,550
N420	0,000	6,800	6,100
N421	6,750	6,800	6,100
N422	13,500	6,800	6,100
N423	20,250	6,800	6,100
N424	27,000	6,800	6,100

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N425	33,750	6,800	6,100
N426	40,500	6,800	6,100
N427	47,250	6,800	6,100
N428	54,000	6,800	6,100
N429	0,000	6,800	4,650
N430	6,750	6,800	4,650
N431	13,500	6,800	4,650
N432	20,250	6,800	4,650
N433	27,000	6,800	4,650
N434	33,750	6,800	4,650
N436	47,250	6,800	4,650
N437	54,000	6,800	4,650
N438	54,000	6,800	2,475
N441	33,750	6,800	2,475
N442	27,000	6,800	2,475
N443	20,250	6,800	2,475
N444	13,500	6,800	2,475
N445	6,750	6,800	2,475
N446	0,000	6,800	2,475
N447	54,000	6,800	0,300
N450	33,750	6,800	0,300
N451	27,000	6,800	0,300
N452	20,250	6,800	0,300
N453	13,500	6,800	0,300
N454	6,750	6,800	0,300
N455	0,000	6,800	0,300
N456	6,750	81,797	9,600
N457	20,250	81,797	9,600
N458	27,000	81,797	9,600
N459	13,500	81,797	9,600
N460	33,750	81,797	9,600
N461	40,500	81,797	9,600
N462	54,000	81,797	9,600
N463	47,250	81,797	9,600
N464	0,000	81,797	7,550
N465	6,750	81,797	7,550
N466	20,250	81,797	7,550
N467	27,000	81,797	7,550
N468	13,500	81,797	7,550
N469	33,750	81,797	7,550
N470	40,500	81,797	7,550



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N471	54,000	81,797	7,550
N472	47,250	81,797	7,550
N473	0,000	81,797	6,100
N474	6,750	81,797	6,100
N475	13,500	81,797	6,100
N476	20,250	81,797	6,100
N477	27,000	81,797	6,100
N478	33,750	81,797	6,100
N479	40,500	81,797	6,100
N480	47,250	81,797	6,100
N481	54,000	81,797	6,100
N482	0,000	81,797	4,650
N483	3,625	81,797	4,650
N484	13,500	81,797	4,650
N485	20,250	81,797	4,650
N486	27,000	81,797	4,650
N487	33,750	81,797	4,650
N488	40,500	81,797	4,650
N489	47,250	81,797	4,650
N490	54,000	81,797	4,650
N491	54,000	81,797	2,475
N492	47,250	81,797	2,475
N493	40,500	81,797	2,475
N494	33,750	81,797	2,475
N495	27,000	81,797	2,475
N496	20,250	81,797	2,475
N497	13,500	81,797	2,475
N498	3,625	81,797	2,475
N499	0,000	81,797	2,475
N500	54,000	81,797	0,300
N501	47,250	81,797	0,300
N502	40,500	81,797	0,300
N503	33,750	81,797	0,300
N504	27,000	81,797	0,300
N505	20,250	81,797	0,300
N506	13,500	81,797	0,300
N507	13,125	81,797	0,300
N508	0,000	81,797	0,300
N513	0,000	73,464	7,550
N514	0,000	65,133	7,550
N515	0,000	56,800	7,550
N517	0,000	48,465	7,550
N520	0,000	40,132	7,550
N521	0,000	31,799	7,550
N522	0,000	23,466	7,550
N523	0,000	15,133	7,550
N524	0,000	7,464	6,100
N525	0,000	65,133	6,100
N526	0,000	56,800	6,100
N528	0,000	48,465	6,100
N531	0,000	40,132	6,100
N532	0,000	31,799	6,100
N533	0,000	23,466	6,100
N534	0,000	15,133	6,100
N535	0,000	7,464	4,650
N536	0,000	65,133	4,650
N537	0,000	56,800	4,650
N539	0,000	48,465	4,650
N542	0,000	40,132	4,650
N543	0,000	31,799	4,650
N544	0,000	23,466	4,650
N545	0,000	15,133	4,650
N546	0,000	7,464	2,475
N547	0,000	65,133	2,475
N548	0,000	56,800	2,475
N550	0,000	48,465	2,475
N553	0,000	40,132	2,475

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N554	0,000	31,799	2,475
N555	0,000	23,466	2,475
N556	0,000	15,133	2,475
N557	0,000	7,464	0,300
N558	0,000	65,133	0,300
N559	0,000	56,800	0,300
N561	0,000	48,465	0,300
N564	0,000	40,132	0,300
N565	0,000	31,799	0,300
N566	0,000	23,466	0,300
N567	0,000	15,133	0,300
N626	60,550	6,800	7,500
N628	60,550	81,797	7,500
N629	60,550	81,797	4,650
N630	60,550	81,797	2,475
N631	60,550	81,797	0,300
N701	0,000	69,675	0,000
N702	0,000	69,675	2,475
N703	0,000	70,875	0,000
N704	0,000	70,875	2,475
N706	0,000	70,875	0,300
N717	3,625	81,797	0,300
N720	13,125	81,797	0,000
N721	13,125	81,797	5,000
N722	13,125	81,797	2,475
N723	3,250	81,797	5,000
N724	13,125	81,797	4,650
N729	55,990	81,797	0,000
N730	55,990	81,797	2,475
N731	54,790	81,797	0,000
N732	54,790	81,797	2,475
N733	55,990	81,797	0,300
N734	54,790	81,797	0,300
N735	7,150	6,800	0,000
N736	7,150	6,800	6,100
N737	12,350	6,800	0,000
N738	12,350	6,800	6,100
N739	7,150	6,800	5,000
N740	12,350	6,800	5,000
N741	12,350	6,800	4,650
N742	12,350	6,800	2,475
N743	12,350	6,800	0,300
N748	36,795	6,800	2,475
N749	36,795	6,800	0,300
N752	52,200	6,800	2,475
N753	52,200	6,800	0,300
N1282	54,000	6,800	7,500
N1292	54,000	81,797	7,500
N1343	0,000	69,675	0,300
N1344	0,000	39,632	0,000
N1345	0,000	38,432	0,000
N1346	0,000	38,432	2,475
N1347	0,000	39,632	2,475
N1348	0,000	38,432	0,300
N1822	15,015	81,797	0,000
N1823	15,015	81,797	2,475
N1824	13,815	81,797	0,000
N1825	13,815	81,797	2,475
N1826	13,815	81,797	0,300
N1827	15,015	81,797	0,300
N1831	3,625	81,797	0,000
N1832	3,625	81,797	5,000
N1834	13,500	81,797	5,000
N1837	10,125	81,797	5,000
N1839	6,750	81,797	5,000
N1842	60,550	6,800	6,100
N1843	60,550	81,797	6,100

### 6.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B26	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N30	Tussenligger (0)
B30	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N27	standaard
					N29	Tussenligger (0)



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
					N30	standaard
B31	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N25 N28	Tussenligger (0) standaard
B32	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N28 N29	Tussenligger (0) standaard
B40	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N27 N39	Tussenligger (0) standaard
B44	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N39 N38	Tussenligger (0) standaard
B45	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N37 N42	Tussenligger (0) standaard
B46	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N38 N37	Tussenligger (0) standaard
B1563	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N161 N251	Tussenligger (0) standaard
B1564	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N520 N517	Tussenligger (0) standaard
B1565	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N531 N528	Tussenligger (0) standaard
B1566	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N542 N539	Tussenligger (0) standaard
B1567	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N553 N550	Tussenligger (0) standaard
B1568	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N564 N561	Tussenligger (0) standaard
B1569	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N168 N258	Tussenligger (0) standaard
B440	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N411 N412	Tussenligger (0) standaard
B441	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N413 N414	Tussenligger (0) standaard
B442	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N415 N413	Tussenligger (0) standaard
B443	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N412 N415	Tussenligger (0) standaard
B444	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N414 N416	Tussenligger (0) standaard
B445	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N416 N417	Tussenligger (0) standaard
B446	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N419 N418	Tussenligger (0) standaard
B447	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N417 N419	Tussenligger (0) standaard
B448	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N420 N421	Tussenligger (0) standaard
B449	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N421 N422	Tussenligger (0) standaard
B450	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N422 N423	Tussenligger (0) standaard
B451	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N423 N424	Tussenligger (0) standaard
B452	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N424 N425	Tussenligger (0) standaard
B453	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N425 N426	Tussenligger (0) standaard
B454	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N426 N427	Tussenligger (0) standaard
B455	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N427 N428	Tussenligger (0) standaard
B456	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N429 N430	Tussenligger (0) standaard
B457	CS40 - RRO160X80X4.5	Facade	1,150	Lijn	N741 N431	Tussenligger (0) standaard
B458	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N431 N432	Tussenligger (0) standaard
B459	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N432 N433	Tussenligger (0) standaard
B460	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N433 N434	Tussenligger (0) standaard
B461	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N434 N31	Tussenligger (0) standaard
B462	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N31 N436	Tussenligger (0) standaard
B463	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N436 N437	Tussenligger (0) standaard



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B464	CS40 - RRO160X80X4.5	Facade	1,800	Lijn	N752 N438	Tussenligger (0) standaard
B466	CS40 - RRO160X80X4.5	Facade	3,045	Lijn	N441 N748	Tussenligger (0) standaard
B467	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N442 N441	Tussenligger (0) standaard
B468	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N443 N442	Tussenligger (0) standaard
B469	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N444 N443	Tussenligger (0) standaard
B470	CS40 - RRO160X80X4.5	Facade	1,150	Lijn	N742 N444	Tussenligger (0) standaard
B471	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N446 N445	Tussenligger (0) standaard
B472	CS40 - RRO160X80X4.5	Facade	1,800	Lijn	N753 N447	Tussenligger (0) standaard
B474	CS40 - RRO160X80X4.5	Facade	3,045	Lijn	N450 N749	Tussenligger (0) standaard
B475	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N451 N450	Tussenligger (0) standaard
B476	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N452 N451	Tussenligger (0) standaard
B477	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N453 N452	Tussenligger (0) standaard
B478	CS40 - RRO160X80X4.5	Facade	1,150	Lijn	N743 N453	Tussenligger (0) standaard
B479	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N455 N454	Tussenligger (0) standaard
B480	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N331 N456	Tussenligger (0) standaard
B481	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N457 N458	Tussenligger (0) standaard
B482	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N459 N457	Tussenligger (0) standaard
B483	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N456 N459	Tussenligger (0) standaard
B484	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N458 N460	Tussenligger (0) standaard
B485	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N460 N461	Tussenligger (0) standaard
B486	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N463 N462	Tussenligger (0) standaard
B487	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N461 N463	Tussenligger (0) standaard
B488	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N464 N465	Tussenligger (0) standaard
B489	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N466 N467	Tussenligger (0) standaard
B490	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N468 N466	Tussenligger (0) standaard
B491	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N465 N468	Tussenligger (0) standaard
B492	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N467 N469	Tussenligger (0) standaard
B493	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N469 N470	Tussenligger (0) standaard
B494	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N472 N471	Tussenligger (0) standaard
B495	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N470 N472	Tussenligger (0) standaard
B496	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N473 N474	Tussenligger (0) standaard
B497	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N474 N475	Tussenligger (0) standaard
B498	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N475 N476	Tussenligger (0) standaard
B499	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N476 N477	Tussenligger (0) standaard
B500	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N477 N478	Tussenligger (0) standaard
B501	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N478 N479	Tussenligger (0) standaard
B502	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N479 N480	Tussenligger (0) standaard
B503	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N480	Tussenligger (0)



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
					N481	standaard
B504	CS40 - RRO160X80X4.5	Facade	3,625	Lijn	N482 N483	Tussenligger (0) standaard
B506	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N484 N485	Tussenligger (0) standaard
B507	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N485 N486	Tussenligger (0) standaard
B508	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N486 N487	Tussenligger (0) standaard
B509	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N487 N488	Tussenligger (0) standaard
B510	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N488 N489	Tussenligger (0) standaard
B511	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N489 N490	Tussenligger (0) standaard
B512	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N492 N491	Tussenligger (0) standaard
B513	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N493 N492	Tussenligger (0) standaard
B514	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N494 N493	Tussenligger (0) standaard
B515	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N495 N494	Tussenligger (0) standaard
B516	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N496 N495	Tussenligger (0) standaard
B517	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N497 N496	Tussenligger (0) standaard
B518	CS40 - RRO160X80X4.5	Facade	0,375	Lijn	N722 N497	Tussenligger (0) standaard
B519	CS40 - RRO160X80X4.5	Facade	3,625	Lijn	N499 N498	Tussenligger (0) standaard
B520	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N501 N500	Tussenligger (0) standaard
B521	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N502 N501	Tussenligger (0) standaard
B522	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N503 N502	Tussenligger (0) standaard
B523	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N504 N503	Tussenligger (0) standaard
B524	CS40 - RRO160X80X4.5	Facade	6,750	Lijn	N505 N504	Tussenligger (0) standaard
B525	CS40 - RRO160X80X4.5	Facade	0,315	Lijn	N506 N1826	Tussenligger (0) standaard
B526	CS40 - RRO160X80X4.5	Facade	0,375	Lijn	N507 N506	Tussenligger (0) standaard
B527	CS40 - RRO160X80X4.5	Facade	3,625	Lijn	N508 N717	Tussenligger (0) standaard
B544	CS40 - RRO160X80X4.5	Facade	8,335	Lijn	N251 N241	Tussenligger (0) standaard
B545	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N333 N331	Tussenligger (0) standaard
B546	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N241 N341	Tussenligger (0) standaard
B547	CS40 - RRO160X80X4.5	Facade	8,331	Lijn	N341 N333	Tussenligger (0) standaard
B548	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N26 N161	Tussenligger (0) standaard
B549	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N44 N26	Tussenligger (0) standaard
B550	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N25 N52	Tussenligger (0) standaard
B551	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N52 N44	Tussenligger (0) standaard
B552	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N513 N464	Tussenligger (0) standaard
B553	CS40 - RRO160X80X4.5	Facade	8,331	Lijn	N514 N513	Tussenligger (0) standaard
B554	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N515 N514	Tussenligger (0) standaard
B556	CS40 - RRO160X80X4.5	Facade	8,335	Lijn	N517 N515	Tussenligger (0) standaard
B560	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N521 N520	Tussenligger (0) standaard
B561	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N522 N521	Tussenligger (0) standaard



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B562	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N523 N522	Tussenligger (0) standaard
B563	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N411 N523	Tussenligger (0) standaard
B564	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N524 N473	Tussenligger (0) standaard
B565	CS40 - RRO160X80X4.5	Facade	8,331	Lijn	N525 N524	Tussenligger (0) standaard
B566	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N526 N525	Tussenligger (0) standaard
B568	CS40 - RRO160X80X4.5	Facade	8,335	Lijn	N528 N526	Tussenligger (0) standaard
B572	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N532 N531	Tussenligger (0) standaard
B573	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N533 N532	Tussenligger (0) standaard
B574	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N534 N533	Tussenligger (0) standaard
B575	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N420 N534	Tussenligger (0) standaard
B576	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N535 N482	Tussenligger (0) standaard
B577	CS46 - RRO160X80X5K	Facade	8,331	Lijn	N536 N535	Tussenligger (0) standaard
B578	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N537 N536	Tussenligger (0) standaard
B580	CS46 - RRO160X80X5K	Facade	8,335	Lijn	N539 N537	Tussenligger (0) standaard
B584	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N543 N542	Tussenligger (0) standaard
B585	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N544 N543	Tussenligger (0) standaard
B586	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N545 N544	Tussenligger (0) standaard
B587	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N429 N545	Tussenligger (0) standaard
B588	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N546 N499	Tussenligger (0) standaard
B589	CS46 - RRO160X80X5K	Facade	8,331	Lijn	N547 N546	Tussenligger (0) standaard
B590	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N548 N547	Tussenligger (0) standaard
B592	CS46 - RRO160X80X5K	Facade	8,335	Lijn	N550 N548	Tussenligger (0) standaard
B596	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N554 N553	Tussenligger (0) standaard
B597	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N555 N554	Tussenligger (0) standaard
B598	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N556 N555	Tussenligger (0) standaard
B599	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N446 N556	Tussenligger (0) standaard
B600	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N557 N508	Tussenligger (0) standaard
B602	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N559 N558	Tussenligger (0) standaard
B604	CS40 - RRO160X80X4.5	Facade	8,335	Lijn	N561 N559	Tussenligger (0) standaard
B608	CS40 - RRO160X80X4.5	Facade	6,633	Lijn	N565 N1348	Tussenligger (0) standaard
B610	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N567 N566	Tussenligger (0) standaard
B611	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N455 N567	Tussenligger (0) standaard
B612	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N418 N59	Tussenligger (0) standaard
B613	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N59 N60	Tussenligger (0) standaard
B614	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N60 N61	Tussenligger (0) standaard
B615	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N61 N168	Tussenligger (0) standaard
B619	CS46 - RRO160X80X5K	Facade	8,335	Lijn	N258 N259	Tussenligger (0) standaard
B621	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N259	Tussenligger (0)

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N348		standaard
B622	CS46 - RRO160X80X5K	Facade	8,331	Lijn	N348		Tussenligger (0)
					N349		standaard
B623	CS46 - RRO160X80X5K	Facade	8,333	Lijn	N349		Tussenligger (0)
					N471		standaard
B673	CS40 - RRO160X80X4.5	Facade	6,550	Lijn	N1282		Tussenligger (0)
					N626		standaard
B674	CS40 - RRO160X80X4.5	Facade	6,550	Lijn	N428		Tussenligger (0)
					N1842		standaard
B675	CS40 - RRO160X80X4.5	Facade	6,550	Lijn	N1292		Tussenligger (0)
					N628		standaard
B676	CS40 - RRO160X80X4.5	Facade	6,550	Lijn	N490		Tussenligger (0)
					N629		standaard
B677	CS40 - RRO160X80X4.5	Facade	6,550	Polylijn	N491		Tussenligger (0)
					N630		standaard
B678	CS40 - RRO160X80X4.5	Facade	4,560	Lijn	N733		Tussenligger (0)
					N631		standaard
B943	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N701		Tussenligger (0)
					N702		standaard
B944	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N703		Tussenligger (0)
					N704		standaard
B945	CS40 - RRO160X80X4.5	Facade	2,589	Lijn	N706		Tussenligger (0)
					N557		standaard
B948	CS40 - RRO160X80X4.5	Facade	8,333	Lijn	N566		Tussenligger (0)
					N565		standaard
B952	CS40 - RRO160X80X4.5	Facade	5,000	Lijn	N720		Tussenligger (0)
					N721		standaard
B954	CS40 - RRO160X80X4.5	Facade	0,375	Lijn	N724		Tussenligger (0)
					N484		standaard
B955	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N729		Tussenligger (0)
					N730		standaard
B956	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N731		Tussenligger (0)
					N732		standaard
B957	CS40 - RRO160X80X4.5	Facade	0,790	Lijn	N734		Tussenligger (0)
					N500		standaard
B958	CS40 - RRO160X80X4.5	Facade	6,100	Lijn	N735		Tussenligger (0)
					N736		standaard
B959	CS40 - RRO160X80X4.5	Facade	6,100	Lijn	N737		Tussenligger (0)
					N738		standaard
B960	CS40 - RRO160X80X4.5	Facade	5,200	Lijn	N739		Tussenligger (0)
					N740		standaard
B1667	CS40 - RRO160X80X4.5	Facade	4,542	Lijn	N558		Tussenligger (0)
					N1343		standaard
B1668	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N1344		Tussenligger (0)
					N1347		standaard
B1669	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N1345		Tussenligger (0)
					N1346		standaard
B2264	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N1822		Tussenligger (0)
					N1823		standaard
B2265	CS40 - RRO160X80X4.5	Facade	2,475	Lijn	N1824		Tussenligger (0)
					N1825		standaard
B2266	CS40 - RRO160X80X4.5	Facade	5,235	Lijn	N1827		Tussenligger (0)
					N505		standaard
B2269	CS40 - RRO160X80X4.5	Facade	5,000	Lijn	N1831		Tussenligger (0)
					N1832		standaard
B2273	CS40 - RRO160X80X4.5	Facade	3,500	Lijn	N723		Balk (80)
					N1839		standaard
B2275	CS40 - RRO160X80X4.5	Facade	3,375	Lijn	N1839		Balk (80)
					N1837		standaard
B2276	CS40 - RRO160X80X4.5	Facade	3,375	Lijn	N1837		Balk (80)
					N1834		standaard
B2280	CS40 - RRO160X80X4.5	Facade	6,550	Lijn	N481		Tussenligger (0)
					N1843		standaard

#### 6.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd

Selectie : Benoemde selectie - Facade

Klasse : ULS-NL

Staat	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B26	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	1,914	-0,438	0,000	0,000
B26	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	1,914	-0,343	0,000	0,000
B26	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,022	0,000	0,000
B26	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,022	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B26	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	<b>-0,854</b>	0,000	0,000
B26	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	0,923	0,000	0,000
B26	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	<b>0,925</b>	0,000	0,000
B26	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,854	<b>-8,398</b>	1,068
B26	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,923	<b>8,398</b>	1,068
B26	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	-0,849	0,000	<b>0,000</b>
B26	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,022	0,000	<b>1,202</b>
B30	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,063	-0,517	0,000	0,000
B30	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	1,914	-0,291	0,000	0,000
B30	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,004	0,000	0,000
B30	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,004	0,000	0,000
B30	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,738	0,000	0,000
B30	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	0,789	0,000	0,000
B30	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,782</b>	0,000	0,000
B30	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	<b>0,796</b>	0,000	0,000
B30	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,738	<b>-8,398</b>	1,068
B30	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,789	<b>8,398</b>	1,068
B30	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	-3,063	-0,509	0,000	<b>0,000</b>
B30	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,004	0,000	<b>1,202</b>
B31	CS40 - RRO160X80X4.5	0,000	NC4	<b>0,000</b>	0,633	-4,328	0,801	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC6	<b>0,000</b>	0,633	-1,914	0,371	0,000	0,000
B31	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,002	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,002	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	0,838	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	-0,881	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	4,976	<b>-0,885</b>	0,000	0,000
B31	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>0,855</b>	0,000	<b>0,000</b>
B31	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,838	<b>-8,398</b>	1,068
B31	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,881	<b>8,398</b>	1,068
B31	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,002	0,000	<b>1,202</b>
B32	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,063	0,599	0,000	0,000
B32	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	1,914	0,398	0,000	0,000
B32	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,002	0,000	0,000
B32	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,002	0,000	0,000
B32	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	<b>0,693</b>	0,000	0,000
B32	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	-0,767	0,000	0,000
B32	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	<b>-0,770</b>	0,000	0,000
B32	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,693	<b>-8,398</b>	1,068
B32	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,767	<b>8,398</b>	1,068
B32	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	-3,063	0,603	0,000	<b>0,000</b>
B32	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,002	0,000	<b>1,202</b>
B40	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	1,914	0,207	0,000	0,000
B40	CS40 - RRO160X80X4.5	4,050	NC16	<b>0,000</b>	-0,095	-0,995	-1,005	8,062	0,769
B40	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,023	0,000	0,000
B40	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,023	0,000	0,000
B40	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	<b>0,753</b>	0,000	0,000
B40	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>-1,013</b>	0,000	0,000
B40	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,753	<b>-8,398</b>	1,068
B40	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-1,013	<b>8,398</b>	1,068
B40	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	4,976	-1,005	0,000	<b>0,000</b>
B40	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,023	0,000	<b>1,202</b>
B44	CS40 - RRO160X80X4.5	0,000	NC15	<b>0,000</b>	0,475	4,976	<b>-0,359</b>	0,000	0,000
B44	CS40 - RRO160X80X4.5	1,350	NC2	<b>0,000</b>	0,380	0,000	-0,038	0,000	0,684
B44	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,015	0,000	0,000
B44	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,015	0,000	0,000
B44	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	0,425	0,000	0,000
B44	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	-0,354	0,000	0,000
B44	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>0,525</b>	0,000	0,000
B44	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,425	<b>-8,398</b>	1,068
B44	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,354	<b>8,398</b>	1,068
B44	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	-0,359	0,000	<b>0,000</b>
B44	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,015	0,000	<b>1,202</b>
B45	CS40 - RRO160X80X4.5	6,750	NC2	<b>0,000</b>	-0,633	0,000	-0,034	0,000	0,000
B45	CS40 - RRO160X80X4.5	0,000	NC7	<b>0,000</b>	0,633	<b>4,976</b>	0,574	0,000	0,000
B45	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,017	0,000	0,000
B45	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,017	0,000	0,000
B45	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,291	0,000	0,000
B45	CS40 - RRO160X80X4.5	0,000	NC10	0,000	0,633	-4,976	<b>-0,306</b>	0,000	0,000
B45	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	4,976	<b>0,596</b>	0,000	0,000
B45	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,291	<b>-8,398</b>	1,068
B45	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,574	<b>8,398</b>	1,068
B45	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	-3,568	0,022	0,000	<b>0,000</b>
B45	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,017	0,000	<b>1,202</b>
B46	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	1,914	-0,335	0,000	0,000
B46	CS40 - RRO160X80X4.5	0,000	NC2	<b>0,000</b>	0,633	0,000	0,024	0,000	<b>0,000</b>
B46	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,009	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B46	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,009	0,000	0,000
B46	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,496	0,000	0,000
B46	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>0,797</b>	0,000	0,000
B46	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,513</b>	0,000	0,000
B46	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,496	<b>-8,398</b>	1,068
B46	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,797	<b>8,398</b>	1,068
B46	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,009	0,000	<b>1,202</b>
B1563	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-2,375	-0,012	0,000	0,000
B1563	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,362	0,037	0,000	0,000
B1563	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,020	0,000	0,000
B1563	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,020	0,000	0,000
B1563	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	0,011	0,000	0,000
B1563	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	0,004	0,000	0,000
B1563	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	2,375	<b>-0,025</b>	0,000	0,000
B1563	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,782	0,000	<b>0,050</b>	0,000	0,000
B1563	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,011	<b>-12,851</b>	1,628
B1563	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,004	<b>12,851</b>	1,628
B1563	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	2,362	0,025	0,000	<b>0,000</b>
B1563	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,020	0,000	<b>1,832</b>
B1564	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-6,400	-0,011	0,000	0,000
B1564	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	0,043	0,000	0,000
B1564	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,022	0,000	0,000
B1564	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,022	0,000	0,000
B1564	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,218</b>	0,012	0,000	0,000
B1564	CS40 - RRO160X80X4.5	8,333	NC3	0,000	-0,782	<b>8,218</b>	0,012	0,000	0,000
B1564	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	6,400	<b>-0,024</b>	0,000	0,000
B1564	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,782	0,000	<b>0,055</b>	0,000	0,000
B1564	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,012	<b>-17,121</b>	1,628
B1564	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,006	<b>15,181</b>	1,628
B1564	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	4,500	0,029	0,000	<b>0,000</b>
B1564	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,022	0,000	<b>1,832</b>
B1565	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-7,656</b>	-0,009	0,000	0,000
B1565	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-3,112	0,046	0,000	0,000
B1565	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,024	0,000	0,000
B1565	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,024	0,000	0,000
B1565	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,656</b>	-0,009	0,000	0,000
B1565	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	7,656	<b>-0,023</b>	0,000	0,000
B1565	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,782	0,000	<b>0,058</b>	0,000	0,000
B1565	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,012	<b>-10,390</b>	1,628
B1565	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,009	<b>15,949</b>	1,628
B1565	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	3,112	0,031	0,000	<b>0,000</b>
B1565	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,024	0,000	<b>1,832</b>
B1566	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-9,506</b>	-0,006	0,000	0,000
B1566	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-3,894	0,049	0,000	0,000
B1566	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,026	0,000	0,000
B1566	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,026	0,000	0,000
B1566	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,506</b>	-0,006	0,000	0,000
B1566	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	9,506	<b>-0,022</b>	0,000	0,000
B1566	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,065</b>	0,000	0,000
B1566	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,010	<b>-13,436</b>	1,776
B1566	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	-0,006	<b>19,803</b>	1,776
B1566	CS46 - RRO160X80X5K	0,000	NC17	0,000	0,639	3,894	0,033	0,000	<b>0,000</b>
B1566	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,026	0,000	<b>1,998</b>
B1567	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-11,406</b>	0,004	0,000	0,000
B1567	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-4,669	0,043	0,000	0,000
B1567	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,027	0,000	0,000
B1567	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,027	0,000	0,000
B1567	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,406</b>	0,004	0,000	0,000
B1567	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-7,481	<b>-0,016</b>	0,000	0,000
B1567	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,066</b>	0,000	0,000
B1567	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,003	<b>-15,585</b>	1,776
B1567	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,004	<b>23,761</b>	1,776
B1567	CS46 - RRO160X80X5K	0,000	NC17	0,000	0,639	4,669	0,027	0,000	<b>0,000</b>
B1567	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,027	0,000	<b>1,998</b>
B1568	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-6,956</b>	0,026	0,000	0,000
B1568	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,850	0,041	0,000	0,000
B1568	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,025	0,000	0,000
B1568	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,025	0,000	0,000
B1568	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>6,956</b>	0,026	0,000	0,000
B1568	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-4,556	<b>-0,030</b>	0,000	0,000
B1568	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,782	0,000	<b>0,061</b>	0,000	0,000
B1568	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,012	<b>-9,491</b>	1,628
B1568	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,026	<b>14,491</b>	1,628
B1568	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	2,850	0,026	0,000	<b>0,000</b>
B1568	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,025	0,000	<b>1,832</b>
B1569	CS46 - RRO160X80X5K	8,333	NC16	<b>0,000</b>	-0,639	2,712	-0,504	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1569	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	-0,019	0,000	0,000
B1569	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,243	0,000	0,000
B1569	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,243	0,000	0,000
B1569	CS46 - RRO160X80X5K	8,333	NC5	0,000	-0,853	<b>-4,469</b>	-0,135	0,000	0,000
B1569	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,469</b>	-0,135	0,000	0,000
B1569	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	-2,712	<b>-0,504</b>	0,000	0,000
B1569	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,611</b>	0,000	0,000
B1569	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,305	<b>-5,820</b>	1,776
B1569	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	-0,135	<b>9,309</b>	1,776
B1569	CS46 - RRO160X80X5K	0,000	NC15	0,000	0,639	-2,712	-0,502	0,000	<b>0,000</b>
B1569	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,243	0,000	<b>1,998</b>
B440	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	5,599	0,506	0,000	0,000
B440	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,012	0,277	0,000	0,000
B440	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,003	0,000	0,000
B440	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,003	0,000	0,000
B440	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-6,781</b>	0,506	0,000	0,000
B440	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	-0,637	0,000	0,000
B440	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	6,657	<b>-0,641</b>	0,000	0,000
B440	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-5,903	<b>0,613</b>	0,000	<b>0,000</b>
B440	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,448	0,506	<b>-10,688</b>	1,068
B440	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,637	<b>11,234</b>	1,068
B440	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,003	0,000	<b>1,202</b>
B441	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,012	-0,449	0,000	0,000
B441	CS40 - RRO160X80X4.5	0,000	NC4	<b>0,000</b>	0,633	-3,012	-0,449	0,000	0,000
B441	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,026	0,000	0,000
B441	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,026	0,000	0,000
B441	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	0,860	0,000	0,000
B441	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	0,860	0,000	0,000
B441	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-5,903	<b>-0,773</b>	0,000	0,000
B441	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,657	<b>0,862</b>	0,000	0,000
B441	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,773	<b>-9,961</b>	1,068
B441	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,860	<b>11,234</b>	1,068
B441	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-5,903	-0,765	0,000	<b>0,000</b>
B441	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,026	0,000	<b>1,202</b>
B442	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	4,819	-0,316	0,000	0,000
B442	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,012	-0,126	0,000	0,000
B442	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B442	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B442	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	0,406	0,000	0,000
B442	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	0,406	0,000	0,000
B442	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-5,903	<b>-0,427</b>	0,000	0,000
B442	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,657	<b>0,414</b>	0,000	0,000
B442	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,381	<b>-9,961</b>	1,068
B442	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,406	<b>11,234</b>	1,068
B442	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	-4,819	-0,307	0,000	<b>0,000</b>
B442	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B443	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	4,819	0,310	0,000	0,000
B443	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,012	0,238	0,000	0,000
B443	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B443	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B443	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	-0,385	0,000	0,000
B443	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	-0,385	0,000	0,000
B443	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,657	<b>-0,388</b>	0,000	0,000
B443	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-5,903	<b>0,334</b>	0,000	0,000
B443	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,334	<b>-9,961</b>	1,068
B443	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,385	<b>11,234</b>	1,068
B443	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	-4,819	0,314	0,000	<b>0,000</b>
B443	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B444	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,012	0,173	0,000	0,000
B444	CS40 - RRO160X80X4.5	6,750	NC7	<b>0,000</b>	-0,633	<b>-6,657</b>	-0,961	0,000	0,000
B444	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,026	0,000	0,000
B444	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,026	0,000	0,000
B444	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	<b>-0,961</b>	0,000	0,000
B444	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-5,903	<b>0,669</b>	0,000	0,000
B444	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,669	<b>-9,961</b>	1,068
B444	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,961	<b>11,234</b>	1,068
B444	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	-3,012	0,276	0,000	<b>0,000</b>
B444	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,026	0,000	<b>1,202</b>
B445	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,012	-0,022	0,000	0,000
B445	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-6,657	-0,023	0,000	0,000
B445	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,015	0,000	0,000
B445	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,015	0,000	0,000
B445	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	-0,018	0,000	0,000
B445	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	-0,018	0,000	0,000
B445	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>-0,039</b>	0,000	0,000
B445	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-5,903	<b>0,229</b>	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B445	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,119	<b>-9,961</b>	1,068
B445	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,018	<b>11,234</b>	1,068
B445	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,657	-0,023	0,000	<b>0,000</b>
B445	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,015	0,000	<b>1,202</b>
B446	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,012	-0,231	0,000	0,000
B446	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-6,657	0,739	0,000	0,000
B446	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,019	0,000	0,000
B446	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,019	0,000	0,000
B446	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	0,715	0,000	0,000
B446	CS40 - RRO160X80X4.5	6,750	NC5	0,000	-0,633	<b>6,784</b>	0,026	0,000	0,000
B446	CS40 - RRO160X80X4.5	0,000	NC10	0,000	0,633	-5,903	<b>-0,433</b>	0,000	0,000
B446	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	6,657	<b>0,740</b>	0,000	0,000
B446	CS40 - RRO160X80X4.5	3,375	NC5	0,000	0,000	-0,445	0,026	<b>-10,698</b>	1,068
B446	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,715	<b>11,234</b>	1,068
B446	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,657	0,739	0,000	<b>0,000</b>
B446	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,019	0,000	<b>1,202</b>
B447	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,475	6,657	0,488	0,000	0,000
B447	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-6,657	0,488	0,000	0,000
B447	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,011	0,000	0,000
B447	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,011	0,000	0,000
B447	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,657</b>	0,499	0,000	0,000
B447	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,657</b>	<b>0,499</b>	0,000	0,000
B447	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	-4,819	<b>-0,268</b>	0,000	0,000
B447	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,216	<b>-9,961</b>	1,068
B447	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,499	<b>11,234</b>	1,068
B447	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	0,029	0,000	<b>0,000</b>
B447	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,011	0,000	<b>1,202</b>
B448	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	<b>4,694</b>	-0,089	0,000	0,000
B448	CS40 - RRO160X80X4.5	6,750	NC8	<b>0,000</b>	-0,633	-4,035	-0,002	0,000	0,000
B448	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,003	0,000	0,000
B448	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,003	0,000	0,000
B448	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-5,684</b>	-0,089	0,000	0,000
B448	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	-5,684	<b>-0,092</b>	0,000	0,000
B448	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,521	<b>0,027</b>	0,000	<b>0,000</b>
B448	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,375	-0,089	<b>-8,959</b>	1,068
B448	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,002	<b>6,809</b>	1,068
B448	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,003	0,000	<b>1,202</b>
B449	CS40 - RRO160X80X4.5	0,000	NC5	<b>-0,011</b>	-1,014	-6,368	0,119	0,000	0,000
B449	CS40 - RRO160X80X4.5	0,000	NC3	<b>0,014</b>	-2,082	-9,579	0,125	0,000	0,000
B449	CS40 - RRO160X80X4.5	0,400	NC3	0,014	<b>-2,158</b>	-9,174	0,125	-3,751	<b>-0,848</b>
B449	CS40 - RRO160X80X4.5	0,400	NC3	0,004	<b>0,615</b>	-3,706	0,128	-2,521	-0,848
B449	CS40 - RRO160X80X4.5	0,000	NC4	0,014	-2,078	<b>-9,579</b>	0,124	0,000	0,000
B449	CS40 - RRO160X80X4.5	0,000	NC7	0,000	-0,832	<b>9,540</b>	-0,150	0,000	0,000
B449	CS40 - RRO160X80X4.5	0,000	NC16	0,000	-0,535	9,537	<b>-0,153</b>	0,000	0,000
B449	CS40 - RRO160X80X4.5	0,000	NC9	0,000	-0,962	-6,405	<b>0,142</b>	0,000	0,000
B449	CS40 - RRO160X80X4.5	4,560	NC4	0,004	-0,166	0,499	0,127	<b>-9,192</b>	0,086
B449	CS40 - RRO160X80X4.5	4,560	NC7	0,000	-0,287	-0,479	-0,150	<b>9,163</b>	0,079
B449	CS40 - RRO160X80X4.5	3,520	NC8	0,000	-0,092	0,571	-0,150	9,115	<b>0,276</b>
B450	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	<b>4,040</b>	-0,117	0,000	0,000
B450	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	2,521	-0,009	0,000	0,000
B450	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B450	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B450	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-4,040</b>	-0,117	0,000	0,000
B450	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,521	<b>-0,240</b>	0,000	0,000
B450	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,035	<b>0,190</b>	0,000	0,000
B450	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,117	<b>-6,817</b>	1,068
B450	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,182	<b>6,809</b>	1,068
B450	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	-4,040	-0,108	0,000	<b>0,000</b>
B450	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B451	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	2,521	-0,189	0,000	0,000
B451	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	2,521	-0,067	0,000	0,000
B451	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,028	0,000	0,000
B451	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,028	0,000	0,000
B451	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-4,035</b>	0,343	0,000	0,000
B451	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,035</b>	0,343	0,000	0,000
B451	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-2,521	<b>-0,296</b>	0,000	0,000
B451	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,035	<b>0,344</b>	0,000	0,000
B451	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,189	<b>-4,254</b>	1,068
B451	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,343	<b>6,809</b>	1,068
B451	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,521	-0,288	0,000	<b>0,000</b>
B451	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,028	0,000	<b>1,202</b>
B452	CS40 - RRO160X80X4.5	1,350	NC8	<b>0,000</b>	0,380	2,421	-0,364	4,358	0,684
B452	CS40 - RRO160X80X4.5	6,750	NC7	<b>0,000</b>	-0,633	<b>-4,035</b>	-0,365	0,000	0,000
B452	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,028	0,000	0,000
B452	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,028	0,000	0,000
B452	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,035</b>	<b>-0,365</b>	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B452	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-2,521	<b>0,184</b>	0,000	0,000
B452	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,046	<b>-4,254</b>	1,068
B452	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,365	<b>6,809</b>	1,068
B452	CS40 - RRO160X80X4.5	3,375	NC14	0,000	0,475	-2,521	0,045	0,000	<b>0,000</b>
B452	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,028	0,000	<b>1,202</b>
B453	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,475	4,035	0,047	0,000	<b>0,000</b>
B453	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-4,035	0,047	0,000	0,000
B453	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,015	0,000	0,000
B453	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,015	0,000	0,000
B453	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-4,035</b>	0,053	0,000	0,000
B453	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,035</b>	0,053	0,000	0,000
B453	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	-2,521	<b>-0,096</b>	0,000	0,000
B453	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,521	<b>0,094</b>	0,000	0,000
B453	CS40 - RRO160X80X4.5	3,375	NC5	0,000	0,000	0,128	-0,047	<b>-6,189</b>	1,068
B453	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,053	<b>6,809</b>	1,068
B453	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,015	0,000	<b>1,202</b>
B454	CS40 - RRO160X80X4.5	0,000	NC8	<b>0,000</b>	0,633	4,035	<b>0,288</b>	0,000	0,000
B454	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-4,035	0,277	0,000	0,000
B454	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,011	0,000	0,000
B454	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,011	0,000	0,000
B454	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-4,035</b>	0,288	0,000	0,000
B454	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,035</b>	0,288	0,000	0,000
B454	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	-3,412	<b>-0,101</b>	0,000	0,000
B454	CS40 - RRO160X80X4.5	3,375	NC5	0,000	0,000	0,000	-0,100	<b>-5,758</b>	1,068
B454	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,288	<b>6,809</b>	1,068
B454	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	0,029	0,000	<b>0,000</b>
B454	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,011	0,000	<b>1,202</b>
B455	CS40 - RRO160X80X4.5	0,000	NC7	<b>0,000</b>	0,633	4,035	0,289	0,000	0,000
B455	CS40 - RRO160X80X4.5	6,750	NC16	<b>0,000</b>	-0,475	-4,035	0,310	0,000	0,000
B455	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,016	0,000	0,000
B455	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,016	0,000	0,000
B455	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,633	<b>-4,273</b>	0,261	0,000	0,000
B455	CS40 - RRO160X80X4.5	6,750	NC5	0,000	-0,633	<b>5,571</b>	0,261	0,000	0,000
B455	CS40 - RRO160X80X4.5	0,000	NC10	0,000	0,633	-2,521	<b>-0,137</b>	0,000	0,000
B455	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	4,035	<b>0,311</b>	0,000	0,000
B455	CS40 - RRO160X80X4.5	3,375	NC5	0,000	0,000	-0,489	0,261	<b>-8,577</b>	1,068
B455	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,289	<b>6,809</b>	1,068
B455	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,035	0,310	0,000	<b>0,000</b>
B455	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,016	0,000	<b>1,202</b>
B456	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	<b>5,865</b>	-0,198	0,000	0,000
B456	CS40 - RRO160X80X4.5	0,000	NC7	<b>0,000</b>	0,633	5,052	<b>0,158</b>	0,000	0,000
B456	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,003	0,000	0,000
B456	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,003	0,000	0,000
B456	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-7,104</b>	-0,198	0,000	0,000
B456	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	-7,104	<b>-0,201</b>	0,000	0,000
B456	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,470	-0,198	<b>-11,196</b>	1,068
B456	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,158	<b>8,526</b>	1,068
B456	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-3,154	-0,112	0,000	<b>0,000</b>
B456	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,003	0,000	<b>1,202</b>
B457	CS40 - RRO160X80X4.5	1,150	NC3	<b>0,000</b>	-0,108	0,860	-0,315	0,000	0,000
B457	CS40 - RRO160X80X4.5	1,150	NC5	<b>0,000</b>	-0,108	0,537	-0,114	0,000	0,000
B457	CS40 - RRO160X80X4.5	1,150	NC1	0,000	<b>-0,121</b>	0,000	0,004	0,000	0,000
B457	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,121</b>	0,000	0,004	0,000	0,000
B457	CS40 - RRO160X80X4.5	1,150	NC7	0,000	-0,108	<b>-0,861</b>	0,316	0,000	0,000
B457	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,108	<b>0,861</b>	0,316	0,000	0,000
B457	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,108	-0,860	<b>-0,316</b>	0,000	0,000
B457	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,081	0,861	<b>0,316</b>	0,000	0,000
B457	CS40 - RRO160X80X4.5	0,460	NC3	0,000	0,022	-0,172	-0,315	<b>-0,237</b>	0,030
B457	CS40 - RRO160X80X4.5	0,460	NC7	0,000	0,022	0,172	0,316	<b>0,238</b>	0,030
B457	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,081	0,861	0,316	0,000	<b>0,000</b>
B457	CS40 - RRO160X80X4.5	0,460	NC1	0,000	0,024	0,000	0,004	0,000	<b>0,033</b>
B458	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	5,047	0,041	0,000	0,000
B458	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,154	0,064	0,000	0,000
B458	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B458	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B458	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-5,052</b>	0,039	0,000	0,000
B458	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>5,052</b>	0,039	0,000	0,000
B458	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-3,154	<b>-0,112</b>	0,000	0,000
B458	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	-3,154	<b>0,065</b>	0,000	0,000
B458	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	0,041	<b>-8,517</b>	1,068
B458	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,039	<b>8,526</b>	1,068
B458	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	-5,047	0,051	0,000	<b>0,000</b>
B458	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B459	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,154	-0,024	0,000	0,000
B459	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,154	0,044	0,000	0,000
B459	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,029	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B459	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,029	0,000	0,000
B459	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-5,052</b>	0,134	0,000	0,000
B459	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>5,052</b>	0,134	0,000	0,000
B459	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-3,154	<b>-0,126</b>	0,000	0,000
B459	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	5,052	<b>0,135</b>	0,000	0,000
B459	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,024	<b>-5,322</b>	1,068
B459	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,134	<b>8,526</b>	1,068
B459	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-3,154	-0,116	0,000	<b>0,000</b>
B459	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,029	0,000	<b>1,202</b>
B460	CS40 - RRO160X80X4.5	2,700	NC15	<b>0,000</b>	0,095	1,010	-0,010	8,185	0,769
B460	CS40 - RRO160X80X4.5	4,050	NC3	<b>0,000</b>	-0,127	0,631	-0,106	-5,109	1,026
B460	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,029	0,000	0,000
B460	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,029	0,000	0,000
B460	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-5,052</b>	-0,017	0,000	0,000
B460	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>5,052</b>	-0,017	0,000	0,000
B460	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	-3,154	<b>-0,107</b>	0,000	0,000
B460	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-3,154	<b>0,044</b>	0,000	0,000
B460	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,106	<b>-5,322</b>	1,068
B460	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,017	<b>8,526</b>	1,068
B460	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	-3,154	-0,042	0,000	<b>0,000</b>
B460	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,029	0,000	<b>1,202</b>
B461	CS40 - RRO160X80X4.5	0,000	NC3	<b>-4,394</b>	-0,033	-1,174	-0,015	0,000	0,000
B461	CS40 - RRO160X80X4.5	0,000	NC16	<b>8,382</b>	0,456	1,863	-0,259	0,000	0,000
B461	CS40 - RRO160X80X4.5	3,045	NC2	-3,675	<b>-1,120</b>	-0,012	-0,037	-0,037	<b>-2,542</b>
B461	CS40 - RRO160X80X4.5	3,045	NC2	0,000	<b>1,034</b>	0,010	-0,037	-0,037	-2,542
B461	CS40 - RRO160X80X4.5	3,045	NC16	8,382	0,027	<b>-2,696</b>	-0,259	<b>-1,268</b>	0,736
B461	CS40 - RRO160X80X4.5	3,045	NC6	2,969	-0,361	<b>2,666</b>	0,037	<b>1,184</b>	-0,230
B461	CS40 - RRO160X80X4.5	0,000	NC15	8,315	0,439	1,863	<b>-0,259</b>	0,000	0,000
B461	CS40 - RRO160X80X4.5	0,000	NC18	-1,595	0,324	-1,132	<b>0,136</b>	0,000	0,000
B461	CS40 - RRO160X80X4.5	3,786	NC16	0,000	-0,042	1,089	-0,259	-0,276	<b>0,743</b>
B462	CS40 - RRO160X80X4.5	0,000	NC3	<b>-3,202</b>	0,147	-0,639	-0,060	0,000	0,000
B462	CS40 - RRO160X80X4.5	0,000	NC16	<b>6,324</b>	0,441	<b>1,215</b>	0,261	0,000	0,000
B462	CS40 - RRO160X80X4.5	3,995	NC2	-1,354	<b>-0,968</b>	-0,005	0,029	-0,020	<b>-2,369</b>
B462	CS40 - RRO160X80X4.5	3,995	NC2	0,000	<b>1,118</b>	0,007	0,029	-0,020	-2,369
B462	CS40 - RRO160X80X4.5	3,995	NC7	5,905	-0,340	<b>-1,475</b>	0,271	-0,531	0,138
B462	CS40 - RRO160X80X4.5	0,000	NC6	2,394	0,311	-0,856	<b>-0,092</b>	0,000	0,000
B462	CS40 - RRO160X80X4.5	0,000	NC8	5,918	0,421	1,209	<b>0,271</b>	0,000	0,000
B462	CS40 - RRO160X80X4.5	1,598	NC6	2,394	0,011	-0,145	-0,092	<b>-0,800</b>	0,257
B462	CS40 - RRO160X80X4.5	1,598	NC16	6,324	0,216	0,142	0,261	<b>1,084</b>	0,525
B462	CS40 - RRO160X80X4.5	3,196	NC16	6,324	-0,009	-0,932	0,261	0,453	<b>0,690</b>
B463	CS40 - RRO160X80X4.5	0,000	NC3	<b>-2,490</b>	0,375	-0,936	0,063	0,000	0,000
B463	CS40 - RRO160X80X4.5	0,000	NC15	<b>5,193</b>	0,285	1,878	-0,039	0,000	0,000
B463	CS40 - RRO160X80X4.5	4,950	NC1	0,308	<b>-0,625</b>	-0,001	-0,008	-0,007	<b>-0,508</b>
B463	CS40 - RRO160X80X4.5	4,950	NC1	0,000	<b>0,472</b>	0,004	-0,008	-0,007	-0,508
B463	CS40 - RRO160X80X4.5	4,950	NC13	0,000	0,310	<b>-2,058</b>	0,204	0,069	-0,330
B463	CS40 - RRO160X80X4.5	4,950	NC13	2,150	-0,415	<b>2,823</b>	0,204	0,069	-0,330
B463	CS40 - RRO160X80X4.5	0,000	NC8	5,151	0,378	1,867	<b>-0,050</b>	0,000	0,000
B463	CS40 - RRO160X80X4.5	0,000	NC13	2,150	0,281	-1,534	<b>0,204</b>	0,000	0,000
B463	CS40 - RRO160X80X4.5	2,970	NC6	2,128	-0,185	-0,149	0,198	<b>-2,623</b>	0,279
B463	CS40 - RRO160X80X4.5	2,970	NC16	5,158	-0,132	-0,118	-0,040	<b>2,614</b>	0,227
B463	CS40 - RRO160X80X4.5	1,980	NC1	0,308	0,002	-0,001	-0,008	-0,003	<b>0,417</b>
B464	CS40 - RRO160X80X4.5	1,800	NC3	<b>0,000</b>	-0,169	1,008	0,141	0,000	0,000
B464	CS40 - RRO160X80X4.5	1,800	NC16	<b>0,000</b>	-0,127	-1,615	-0,468	0,000	0,000
B464	CS40 - RRO160X80X4.5	1,800	NC1	0,000	<b>-0,190</b>	0,000	0,000	0,000	0,000
B464	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,190</b>	0,000	0,000	0,000	0,000
B464	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,169	<b>-2,423</b>	0,175	0,000	0,000
B464	CS40 - RRO160X80X4.5	1,800	NC5	0,000	-0,169	<b>2,423</b>	0,175	0,000	0,000
B464	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,127	1,615	<b>-0,468</b>	0,000	<b>0,000</b>
B464	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,127	-1,008	<b>0,227</b>	0,000	0,000
B464	CS40 - RRO160X80X4.5	0,720	NC5	0,000	0,034	-0,485	0,175	<b>-1,047</b>	0,073
B464	CS40 - RRO160X80X4.5	0,720	NC7	0,000	0,034	0,323	-0,461	<b>0,698</b>	0,073
B464	CS40 - RRO160X80X4.5	0,720	NC1	0,000	0,038	0,000	0,000	0,000	<b>0,082</b>
B466	CS40 - RRO160X80X4.5	3,045	NC3	<b>0,000</b>	-0,286	1,706	0,044	0,000	0,000
B466	CS40 - RRO160X80X4.5	3,045	NC16	<b>0,000</b>	-0,214	-2,731	-0,101	0,000	0,000
B466	CS40 - RRO160X80X4.5	3,045	NC1	0,000	<b>-0,321</b>	0,000	-0,001	0,000	0,000
B466	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,321</b>	0,000	-0,001	0,000	0,000
B466	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,286	<b>-2,731</b>	0,017	0,000	0,000
B466	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,286	<b>2,731</b>	-0,096	0,000	0,000
B466	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,214	2,731	<b>-0,101</b>	0,000	<b>0,000</b>
B466	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,214	-1,706	<b>0,096</b>	0,000	0,000
B466	CS40 - RRO160X80X4.5	1,218	NC5	0,000	0,057	-0,546	0,017	<b>-1,996</b>	0,209
B466	CS40 - RRO160X80X4.5	1,218	NC7	0,000	0,057	0,546	-0,096	<b>1,996</b>	0,209
B466	CS40 - RRO160X80X4.5	1,218	NC1	0,000	0,064	0,000	-0,001	0,000	<b>0,235</b>
B467	CS40 - RRO160X80X4.5	1,350	NC16	<b>0,000</b>	0,285	3,633	0,282	6,539	0,513
B467	CS40 - RRO160X80X4.5	2,700	NC3	<b>0,000</b>	0,127	-0,756	-0,093	-6,126	1,026
B467	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,030	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B467	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,030	0,000	0,000
B467	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,055</b>	0,277	0,000	0,000
B467	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,055</b>	0,277	0,000	0,000
B467	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	-3,782	<b>-0,093</b>	0,000	0,000
B467	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,055	<b>0,282</b>	0,000	0,000
B467	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,093	<b>-6,382</b>	1,068
B467	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,277	<b>10,217</b>	1,068
B467	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	-3,782	-0,070	0,000	<b>0,000</b>
B467	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,030	0,000	<b>1,202</b>
B468	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,782	0,187	0,000	0,000
B468	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,782	0,158	0,000	0,000
B468	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,029	0,000	0,000
B468	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,029	0,000	0,000
B468	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-6,055</b>	-0,076	0,000	0,000
B468	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,055</b>	-0,076	0,000	0,000
B468	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	6,055	<b>-0,076</b>	0,000	0,000
B468	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,633	-3,782	<b>0,188</b>	0,000	0,000
B468	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	0,187	<b>-6,382</b>	1,068
B468	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,076	<b>10,217</b>	1,068
B468	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-3,782	0,058	0,000	<b>0,000</b>
B468	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,029	0,000	<b>1,202</b>
B469	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	6,055	0,178	0,000	0,000
B469	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	3,782	0,097	0,000	0,000
B469	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B469	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B469	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-6,055</b>	0,178	0,000	0,000
B469	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>6,055</b>	-0,040	0,000	0,000
B469	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	6,055	<b>-0,040</b>	0,000	0,000
B469	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	-6,055	<b>0,188</b>	0,000	<b>0,000</b>
B469	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	0,178	<b>-10,217</b>	1,068
B469	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,040	<b>10,217</b>	1,068
B469	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B470	CS40 - RRO160X80X4.5	1,150	NC3	<b>0,000</b>	-0,108	1,032	1,875	0,000	0,000
B470	CS40 - RRO160X80X4.5	1,150	NC5	<b>0,000</b>	-0,108	0,644	1,226	0,000	0,000
B470	CS40 - RRO160X80X4.5	1,150	NC1	0,000	<b>-0,121</b>	0,000	0,003	0,000	0,000
B470	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,121</b>	0,000	0,003	0,000	0,000
B470	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,108	<b>-1,032</b>	1,875	0,000	0,000
B470	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,108	<b>1,032</b>	<b>-1,852</b>	0,000	0,000
B470	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,081	-1,032	<b>1,877</b>	0,000	0,000
B470	CS40 - RRO160X80X4.5	0,460	NC3	0,000	0,022	-0,206	1,875	<b>-0,285</b>	0,030
B470	CS40 - RRO160X80X4.5	0,460	NC7	0,000	0,022	0,206	-1,852	<b>0,285</b>	0,030
B470	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,081	1,032	-1,851	0,000	<b>0,000</b>
B470	CS40 - RRO160X80X4.5	0,460	NC1	0,000	0,024	0,000	0,003	0,000	<b>0,033</b>
B471	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	<b>7,036</b>	-0,135	0,000	0,000
B471	CS40 - RRO160X80X4.5	2,700	NC8	<b>0,000</b>	0,127	1,211	0,215	9,809	1,026
B471	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,004	0,000	0,000
B471	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,004	0,000	0,000
B471	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-8,524</b>	-0,135	0,000	0,000
B471	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-3,782	<b>-0,213</b>	0,000	0,000
B471	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	6,055	<b>0,215</b>	0,000	0,000
B471	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,564	-0,135	<b>-13,432</b>	1,068
B471	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,215	<b>10,217</b>	1,068
B471	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-3,782	-0,188	0,000	<b>0,000</b>
B471	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,004	0,000	<b>1,202</b>
B472	CS40 - RRO160X80X4.5	1,800	NC3	<b>0,000</b>	-0,169	0,616	0,183	0,000	0,000
B472	CS40 - RRO160X80X4.5	1,800	NC16	<b>0,000</b>	-0,127	-0,984	-0,587	0,000	0,000
B472	CS40 - RRO160X80X4.5	1,800	NC1	0,000	<b>-0,190</b>	0,000	0,014	0,000	0,000
B472	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,190</b>	0,000	0,014	0,000	0,000
B472	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,169	<b>-1,478</b>	-0,111	0,000	0,000
B472	CS40 - RRO160X80X4.5	1,800	NC5	0,000	-0,169	<b>1,478</b>	-0,111	0,000	0,000
B472	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,127	0,984	<b>-0,587</b>	0,000	<b>0,000</b>
B472	CS40 - RRO160X80X4.5	0,000	NC10	0,000	0,169	-0,616	<b>0,329</b>	0,000	0,000
B472	CS40 - RRO160X80X4.5	0,720	NC5	0,000	0,034	-0,296	-0,111	<b>-0,639</b>	0,073
B472	CS40 - RRO160X80X4.5	0,720	NC7	0,000	0,034	0,197	-0,564	<b>0,425</b>	0,073
B472	CS40 - RRO160X80X4.5	0,720	NC1	0,000	0,038	0,000	0,014	0,000	<b>0,082</b>
B474	CS40 - RRO160X80X4.5	3,045	NC3	<b>0,000</b>	-0,286	1,041	0,093	0,000	0,000
B474	CS40 - RRO160X80X4.5	3,045	NC16	<b>0,000</b>	-0,214	-1,665	-0,418	0,000	0,000
B474	CS40 - RRO160X80X4.5	3,045	NC1	0,000	<b>-0,321</b>	0,000	-0,001	0,000	0,000
B474	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,321</b>	0,000	-0,001	0,000	0,000
B474	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,286	<b>-1,665</b>	-0,002	0,000	0,000
B474	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,286	<b>1,665</b>	-0,415	0,000	0,000
B474	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,214	1,665	<b>-0,418</b>	0,000	<b>0,000</b>
B474	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,214	-1,041	<b>0,107</b>	0,000	0,000
B474	CS40 - RRO160X80X4.5	1,218	NC5	0,000	0,057	-0,333	-0,002	<b>-1,217</b>	0,209
B474	CS40 - RRO160X80X4.5	1,218	NC7	0,000	0,057	0,333	-0,415	<b>1,217</b>	0,209
B474	CS40 - RRO160X80X4.5	1,218	NC1	0,000	0,064	0,000	-0,001	0,000	<b>0,235</b>



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B475	CS40 - RRO160X80X4.5	0,000	NC15	<b>0,000</b>	0,475	3,691	0,342	0,000	0,000
B475	CS40 - RRO160X80X4.5	0,000	NC3	<b>0,000</b>	0,633	-2,308	-0,040	0,000	0,000
B475	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,030	0,000	0,000
B475	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,030	0,000	0,000
B475	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-3,691</b>	0,337	0,000	0,000
B475	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>3,691</b>	0,337	0,000	0,000
B475	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>-0,070</b>	0,000	0,000
B475	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	3,691	<b>0,342</b>	0,000	0,000
B475	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	-0,040	<b>-3,896</b>	1,068
B475	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,337	<b>6,228</b>	1,068
B475	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	-2,308	-0,043	0,000	<b>0,000</b>
B475	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,030	0,000	<b>1,202</b>
B476	CS40 - RRO160X80X4.5	0,000	NC15	<b>0,000</b>	0,475	3,691	-0,171	0,000	0,000
B476	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	2,308	0,210	0,000	0,000
B476	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,030	0,000	0,000
B476	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,030	0,000	0,000
B476	CS40 - RRO160X80X4.5	6,750	NC7	0,000	-0,633	<b>-3,691</b>	-0,172	0,000	0,000
B476	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>3,691</b>	-0,172	0,000	0,000
B476	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	3,691	<b>-0,172</b>	0,000	0,000
B476	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,633	-2,308	<b>0,307</b>	0,000	0,000
B476	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	0,306	<b>-3,896</b>	1,068
B476	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,172	<b>6,228</b>	1,068
B476	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,308	0,139	0,000	<b>0,000</b>
B476	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,030	0,000	<b>1,202</b>
B477	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	3,691	0,226	0,000	0,000
B477	CS40 - RRO160X80X4.5	0,000	NC12	<b>0,000</b>	0,475	-3,691	<b>0,236</b>	0,000	<b>0,000</b>
B477	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B477	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B477	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-3,691</b>	0,226	0,000	0,000
B477	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>3,691</b>	-0,040	0,000	0,000
B477	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	3,691	<b>-0,040</b>	0,000	0,000
B477	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,000	0,226	<b>-6,228</b>	1,068
B477	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,040	<b>6,228</b>	1,068
B477	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B478	CS40 - RRO160X80X4.5	0,000	NC5	<b>0,000</b>	0,108	-0,393	2,145	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,000	NC12	<b>0,000</b>	0,081	-0,629	3,372	0,000	0,000
B478	CS40 - RRO160X80X4.5	1,150	NC1	0,000	<b>-0,121</b>	0,000	0,002	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,121</b>	0,000	0,002	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,108	<b>-0,629</b>	3,370	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,108	<b>0,629</b>	<b>-3,340</b>	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,081	-0,629	<b>3,372</b>	0,000	0,000
B478	CS40 - RRO160X80X4.5	0,460	NC3	0,000	0,022	-0,126	3,370	<b>-0,174</b>	0,030
B478	CS40 - RRO160X80X4.5	0,460	NC7	0,000	0,022	0,126	-3,340	<b>0,174</b>	0,030
B478	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,081	0,629	-3,339	0,000	<b>0,000</b>
B478	CS40 - RRO160X80X4.5	0,460	NC1	0,000	0,024	0,000	0,002	0,000	<b>0,033</b>
B479	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	<b>4,290</b>	-0,016	0,000	0,000
B479	CS40 - RRO160X80X4.5	0,000	NC8	<b>0,000</b>	0,633	3,691	0,186	0,000	0,000
B479	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,004	0,000	0,000
B479	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,004	0,000	0,000
B479	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	<b>-5,199</b>	-0,016	0,000	0,000
B479	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	-2,308	<b>-0,213</b>	0,000	0,000
B479	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	3,691	<b>0,186</b>	0,000	0,000
B479	CS40 - RRO160X80X4.5	3,375	NC3	0,000	0,000	0,344	-0,016	<b>-8,192</b>	1,068
B479	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,186	<b>6,228</b>	1,068
B479	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-2,308	-0,187	0,000	<b>0,000</b>
B479	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,004	0,000	<b>1,202</b>
B480	CS40 - RRO160X80X4.5	2,700	NC12	<b>0,000</b>	0,095	0,635	-1,433	6,700	0,769
B480	CS40 - RRO160X80X4.5	0,000	NC6	<b>0,000</b>	0,633	1,949	-0,798	0,000	0,000
B480	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,007	0,000	0,000
B480	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,007	0,000	0,000
B480	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	1,721	0,000	0,000
B480	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>-1,636</b>	0,000	0,000
B480	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,475	-4,976	<b>1,722</b>	0,000	0,000
B480	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	1,721	<b>-8,398</b>	1,068
B480	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-1,636	<b>8,398</b>	1,068
B480	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	1,717	0,000	<b>0,000</b>
B480	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,007	0,000	<b>1,202</b>
B481	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-1,914	0,301	0,000	0,000
B481	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-1,949	0,292	0,000	0,000
B481	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,019	0,000	0,000
B481	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,019	0,000	0,000
B481	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,782	0,000	0,000
B481	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	0,812	0,000	0,000
B481	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,796</b>	0,000	0,000
B481	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	<b>0,814</b>	0,000	<b>0,000</b>
B481	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,782	<b>-8,398</b>	1,068



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B481	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,812	<b>8,398</b>	1,068
B481	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,019	0,000	<b>1,202</b>
B482	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,063	0,512	0,000	0,000
B482	CS40 - RRO160X80X4.5	3,375	NC6	<b>0,000</b>	-0,633	-1,949	0,342	0,000	0,000
B482	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,012	0,000	0,000
B482	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,012	0,000	0,000
B482	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,898	0,000	0,000
B482	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	0,889	0,000	0,000
B482	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,927</b>	0,000	0,000
B482	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	4,976	<b>0,890</b>	0,000	0,000
B482	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,898	<b>-8,398</b>	1,068
B482	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,889	<b>8,398</b>	1,068
B482	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,063	0,511	0,000	<b>0,000</b>
B482	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,012	0,000	<b>1,202</b>
B483	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,063	-0,044	0,000	0,000
B483	CS40 - RRO160X80X4.5	1,350	NC15	<b>0,000</b>	0,285	2,986	-0,216	5,375	0,513
B483	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,005	0,000	0,000
B483	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,005	0,000	0,000
B483	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	0,148	0,000	0,000
B483	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	-0,209	0,000	0,000
B483	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	4,976	<b>-0,217</b>	0,000	0,000
B483	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>0,160</b>	0,000	0,000
B483	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,148	<b>-8,398</b>	1,068
B483	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,209	<b>8,398</b>	1,068
B483	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,063	-0,034	0,000	<b>0,000</b>
B483	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,005	0,000	<b>1,202</b>
B484	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-1,914	-0,382	0,000	0,000
B484	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-1,949	-0,429	0,000	0,000
B484	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,020	0,000	0,000
B484	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,020	0,000	0,000
B484	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	0,994	0,000	0,000
B484	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>-0,960</b>	0,000	0,000
B484	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>1,019</b>	0,000	0,000
B484	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,994	<b>-8,398</b>	1,068
B484	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,960	<b>8,398</b>	1,068
B484	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	1,949	-0,417	0,000	<b>0,000</b>
B484	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,020	0,000	<b>1,202</b>
B485	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-1,914	-0,173	0,000	0,000
B485	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-3,063	-0,312	0,000	0,000
B485	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,013	0,000	0,000
B485	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,013	0,000	0,000
B485	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	0,538	0,000	0,000
B485	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>-0,544</b>	0,000	0,000
B485	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>0,567</b>	0,000	0,000
B485	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,538	<b>-8,398</b>	1,068
B485	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,544	<b>8,398</b>	1,068
B485	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	1,914	-0,164	0,000	<b>0,000</b>
B485	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,013	0,000	<b>1,202</b>
B486	CS40 - RRO160X80X4.5	0,000	NC2	<b>0,000</b>	0,633	0,000	0,125	0,000	0,000
B486	CS40 - RRO160X80X4.5	1,350	NC18	<b>0,000</b>	0,285	-2,986	-0,711	-5,375	0,513
B486	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,061	0,000	0,000
B486	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,061	0,000	0,000
B486	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,665	0,000	0,000
B486	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>0,597</b>	0,000	0,000
B486	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,711</b>	0,000	0,000
B486	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,665	<b>-8,398</b>	1,068
B486	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,597	<b>8,398</b>	1,068
B486	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	3,568	0,514	0,000	<b>0,000</b>
B486	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,061	0,000	<b>1,202</b>
B487	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-1,914	0,287	0,000	0,000
B487	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-3,063	0,431	0,000	0,000
B487	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,007	0,000	0,000
B487	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,007	0,000	0,000
B487	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-4,976</b>	-0,674	0,000	0,000
B487	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	<b>4,976</b>	<b>0,640</b>	0,000	0,000
B487	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-4,976	<b>-0,681</b>	0,000	0,000
B487	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,674	<b>-8,398</b>	1,068
B487	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,640	<b>8,398</b>	1,068
B487	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	1,914	0,286	0,000	<b>0,000</b>
B487	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,007	0,000	<b>1,202</b>
B488	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-5,599	-1,398	0,000	0,000
B488	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-3,012	-0,872	0,000	0,000
B488	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,009	0,000	0,000
B488	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,009	0,000	0,000
B488	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	1,831	0,000	0,000
B488	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	1,831	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B488	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	7,346	<b>-1,723</b>	0,000	0,000
B488	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,475	-7,533	<b>1,831</b>	0,000	0,000
B488	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	1,831	<b>-12,712</b>	1,068
B488	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-1,723	<b>12,396</b>	1,068
B488	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	1,826	0,000	<b>0,000</b>
B488	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,009	0,000	<b>1,202</b>
B489	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,012	0,305	0,000	0,000
B489	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,012	0,256	0,000	0,000
B489	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,021	0,000	0,000
B489	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,021	0,000	0,000
B489	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	-0,686	0,000	0,000
B489	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	-0,686	0,000	0,000
B489	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	<b>-0,701</b>	0,000	0,000
B489	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	7,346	<b>0,720</b>	0,000	<b>0,000</b>
B489	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,686	<b>-12,712</b>	1,068
B489	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,718	<b>12,396</b>	1,068
B489	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,021	0,000	<b>1,202</b>
B490	CS40 - RRO160X80X4.5	6,750	NC11	<b>0,000</b>	-0,475	-4,819	0,320	0,000	0,000
B490	CS40 - RRO160X80X4.5	1,350	NC8	<b>0,000</b>	0,380	4,407	0,500	7,933	0,684
B490	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,012	0,000	0,000
B490	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,012	0,000	0,000
B490	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	-0,506	0,000	0,000
B490	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	-0,506	0,000	0,000
B490	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	<b>-0,537</b>	0,000	0,000
B490	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	7,346	<b>0,501</b>	0,000	0,000
B490	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,506	<b>-12,712</b>	1,068
B490	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,500	<b>12,396</b>	1,068
B490	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	4,819	0,320	0,000	<b>0,000</b>
B490	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,012	0,000	<b>1,202</b>
B491	CS40 - RRO160X80X4.5	0,000	NC2	<b>-2,590</b>	0,211	0,062	0,015	0,000	0,000
B491	CS40 - RRO160X80X4.5	0,000	NC16	<b>1,279</b>	-0,327	3,703	0,399	0,000	0,000
B491	CS40 - RRO160X80X4.5	3,375	NC18	0,953	<b>-1,038</b>	<b>3,825</b>	-0,469	0,198	<b>-2,701</b>
B491	CS40 - RRO160X80X4.5	3,375	NC18	0,000	<b>1,038</b>	<b>-3,825</b>	-0,469	0,198	-2,701
B491	CS40 - RRO160X80X4.5	0,000	NC9	-1,994	0,139	-3,789	<b>-0,483</b>	0,000	0,000
B491	CS40 - RRO160X80X4.5	0,000	NC11	-1,152	0,158	2,522	<b>0,416</b>	0,000	0,000
B491	CS40 - RRO160X80X4.5	2,025	NC17	0,618	-0,314	0,722	-0,481	<b>-3,115</b>	-0,347
B491	CS40 - RRO160X80X4.5	2,025	NC7	0,172	-0,328	-0,663	0,407	<b>3,120</b>	-0,280
B491	CS40 - RRO160X80X4.5	1,350	NC6	0,103	-0,012	0,358	0,258	1,297	<b>0,155</b>
B492	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,012	-0,360	0,000	0,000
B492	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,012	-0,453	0,000	0,000
B492	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,022	0,000	0,000
B492	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,022	0,000	0,000
B492	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	0,934	0,000	0,000
B492	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	0,934	0,000	0,000
B492	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	7,346	<b>-0,898</b>	0,000	0,000
B492	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	<b>0,961</b>	0,000	0,000
B492	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,934	<b>-12,712</b>	1,068
B492	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,898	<b>12,396</b>	1,068
B492	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	3,012	-0,439	0,000	<b>0,000</b>
B492	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,022	0,000	<b>1,202</b>
B493	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,012	-0,008	0,000	0,000
B493	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-4,819	-0,108	0,000	0,000
B493	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,014	0,000	0,000
B493	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,014	0,000	0,000
B493	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	0,117	0,000	0,000
B493	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	0,117	0,000	0,000
B493	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	7,346	<b>-0,127</b>	0,000	0,000
B493	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	<b>0,147</b>	0,000	0,000
B493	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,117	<b>-12,712</b>	1,068
B493	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,127	<b>12,396</b>	1,068
B493	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,012	0,002	0,000	<b>0,000</b>
B493	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,202</b>
B494	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,012	0,448	0,000	0,000
B494	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,000</b>	0,475	-7,533	<b>-0,873</b>	0,000	0,000
B494	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,068	0,000	0,000
B494	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,068	0,000	0,000
B494	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	-0,822	0,000	0,000
B494	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	-0,822	0,000	0,000
B494	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	7,346	<b>0,748</b>	0,000	0,000
B494	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,822	<b>-12,712</b>	1,068
B494	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,748	<b>12,396</b>	1,068
B494	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,475	5,603	0,563	0,000	<b>0,000</b>
B494	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,068	0,000	<b>1,202</b>
B495	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,012	0,130	0,000	0,000
B495	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-4,819	0,159	0,000	0,000
B495	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,005	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B495	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,005	0,000	0,000
B495	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,533</b>	-0,283	0,000	0,000
B495	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,533</b>	-0,283	0,000	0,000
B495	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,533	<b>-0,289</b>	0,000	0,000
B495	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	7,346	<b>0,253</b>	0,000	0,000
B495	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,283	<b>-12,712</b>	1,068
B495	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,253	<b>12,396</b>	1,068
B495	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	3,012	0,131	0,000	<b>0,000</b>
B495	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,005	0,000	<b>1,202</b>
B496	CS40 - RRO160X80X4.5	0,000	NC18	<b>-16,277</b>	<b>0,953</b>	-1,799	1,562	0,000	0,000
B496	CS40 - RRO160X80X4.5	0,000	NC11	<b>2,521</b>	0,145	2,130	-1,112	0,000	0,000
B496	CS40 - RRO160X80X4.5	6,750	NC18	0,000	<b>-0,919</b>	1,625	1,562	0,000	0,000
B496	CS40 - RRO160X80X4.5	3,250	NC18	0,000	-0,427	<b>-3,946</b>	1,562	3,896	2,355
B496	CS40 - RRO160X80X4.5	3,250	NC18	-16,277	0,496	<b>4,197</b>	1,562	<b>3,896</b>	<b>2,355</b>
B496	CS40 - RRO160X80X4.5	0,000	NC7	-7,880	0,465	2,028	<b>-1,452</b>	0,000	0,000
B496	CS40 - RRO160X80X4.5	0,000	NC17	-9,357	0,477	-1,899	<b>1,567</b>	0,000	0,000
B496	CS40 - RRO160X80X4.5	3,250	NC16	-11,701	0,306	-3,875	-1,449	<b>-3,057</b>	1,739
B496	CS40 - RRO160X80X4.5	3,250	NC2	-4,788	-0,483	0,027	-0,024	0,088	<b>-0,579</b>
B497	CS40 - RRO160X80X4.5	0,000	NC15	<b>-1,787</b>	-0,326	3,732	1,023	0,000	0,000
B497	CS40 - RRO160X80X4.5	0,000	NC2	<b>2,871</b>	0,212	0,013	0,015	0,000	0,000
B497	CS40 - RRO160X80X4.5	3,375	NC18	-1,745	<b>-1,038</b>	1,394	-1,109	-4,187	<b>-2,703</b>
B497	CS40 - RRO160X80X4.5	3,375	NC18	0,000	<b>1,038</b>	-1,394	-1,109	-4,187	-2,703
B497	CS40 - RRO160X80X4.5	0,000	NC17	-1,110	-0,028	<b>-3,902</b>	-1,119	0,000	0,000
B497	CS40 - RRO160X80X4.5	6,750	NC17	0,000	0,028	<b>3,902</b>	-1,119	0,000	0,000
B497	CS40 - RRO160X80X4.5	0,000	NC9	0,510	0,140	-3,901	<b>-1,121</b>	0,000	0,000
B497	CS40 - RRO160X80X4.5	0,000	NC7	-0,966	0,053	3,742	<b>1,030</b>	0,000	0,000
B497	CS40 - RRO160X80X4.5	2,700	NC17	-1,110	-0,408	0,314	-1,119	<b>-4,843</b>	-0,589
B497	CS40 - RRO160X80X4.5	2,700	NC7	-0,966	-0,454	-0,369	1,030	<b>4,554</b>	-0,542
B497	CS40 - RRO160X80X4.5	1,350	NC6	0,072	-0,011	0,835	0,517	1,809	<b>0,156</b>
B498	CS40 - RRO160X80X4.5	6,750	NC11	<b>0,000</b>	-0,475	-4,040	0,149	0,000	0,000
B498	CS40 - RRO160X80X4.5	6,750	NC15	<b>0,000</b>	-0,475	-6,095	0,275	0,000	0,000
B498	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,012	0,000	0,000
B498	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,012	0,000	0,000
B498	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	-0,269	0,000	0,000
B498	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	-0,269	0,000	0,000
B498	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-6,227	<b>-0,301</b>	0,000	0,000
B498	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	6,095	<b>0,275</b>	0,000	0,000
B498	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,269	<b>-10,508</b>	1,068
B498	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,273	<b>10,286</b>	1,068
B498	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	4,040	0,149	0,000	<b>0,000</b>
B498	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,012	0,000	<b>1,202</b>
B499	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,521	0,074	0,000	0,000
B499	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-2,521	0,040	0,000	0,000
B499	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,023	0,000	0,000
B499	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,023	0,000	0,000
B499	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	-0,134	0,000	0,000
B499	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	-0,134	0,000	0,000
B499	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-6,227	<b>-0,151</b>	0,000	0,000
B499	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	6,095	<b>0,173</b>	0,000	<b>0,000</b>
B499	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,134	<b>-10,508</b>	1,068
B499	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,172	<b>10,286</b>	1,068
B499	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,023	0,000	<b>1,202</b>
B500	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,521	-0,127	0,000	0,000
B500	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-2,521	-0,196	0,000	0,000
B500	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,024	0,000	0,000
B500	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,024	0,000	0,000
B500	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	0,337	0,000	0,000
B500	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	0,337	0,000	0,000
B500	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	6,095	<b>-0,308</b>	0,000	0,000
B500	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-6,227	<b>0,366</b>	0,000	0,000
B500	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,337	<b>-10,508</b>	1,068
B500	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,308	<b>10,286</b>	1,068
B500	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	2,521	-0,182	0,000	<b>0,000</b>
B500	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,024	0,000	<b>1,202</b>
B501	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,521	0,058	0,000	0,000
B501	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-4,040	0,015	0,000	0,000
B501	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,014	0,000	0,000
B501	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,014	0,000	0,000
B501	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	<b>-0,049</b>	0,000	0,000
B501	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	-0,049	0,000	0,000
B501	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	2,521	<b>0,068</b>	0,000	<b>0,000</b>
B501	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,049	<b>-10,508</b>	1,068
B501	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,038	<b>10,286</b>	1,068
B501	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,202</b>
B502	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,521	0,045	0,000	0,000
B502	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-4,040	0,030	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B502	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,004	0,000	0,000
B502	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,004	0,000	0,000
B502	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	-0,071	0,000	0,000
B502	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	-0,071	0,000	0,000
B502	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-6,227	<b>-0,077</b>	0,000	0,000
B502	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	2,521	<b>0,046</b>	0,000	0,000
B502	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,071	<b>-10,508</b>	1,068
B502	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,045	<b>10,286</b>	1,068
B502	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	2,521	0,046	0,000	<b>0,000</b>
B502	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,004	0,000	<b>1,202</b>
B503	CS40 - RRO160X80X4.5	1,350	NC10	<b>0,000</b>	0,380	-3,736	-0,390	-6,725	0,684
B503	CS40 - RRO160X80X4.5	1,350	NC4	<b>0,000</b>	0,380	1,513	0,250	2,723	0,684
B503	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,056	0,000	0,000
B503	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,056	0,000	0,000
B503	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-6,227</b>	-0,376	0,000	0,000
B503	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>6,227</b>	-0,376	0,000	0,000
B503	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-6,227	<b>-0,419</b>	0,000	<b>0,000</b>
B503	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	6,095	<b>0,317</b>	0,000	0,000
B503	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,376	<b>-10,508</b>	1,068
B503	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,317	<b>10,286</b>	1,068
B503	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,056	0,000	<b>1,202</b>
B504	CS40 - RRO160X80X4.5	0,000	NC4	<b>-2,556</b>	0,247	2,478	0,263	0,000	0,000
B504	CS40 - RRO160X80X4.5	0,000	NC8	<b>8,834</b>	0,237	2,250	0,238	0,000	0,000
B504	CS40 - RRO160X80X4.5	3,250	NC1	-0,656	<b>-0,389</b>	0,000	-0,002	-0,001	-0,150
B504	CS40 - RRO160X80X4.5	3,250	NC9	0,000	<b>0,661</b>	-14,625	-0,260	5,320	-0,235
B504	CS40 - RRO160X80X4.5	3,250	NC18	0,000	0,051	<b>-14,984</b>	-0,229	5,455	-0,009
B504	CS40 - RRO160X80X4.5	3,250	NC16	0,000	0,266	<b>13,140</b>	0,229	-4,767	-0,090
B504	CS40 - RRO160X80X4.5	0,000	NC9	7,564	0,233	-2,163	<b>-0,260</b>	0,000	0,000
B504	CS40 - RRO160X80X4.5	0,000	NC12	-2,318	0,175	2,483	<b>0,269</b>	0,000	0,000
B504	CS40 - RRO160X80X4.5	3,250	NC16	8,266	-0,256	-5,174	0,229	<b>-4,767</b>	-0,090
B504	CS40 - RRO160X80X4.5	3,250	NC18	5,848	-0,231	5,478	-0,229	<b>5,455</b>	-0,009
B504	CS40 - RRO160X80X4.5	3,250	NC9	7,564	-0,377	5,437	-0,260	5,320	<b>-0,235</b>
B504	CS40 - RRO160X80X4.5	1,950	NC2	-1,084	-0,054	0,001	-0,004	0,002	<b>0,251</b>
B506	CS40 - RRO160X80X4.5	0,000	NC4	<b>0,000</b>	0,633	5,047	-0,050	0,000	0,000
B506	CS40 - RRO160X80X4.5	1,350	NC16	<b>0,000</b>	0,285	4,620	0,050	8,316	0,513
B506	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,012	0,000	0,000
B506	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,012	0,000	0,000
B506	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	-0,030	0,000	0,000
B506	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	-0,030	0,000	0,000
B506	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,892	<b>-0,063</b>	0,000	0,000
B506	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,475	7,700	<b>0,050</b>	0,000	0,000
B506	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,030	<b>-13,318</b>	1,068
B506	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,048	<b>12,994</b>	1,068
B506	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,475	-7,892	-0,040	0,000	<b>0,000</b>
B506	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,012	0,000	<b>1,202</b>
B507	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,154	-0,020	0,000	0,000
B507	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,154	-0,017	0,000	0,000
B507	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,024	0,000	0,000
B507	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,024	0,000	0,000
B507	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	0,013	0,000	0,000
B507	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	0,013	0,000	0,000
B507	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,154	<b>-0,034</b>	0,000	0,000
B507	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>0,058</b>	0,000	0,000
B507	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,013	<b>-13,318</b>	1,068
B507	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,027	<b>12,994</b>	1,068
B507	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	7,700	0,028	0,000	<b>0,000</b>
B507	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,024	0,000	<b>1,202</b>
B508	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,154	-0,019	0,000	0,000
B508	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,154	-0,034	0,000	0,000
B508	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,025	0,000	0,000
B508	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,025	0,000	0,000
B508	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	0,065	0,000	0,000
B508	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	0,065	0,000	0,000
B508	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>-0,058</b>	0,000	0,000
B508	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,892	<b>0,094</b>	0,000	0,000
B508	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,065	<b>-13,318</b>	1,068
B508	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,041	<b>12,994</b>	1,068
B508	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	3,154	-0,020	0,000	<b>0,000</b>
B508	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,025	0,000	<b>1,202</b>
B509	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,154	0,075	0,000	0,000
B509	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-5,047	0,093	0,000	0,000
B509	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,014	0,000	0,000
B509	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,014	0,000	0,000
B509	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	<b>-0,094</b>	0,000	0,000
B509	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	-0,094	0,000	0,000
B509	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	5,047	<b>0,093</b>	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B509	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,094	<b>-13,318</b>	1,068
B509	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,083	<b>12,994</b>	1,068
B509	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,154	0,085	0,000	<b>0,000</b>
B509	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,202</b>
B510	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,154	-0,024	0,000	0,000
B510	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-5,047	-0,063	0,000	0,000
B510	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,004	0,000	0,000
B510	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,004	0,000	0,000
B510	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	<b>0,099</b>	0,000	0,000
B510	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	0,099	0,000	0,000
B510	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	7,700	<b>-0,126</b>	0,000	0,000
B510	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,099	<b>-13,318</b>	1,068
B510	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,122	<b>12,994</b>	1,068
B510	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	3,154	-0,023	0,000	<b>0,000</b>
B510	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,004	0,000	<b>1,202</b>
B511	CS40 - RRO160X80X4.5	1,350	NC18	<b>0,000</b>	0,285	-4,735	0,003	-8,524	0,513
B511	CS40 - RRO160X80X4.5	0,000	NC2	<b>0,000</b>	0,633	0,000	0,042	0,000	0,000
B511	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,020	0,000	0,000
B511	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,020	0,000	0,000
B511	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-7,892</b>	0,019	0,000	0,000
B511	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>7,892</b>	0,019	0,000	0,000
B511	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	7,700	<b>-0,061</b>	0,000	0,000
B511	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,633	3,154	<b>0,051</b>	0,000	0,000
B511	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,019	<b>-13,318</b>	1,068
B511	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,049	<b>12,994</b>	1,068
B511	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,475	-7,892	0,003	0,000	<b>0,000</b>
B511	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,020	0,000	<b>1,202</b>
B512	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,000</b>	0,475	-9,285	<b>0,345</b>	0,000	<b>0,000</b>
B512	CS40 - RRO160X80X4.5	0,000	NC2	<b>0,000</b>	0,633	0,000	-0,032	0,000	0,000
B512	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,016	0,000	0,000
B512	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,016	0,000	0,000
B512	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-9,285</b>	0,333	0,000	0,000
B512	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>9,285</b>	0,333	0,000	0,000
B512	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	9,057	<b>-0,339</b>	0,000	0,000
B512	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,333	<b>-15,668</b>	1,068
B512	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,339	<b>15,283</b>	1,068
B512	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,016	0,000	<b>1,202</b>
B513	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,782	-0,096	0,000	0,000
B513	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-6,055	-0,146	0,000	0,000
B513	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B513	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B513	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-9,285</b>	<b>0,276</b>	0,000	0,000
B513	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>9,285</b>	0,276	0,000	0,000
B513	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	9,057	<b>-0,299</b>	0,000	0,000
B513	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,276	<b>-15,668</b>	1,068
B513	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,295	<b>15,283</b>	1,068
B513	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	3,782	-0,094	0,000	<b>0,000</b>
B513	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B514	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,782	0,051	0,000	0,000
B514	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-6,055	0,147	0,000	0,000
B514	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,014	0,000	0,000
B514	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,014	0,000	0,000
B514	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-9,285</b>	<b>-0,037</b>	0,000	0,000
B514	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>9,285</b>	-0,037	0,000	0,000
B514	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	6,055	<b>0,148</b>	0,000	0,000
B514	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,037	<b>-15,668</b>	1,068
B514	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,028	<b>15,283</b>	1,068
B514	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,782	0,061	0,000	<b>0,000</b>
B514	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,202</b>
B515	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,782	0,089	0,000	0,000
B515	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,782	0,172	0,000	0,000
B515	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,025	0,000	0,000
B515	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,025	0,000	0,000
B515	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-9,285</b>	<b>-0,211</b>	0,000	0,000
B515	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>9,285</b>	-0,211	0,000	0,000
B515	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	9,057	<b>0,237</b>	0,000	0,000
B515	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,211	<b>-15,668</b>	1,068
B515	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,230	<b>15,283</b>	1,068
B515	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	3,782	0,187	0,000	<b>0,000</b>
B515	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,025	0,000	<b>1,202</b>
B516	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-3,782	-0,101	0,000	0,000
B516	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-3,782	-0,029	0,000	0,000
B516	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,024	0,000	0,000
B516	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,024	0,000	0,000
B516	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-9,285</b>	0,051	0,000	0,000
B516	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>9,285</b>	0,051	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B516	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	3,782	<b>-0,115</b>	0,000	0,000
B516	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>0,060</b>	0,000	0,000
B516	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,051	<b>-15,668</b>	1,068
B516	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,012	<b>15,283</b>	1,068
B516	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	9,057	-0,010	0,000	<b>0,000</b>
B516	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,024	0,000	<b>1,202</b>
B517	CS40 - RRO160X80X4.5	0,000	NC5	<b>-0,004</b>	-0,323	3,560	-0,133	0,000	0,000
B517	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,006</b>	<b>1,155</b>	-8,651	0,154	0,000	0,000
B517	CS40 - RRO160X80X4.5	0,315	NC2	0,000	<b>-2,174</b>	0,021	0,027	0,007	<b>-0,675</b>
B517	CS40 - RRO160X80X4.5	0,315	NC18	0,002	-0,545	<b>-8,703</b>	0,154	0,452	0,349
B517	CS40 - RRO160X80X4.5	0,000	NC16	0,005	0,507	<b>8,655</b>	-0,153	0,000	0,000
B517	CS40 - RRO160X80X4.5	1,515	NC11	0,000	0,448	3,843	<b>-0,270</b>	4,466	-0,416
B517	CS40 - RRO160X80X4.5	0,000	NC9	0,006	0,188	-8,637	<b>0,187</b>	0,000	0,000
B517	CS40 - RRO160X80X4.5	3,609	NC9	0,000	0,198	-0,186	0,187	<b>-12,987</b>	0,305
B517	CS40 - RRO160X80X4.5	3,609	NC8	0,000	0,198	0,169	-0,155	<b>12,706</b>	0,302
B517	CS40 - RRO160X80X4.5	4,656	NC1	0,000	-0,001	0,002	0,012	-0,005	<b>0,464</b>
B518	CS40 - RRO160X80X4.5	0,375	NC11	<b>0,000</b>	-0,026	-0,336	-1,943	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,375	NC15	<b>0,000</b>	-0,026	-0,210	-2,878	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,375	NC1	0,000	<b>-0,040</b>	0,000	0,008	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,040</b>	0,000	0,008	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,035	<b>-0,336</b>	<b>3,064</b>	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,035	<b>0,336</b>	-1,941	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,035	0,210	<b>-2,885</b>	0,000	0,000
B518	CS40 - RRO160X80X4.5	0,125	NC9	0,000	0,012	-0,112	3,064	<b>-0,028</b>	0,003
B518	CS40 - RRO160X80X4.5	0,125	NC3	0,000	0,012	0,112	-1,941	<b>0,028</b>	0,003
B518	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,026	0,336	-1,943	0,000	<b>0,000</b>
B518	CS40 - RRO160X80X4.5	0,125	NC1	0,000	0,013	0,000	0,008	0,000	<b>0,003</b>
B519	CS40 - RRO160X80X4.5	0,000	NC11	<b>-2,125</b>	0,179	3,518	0,487	0,000	0,000
B519	CS40 - RRO160X80X4.5	0,000	NC15	<b>2,992</b>	0,189	2,953	0,733	0,000	0,000
B519	CS40 - RRO160X80X4.5	3,250	NC1	0,097	<b>-0,400</b>	0,000	-0,003	0,001	-0,186
B519	CS40 - RRO160X80X4.5	3,250	NC9	0,000	<b>0,631</b>	<b>-12,875</b>	-0,748	4,635	-0,223
B519	CS40 - RRO160X80X4.5	3,250	NC7	0,000	0,622	<b>12,745</b>	0,740	-4,591	-0,220
B519	CS40 - RRO160X80X4.5	0,000	NC9	2,550	0,236	-3,044	<b>-0,748</b>	0,000	0,000
B519	CS40 - RRO160X80X4.5	0,000	NC7	2,874	0,237	2,948	<b>0,740</b>	0,000	0,000
B519	CS40 - RRO160X80X4.5	3,250	NC7	2,874	-0,373	-5,773	0,740	<b>-4,591</b>	-0,220
B519	CS40 - RRO160X80X4.5	3,250	NC9	2,550	-0,374	5,896	-0,748	<b>4,635</b>	<b>-0,223</b>
B519	CS40 - RRO160X80X4.5	1,300	NC2	0,187	0,038	0,000	-0,007	0,000	<b>0,208</b>
B520	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,000</b>	0,475	-5,969	<b>0,462</b>	0,000	<b>0,000</b>
B520	CS40 - RRO160X80X4.5	0,000	NC2	<b>0,000</b>	0,633	0,000	-0,066	0,000	0,000
B520	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,033	0,000	0,000
B520	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,033	0,000	0,000
B520	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-5,969</b>	0,438	0,000	0,000
B520	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>5,969</b>	0,438	0,000	0,000
B520	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,633	5,822	<b>-0,436</b>	0,000	0,000
B520	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,438	<b>-10,072</b>	1,068
B520	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,436	<b>9,824</b>	1,068
B520	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,033	0,000	<b>1,202</b>
B521	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,308	-0,129	0,000	0,000
B521	CS40 - RRO160X80X4.5	0,000	NC4	<b>0,000</b>	0,633	2,308	-0,129	0,000	0,000
B521	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,003	0,000	0,000
B521	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,003	0,000	0,000
B521	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-5,969</b>	<b>0,358</b>	0,000	0,000
B521	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>5,969</b>	0,358	0,000	0,000
B521	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	5,822	<b>-0,379</b>	0,000	0,000
B521	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,358	<b>-10,072</b>	1,068
B521	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,375	<b>9,824</b>	1,068
B521	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,475	2,308	-0,127	0,000	<b>0,000</b>
B521	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,202</b>
B522	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,308	0,018	0,000	0,000
B522	CS40 - RRO160X80X4.5	6,750	NC5	<b>0,000</b>	-0,633	-3,691	0,160	0,000	0,000
B522	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,014	0,000	0,000
B522	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,014	0,000	0,000
B522	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-5,969</b>	0,043	0,000	0,000
B522	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>5,969</b>	0,043	0,000	0,000
B522	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,633	5,822	<b>-0,049</b>	0,000	0,000
B522	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,633	3,691	<b>0,160</b>	0,000	0,000
B522	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,043	<b>-10,072</b>	1,068
B522	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	-0,049	<b>9,824</b>	1,068
B522	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	2,308	0,029	0,000	<b>0,000</b>
B522	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,202</b>
B523	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,308	0,138	0,000	0,000
B523	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-2,308	0,288	0,000	0,000
B523	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	-0,026	0,000	0,000
B523	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	-0,026	0,000	0,000
B523	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-5,969</b>	<b>-0,337</b>	0,000	0,000
B523	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>5,969</b>	-0,337	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B523	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	5,822	<b>0,361</b>	0,000	0,000
B523	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	-0,337	<b>-10,072</b>	1,068
B523	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,354	<b>9,824</b>	1,068
B523	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,475	2,308	0,303	0,000	<b>0,000</b>
B523	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	-0,026	0,000	<b>1,202</b>
B524	CS40 - RRO160X80X4.5	6,750	NC3	<b>0,000</b>	-0,633	-2,308	-0,129	0,000	0,000
B524	CS40 - RRO160X80X4.5	6,750	NC6	<b>0,000</b>	-0,633	-2,308	-0,011	0,000	0,000
B524	CS40 - RRO160X80X4.5	6,750	NC1	0,000	<b>-0,712</b>	0,000	0,024	0,000	0,000
B524	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,712</b>	0,000	0,024	0,000	0,000
B524	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,633	<b>-5,969</b>	0,009	0,000	0,000
B524	CS40 - RRO160X80X4.5	6,750	NC9	0,000	-0,633	<b>5,969</b>	0,009	0,000	0,000
B524	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,475	2,308	<b>-0,143</b>	0,000	0,000
B524	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,633	0,000	<b>0,061</b>	0,000	0,000
B524	CS40 - RRO160X80X4.5	3,375	NC9	0,000	0,000	0,000	0,009	<b>-10,072</b>	1,068
B524	CS40 - RRO160X80X4.5	3,375	NC7	0,000	0,000	0,000	0,028	<b>9,824</b>	1,068
B524	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,475	5,822	0,029	0,000	<b>0,000</b>
B524	CS40 - RRO160X80X4.5	3,375	NC1	0,000	0,000	0,000	0,024	0,000	<b>1,202</b>
B525	CS40 - RRO160X80X4.5	0,315	NC11	<b>0,000</b>	-0,022	-0,172	2,012	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,315	NC15	<b>0,000</b>	-0,022	-0,272	3,589	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,315	NC1	0,000	<b>-0,033</b>	0,000	-0,005	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,033</b>	0,000	-0,005	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,030	<b>-0,279</b>	-3,693	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,315	NC9	0,000	-0,030	<b>0,279</b>	-3,693	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,022	-0,279	<b>-3,701</b>	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,030	0,272	<b>3,602</b>	0,000	0,000
B525	CS40 - RRO160X80X4.5	0,105	NC9	0,000	0,010	-0,093	-3,693	<b>-0,019</b>	0,002
B525	CS40 - RRO160X80X4.5	0,105	NC7	0,000	0,010	0,091	3,602	<b>0,019</b>	0,002
B525	CS40 - RRO160X80X4.5	0,000	NC2	0,000	0,030	0,000	-0,009	0,000	<b>0,000</b>
B525	CS40 - RRO160X80X4.5	0,105	NC1	0,000	0,011	0,000	-0,005	0,000	<b>0,002</b>
B526	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,026	0,323	-9,255	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,125	NC11	<b>0,000</b>	0,009	0,068	-6,159	0,017	0,002
B526	CS40 - RRO160X80X4.5	0,375	NC1	0,000	<b>-0,040</b>	0,000	0,007	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,040</b>	0,000	0,007	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,035	<b>-0,332</b>	<b>9,620</b>	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,375	NC9	0,000	-0,035	<b>0,332</b>	9,620	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,035	0,323	<b>-9,261</b>	0,000	0,000
B526	CS40 - RRO160X80X4.5	0,125	NC9	0,000	0,012	-0,111	9,620	<b>-0,028</b>	0,003
B526	CS40 - RRO160X80X4.5	0,125	NC7	0,000	0,012	0,108	-9,261	<b>0,027</b>	0,003
B526	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,026	0,205	-6,159	0,000	<b>0,000</b>
B526	CS40 - RRO160X80X4.5	0,125	NC1	0,000	0,013	0,000	0,007	0,000	<b>0,003</b>
B527	CS40 - RRO160X80X4.5	0,000	NC4	<b>-1,228</b>	0,242	4,573	1,232	0,000	0,000
B527	CS40 - RRO160X80X4.5	0,000	NC7	<b>1,962</b>	0,239	5,647	<b>1,951</b>	0,000	0,000
B527	CS40 - RRO160X80X4.5	3,250	NC1	-0,028	<b>-0,412</b>	-0,004	-0,004	-0,012	<b>-0,225</b>
B527	CS40 - RRO160X80X4.5	3,250	NC1	0,000	<b>0,641</b>	0,033	-0,004	-0,012	-0,225
B527	CS40 - RRO160X80X4.5	3,625	NC7	0,000	0,534	<b>-24,969</b>	1,951	0,000	0,000
B527	CS40 - RRO160X80X4.5	3,625	NC9	0,000	0,516	<b>26,079</b>	-2,007	0,000	0,000
B527	CS40 - RRO160X80X4.5	0,000	NC9	1,731	0,241	-5,845	<b>-2,007</b>	0,000	0,000
B527	CS40 - RRO160X80X4.5	3,250	NC9	1,731	-0,368	-0,097	-2,007	<b>-9,655</b>	-0,207
B527	CS40 - RRO160X80X4.5	3,250	NC7	1,962	-0,371	0,041	1,951	<b>9,242</b>	-0,214
B527	CS40 - RRO160X80X4.5	1,300	NC1	-0,028	-0,001	-0,004	-0,004	-0,005	<b>0,177</b>
B544	CS40 - RRO160X80X4.5	8,335	NC7	<b>0,000</b>	-0,782	-2,375	-0,236	0,000	0,000
B544	CS40 - RRO160X80X4.5	8,335	NC9	<b>0,000</b>	-0,782	-2,363	-0,067	0,000	0,000
B544	CS40 - RRO160X80X4.5	8,335	NC1	0,000	<b>-0,880</b>	0,000	-0,005	0,000	0,000
B544	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,880</b>	0,000	-0,005	0,000	0,000
B544	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,170</b>	0,062	0,000	0,000
B544	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,170</b>	-0,016	0,000	0,000
B544	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	2,375	<b>-0,236</b>	0,000	0,000
B544	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-6,170	<b>0,066</b>	0,000	0,000
B544	CS40 - RRO160X80X4.5	4,168	NC3	0,000	0,000	0,000	0,062	<b>-12,857</b>	1,629
B544	CS40 - RRO160X80X4.5	4,168	NC5	0,000	0,000	0,000	-0,016	<b>12,857</b>	1,629
B544	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	2,375	-0,234	0,000	<b>0,000</b>
B544	CS40 - RRO160X80X4.5	4,168	NC1	0,000	0,000	0,000	-0,005	0,000	<b>1,833</b>
B545	CS40 - RRO160X80X4.5	5,000	NC17	<b>0,000</b>	-0,117	-0,597	-0,070	9,589	1,172
B545	CS40 - RRO160X80X4.5	3,333	NC15	<b>0,000</b>	0,117	0,475	0,163	4,750	1,172
B545	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,040	0,000	0,000
B545	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,040	0,000	0,000
B545	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	0,413	0,000	0,000
B545	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	<b>-0,590</b>	0,000	0,000
B545	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-6,169	<b>0,428</b>	0,000	0,000
B545	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,413	<b>-12,851</b>	1,628
B545	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,590	<b>12,851</b>	1,628
B545	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	4,201	-0,070	0,000	<b>0,000</b>
B545	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,040	0,000	<b>1,832</b>
B546	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-2,375	-0,256	0,000	0,000
B546	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,362	-0,048	0,000	0,000
B546	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,012	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B546	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,012	0,000	0,000
B546	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	0,095	0,000	0,000
B546	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	-0,028	0,000	0,000
B546	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	2,375	<b>-0,256</b>	0,000	0,000
B546	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-6,169	<b>0,102</b>	0,000	0,000
B546	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,095	<b>-12,851</b>	1,628
B546	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,028	<b>12,851</b>	1,628
B546	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	2,375	-0,253	0,000	<b>0,000</b>
B546	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,012	0,000	<b>1,832</b>
B547	CS40 - RRO160X80X4.5	8,331	NC7	<b>0,000</b>	-0,781	-2,374	0,102	0,000	0,000
B547	CS40 - RRO160X80X4.5	8,331	NC9	<b>0,000</b>	-0,781	-3,097	0,113	0,000	0,000
B547	CS40 - RRO160X80X4.5	8,331	NC1	0,000	<b>-0,879</b>	0,000	-0,004	0,000	0,000
B547	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,004	0,000	0,000
B547	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,781	<b>-6,167</b>	0,103	0,000	0,000
B547	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,781	<b>6,167</b>	-0,189	0,000	0,000
B547	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,586	6,167	<b>-0,190</b>	0,000	<b>0,000</b>
B547	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,781	2,495	<b>0,113</b>	0,000	0,000
B547	CS40 - RRO160X80X4.5	4,165	NC3	0,000	0,000	0,000	0,103	<b>-12,844</b>	1,627
B547	CS40 - RRO160X80X4.5	4,165	NC5	0,000	0,000	0,000	-0,189	<b>12,844</b>	1,627
B547	CS40 - RRO160X80X4.5	4,165	NC1	0,000	0,000	0,000	-0,004	0,000	<b>1,831</b>
B548	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-2,375	0,173	0,000	0,000
B548	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,362	0,035	0,000	0,000
B548	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,002	0,000	0,000
B548	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,002	0,000	0,000
B548	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	-0,045	0,000	0,000
B548	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	-0,013	0,000	0,000
B548	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-6,169	<b>-0,046</b>	0,000	0,000
B548	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	2,375	<b>0,173</b>	0,000	0,000
B548	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,045	<b>-12,851</b>	1,628
B548	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,013	<b>12,851</b>	1,628
B548	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-6,169	-0,046	0,000	<b>0,000</b>
B548	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,002	0,000	<b>1,832</b>
B549	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-2,375	0,223	0,000	0,000
B549	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,362	0,105	0,000	0,000
B549	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,004	0,000	0,000
B549	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,004	0,000	0,000
B549	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	-0,120	0,000	0,000
B549	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	0,049	0,000	0,000
B549	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-6,169	<b>-0,121</b>	0,000	0,000
B549	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	2,375	<b>0,223</b>	0,000	0,000
B549	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,120	<b>-12,851</b>	1,628
B549	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,049	<b>12,851</b>	1,628
B549	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	2,362	0,101	0,000	<b>0,000</b>
B549	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,004	0,000	<b>1,832</b>
B550	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,586	5,162	0,060	0,000	0,000
B550	CS40 - RRO160X80X4.5	1,667	NC10	<b>0,000</b>	0,469	1,417	0,152	3,150	1,042
B550	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,020	0,000	0,000
B550	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,020	0,000	0,000
B550	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	-0,536	0,000	0,000
B550	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	0,615	0,000	0,000
B550	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-6,169	<b>-0,542</b>	0,000	0,000
B550	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,782	6,169	<b>0,616</b>	0,000	0,000
B550	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,536	<b>-12,851</b>	1,628
B550	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,615	<b>12,851</b>	1,628
B550	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,586	2,362	0,138	0,000	<b>0,000</b>
B550	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,020	0,000	<b>1,832</b>
B551	CS40 - RRO160X80X4.5	8,333	NC15	<b>0,000</b>	-0,586	-3,800	-0,400	0,000	0,000
B551	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,362	-0,092	0,000	0,000
B551	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,017	0,000	0,000
B551	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,017	0,000	0,000
B551	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-6,169</b>	-0,031	0,000	0,000
B551	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	<b>6,169</b>	0,144	0,000	0,000
B551	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	3,800	<b>-0,416</b>	0,000	0,000
B551	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,586	6,169	<b>0,157</b>	0,000	0,000
B551	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,031	<b>-12,851</b>	1,628
B551	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,144	<b>12,851</b>	1,628
B551	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	3,800	-0,400	0,000	<b>0,000</b>
B551	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,017	0,000	<b>1,832</b>
B552	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-6,400	0,328	0,000	0,000
B552	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-8,083	0,060	0,000	0,000
B552	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,043	0,000	0,000
B552	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,043	0,000	0,000
B552	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,218</b>	0,132	0,000	0,000
B552	CS40 - RRO160X80X4.5	8,333	NC3	0,000	-0,782	<b>8,218</b>	0,132	0,000	0,000
B552	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	7,287	<b>-0,322</b>	0,000	0,000
B552	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	6,400	<b>0,328</b>	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B552	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,132	<b>-17,121</b>	1,628
B552	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,322	<b>15,181</b>	1,628
B552	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	6,601	0,027	0,000	<b>0,000</b>
B552	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,043	0,000	<b>1,832</b>
B553	CS40 - RRO160X80X4.5	8,331	NC7	<b>0,000</b>	-0,781	-6,398	0,115	0,000	0,000
B553	CS40 - RRO160X80X4.5	8,331	NC9	<b>0,000</b>	-0,781	-5,250	0,003	0,000	0,000
B553	CS40 - RRO160X80X4.5	8,331	NC1	0,000	<b>-0,879</b>	0,000	-0,002	0,000	0,000
B553	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,002	0,000	0,000
B553	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,781	<b>-8,216</b>	0,087	0,000	0,000
B553	CS40 - RRO160X80X4.5	8,331	NC3	0,000	-0,781	<b>8,216</b>	0,087	0,000	0,000
B553	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,586	7,285	<b>-0,179</b>	0,000	<b>0,000</b>
B553	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,781	6,398	<b>0,115</b>	0,000	0,000
B553	CS40 - RRO160X80X4.5	4,165	NC3	0,000	0,000	0,000	0,087	<b>-17,113</b>	1,627
B553	CS40 - RRO160X80X4.5	4,165	NC5	0,000	0,000	0,000	-0,177	<b>15,174</b>	1,627
B553	CS40 - RRO160X80X4.5	4,165	NC1	0,000	0,000	0,000	-0,002	0,000	<b>1,831</b>
B554	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-6,400	-0,275	0,000	0,000
B554	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	-0,062	0,000	0,000
B554	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,013	0,000	0,000
B554	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,013	0,000	0,000
B554	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,218</b>	0,097	0,000	0,000
B554	CS40 - RRO160X80X4.5	8,333	NC3	0,000	-0,782	<b>8,218</b>	0,097	0,000	0,000
B554	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	6,400	<b>-0,275</b>	0,000	0,000
B554	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-8,218	<b>0,104</b>	0,000	0,000
B554	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,097	<b>-17,121</b>	1,628
B554	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,020	<b>15,181</b>	1,628
B554	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	6,400	-0,271	0,000	<b>0,000</b>
B554	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,013	0,000	<b>1,832</b>
B556	CS40 - RRO160X80X4.5	8,335	NC7	<b>0,000</b>	-0,782	-6,401	-0,247	0,000	0,000
B556	CS40 - RRO160X80X4.5	8,335	NC9	<b>0,000</b>	-0,782	-4,501	-0,073	0,000	0,000
B556	CS40 - RRO160X80X4.5	8,335	NC1	0,000	<b>-0,880</b>	0,000	-0,006	0,000	0,000
B556	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,880</b>	0,000	-0,006	0,000	0,000
B556	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,220</b>	0,063	0,000	0,000
B556	CS40 - RRO160X80X4.5	8,335	NC3	0,000	-0,782	<b>8,220</b>	0,063	0,000	0,000
B556	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	6,401	<b>-0,247</b>	0,000	0,000
B556	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-8,220	<b>0,068</b>	0,000	0,000
B556	CS40 - RRO160X80X4.5	4,168	NC3	0,000	0,000	0,000	0,063	<b>-17,129</b>	1,629
B556	CS40 - RRO160X80X4.5	4,168	NC5	0,000	0,000	0,000	-0,017	<b>15,188</b>	1,629
B556	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	6,401	-0,244	0,000	<b>0,000</b>
B556	CS40 - RRO160X80X4.5	4,168	NC1	0,000	0,000	0,000	-0,006	0,000	<b>1,833</b>
B560	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-6,400	0,180	0,000	0,000
B560	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	0,031	0,000	0,000
B560	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,001	0,000	0,000
B560	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,001	0,000	0,000
B560	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,218</b>	-0,044	0,000	0,000
B560	CS40 - RRO160X80X4.5	8,333	NC3	0,000	-0,782	<b>8,218</b>	-0,044	0,000	0,000
B560	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,782	-8,218	<b>-0,044</b>	0,000	0,000
B560	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	6,400	<b>0,180</b>	0,000	0,000
B560	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,044	<b>-17,121</b>	1,628
B560	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	-0,017	<b>15,181</b>	1,628
B560	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-8,218	-0,044	0,000	<b>0,000</b>
B560	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,001	0,000	<b>1,832</b>
B561	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	-6,400	0,331	0,000	0,000
B561	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	0,118	0,000	0,000
B561	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,005	0,000	0,000
B561	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,005	0,000	0,000
B561	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	<b>-8,218</b>	-0,128	0,000	0,000
B561	CS40 - RRO160X80X4.5	8,333	NC3	0,000	-0,782	<b>8,218</b>	-0,128	0,000	0,000
B561	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-8,218	<b>-0,129</b>	0,000	0,000
B561	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	6,400	<b>0,331</b>	0,000	0,000
B561	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,128	<b>-17,121</b>	1,628
B561	CS40 - RRO160X80X4.5	4,167	NC5	0,000	0,000	0,000	0,048	<b>15,181</b>	1,628
B561	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	4,500	0,113	0,000	<b>0,000</b>
B561	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,005	0,000	<b>1,832</b>
B562	CS40 - RRO160X80X4.5	8,333	NC15	<b>0,000</b>	-0,586	-8,631	-0,360	0,000	0,000
B562	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	-0,115	0,000	0,000
B562	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,020	0,000	0,000
B562	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,020	0,000	0,000
B562	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-8,631</b>	-0,377	0,000	0,000
B562	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>8,631</b>	<b>-0,377</b>	0,000	0,000
B562	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,586	7,287	<b>0,140</b>	0,000	0,000
B562	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,001	<b>-17,121</b>	1,628
B562	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,377	<b>17,980</b>	1,628
B562	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	8,631	-0,360	0,000	<b>0,000</b>
B562	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,020	0,000	<b>1,832</b>
B563	CS40 - RRO160X80X4.5	8,333	NC15	<b>0,000</b>	-0,586	-9,281	-0,061	0,000	0,000
B563	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-4,500	0,072	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B563	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,023	0,000	0,000
B563	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,023	0,000	0,000
B563	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-9,281</b>	-0,050	0,000	0,000
B563	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>10,759</b>	-0,050	0,000	0,000
B563	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-8,218	<b>-0,278</b>	0,000	0,000
B563	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,782	7,287	<b>0,353</b>	0,000	0,000
B563	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,270	<b>-17,121</b>	1,628
B563	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	-0,650	-0,050	<b>20,690</b>	1,628
B563	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,586	4,500	0,033	0,000	<b>0,000</b>
B563	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,023	0,000	<b>1,832</b>
B564	CS40 - RRO160X80X4.5	8,333	NC8	<b>0,000</b>	-0,782	-7,656	0,430	0,000	0,000
B564	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-6,775	0,145	0,000	0,000
B564	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,040	0,000	0,000
B564	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,040	0,000	0,000
B564	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-7,656</b>	0,430	0,000	0,000
B564	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,656</b>	0,430	0,000	0,000
B564	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,782	-4,987	<b>-0,112</b>	0,000	0,000
B564	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	7,656	<b>0,430</b>	0,000	0,000
B564	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,112	<b>-10,390</b>	1,628
B564	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,430	<b>15,949</b>	1,628
B564	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	5,534	0,119	0,000	<b>0,000</b>
B564	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,040	0,000	<b>1,832</b>
B565	CS40 - RRO160X80X4.5	8,331	NC7	<b>0,000</b>	-0,781	<b>-7,654</b>	0,125	0,000	0,000
B565	CS40 - RRO160X80X4.5	8,331	NC9	<b>0,000</b>	-0,781	-4,084	-0,068	0,000	0,000
B565	CS40 - RRO160X80X4.5	8,331	NC1	0,000	<b>-0,879</b>	0,000	0,000	0,000	0,000
B565	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,000	0,000	0,000
B565	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,781	<b>7,654</b>	<b>0,125</b>	0,000	0,000
B565	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,586	3,112	<b>-0,116</b>	0,000	<b>0,000</b>
B565	CS40 - RRO160X80X4.5	4,165	NC3	0,000	0,000	0,000	0,028	<b>-10,385</b>	1,627
B565	CS40 - RRO160X80X4.5	4,165	NC7	0,000	0,000	0,000	0,125	<b>15,942</b>	1,627
B565	CS40 - RRO160X80X4.5	4,165	NC1	0,000	0,000	0,000	0,000	0,000	<b>1,831</b>
B566	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-7,656</b>	-0,291	0,000	0,000
B566	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-3,112	-0,089	0,000	0,000
B566	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,013	0,000	0,000
B566	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,013	0,000	0,000
B566	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,656</b>	-0,291	0,000	0,000
B566	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	7,656	<b>-0,292</b>	0,000	0,000
B566	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-4,987	<b>0,159</b>	0,000	0,000
B566	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,152	<b>-10,390</b>	1,628
B566	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,291	<b>15,949</b>	1,628
B566	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	7,656	-0,288	0,000	<b>0,000</b>
B566	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,013	0,000	<b>1,832</b>
B568	CS40 - RRO160X80X4.5	8,335	NC7	<b>0,000</b>	-0,782	<b>-7,658</b>	-0,253	0,000	0,000
B568	CS40 - RRO160X80X4.5	8,335	NC9	<b>0,000</b>	-0,782	-3,113	-0,088	0,000	0,000
B568	CS40 - RRO160X80X4.5	8,335	NC1	0,000	<b>-0,880</b>	0,000	-0,006	0,000	0,000
B568	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,880</b>	0,000	-0,006	0,000	0,000
B568	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,658</b>	-0,253	0,000	0,000
B568	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,782	7,658	<b>-0,253</b>	0,000	0,000
B568	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-4,988	<b>0,103</b>	0,000	0,000
B568	CS40 - RRO160X80X4.5	4,168	NC3	0,000	0,000	0,000	0,098	<b>-10,395</b>	1,629
B568	CS40 - RRO160X80X4.5	4,168	NC7	0,000	0,000	0,000	-0,253	<b>15,957</b>	1,629
B568	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	7,658	-0,250	0,000	<b>0,000</b>
B568	CS40 - RRO160X80X4.5	4,168	NC1	0,000	0,000	0,000	-0,006	0,000	<b>1,833</b>
B572	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-7,656</b>	0,183	0,000	0,000
B572	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-3,112	0,041	0,000	0,000
B572	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,001	0,000	0,000
B572	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,656</b>	<b>0,183</b>	0,000	0,000
B572	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,782	-4,987	<b>-0,078</b>	0,000	0,000
B572	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,078	<b>-10,390</b>	1,628
B572	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,183	<b>15,949</b>	1,628
B572	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-4,987	-0,078	0,000	<b>0,000</b>
B572	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,001	0,000	<b>1,832</b>
B573	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-7,656</b>	0,422	0,000	0,000
B573	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-3,112	0,146	0,000	0,000
B573	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,006	0,000	0,000
B573	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,006	0,000	0,000
B573	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>7,656</b>	<b>0,422</b>	0,000	0,000
B573	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-4,987	<b>-0,188</b>	0,000	0,000
B573	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,187	<b>-10,390</b>	1,628
B573	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,422	<b>15,949</b>	1,628
B573	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	3,112	0,140	0,000	<b>0,000</b>
B573	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,006	0,000	<b>1,832</b>
B574	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-9,481</b>	-0,352	0,000	0,000
B574	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-3,112	-0,159	0,000	0,000
B574	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,022	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B574	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,022	0,000	0,000
B574	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>9,481</b>	<b>-0,352</b>	0,000	0,000
B574	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,586	-4,987	<b>0,110</b>	0,000	0,000
B574	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,102	<b>-10,390</b>	1,628
B574	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,352	<b>19,751</b>	1,628
B574	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	9,481	-0,333	0,000	<b>0,000</b>
B574	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,022	0,000	<b>1,832</b>
B575	CS40 - RRO160X80X4.5	8,333	NC15	<b>0,000</b>	-0,586	-10,026	-0,157	0,000	0,000
B575	CS40 - RRO160X80X4.5	1,667	NC4	<b>0,000</b>	0,469	-2,992	-0,050	-6,649	1,042
B575	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,025	0,000	0,000
B575	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,025	0,000	0,000
B575	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-10,026</b>	-0,146	0,000	0,000
B575	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>11,264</b>	-0,146	0,000	0,000
B575	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,586	11,264	<b>-0,157</b>	0,000	0,000
B575	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,782	3,112	<b>0,132</b>	0,000	0,000
B575	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,051	<b>-10,390</b>	1,628
B575	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	-0,545	-0,146	<b>22,021</b>	1,628
B575	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,586	3,112	-0,055	0,000	<b>0,000</b>
B575	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,025	0,000	<b>1,832</b>
B576	CS46 - RRO160X80X5K	1,667	NC17	<b>0,000</b>	0,384	4,422	0,080	9,446	0,852
B576	CS46 - RRO160X80X5K	0,000	NC3	<b>0,000</b>	0,853	-6,450	<b>-0,090</b>	0,000	0,000
B576	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,025	0,000	0,000
B576	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,025	0,000	0,000
B576	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-9,506</b>	0,303	0,000	0,000
B576	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,506</b>	0,303	0,000	0,000
B576	CS46 - RRO160X80X5K	0,000	NC8	0,000	0,853	9,506	<b>0,303</b>	0,000	0,000
B576	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,090	<b>-13,436</b>	1,776
B576	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,303	<b>19,803</b>	1,776
B576	CS46 - RRO160X80X5K	0,000	NC17	0,000	0,639	6,914	0,080	0,000	<b>0,000</b>
B576	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,025	0,000	<b>1,998</b>
B577	CS46 - RRO160X80X5K	8,331	NC7	<b>0,000</b>	-0,852	<b>-9,504</b>	0,028	0,000	0,000
B577	CS46 - RRO160X80X5K	8,331	NC9	<b>0,000</b>	-0,852	-5,104	-0,063	0,000	0,000
B577	CS46 - RRO160X80X5K	8,331	NC1	0,000	<b>-0,959</b>	0,000	0,001	0,000	0,000
B577	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,001	0,000	0,000
B577	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,852	<b>9,504</b>	0,028	0,000	0,000
B577	CS46 - RRO160X80X5K	0,000	NC13	0,000	0,639	3,893	<b>-0,091</b>	0,000	<b>0,000</b>
B577	CS46 - RRO160X80X5K	0,000	NC4	0,000	0,852	-6,448	<b>0,032</b>	0,000	0,000
B577	CS46 - RRO160X80X5K	4,165	NC3	0,000	0,000	0,000	0,032	<b>-13,430</b>	1,775
B577	CS46 - RRO160X80X5K	4,165	NC7	0,000	0,000	0,000	0,028	<b>19,794</b>	1,775
B577	CS46 - RRO160X80X5K	4,165	NC1	0,000	0,000	0,000	0,001	0,000	<b>1,997</b>
B578	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-9,506</b>	-0,217	0,000	0,000
B578	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-3,894	-0,072	0,000	0,000
B578	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,015	0,000	0,000
B578	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,015	0,000	0,000
B578	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,506</b>	-0,217	0,000	0,000
B578	CS46 - RRO160X80X5K	0,000	NC8	0,000	0,853	9,506	<b>-0,217</b>	0,000	0,000
B578	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-6,450	<b>0,175</b>	0,000	0,000
B578	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,166	<b>-13,436</b>	1,776
B578	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	-0,217	<b>19,803</b>	1,776
B578	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	9,506	-0,212	0,000	<b>0,000</b>
B578	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,015	0,000	<b>1,998</b>
B580	CS46 - RRO160X80X5K	8,335	NC7	<b>0,000</b>	-0,853	<b>-9,508</b>	-0,200	0,000	0,000
B580	CS46 - RRO160X80X5K	8,335	NC9	<b>0,000</b>	-0,853	-3,895	-0,081	0,000	0,000
B580	CS46 - RRO160X80X5K	8,335	NC1	0,000	<b>-0,959</b>	0,000	-0,007	0,000	0,000
B580	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,007	0,000	0,000
B580	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,508</b>	-0,200	0,000	0,000
B580	CS46 - RRO160X80X5K	0,000	NC8	0,000	0,853	9,508	<b>-0,200</b>	0,000	0,000
B580	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,640	-6,451	<b>0,108</b>	0,000	0,000
B580	CS46 - RRO160X80X5K	4,168	NC3	0,000	0,000	0,000	0,103	<b>-13,443</b>	1,777
B580	CS46 - RRO160X80X5K	4,168	NC7	0,000	0,000	0,000	-0,200	<b>19,813</b>	1,777
B580	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,640	9,508	-0,196	0,000	<b>0,000</b>
B580	CS46 - RRO160X80X5K	4,168	NC1	0,000	0,000	0,000	-0,007	0,000	<b>1,999</b>
B584	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-9,506</b>	0,123	0,000	0,000
B584	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-3,894	0,030	0,000	0,000
B584	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,000	0,000	0,000
B584	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,000	0,000	0,000
B584	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,506</b>	<b>0,123</b>	0,000	0,000
B584	CS46 - RRO160X80X5K	0,000	NC4	0,000	0,853	-6,450	<b>-0,082</b>	0,000	0,000
B584	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,081	<b>-13,436</b>	1,776
B584	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,123	<b>19,803</b>	1,776
B584	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-6,450	-0,081	0,000	<b>0,000</b>
B584	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,000	0,000	<b>1,998</b>
B585	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-9,506</b>	0,330	0,000	0,000
B585	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-3,894	0,139	0,000	0,000
B585	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,007	0,000	0,000
B585	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,007	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B585	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>9,506</b>	<b>0,330</b>	0,000	0,000
B585	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-6,450	<b>-0,201</b>	0,000	0,000
B585	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,199	<b>-13,436</b>	1,776
B585	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,330	<b>19,803</b>	1,776
B585	CS46 - RRO160X80X5K	0,000	NC17	0,000	0,639	3,894	0,133	0,000	<b>0,000</b>
B585	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,007	0,000	<b>1,998</b>
B586	CS46 - RRO160X80X5K	8,333	NC8	<b>0,000</b>	-0,853	-11,850	-0,208	0,000	0,000
B586	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-3,894	-0,139	0,000	0,000
B586	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,025	0,000	0,000
B586	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,025	0,000	0,000
B586	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-11,850</b>	-0,208	0,000	0,000
B586	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,850</b>	<b>-0,208</b>	0,000	0,000
B586	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-6,450	<b>0,116</b>	0,000	0,000
B586	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,107	<b>-13,436</b>	1,776
B586	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	-0,208	<b>24,686</b>	1,776
B586	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	11,850	-0,187	0,000	<b>0,000</b>
B586	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,025	0,000	<b>1,998</b>
B587	CS46 - RRO160X80X5K	1,667	NC15	<b>0,000</b>	0,384	8,096	-0,073	18,480	0,852
B587	CS46 - RRO160X80X5K	0,000	NC12	<b>0,000</b>	0,639	-6,450	-0,076	0,000	0,000
B587	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,028	0,000	0,000
B587	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,028	0,000	0,000
B587	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-12,531</b>	-0,060	0,000	0,000
B587	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>14,081</b>	-0,060	0,000	0,000
B587	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-6,450	<b>-0,077</b>	0,000	0,000
B587	CS46 - RRO160X80X5K	0,000	NC6	0,000	0,853	3,894	<b>0,126</b>	0,000	0,000
B587	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,068	<b>-13,436</b>	1,776
B587	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	-0,682	-0,060	<b>27,526</b>	1,776
B587	CS46 - RRO160X80X5K	0,000	NC18	0,000	0,639	3,894	-0,038	0,000	<b>0,000</b>
B587	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,028	0,000	<b>1,998</b>
B588	CS46 - RRO160X80X5K	0,000	NC10	<b>0,000</b>	0,853	8,295	-0,098	0,000	0,000
B588	CS46 - RRO160X80X5K	0,000	NC11	<b>0,000</b>	0,639	-7,481	0,107	0,000	0,000
B588	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,003	0,000	0,000
B588	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,003	0,000	0,000
B588	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-11,406</b>	-0,134	0,000	0,000
B588	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,406</b>	<b>-0,134</b>	0,000	0,000
B588	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-7,481	<b>0,107</b>	0,000	0,000
B588	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,101	<b>-15,585</b>	1,776
B588	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	-0,134	<b>23,761</b>	1,776
B588	CS46 - RRO160X80X5K	0,000	NC17	0,000	0,639	8,295	-0,111	0,000	<b>0,000</b>
B588	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,003	0,000	<b>1,998</b>
B589	CS46 - RRO160X80X5K	0,000	NC9	<b>-0,004</b>	0,374	4,486	-0,039	0,000	0,000
B589	CS46 - RRO160X80X5K	0,000	NC7	<b>0,004</b>	0,374	9,976	-0,251	0,000	0,000
B589	CS46 - RRO160X80X5K	4,542	NC1	0,000	<b>-0,627</b>	-0,001	0,002	-0,006	<b>-0,472</b>
B589	CS46 - RRO160X80X5K	4,542	NC1	0,000	<b>0,457</b>	0,001	0,002	-0,008	-0,472
B589	CS46 - RRO160X80X5K	8,331	NC16	0,000	-0,185	<b>-10,414</b>	-0,242	0,000	0,000
B589	CS46 - RRO160X80X5K	0,000	NC15	0,003	0,281	<b>9,977</b>	-0,254	0,000	0,000
B589	CS46 - RRO160X80X5K	0,000	NC16	0,003	0,281	9,977	<b>-0,254</b>	0,000	0,000
B589	CS46 - RRO160X80X5K	0,000	NC4	-0,003	0,376	-6,525	<b>0,142</b>	0,000	0,000
B589	CS46 - RRO160X80X5K	4,542	NC4	-0,002	0,396	1,710	0,142	<b>-11,902</b>	-0,402
B589	CS46 - RRO160X80X5K	4,542	NC16	0,001	0,318	-2,606	-0,251	<b>18,328</b>	-0,306
B589	CS46 - RRO160X80X5K	1,817	NC1	0,000	0,001	-0,001	0,002	-0,002	<b>0,381</b>
B590	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-11,406</b>	0,042	0,000	0,000
B590	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-4,669	0,027	0,000	0,000
B590	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,015	0,000	0,000
B590	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,015	0,000	0,000
B590	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,406</b>	0,042	0,000	0,000
B590	CS46 - RRO160X80X5K	0,000	NC6	0,000	0,853	4,669	<b>-0,090</b>	0,000	0,000
B590	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-7,481	<b>0,072</b>	0,000	0,000
B590	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,064	<b>-15,585</b>	1,776
B590	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,042	<b>23,761</b>	1,776
B590	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	11,406	0,047	0,000	<b>0,000</b>
B590	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,015	0,000	<b>1,998</b>
B592	CS46 - RRO160X80X5K	8,335	NC7	<b>0,000</b>	-0,853	<b>-11,409</b>	-0,004	0,000	0,000
B592	CS46 - RRO160X80X5K	8,335	NC9	<b>0,000</b>	-0,853	-4,670	-0,018	0,000	0,000
B592	CS46 - RRO160X80X5K	8,335	NC1	0,000	<b>-0,959</b>	0,000	-0,007	0,000	0,000
B592	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,007	0,000	0,000
B592	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,409</b>	-0,004	0,000	0,000
B592	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	4,670	<b>-0,060</b>	0,000	0,000
B592	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,640	-7,483	<b>0,028</b>	0,000	0,000
B592	CS46 - RRO160X80X5K	4,168	NC3	0,000	0,000	0,000	0,022	<b>-15,592</b>	1,777
B592	CS46 - RRO160X80X5K	4,168	NC7	0,000	0,000	0,000	-0,004	<b>23,773</b>	1,777
B592	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,640	11,409	-0,001	0,000	<b>0,000</b>
B592	CS46 - RRO160X80X5K	4,168	NC1	0,000	0,000	0,000	-0,007	0,000	<b>1,999</b>
B596	CS46 - RRO160X80X5K	0,000	NC11	<b>-0,007</b>	0,401	-6,688	-0,002	0,000	0,000
B596	CS46 - RRO160X80X5K	0,000	NC7	<b>0,003</b>	0,532	<b>10,198</b>	-0,072	0,000	0,000
B596	CS46 - RRO160X80X5K	6,633	NC1	0,000	<b>-0,927</b>	0,000	0,000	-0,001	<b>-1,086</b>



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B596	CS46 - RRO160X80X5K	6,633	NC8	-0,003	<b>1,207</b>	-9,063	-0,060	12,209	-0,974
B596	CS46 - RRO160X80X5K	8,333	NC16	0,000	-0,677	<b>-12,417</b>	-0,051	0,000	0,000
B596	CS46 - RRO160X80X5K	0,000	NC16	0,002	0,398	10,197	<b>-0,077</b>	0,000	0,000
B596	CS46 - RRO160X80X5K	0,000	NC13	-0,004	0,400	4,181	<b>0,024</b>	0,000	0,000
B596	CS46 - RRO160X80X5K	3,980	NC4	-0,007	-0,280	0,458	-0,003	<b>-12,397</b>	0,506
B596	CS46 - RRO160X80X5K	3,980	NC7	0,003	-0,283	-0,697	-0,072	<b>18,907</b>	0,496
B596	CS46 - RRO160X80X5K	2,653	NC1	0,000	-0,011	0,000	0,000	0,000	<b>0,781</b>
B597	CS46 - RRO160X80X5K	8,333	NC7	<b>0,000</b>	-0,853	<b>-11,406</b>	-0,051	0,000	0,000
B597	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	-4,669	0,046	0,000	0,000
B597	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,008	0,000	0,000
B597	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,008	0,000	0,000
B597	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>11,406</b>	-0,051	0,000	0,000
B597	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-7,481	<b>-0,077</b>	0,000	0,000
B597	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	4,669	<b>0,107</b>	0,000	0,000
B597	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,075	<b>-15,585</b>	1,776
B597	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	-0,051	<b>23,761</b>	1,776
B597	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-7,481	-0,077	0,000	<b>0,000</b>
B597	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,008	0,000	<b>1,998</b>
B598	CS46 - RRO160X80X5K	8,333	NC8	<b>0,000</b>	-0,853	-14,218	0,248	0,000	0,000
B598	CS46 - RRO160X80X5K	8,333	NC10	<b>0,000</b>	-0,853	-4,669	0,036	0,000	0,000
B598	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,026	0,000	0,000
B598	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,026	0,000	0,000
B598	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-14,218</b>	0,247	0,000	0,000
B598	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>14,218</b>	0,247	0,000	0,000
B598	CS46 - RRO160X80X5K	0,000	NC3	0,000	0,853	-7,481	<b>-0,085</b>	0,000	0,000
B598	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	14,218	<b>0,270</b>	0,000	<b>0,000</b>
B598	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,085	<b>-15,585</b>	1,776
B598	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,247	<b>29,620</b>	1,776
B598	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,026	0,000	<b>1,998</b>
B599	CS46 - RRO160X80X5K	0,000	NC7	<b>0,000</b>	0,853	<b>16,898</b>	<b>0,186</b>	0,000	0,000
B599	CS46 - RRO160X80X5K	0,000	NC3	<b>0,000</b>	0,853	-7,481	-0,168	0,000	0,000
B599	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,028	0,000	0,000
B599	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,028	0,000	0,000
B599	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>-15,037</b>	0,186	0,000	0,000
B599	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-7,481	<b>-0,178</b>	0,000	0,000
B599	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	-0,168	<b>-15,585</b>	1,776
B599	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	-0,819	0,186	<b>33,031</b>	1,776
B599	CS46 - RRO160X80X5K	0,000	NC18	0,000	0,639	4,669	0,038	0,000	<b>0,000</b>
B599	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,028	0,000	<b>1,998</b>
B600	CS40 - RRO160X80X4.5	0,000	NC9	<b>0,000</b>	0,782	5,057	-0,268	0,000	0,000
B600	CS40 - RRO160X80X4.5	0,000	NC12	<b>0,000</b>	0,586	-4,556	<b>0,249</b>	0,000	0,000
B600	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,006	0,000	0,000
B600	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,006	0,000	0,000
B600	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-6,956</b>	-0,417	0,000	0,000
B600	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>6,956</b>	<b>-0,417</b>	0,000	0,000
B600	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,247	<b>-9,491</b>	1,628
B600	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,417	<b>14,491</b>	1,628
B600	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,586	5,057	-0,238	0,000	<b>0,000</b>
B600	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,006	0,000	<b>1,832</b>
B602	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,586	6,956	0,228	0,000	<b>0,000</b>
B602	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,850	0,104	0,000	0,000
B602	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,014	0,000	0,000
B602	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,014	0,000	0,000
B602	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-6,956</b>	0,224	0,000	0,000
B602	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>6,956</b>	0,224	0,000	0,000
B602	CS40 - RRO160X80X4.5	0,000	NC6	0,000	0,782	2,850	<b>-0,038</b>	0,000	0,000
B602	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,586	6,956	<b>0,228</b>	0,000	0,000
B602	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,036	<b>-9,491</b>	1,628
B602	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,224	<b>14,491</b>	1,628
B602	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,014	0,000	<b>1,832</b>
B604	CS40 - RRO160X80X4.5	8,335	NC7	<b>0,000</b>	-0,782	<b>-6,958</b>	0,132	0,000	0,000
B604	CS40 - RRO160X80X4.5	8,335	NC9	<b>0,000</b>	-0,782	-2,851	0,032	0,000	0,000
B604	CS40 - RRO160X80X4.5	8,335	NC1	0,000	<b>-0,880</b>	0,000	-0,007	0,000	0,000
B604	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,880</b>	0,000	-0,007	0,000	0,000
B604	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>6,958</b>	0,132	0,000	0,000
B604	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	-4,557	<b>-0,049</b>	0,000	0,000
B604	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,586	6,958	<b>0,135</b>	0,000	0,000
B604	CS40 - RRO160X80X4.5	4,168	NC3	0,000	0,000	0,000	-0,049	<b>-9,496</b>	1,629
B604	CS40 - RRO160X80X4.5	4,168	NC7	0,000	0,000	0,000	0,132	<b>14,498</b>	1,629
B604	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,586	6,958	0,135	0,000	<b>0,000</b>
B604	CS40 - RRO160X80X4.5	4,168	NC1	0,000	0,000	0,000	-0,007	0,000	<b>1,833</b>
B608	CS40 - RRO160X80X4.5	0,000	NC7	<b>0,000</b>	0,622	<b>5,537</b>	<b>1,253</b>	0,000	0,000
B608	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,000</b>	0,467	2,268	0,581	0,000	0,000
B608	CS40 - RRO160X80X4.5	6,633	NC1	0,000	<b>-0,700</b>	0,000	0,003	0,000	0,000
B608	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,700</b>	0,000	0,003	0,000	0,000
B608	CS40 - RRO160X80X4.5	6,633	NC7	0,000	-0,622	<b>-5,537</b>	1,253	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B608	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,622	-3,627	<b>-0,912</b>	0,000	0,000
B608	CS40 - RRO160X80X4.5	3,317	NC3	0,000	0,000	0,000	-0,912	<b>-6,014</b>	1,032
B608	CS40 - RRO160X80X4.5	3,317	NC7	0,000	0,000	0,000	1,253	<b>9,182</b>	1,032
B608	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,467	-3,627	-0,912	0,000	<b>0,000</b>
B608	CS40 - RRO160X80X4.5	3,317	NC1	0,000	0,000	0,000	0,003	0,000	<b>1,161</b>
B610	CS40 - RRO160X80X4.5	0,000	NC9	<b>0,000</b>	0,782	2,850	0,129	0,000	0,000
B610	CS40 - RRO160X80X4.5	0,000	NC16	<b>0,000</b>	0,586	8,675	<b>0,567</b>	0,000	<b>0,000</b>
B610	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	-0,024	0,000	0,000
B610	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	-0,024	0,000	0,000
B610	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-8,675</b>	0,546	0,000	0,000
B610	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>8,675</b>	0,546	0,000	0,000
B610	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,782	-4,556	<b>-0,246</b>	0,000	0,000
B610	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,246	<b>-9,491</b>	1,628
B610	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	0,546	<b>18,071</b>	1,628
B610	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	-0,024	0,000	<b>1,832</b>
B611	CS40 - RRO160X80X4.5	5,000	NC7	<b>0,000</b>	-0,156	-2,235	0,341	19,014	1,563
B611	CS40 - RRO160X80X4.5	0,000	NC3	<b>0,000</b>	0,782	-4,556	-0,236	0,000	0,000
B611	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,026	0,000	0,000
B611	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,026	0,000	0,000
B611	CS40 - RRO160X80X4.5	8,333	NC7	0,000	-0,782	<b>-9,174</b>	0,341	0,000	0,000
B611	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>10,310</b>	<b>0,341</b>	0,000	0,000
B611	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-4,556	<b>-0,245</b>	0,000	0,000
B611	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	-0,236	<b>-9,491</b>	1,628
B611	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	-0,500	0,341	<b>20,153</b>	1,628
B611	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,586	2,850	0,093	0,000	<b>0,000</b>
B611	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,026	0,000	<b>1,832</b>
B612	CS46 - RRO160X80X5K	8,333	NC15	<b>0,000</b>	-0,639	4,959	0,363	0,000	0,000
B612	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	-0,139	0,000	0,000
B612	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,055	0,000	0,000
B612	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,055	0,000	0,000
B612	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>-6,073</b>	0,310	0,000	0,000
B612	CS46 - RRO160X80X5K	8,333	NC7	0,000	-0,853	<b>4,959</b>	0,310	0,000	0,000
B612	CS46 - RRO160X80X5K	0,000	NC4	0,000	0,853	-2,794	<b>-0,433</b>	0,000	0,000
B612	CS46 - RRO160X80X5K	0,000	NC13	0,000	0,639	4,469	<b>0,391</b>	0,000	0,000
B612	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,490	0,310	<b>-11,351</b>	1,776
B612	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	0,384	<b>9,309</b>	1,776
B612	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	-6,073	0,362	0,000	<b>0,000</b>
B612	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,055	0,000	<b>1,998</b>
B613	CS46 - RRO160X80X5K	8,333	NC15	<b>0,000</b>	-0,639	4,469	0,052	0,000	0,000
B613	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	-0,057	0,000	0,000
B613	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,132	0,000	0,000
B613	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,132	0,000	0,000
B613	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>-4,469</b>	0,119	0,000	0,000
B613	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,469</b>	0,004	0,000	0,000
B613	CS46 - RRO160X80X5K	0,000	NC18	0,000	0,639	-2,712	<b>-0,225</b>	0,000	0,000
B613	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,325</b>	0,000	0,000
B613	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,119	<b>-9,309</b>	1,776
B613	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	0,004	<b>9,309</b>	1,776
B613	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-2,794	0,030	0,000	<b>0,000</b>
B613	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,132	0,000	<b>1,998</b>
B614	CS46 - RRO160X80X5K	8,333	NC16	<b>0,000</b>	-0,639	4,469	0,175	0,000	0,000
B614	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	0,110	0,000	0,000
B614	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,019	0,000	0,000
B614	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,019	0,000	0,000
B614	CS46 - RRO160X80X5K	0,000	NC7	0,000	0,853	<b>-4,469</b>	0,162	0,000	0,000
B614	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,469</b>	0,194	0,000	0,000
B614	CS46 - RRO160X80X5K	0,000	NC3	0,000	0,853	-2,794	<b>-0,290</b>	0,000	0,000
B614	CS46 - RRO160X80X5K	0,000	NC14	0,000	0,639	4,469	<b>0,199</b>	0,000	0,000
B614	CS46 - RRO160X80X5K	4,167	NC7	0,000	0,000	0,000	0,162	<b>-9,309</b>	1,776
B614	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	0,194	<b>9,309</b>	1,776
B614	CS46 - RRO160X80X5K	0,000	NC15	0,000	0,639	-4,469	0,175	0,000	<b>0,000</b>
B614	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,019	0,000	<b>1,998</b>
B615	CS46 - RRO160X80X5K	8,333	NC16	<b>0,000</b>	-0,639	2,712	-0,138	0,000	0,000
B615	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	-0,045	0,000	0,000
B615	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	0,072	0,000	0,000
B615	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,072	0,000	0,000
B615	CS46 - RRO160X80X5K	8,333	NC5	0,000	-0,853	<b>-4,469</b>	0,013	0,000	0,000
B615	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,469</b>	0,013	0,000	0,000
B615	CS46 - RRO160X80X5K	0,000	NC18	0,000	0,639	-2,712	<b>-0,142</b>	0,000	0,000
B615	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,176</b>	0,000	0,000
B615	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,085	<b>-5,820</b>	1,776
B615	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	0,013	<b>9,309</b>	1,776
B615	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-2,794	0,042	0,000	<b>0,000</b>
B615	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	0,072	0,000	<b>1,998</b>
B619	CS46 - RRO160X80X5K	8,335	NC16	<b>0,000</b>	-0,640	2,713	-0,277	0,000	0,000
B619	CS46 - RRO160X80X5K	8,335	NC9	<b>0,000</b>	-0,853	2,713	-0,115	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B619	CS46 - RRO160X80X5K	8,335	NC1	0,000	<b>-0,959</b>	0,000	0,060	0,000	0,000
B619	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	0,060	0,000	0,000
B619	CS46 - RRO160X80X5K	8,335	NC5	0,000	-0,853	<b>-4,470</b>	-0,100	0,000	0,000
B619	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,470</b>	-0,100	0,000	0,000
B619	CS46 - RRO160X80X5K	0,000	NC15	0,000	0,640	-2,713	<b>-0,277</b>	0,000	0,000
B619	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>0,178</b>	-0,000	0,000
B619	CS46 - RRO160X80X5K	4,168	NC3	0,000	0,000	0,000	0,047	<b>-5,823</b>	1,777
B619	CS46 - RRO160X80X5K	4,168	NC5	0,000	0,000	0,000	-0,100	<b>9,314</b>	1,777
B619	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,640	-2,713	-0,277	0,000	<b>0,000</b>
B619	CS46 - RRO160X80X5K	4,168	NC1	0,000	0,000	0,000	0,060	0,000	<b>1,999</b>
B621	CS46 - RRO160X80X5K	8,333	NC16	<b>0,000</b>	-0,639	2,712	0,012	0,000	0,000
B621	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	2,712	0,007	0,000	0,000
B621	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,011	0,000	0,000
B621	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,011	0,000	0,000
B621	CS46 - RRO160X80X5K	8,333	NC5	0,000	-0,853	<b>-4,469</b>	0,020	0,000	0,000
B621	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,853	<b>4,469</b>	0,020	0,000	0,000
B621	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>-0,032</b>	0,000	<b>0,000</b>
B621	CS46 - RRO160X80X5K	0,000	NC11	0,000	0,639	-2,794	<b>0,073</b>	0,000	0,000
B621	CS46 - RRO160X80X5K	4,167	NC3	0,000	0,000	0,000	0,072	<b>-5,820</b>	1,776
B621	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	0,020	<b>9,309</b>	1,776
B621	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,011	0,000	<b>1,998</b>
B622	CS46 - RRO160X80X5K	8,331	NC8	<b>0,000</b>	-0,852	2,712	-0,119	0,000	0,000
B622	CS46 - RRO160X80X5K	8,331	NC9	<b>0,000</b>	-0,852	4,467	-0,269	0,000	0,000
B622	CS46 - RRO160X80X5K	8,331	NC1	0,000	<b>-0,959</b>	0,000	-0,061	0,000	0,000
B622	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,061	0,000	0,000
B622	CS46 - RRO160X80X5K	0,000	NC9	0,000	0,852	<b>-4,467</b>	-0,269	0,000	0,000
B622	CS46 - RRO160X80X5K	0,000	NC5	0,000	0,852	<b>4,467</b>	-0,254	0,000	0,000
B622	CS46 - RRO160X80X5K	0,000	NC10	0,000	0,852	-4,467	<b>-0,281</b>	0,000	0,000
B622	CS46 - RRO160X80X5K	0,000	NC12	0,000	0,639	-2,793	<b>0,149</b>	0,000	0,000
B622	CS46 - RRO160X80X5K	4,165	NC9	0,000	0,000	0,000	-0,269	<b>-9,305</b>	1,775
B622	CS46 - RRO160X80X5K	4,165	NC5	0,000	0,000	0,000	-0,254	<b>9,305</b>	1,775
B622	CS46 - RRO160X80X5K	0,000	NC18	0,000	0,639	-4,467	-0,249	0,000	<b>0,000</b>
B622	CS46 - RRO160X80X5K	4,165	NC1	0,000	0,000	0,000	-0,061	0,000	<b>1,997</b>
B623	CS46 - RRO160X80X5K	8,333	NC8	<b>0,000</b>	-0,853	2,712	0,563	0,000	0,000
B623	CS46 - RRO160X80X5K	8,333	NC9	<b>0,000</b>	-0,853	<b>6,036</b>	-0,442	0,000	0,000
B623	CS46 - RRO160X80X5K	8,333	NC1	0,000	<b>-0,959</b>	0,000	-0,241	0,000	0,000
B623	CS46 - RRO160X80X5K	0,000	NC1	0,000	<b>0,959</b>	0,000	-0,241	0,000	0,000
B623	CS46 - RRO160X80X5K	0,000	NC9	0,000	0,853	<b>-4,959</b>	-0,442	0,000	0,000
B623	CS46 - RRO160X80X5K	0,000	NC2	0,000	0,853	0,000	<b>-0,587</b>	0,000	<b>0,000</b>
B623	CS46 - RRO160X80X5K	0,000	NC16	0,000	0,639	-2,712	<b>0,681</b>	0,000	0,000
B623	CS46 - RRO160X80X5K	4,167	NC9	0,000	0,000	-0,490	-0,442	<b>-11,351</b>	1,776
B623	CS46 - RRO160X80X5K	4,167	NC5	0,000	0,000	0,000	-0,185	<b>9,309</b>	1,776
B623	CS46 - RRO160X80X5K	4,167	NC1	0,000	0,000	0,000	-0,241	0,000	<b>1,998</b>
B673	CS40 - RRO160X80X4.5	0,000	NC8	<b>0,000</b>	0,614	1,351	-1,177	0,000	0,000
B673	CS40 - RRO160X80X4.5	6,550	NC16	<b>0,000</b>	-0,461	-1,351	-1,196	0,000	0,000
B673	CS40 - RRO160X80X4.5	6,550	NC1	0,000	<b>-0,691</b>	0,000	0,018	0,000	0,000
B673	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,691</b>	0,000	0,018	0,000	0,000
B673	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,614	<b>-1,351</b>	0,338	0,000	0,000
B673	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,614	<b>1,351</b>	-1,177	0,000	0,000
B673	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,461	1,351	<b>-1,196</b>	0,000	0,000
B673	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,614	-0,845	<b>0,845</b>	0,000	0,000
B673	CS40 - RRO160X80X4.5	3,275	NC5	0,000	0,000	0,000	0,338	<b>-2,212</b>	1,006
B673	CS40 - RRO160X80X4.5	3,275	NC7	0,000	0,000	0,000	-1,177	<b>2,212</b>	1,006
B673	CS40 - RRO160X80X4.5	0,000	NC17	0,000	0,461	-0,845	0,841	0,000	<b>0,000</b>
B673	CS40 - RRO160X80X4.5	3,275	NC1	0,000	0,000	0,000	0,018	0,000	<b>1,132</b>
B674	CS40 - RRO160X80X4.5	0,000	NC15	<b>0,000</b>	0,461	1,351	<b>-0,837</b>	0,000	0,000
B674	CS40 - RRO160X80X4.5	6,550	NC16	<b>0,000</b>	-0,461	-1,351	-0,836	0,000	0,000
B674	CS40 - RRO160X80X4.5	6,550	NC1	0,000	<b>-0,691</b>	0,000	0,015	0,000	0,000
B674	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,691</b>	0,000	0,015	0,000	0,000
B674	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,614	<b>-1,351</b>	0,164	0,000	0,000
B674	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,614	<b>1,351</b>	-0,820	0,000	0,000
B674	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,614	-0,845	<b>0,569</b>	0,000	0,000
B674	CS40 - RRO160X80X4.5	3,275	NC5	0,000	0,000	0,000	0,164	<b>-2,212</b>	1,006
B674	CS40 - RRO160X80X4.5	3,275	NC7	0,000	0,000	0,000	-0,820	<b>2,212</b>	1,006
B674	CS40 - RRO160X80X4.5	0,000	NC13	0,000	0,461	-1,351	0,156	0,000	<b>0,000</b>
B674	CS40 - RRO160X80X4.5	3,275	NC1	0,000	0,000	0,000	0,015	0,000	<b>1,132</b>
B675	CS40 - RRO160X80X4.5	2,620	NC18	<b>0,000</b>	0,092	-0,634	0,914	-4,981	0,724
B675	CS40 - RRO160X80X4.5	0,000	NC3	<b>0,000</b>	0,614	1,267	-0,373	0,000	0,000
B675	CS40 - RRO160X80X4.5	6,550	NC1	0,000	<b>-0,691</b>	0,000	-0,062	0,000	0,000
B675	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,691</b>	0,000	-0,062	0,000	0,000
B675	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,614	<b>-3,169</b>	0,872	0,000	0,000
B675	CS40 - RRO160X80X4.5	6,550	NC9	0,000	-0,614	<b>3,169</b>	0,872	0,000	0,000
B675	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,614	3,090	<b>-0,869</b>	0,000	0,000
B675	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,461	-3,169	<b>0,914</b>	0,000	0,000
B675	CS40 - RRO160X80X4.5	3,275	NC9	0,000	0,000	0,000	0,872	<b>-5,189</b>	1,006
B675	CS40 - RRO160X80X4.5	3,275	NC7	0,000	0,000	0,000	-0,869	<b>5,060</b>	1,006



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B675	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,461	1,267	-0,345	0,000	<b>0,000</b>
B675	CS40 - RRO160X80X4.5	3,275	NC1	0,000	0,000	0,000	-0,062	0,000	<b>1,132</b>
B676	CS40 - RRO160X80X4.5	0,000	NC17	<b>0,000</b>	0,461	-7,659	0,403	0,000	0,000
B676	CS40 - RRO160X80X4.5	6,550	NC18	<b>0,000</b>	-0,461	7,659	0,404	0,000	0,000
B676	CS40 - RRO160X80X4.5	6,550	NC1	0,000	<b>-0,691</b>	0,000	-0,016	0,000	0,000
B676	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,691</b>	0,000	-0,016	0,000	0,000
B676	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,614	<b>-7,659</b>	0,395	0,000	0,000
B676	CS40 - RRO160X80X4.5	6,550	NC9	0,000	-0,614	<b>7,659</b>	0,395	0,000	0,000
B676	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,614	7,472	<b>-0,427</b>	0,000	0,000
B676	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,461	-7,659	<b>0,404</b>	0,000	0,000
B676	CS40 - RRO160X80X4.5	3,275	NC9	0,000	0,000	0,000	0,395	<b>-12,541</b>	1,006
B676	CS40 - RRO160X80X4.5	3,275	NC7	0,000	0,000	0,000	-0,427	<b>12,235</b>	1,006
B676	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,461	3,060	-0,116	0,000	<b>0,000</b>
B676	CS40 - RRO160X80X4.5	3,275	NC1	0,000	0,000	0,000	-0,016	0,000	<b>1,132</b>
B677	CS40 - RRO160X80X4.5	0,000	NC5	<b>-0,003</b>	0,014	5,320	0,024	0,000	0,000
B677	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,005</b>	0,153	<b>-8,228</b>	-0,027	0,000	0,000
B677	CS40 - RRO160X80X4.5	1,990	NC10	0,002	<b>-0,446</b>	-5,496	-0,017	-10,506	-0,379
B677	CS40 - RRO160X80X4.5	1,990	NC1	0,000	<b>0,577</b>	0,006	0,018	-0,026	-0,438
B677	CS40 - RRO160X80X4.5	6,550	NC9	0,000	-0,344	<b>8,115</b>	-0,010	0,000	0,000
B677	CS40 - RRO160X80X4.5	0,000	NC16	0,005	0,097	7,725	<b>-0,057</b>	0,000	0,000
B677	CS40 - RRO160X80X4.5	0,000	NC3	0,004	-0,251	3,289	<b>0,089</b>	0,000	0,000
B677	CS40 - RRO160X80X4.5	3,814	NC9	0,000	0,169	0,588	-0,010	<b>-11,905</b>	0,239
B677	CS40 - RRO160X80X4.5	3,814	NC16	0,000	0,127	-0,556	-0,057	<b>11,565</b>	0,179
B677	CS40 - RRO160X80X4.5	1,990	NC1	0,000	-0,434	0,020	0,018	0,006	<b>-0,438</b>
B677	CS40 - RRO160X80X4.5	4,726	NC1	0,000	0,000	0,006	0,018	-0,010	<b>0,352</b>
B678	CS40 - RRO160X80X4.5	4,560	NC4	<b>0,000</b>	-0,428	-1,560	-0,253	0,000	0,000
B678	CS40 - RRO160X80X4.5	4,560	NC18	<b>0,000</b>	-0,321	4,032	0,901	0,000	0,000
B678	CS40 - RRO160X80X4.5	4,560	NC1	0,000	<b>-0,481</b>	0,000	0,036	0,000	0,000
B678	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,481</b>	0,000	0,036	0,000	0,000
B678	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,428	<b>-4,032</b>	<b>0,933</b>	0,000	0,000
B678	CS40 - RRO160X80X4.5	4,560	NC9	0,000	-0,428	<b>4,032</b>	0,933	0,000	0,000
B678	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,321	3,933	<b>-0,980</b>	0,000	0,000
B678	CS40 - RRO160X80X4.5	1,824	NC9	0,000	0,086	-0,806	0,933	<b>-4,413</b>	0,468
B678	CS40 - RRO160X80X4.5	1,824	NC7	0,000	0,086	0,787	-0,964	<b>4,304</b>	0,468
B678	CS40 - RRO160X80X4.5	0,000	NC14	0,000	0,321	3,745	-0,601	0,000	<b>0,000</b>
B678	CS40 - RRO160X80X4.5	1,824	NC1	0,000	0,096	0,000	0,036	0,000	<b>0,527</b>
B943	CS40 - RRO160X80X4.5	0,000	NC1	<b>-2,085</b>	0,000	-0,003	-0,002	0,000	0,000
B943	CS40 - RRO160X80X4.5	2,475	NC17	<b>-0,682</b>	-0,001	0,093	0,366	0,000	0,000
B943	CS40 - RRO160X80X4.5	0,000	NC7	-1,863	<b>-0,002</b>	<b>-5,512</b>	1,240	-0,003	0,000
B943	CS40 - RRO160X80X4.5	0,000	NC9	-1,811	<b>0,002</b>	-2,687	0,370	0,001	0,000
B943	CS40 - RRO160X80X4.5	0,000	NC11	-1,368	-0,001	<b>3,635</b>	-0,782	0,000	0,002
B943	CS40 - RRO160X80X4.5	0,000	NC4	-1,831	-0,001	3,634	<b>-0,786</b>	0,000	<b>0,002</b>
B943	CS40 - RRO160X80X4.5	0,300	NC16	-1,040	0,000	-1,492	<b>1,250</b>	1,461	0,000
B943	CS40 - RRO160X80X4.5	0,300	NC7	-1,807	-0,001	-5,285	1,240	<b>-1,623</b>	0,000
B943	CS40 - RRO160X80X4.5	0,300	NC7	-1,381	0,000	-1,494	1,247	<b>1,465</b>	0,000
B943	CS40 - RRO160X80X4.5	1,170	NC7	-1,218	0,000	-0,838	1,247	0,451	<b>-0,001</b>
B944	CS40 - RRO160X80X4.5	0,000	NC1	<b>-0,948</b>	0,000	-0,002	-0,003	0,000	0,000
B944	CS40 - RRO160X80X4.5	2,475	NC16	<b>-0,078</b>	0,000	-0,982	3,620	0,000	0,000
B944	CS40 - RRO160X80X4.5	0,000	NC4	-0,840	<b>-0,002</b>	<b>3,274</b>	<b>-2,322</b>	0,000	<b>0,006</b>
B944	CS40 - RRO160X80X4.5	0,000	NC9	-0,898	<b>0,001</b>	-3,318	1,617	0,004	0,000
B944	CS40 - RRO160X80X4.5	0,000	NC8	-0,822	-0,001	<b>-5,012</b>	3,603	-0,009	0,000
B944	CS40 - RRO160X80X4.5	0,300	NC16	-0,384	0,000	-2,623	<b>3,620</b>	3,921	0,000
B944	CS40 - RRO160X80X4.5	0,300	NC11	-0,408	-0,002	1,709	-2,317	<b>-2,545</b>	0,005
B944	CS40 - RRO160X80X4.5	0,300	NC8	-0,523	0,000	-2,624	3,617	<b>3,923</b>	0,000
B944	CS40 - RRO160X80X4.5	1,170	NC7	-0,360	0,000	-1,968	3,617	1,926	<b>0,000</b>
B945	CS40 - RRO160X80X4.5	0,000	NC17	<b>0,000</b>	0,182	1,416	-2,645	0,000	0,000
B945	CS40 - RRO160X80X4.5	0,000	NC7	<b>0,000</b>	0,243	<b>2,161</b>	-5,402	0,000	0,000
B945	CS40 - RRO160X80X4.5	2,589	NC1	0,000	<b>-0,273</b>	0,000	-0,006	0,000	0,000
B945	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,273</b>	0,000	-0,006	0,000	0,000
B945	CS40 - RRO160X80X4.5	2,589	NC7	0,000	-0,243	<b>-2,161</b>	-5,402	0,000	0,000
B945	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,243	2,161	<b>-5,402</b>	0,000	0,000
B945	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,243	-1,416	<b>3,504</b>	0,000	0,000
B945	CS40 - RRO160X80X4.5	1,036	NC3	0,000	0,049	-0,283	3,504	<b>-0,880</b>	0,151
B945	CS40 - RRO160X80X4.5	1,036	NC7	0,000	0,049	0,432	-5,402	<b>1,343</b>	0,151
B945	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,182	2,161	-5,399	0,000	<b>0,000</b>
B945	CS40 - RRO160X80X4.5	1,036	NC1	0,000	0,055	0,000	-0,006	0,000	<b>0,170</b>
B948	CS40 - RRO160X80X4.5	8,333	NC7	<b>0,000</b>	-0,782	<b>-6,956</b>	-0,321	0,000	0,000
B948	CS40 - RRO160X80X4.5	8,333	NC9	<b>0,000</b>	-0,782	-2,850	-0,031	0,000	0,000
B948	CS40 - RRO160X80X4.5	8,333	NC1	0,000	<b>-0,879</b>	0,000	0,007	0,000	0,000
B948	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,879</b>	0,000	0,007	0,000	0,000
B948	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,782	<b>6,956</b>	-0,321	0,000	0,000
B948	CS40 - RRO160X80X4.5	0,000	NC15	0,000	0,586	6,956	<b>-0,324</b>	0,000	0,000
B948	CS40 - RRO160X80X4.5	0,000	NC5	0,000	0,782	2,850	<b>0,045</b>	0,000	0,000
B948	CS40 - RRO160X80X4.5	4,167	NC3	0,000	0,000	0,000	0,039	<b>-9,491</b>	1,628
B948	CS40 - RRO160X80X4.5	4,167	NC7	0,000	0,000	0,000	-0,321	<b>14,491</b>	1,628
B948	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,586	-4,556	0,038	0,000	<b>0,000</b>



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B948	CS40 - RRO160X80X4.5	4,167	NC1	0,000	0,000	0,000	0,007	0,000	<b>1,832</b>
B952	CS40 - RRO160X80X4.5	0,000	NC2	<b>-4,287</b>	0,000	-0,010	-0,002	0,000	0,000
B952	CS40 - RRO160X80X4.5	5,000	NC18	<b>22,338</b>	0,001	13,560	-1,425	0,000	0,000
B952	CS40 - RRO160X80X4.5	0,000	NC5	-2,495	<b>-0,001</b>	7,259	0,719	-0,002	0,000
B952	CS40 - RRO160X80X4.5	0,000	NC3	-1,298	<b>0,001</b>	11,603	1,025	0,003	0,000
B952	CS40 - RRO160X80X4.5	0,000	NC9	-0,003	0,001	<b>-18,038</b>	<b>-1,435</b>	0,000	<b>-0,004</b>
B952	CS40 - RRO160X80X4.5	0,000	NC7	4,272	0,001	<b>17,465</b>	1,319	0,000	-0,003
B952	CS40 - RRO160X80X4.5	0,000	NC16	14,669	0,001	17,461	<b>1,321</b>	0,000	-0,003
B952	CS40 - RRO160X80X4.5	2,475	NC9	0,458	0,001	-2,539	-1,435	<b>-15,533</b>	-0,002
B952	CS40 - RRO160X80X4.5	2,475	NC7	4,734	0,001	2,346	1,319	<b>14,953</b>	-0,002
B952	CS40 - RRO160X80X4.5	2,475	NC3	-0,799	0,000	1,697	1,040	10,112	<b>0,002</b>
B954	CS40 - RRO160X80X4.5	0,375	NC11	<b>0,000</b>	-0,026	-0,280	0,984	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,375	NC15	<b>0,000</b>	-0,026	-0,175	1,665	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,375	NC1	0,000	<b>-0,040</b>	0,000	0,007	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,040</b>	0,000	0,007	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,035	<b>-0,281</b>	-1,602	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,375	NC9	0,000	-0,035	<b>0,281</b>	-1,602	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,026	-0,281	<b>-1,621</b>	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,000	NC16	0,000	0,026	0,175	<b>1,665</b>	0,000	0,000
B954	CS40 - RRO160X80X4.5	0,125	NC9	0,000	0,012	-0,094	-1,602	<b>-0,023</b>	0,003
B954	CS40 - RRO160X80X4.5	0,125	NC3	0,000	0,012	0,093	0,986	<b>0,023</b>	0,003
B954	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,026	0,280	0,983	0,000	<b>0,000</b>
B954	CS40 - RRO160X80X4.5	0,125	NC1	0,000	0,013	0,000	0,007	0,000	<b>0,003</b>
B955	CS40 - RRO160X80X4.5	0,000	NC1	<b>-2,014</b>	0,000	-0,014	-0,032	0,000	0,000
B955	CS40 - RRO160X80X4.5	2,475	NC11	<b>-0,521</b>	-0,001	-0,463	-0,937	0,000	0,000
B955	CS40 - RRO160X80X4.5	0,000	NC18	-1,419	<b>-0,002</b>	-4,867	<b>2,131</b>	0,000	<b>0,005</b>
B955	CS40 - RRO160X80X4.5	0,000	NC3	-1,608	<b>0,002</b>	1,855	-0,953	-0,002	0,000
B955	CS40 - RRO160X80X4.5	0,000	NC9	-1,809	-0,002	<b>-4,880</b>	2,102	0,000	0,005
B955	CS40 - RRO160X80X4.5	0,000	NC16	-1,381	-0,002	<b>4,787</b>	-1,949	0,000	0,005
B955	CS40 - RRO160X80X4.5	0,000	NC7	-1,800	-0,002	4,781	<b>-1,964</b>	0,000	0,005
B955	CS40 - RRO160X80X4.5	0,300	NC9	-1,753	-0,002	-4,647	2,102	<b>-1,429</b>	0,005
B955	CS40 - RRO160X80X4.5	0,300	NC16	-1,340	-0,002	4,560	-1,949	<b>1,402</b>	0,004
B955	CS40 - RRO160X80X4.5	1,170	NC5	-1,157	0,000	-0,187	-1,382	0,666	<b>-0,001</b>
B956	CS40 - RRO160X80X4.5	0,000	NC3	<b>-0,955</b>	<b>0,001</b>	1,077	-1,370	-0,003	0,000
B956	CS40 - RRO160X80X4.5	2,475	NC18	<b>0,251</b>	-0,003	-0,152	3,190	0,000	0,000
B956	CS40 - RRO160X80X4.5	0,000	NC18	-0,146	<b>-0,003</b>	<b>-2,768</b>	<b>3,190</b>	0,000	<b>0,008</b>
B956	CS40 - RRO160X80X4.5	0,000	NC8	-0,441	-0,003	<b>2,675</b>	-2,975	0,000	0,007
B956	CS40 - RRO160X80X4.5	0,000	NC7	-0,442	-0,003	2,675	<b>-2,975</b>	0,000	0,007
B956	CS40 - RRO160X80X4.5	0,300	NC8	-0,312	-0,003	1,766	-2,975	<b>-2,056</b>	0,007
B956	CS40 - RRO160X80X4.5	0,300	NC18	-0,050	-0,003	-1,837	3,190	<b>2,163</b>	0,007
B956	CS40 - RRO160X80X4.5	1,170	NC5	-0,205	0,000	0,671	-2,077	-0,454	<b>0,000</b>
B957	CS40 - RRO160X80X4.5	0,790	NC18	<b>0,000</b>	-0,056	-0,699	-2,959	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,316	NC18	<b>0,000</b>	0,011	0,140	-2,959	0,132	0,011
B957	CS40 - RRO160X80X4.5	0,790	NC1	0,000	<b>-0,083</b>	0,000	0,009	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,083</b>	0,000	0,009	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,790	NC9	0,000	-0,074	<b>-0,699</b>	-2,955	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,074	<b>0,699</b>	-2,955	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,000	NC18	0,000	0,056	0,699	<b>-2,959</b>	0,000	<b>0,000</b>
B957	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,074	-0,681	<b>2,825</b>	0,000	0,000
B957	CS40 - RRO160X80X4.5	0,316	NC7	0,000	0,015	-0,136	2,825	<b>-0,129</b>	0,014
B957	CS40 - RRO160X80X4.5	0,316	NC9	0,000	0,015	0,140	-2,955	<b>0,132</b>	0,014
B957	CS40 - RRO160X80X4.5	0,316	NC1	0,000	0,017	0,000	0,009	0,000	<b>0,016</b>
B958	CS40 - RRO160X80X4.5	0,000	NC3	<b>-4,404</b>	0,002	-6,588	1,229	0,003	0,000
B958	CS40 - RRO160X80X4.5	6,100	NC15	<b>-0,975</b>	-0,001	-5,410	-1,313	0,000	0,000
B958	CS40 - RRO160X80X4.5	6,100	NC3	-2,772	<b>-0,002</b>	5,468	1,229	0,000	0,000
B958	CS40 - RRO160X80X4.5	6,100	NC5	-1,586	<b>0,002</b>	3,416	0,826	0,000	0,000
B958	CS40 - RRO160X80X4.5	0,000	NC11	-3,540	0,001	<b>-6,588</b>	1,224	0,003	0,000
B958	CS40 - RRO160X80X4.5	0,000	NC16	-2,170	-0,001	<b>6,555</b>	-1,313	0,000	0,003
B958	CS40 - RRO160X80X4.5	0,000	NC7	-3,016	-0,001	6,555	<b>-1,316</b>	0,000	<b>0,003</b>
B958	CS40 - RRO160X80X4.5	5,000	NC4	-2,974	-0,002	5,468	<b>1,230</b>	-6,015	0,002
B958	CS40 - RRO160X80X4.5	3,000	NC11	-3,118	0,000	-0,050	1,224	<b>-9,954</b>	0,002
B958	CS40 - RRO160X80X4.5	3,000	NC16	-1,764	-0,001	0,020	-1,313	<b>9,863</b>	0,002
B958	CS40 - RRO160X80X4.5	4,000	NC5	-2,467	0,000	1,333	0,826	-5,568	<b>-0,003</b>
B959	CS40 - RRO160X80X4.5	0,000	NC1	<b>-3,256</b>	0,000	-0,001	-0,003	0,000	0,000
B959	CS40 - RRO160X80X4.5	6,100	NC11	<b>-0,389</b>	-0,002	5,659	-0,840	0,000	0,000
B959	CS40 - RRO160X80X4.5	6,100	NC3	-0,631	<b>-0,003</b>	5,660	-0,835	0,000	0,000
B959	CS40 - RRO160X80X4.5	6,100	NC5	-0,915	<b>0,003</b>	3,505	-0,582	0,000	0,000
B959	CS40 - RRO160X80X4.5	0,000	NC11	-1,856	0,002	<b>-8,917</b>	-0,827	-0,002	0,000
B959	CS40 - RRO160X80X4.5	0,000	NC7	-2,800	0,000	<b>8,904</b>	0,731	0,000	-0,002
B959	CS40 - RRO160X80X4.5	5,000	NC11	-0,544	-0,002	5,659	<b>-0,840</b>	-6,225	0,002
B959	CS40 - RRO160X80X4.5	0,000	NC16	-2,064	0,000	8,903	<b>0,734</b>	0,000	-0,002
B959	CS40 - RRO160X80X4.5	2,475	NC3	-2,015	0,001	-2,893	-0,831	<b>-10,657</b>	0,003
B959	CS40 - RRO160X80X4.5	2,475	NC7	-2,243	0,000	2,883	0,731	<b>10,657</b>	-0,001
B959	CS40 - RRO160X80X4.5	3,345	NC5	-2,027	0,000	-0,008	-0,582	-5,986	<b>-0,003</b>
B959	CS40 - RRO160X80X4.5	3,345	NC3	-1,744	0,000	0,035	-0,835	-9,577	<b>0,003</b>
B960	CS40 - RRO160X80X4.5	5,200	NC3	<b>0,000</b>	-0,488	<b>1,158</b>	-0,324	0,000	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B960	CS40 - RRO160X80X4.5	5,200	NC5	<b>0,000</b>	-0,488	0,721	-0,203	0,000	0,000
B960	CS40 - RRO160X80X4.5	5,200	NC1	0,000	<b>-0,549</b>	0,000	0,003	0,000	0,000
B960	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,549</b>	0,000	0,003	0,000	0,000
B960	CS40 - RRO160X80X4.5	0,000	NC3	0,000	0,488	<b>-1,158</b>	-0,324	0,000	0,000
B960	CS40 - RRO160X80X4.5	0,000	NC4	0,000	0,488	-1,158	<b>-0,324</b>	0,000	0,000
B960	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,488	1,073	<b>0,407</b>	0,000	0,000
B960	CS40 - RRO160X80X4.5	2,080	NC3	0,000	0,098	-0,232	-0,324	<b>-1,446</b>	0,609
B960	CS40 - RRO160X80X4.5	2,080	NC7	0,000	0,098	0,214	0,407	<b>1,338</b>	0,609
B960	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,366	-1,158	-0,320	0,000	<b>0,000</b>
B960	CS40 - RRO160X80X4.5	2,080	NC1	0,000	0,110	0,000	0,003	0,000	<b>0,685</b>
B1667	CS40 - RRO160X80X4.5	4,542	NC7	<b>0,000</b>	-0,426	<b>-3,791</b>	3,088	0,000	0,000
B1667	CS40 - RRO160X80X4.5	0,908	NC9	<b>0,000</b>	0,256	0,932	1,754	1,129	0,310
B1667	CS40 - RRO160X80X4.5	4,542	NC1	0,000	<b>-0,479</b>	0,000	0,006	0,000	0,000
B1667	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,479</b>	0,000	0,006	0,000	0,000
B1667	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,426	<b>3,791</b>	<b>3,088</b>	0,000	0,000
B1667	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,320	-2,483	<b>-2,077</b>	0,000	<b>0,000</b>
B1667	CS40 - RRO160X80X4.5	1,817	NC3	0,000	0,085	-0,497	-2,072	<b>-2,707</b>	0,464
B1667	CS40 - RRO160X80X4.5	1,817	NC7	0,000	0,085	0,758	3,088	<b>4,133</b>	0,464
B1667	CS40 - RRO160X80X4.5	1,817	NC1	0,000	0,096	0,000	0,006	0,000	<b>0,522</b>
B1668	CS40 - RRO160X80X4.5	0,000	NC17	<b>-0,538</b>	0,000	-0,615	2,520	0,006	0,000
B1668	CS40 - RRO160X80X4.5	2,475	NC8	<b>1,563</b>	0,001	0,939	5,719	0,000	0,000
B1668	CS40 - RRO160X80X4.5	0,000	NC11	0,636	<b>-0,004</b>	0,613	<b>-3,680</b>	0,000	<b>0,009</b>
B1668	CS40 - RRO160X80X4.5	0,000	NC9	-0,486	<b>0,001</b>	-0,615	2,523	0,006	0,000
B1668	CS40 - RRO160X80X4.5	0,000	NC7	1,093	-0,001	<b>-0,928</b>	5,719	-0,014	0,000
B1668	CS40 - RRO160X80X4.5	2,475	NC16	1,387	0,000	<b>0,939</b>	5,723	0,000	0,000
B1668	CS40 - RRO160X80X4.5	0,000	NC16	1,038	0,000	-0,928	<b>5,723</b>	-0,014	0,000
B1668	CS40 - RRO160X80X4.5	0,990	NC16	1,178	0,000	-0,181	5,723	<b>-0,563</b>	0,000
B1668	CS40 - RRO160X80X4.5	0,990	NC3	0,880	-0,004	0,123	-3,680	<b>0,364</b>	0,006
B1668	CS40 - RRO160X80X4.5	0,990	NC7	1,278	0,000	-0,181	5,719	-0,563	<b>0,000</b>
B1669	CS40 - RRO160X80X4.5	0,000	NC1	<b>-3,322</b>	0,000	-0,001	0,000	0,000	0,000
B1669	CS40 - RRO160X80X4.5	2,475	NC17	<b>-1,100</b>	-0,001	0,653	2,064	0,000	0,000
B1669	CS40 - RRO160X80X4.5	0,000	NC11	-2,253	<b>-0,003</b>	4,169	<b>-3,077</b>	0,000	<b>0,008</b>
B1669	CS40 - RRO160X80X4.5	0,000	NC9	-2,626	<b>0,002</b>	-2,840	2,069	0,005	0,000
B1669	CS40 - RRO160X80X4.5	0,000	NC7	-3,117	-0,002	<b>-6,301</b>	4,783	-0,012	0,000
B1669	CS40 - RRO160X80X4.5	0,000	NC4	-2,966	-0,003	<b>4,170</b>	-3,077	0,000	0,008
B1669	CS40 - RRO160X80X4.5	0,300	NC16	-1,896	0,000	-0,536	<b>4,790</b>	-0,619	0,000
B1669	CS40 - RRO160X80X4.5	0,300	NC7	-3,061	-0,002	-6,075	4,783	<b>-1,868</b>	-0,001
B1669	CS40 - RRO160X80X4.5	0,300	NC4	-2,911	-0,003	4,021	-3,077	<b>1,229</b>	0,007
B1669	CS40 - RRO160X80X4.5	0,735	NC7	-2,357	0,000	-0,209	4,786	-0,778	<b>-0,001</b>
B2264	CS40 - RRO160X80X4.5	0,000	NC10	<b>-2,311</b>	-0,002	-5,558	2,410	0,000	0,006
B2264	CS40 - RRO160X80X4.5	2,475	NC2	<b>-0,526</b>	0,000	-0,012	-0,028	0,000	0,000
B2264	CS40 - RRO160X80X4.5	0,000	NC18	-1,863	<b>-0,002</b>	-5,553	<b>2,422</b>	0,000	<b>0,006</b>
B2264	CS40 - RRO160X80X4.5	0,000	NC3	-2,229	<b>0,002</b>	3,548	-1,374	-0,003	0,000
B2264	CS40 - RRO160X80X4.5	0,000	NC9	-2,108	-0,002	<b>-5,567</b>	2,388	0,000	0,006
B2264	CS40 - RRO160X80X4.5	0,000	NC8	-2,124	-0,002	<b>5,418</b>	-2,376	0,000	0,006
B2264	CS40 - RRO160X80X4.5	0,000	NC15	-1,677	-0,002	5,416	<b>-2,379</b>	0,000	0,006
B2264	CS40 - RRO160X80X4.5	0,300	NC9	-2,053	-0,002	-5,334	2,388	<b>-1,635</b>	0,005
B2264	CS40 - RRO160X80X4.5	0,300	NC8	-2,068	-0,002	5,191	-2,376	<b>1,591</b>	0,005
B2264	CS40 - RRO160X80X4.5	0,735	NC5	-1,374	0,000	0,171	-0,912	0,170	<b>-0,001</b>
B2265	CS40 - RRO160X80X4.5	0,000	NC2	<b>-2,948</b>	0,000	-0,004	-0,027	0,000	0,000
B2265	CS40 - RRO160X80X4.5	2,475	NC18	<b>1,656</b>	-0,003	-0,503	3,105	0,000	0,000
B2265	CS40 - RRO160X80X4.5	0,000	NC18	1,291	<b>-0,003</b>	<b>-2,698</b>	<b>3,105</b>	0,000	<b>0,008</b>
B2265	CS40 - RRO160X80X4.5	0,000	NC3	0,386	<b>0,001</b>	1,575	-1,833	-0,005	0,000
B2265	CS40 - RRO160X80X4.5	0,000	NC7	0,032	-0,003	<b>2,628</b>	-3,056	0,000	0,008
B2265	CS40 - RRO160X80X4.5	0,000	NC15	0,447	-0,003	2,623	<b>-3,058</b>	0,000	0,008
B2265	CS40 - RRO160X80X4.5	0,300	NC7	0,116	-0,003	2,130	-3,056	<b>-2,847</b>	0,007
B2265	CS40 - RRO160X80X4.5	0,300	NC18	1,354	-0,003	-2,187	3,105	<b>2,926</b>	0,007
B2265	CS40 - RRO160X80X4.5	1,170	NC5	-0,396	0,000	0,507	-1,198	-0,398	<b>0,000</b>
B2266	CS40 - RRO160X80X4.5	5,235	NC11	<b>0,000</b>	-0,368	-2,862	-1,037	0,000	0,000
B2266	CS40 - RRO160X80X4.5	5,235	NC15	<b>0,000</b>	-0,368	-4,515	-1,271	0,000	0,000
B2266	CS40 - RRO160X80X4.5	5,235	NC1	0,000	<b>-0,552</b>	0,000	0,012	0,000	0,000
B2266	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,552</b>	0,000	0,012	0,000	0,000
B2266	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,491	<b>-4,629</b>	<b>1,335</b>	0,000	0,000
B2266	CS40 - RRO160X80X4.5	5,235	NC9	0,000	-0,491	<b>4,629</b>	1,335	0,000	0,000
B2266	CS40 - RRO160X80X4.5	0,000	NC8	0,000	0,491	4,515	<b>-1,274</b>	0,000	0,000
B2266	CS40 - RRO160X80X4.5	2,094	NC9	0,000	0,098	-0,926	1,335	<b>-5,816</b>	0,617
B2266	CS40 - RRO160X80X4.5	2,094	NC7	0,000	0,098	0,903	-1,274	<b>5,673</b>	0,617
B2266	CS40 - RRO160X80X4.5	0,000	NC12	0,000	0,368	2,862	-1,037	0,000	<b>0,000</b>
B2266	CS40 - RRO160X80X4.5	2,094	NC1	0,000	0,110	0,000	0,012	0,000	<b>0,694</b>
B2269	CS40 - RRO160X80X4.5	0,300	NC2	<b>-5,884</b>	0,000	0,000	0,008	-0,008	0,000
B2269	CS40 - RRO160X80X4.5	5,000	NC18	<b>21,167</b>	-0,001	-2,638	1,389	0,000	0,000
B2269	CS40 - RRO160X80X4.5	0,300	NC3	-1,776	<b>-0,001</b>	20,633	-0,935	6,364	0,000
B2269	CS40 - RRO160X80X4.5	4,650	NC11	-1,360	<b>0,001</b>	3,373	-0,932	-0,941	0,000
B2269	CS40 - RRO160X80X4.5	0,000	NC9	-1,266	-0,001	<b>-33,492</b>	<b>1,397</b>	0,000	<b>0,003</b>
B2269	CS40 - RRO160X80X4.5	0,000	NC7	7,496	-0,001	<b>32,218</b>	<b>-1,300</b>	0,000	0,003
B2269	CS40 - RRO160X80X4.5	1,170	NC9	-1,645	-0,001	-0,244	1,397	<b>-10,297</b>	0,003



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2269	CS40 - RRO160X80X4.5	1,170	NC7	7,101	-0,001	0,256	-1,300	<b>9,930</b>	0,002
B2269	CS40 - RRO160X80X4.5	2,475	NC11	-0,824	-0,001	-4,686	-0,934	4,217	<b>0,000</b>
B2273	CS40 - RRO160X80X4.5	0,375	NC12	<b>-3,564</b>	0,372	2,043	0,094	-0,885	-0,340
B2273	CS40 - RRO160X80X4.5	0,000	NC18	<b>15,777</b>	<b>18,039</b>	-0,464	<b>-0,137</b>	0,000	0,000
B2273	CS40 - RRO160X80X4.5	0,375	NC2	3,141	<b>-4,048</b>	0,011	-0,006	0,004	-1,505
B2273	CS40 - RRO160X80X4.5	0,375	NC18	15,777	-3,174	<b>-2,894</b>	-0,137	1,264	6,751
B2273	CS40 - RRO160X80X4.5	0,375	NC16	15,300	-2,532	<b>2,568</b>	0,119	-0,813	5,314
B2273	CS40 - RRO160X80X4.5	0,000	NC16	15,301	14,205	1,419	<b>0,119</b>	0,000	0,000
B2273	CS40 - RRO160X80X4.5	3,500	NC9	9,882	0,012	-0,707	-0,125	<b>-4,454</b>	0,410
B2273	CS40 - RRO160X80X4.5	3,500	NC7	12,842	-1,504	0,443	0,117	<b>3,917</b>	-1,601
B2273	CS40 - RRO160X80X4.5	3,500	NC18	15,777	-3,613	-0,719	-0,137	-4,380	<b>-3,853</b>
B2273	CS40 - RRO160X80X4.5	0,375	NC18	15,777	17,986	-0,203	-0,137	-0,125	<b>6,755</b>
B2275	CS40 - RRO160X80X4.5	0,000	NC12	<b>-3,112</b>	0,099	1,061	0,094	3,306	0,135
B2275	CS40 - RRO160X80X4.5	0,000	NC16	<b>11,672</b>	0,467	<b>1,666</b>	<b>0,119</b>	3,891	-3,286
B2275	CS40 - RRO160X80X4.5	3,375	NC9	9,114	<b>-0,671</b>	0,657	-0,125	-6,194	-0,787
B2275	CS40 - RRO160X80X4.5	0,000	NC7	11,188	<b>0,502</b>	1,649	0,117	3,912	-1,601
B2275	CS40 - RRO160X80X4.5	0,000	NC18	10,437	0,249	<b>-1,729</b>	<b>-0,137</b>	-4,374	<b>-3,853</b>
B2275	CS40 - RRO160X80X4.5	2,700	NC18	10,437	-0,131	0,150	-0,137	<b>-6,506</b>	-3,693
B2275	CS40 - RRO160X80X4.5	2,700	NC16	11,672	0,087	-0,168	0,119	<b>5,913</b>	-2,537
B2275	CS40 - RRO160X80X4.5	0,000	NC2	6,888	0,013	-0,025	-0,006	0,014	<b>0,782</b>
B2276	CS40 - RRO160X80X4.5	3,000	NC12	<b>-3,735</b>	-0,354	-10,019	0,096	3,788	0,143
B2276	CS40 - RRO160X80X4.5	3,000	NC7	<b>12,516</b>	-4,644	-14,611	0,117	5,527	1,755
B2276	CS40 - RRO160X80X4.5	3,375	NC18	9,517	<b>-18,995</b>	15,455	-0,137	0,000	0,000
B2276	CS40 - RRO160X80X4.5	0,000	NC18	9,516	<b>3,852</b>	-0,398	<b>-0,137</b>	-6,260	<b>-3,813</b>
B2276	CS40 - RRO160X80X4.5	3,375	NC8	12,515	-4,753	<b>-14,866</b>	0,117	0,000	0,000
B2276	CS40 - RRO160X80X4.5	3,375	NC9	9,984	-0,970	<b>15,482</b>	-0,125	0,000	0,000
B2276	CS40 - RRO160X80X4.5	0,000	NC16	12,007	2,692	0,534	<b>0,119</b>	5,658	-2,510
B2276	CS40 - RRO160X80X4.5	0,600	NC18	9,516	3,767	0,020	-0,137	<b>-6,374</b>	-1,527
B2276	CS40 - RRO160X80X4.5	0,600	NC16	12,007	2,608	0,127	0,119	<b>5,856</b>	-0,920
B2276	CS40 - RRO160X80X4.5	3,000	NC18	9,517	-18,942	15,194	-0,137	-5,747	<b>7,113</b>
B2280	CS40 - RRO160X80X4.5	0,000	NC18	<b>0,000</b>	0,461	-6,062	<b>0,660</b>	0,000	0,000
B2280	CS40 - RRO160X80X4.5	6,550	NC18	<b>0,000</b>	-0,461	6,062	0,660	0,000	0,000
B2280	CS40 - RRO160X80X4.5	6,550	NC1	0,000	<b>-0,691</b>	0,000	-0,051	0,000	0,000
B2280	CS40 - RRO160X80X4.5	0,000	NC1	0,000	<b>0,691</b>	0,000	-0,051	0,000	0,000
B2280	CS40 - RRO160X80X4.5	0,000	NC9	0,000	0,614	<b>-6,062</b>	0,625	0,000	0,000
B2280	CS40 - RRO160X80X4.5	6,550	NC9	0,000	-0,614	<b>6,062</b>	0,625	0,000	0,000
B2280	CS40 - RRO160X80X4.5	0,000	NC7	0,000	0,614	5,915	<b>-0,631</b>	0,000	0,000
B2280	CS40 - RRO160X80X4.5	3,275	NC9	0,000	0,000	0,000	0,625	<b>-9,927</b>	1,006
B2280	CS40 - RRO160X80X4.5	3,275	NC7	0,000	0,000	0,000	-0,631	<b>9,685</b>	1,006
B2280	CS40 - RRO160X80X4.5	0,000	NC11	0,000	0,461	2,427	-0,238	0,000	<b>0,000</b>
B2280	CS40 - RRO160X80X4.5	3,275	NC1	0,000	0,000	0,000	-0,051	0,000	<b>1,132</b>

### 6.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - Facade

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B26	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B30	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B31	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B32	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B40	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B44	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B45	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B46	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B1563	4,167	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B1564	4,167	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B1565	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B1566	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B1567	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,60</b>	0,60	0,58
B1568	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,60</b>	0,60	0,60
B1569	4,167	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B440	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B441	3,375	NC8	CS40 - RRO160X80X4.5	S 235	<b>0,64</b>	0,64	0,46
B442	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B443	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B444	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,64</b>	0,64	0,46
B445	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B446	3,375	NC15	CS40 - RRO160X80X4.5	S 235	<b>0,63</b>	0,63	0,45
B447	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B448	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,37</b>	0,37	0,37
B449	4,560-	NC4	CS40 - RRO160X80X4.5	S 235	<b>0,38</b>	0,38	0,00
B450	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,29</b>	0,28	0,29
B451	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,29</b>	0,28	0,29
B452	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,29</b>	0,28	0,29
B453	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,29</b>	0,28	0,29
B454	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,29</b>	0,28	0,29
B455	3,375	NC5	CS40 - RRO160X80X4.5	S 235	<b>0,36</b>	0,35	0,36
B456	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,46</b>	0,46	0,46
B457	0,000	NC15	CS40 - RRO160X80X4.5	S 235	<b>0,02</b>	0,02	0,01
B458	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,36</b>	0,35	0,36
B459	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,36</b>	0,35	0,36
B460	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,36</b>	0,35	0,36
B461	3,045-	NC2	CS40 - RRO160X80X4.5	S 235	<b>0,17</b>	0,17	0,09
B462	3,995-	NC2	CS40 - RRO160X80X4.5	S 235	<b>0,16</b>	0,16	0,07
B463	2,970-	NC6	CS40 - RRO160X80X4.5	S 235	<b>0,11</b>	0,11	0,00
B464	0,720-	NC5	CS40 - RRO160X80X4.5	S 235	<b>0,04</b>	0,04	0,04
B466	1,218-	NC5	CS40 - RRO160X80X4.5	S 235	<b>0,08</b>	0,08	0,08
B467	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B468	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B469	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B470	0,000	NC11	CS40 - RRO160X80X4.5	S 235	<b>0,13</b>	0,13	0,01
B471	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B472	0,000	NC15	CS40 - RRO160X80X4.5	S 235	<b>0,04</b>	0,04	0,02
B474	1,218-	NC5	CS40 - RRO160X80X4.5	S 235	<b>0,05</b>	0,05	0,05
B475	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,27</b>	0,26	0,27
B476	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,27</b>	0,26	0,27



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B477	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,27</b>	0,26	0,27
B478	0,000	NC11	CS40 - RRO160X80X4.5	S 235	<b>0,24</b>	0,24	0,01
B479	3,375	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,34	0,35
B480	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B481	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B482	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B483	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B484	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B485	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B486	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B487	3,375	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,35</b>	0,35	0,35
B488	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B489	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B490	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B491	3,375-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,18</b>	0,18	0,00
B492	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B493	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B494	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B495	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,53</b>	0,53	0,51
B496	3,250-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,24</b>	0,16	0,24
B497	2,700-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,23</b>	0,20	0,23
B498	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B499	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B500	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B501	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B502	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B503	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,43
B504	3,250-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,23</b>	0,23	0,00
B506	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B507	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B508	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B509	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B510	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B511	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,55</b>	0,55	0,54
B512	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,65</b>	0,65	0,62
B513	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,65</b>	0,65	0,62
B514	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,65</b>	0,65	0,62
B515	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,65</b>	0,65	0,62



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B516	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,65</b>	0,65	0,62
B517	3,609	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,54	0,50
B518	0,000	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,21</b>	0,21	0,00
B519	3,250	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,19</b>	0,19	0,00
B520	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B521	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B522	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B523	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B524	3,375	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,42</b>	0,42	0,42
B525	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,26</b>	0,26	0,00
B526	0,000	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,67</b>	0,67	0,00
B527	3,250	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,40</b>	0,40	0,00
B544	4,167	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B545	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B546	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B547	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B548	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B549	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B550	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B551	4,167	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,53	0,54
B552	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B553	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B554	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B556	4,167	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B560	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B561	4,166	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,71</b>	0,71	0,70
B562	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,74</b>	0,74	0,73
B563	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,85</b>	0,85	0,83
B564	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B565	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,65
B566	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B568	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B572	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B573	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,66</b>	0,66	0,66
B574	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,82</b>	0,82	0,80
B575	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,91</b>	0,91	0,88
B576	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49
B577	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49



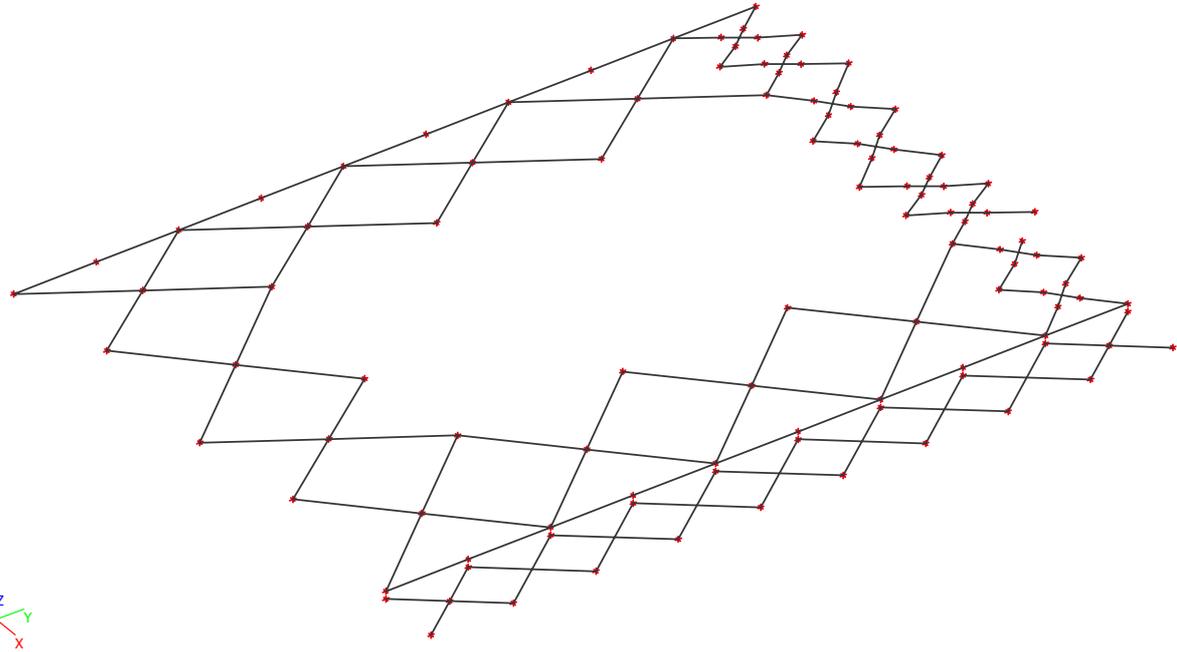
Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B578	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49
B580	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49
B584	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49
B585	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,50</b>	0,50	0,49
B586	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,62</b>	0,62	0,60
B587	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,70</b>	0,70	0,67
B588	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,60</b>	0,60	0,58
B589	4,542+	NC16	CS46 - RRO160X80X5K	S 355	<b>0,46</b>	0,46	0,00
B590	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,60</b>	0,60	0,58
B592	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,60</b>	0,60	0,58
B596	3,980-	NC7	CS46 - RRO160X80X5K	S 355	<b>0,48</b>	0,48	0,00
B597	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,60</b>	0,60	0,58
B598	4,167	NC7	CS46 - RRO160X80X5K	S 355	<b>0,75</b>	0,75	0,72
B599	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,84</b>	0,84	0,79
B600	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,60</b>	0,60	0,60
B602	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,60</b>	0,60	0,60
B604	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,60</b>	0,60	0,60
B608	3,317	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,54</b>	0,54	0,38
B610	4,167	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,75</b>	0,75	0,73
B611	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,83</b>	0,83	0,81
B612	4,166	NC7	CS46 - RRO160X80X5K	S 355	<b>0,30</b>	0,29	0,30
B613	4,167	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B614	4,166	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B615	4,166	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B619	4,167	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B621	4,166	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B622	4,166	NC5	CS46 - RRO160X80X5K	S 355	<b>0,25</b>	0,24	0,25
B623	4,166	NC9	CS46 - RRO160X80X5K	S 355	<b>0,30</b>	0,29	0,30
B673	3,275	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,20</b>	0,20	0,12
B674	3,275	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,19</b>	0,19	0,12
B675	3,275	NC10	CS40 - RRO160X80X4.5	S 235	<b>0,34</b>	0,34	0,23
B676	3,275	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,52</b>	0,52	0,50
B677	3,814-	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,49</b>	0,49	0,45
B678	1,824-	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,18</b>	0,18	0,18
B943	0,300+	NC16	CS40 - RRO160X80X4.5	S 235	<b>0,09</b>	0,09	0,04
B944	0,300+	NC16	CS40 - RRO160X80X4.5	S 235	<b>0,25</b>	0,25	0,11
B945	0,000	NC8	CS40 - RRO160X80X4.5	S 235	<b>0,38</b>	0,38	0,06
B948	4,166	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,60</b>	0,60	0,60



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B952	2,475-	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,64</b>	0,64	0,00
B954	0,000	NC16	CS40 - RRO160X80X4.5	S 235	<b>0,12</b>	0,12	0,00
B955	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,15</b>	0,15	0,04
B956	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,22</b>	0,22	0,05
B957	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,21</b>	0,21	0,01
B958	3,000-	NC11	CS40 - RRO160X80X4.5	S 235	<b>0,41</b>	0,41	0,38
B959	2,475-	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,44</b>	0,44	0,37
B960	2,080-	NC3	CS40 - RRO160X80X4.5	S 235	<b>0,08</b>	0,06	0,08
B1667	0,000	NC7	CS40 - RRO160X80X4.5	S 235	<b>0,22</b>	0,22	0,17
B1668	0,000	NC16	CS40 - RRO160X80X4.5	S 235	<b>0,40</b>	0,40	0,00
B1669	0,300+	NC16	CS40 - RRO160X80X4.5	S 235	<b>0,33</b>	0,33	0,05
B2264	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,17</b>	0,17	0,04
B2265	0,000	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,22</b>	0,22	0,00
B2266	2,094-	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,24</b>	0,24	0,24
B2269	1,170-	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,43</b>	0,43	0,39
B2273	0,375-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,45</b>	0,45	0,00
B2275	2,700-	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,27</b>	0,27	0,00
B2276	3,000+	NC18	CS40 - RRO160X80X4.5	S 235	<b>0,48</b>	0,48	0,00
B2280	3,275	NC9	CS40 - RRO160X80X4.5	S 235	<b>0,41</b>	0,41	0,41

## 7.) Dakverband

### 7.1. Analysemodel



### 7.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N4	0,000	6,800	7,040
N14	0,000	31,799	7,040
N20	54,000	31,799	7,040
N22	6,750	6,800	7,930
N24	20,250	6,800	7,930
N34	47,250	6,800	7,930
N36	33,750	6,800	7,930
N41	54,000	6,800	7,040
N43	0,000	23,466	7,040
N46	54,000	23,466	7,040
N51	0,000	15,133	7,040
N54	54,000	15,133	7,040
N62	6,750	15,133	7,930
N63	6,750	23,466	7,930
N66	13,046	15,133	8,760
N72	0,454	15,133	7,100
N73	0,454	23,466	7,100
N74	13,046	6,800	8,760
N78	0,454	6,800	7,100
N81	6,750	31,799	7,930
N83	0,454	31,799	7,100
N84	20,250	15,133	7,930
N85	20,250	23,466	7,930
N88	13,954	15,133	8,760
N92	26,546	15,133	7,100
N93	26,546	23,466	7,100
N94	13,954	6,800	8,760
N97	26,546	6,800	7,100
N100	20,250	31,799	7,930
N102	26,546	31,799	7,100
N103	47,250	15,133	7,930
N104	47,250	23,466	7,930
N107	40,954	15,133	8,760
N111	53,546	15,133	7,100
N112	53,546	23,466	7,100
N113	40,954	6,800	8,760
N116	53,546	6,800	7,100
N119	47,250	31,799	7,930
N121	53,546	31,799	7,100
N122	33,750	15,133	7,930
N123	33,750	23,466	7,930

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N126	40,046	15,133	8,760
N130	27,454	15,133	7,100
N131	27,454	23,466	7,100
N132	40,046	6,800	8,760
N135	27,454	6,800	7,100
N138	33,750	31,799	7,930
N140	27,454	31,799	7,100
N160	0,000	40,132	7,040
N163	54,000	40,132	7,040
N171	6,750	40,132	7,930
N175	13,046	40,132	8,760
N179	0,454	40,132	7,100
N186	20,250	40,132	7,930
N190	13,954	40,132	8,760
N194	26,546	40,132	7,100
N201	47,250	40,132	7,930
N205	40,954	40,132	8,760
N209	53,546	40,132	7,100
N216	33,750	40,132	7,930
N220	40,046	40,132	8,760
N224	27,454	40,132	7,100
N234	0,000	56,800	7,040
N240	54,000	56,800	7,040
N250	0,000	48,465	7,040
N253	54,000	48,465	7,040
N261	6,750	48,465	7,930
N262	6,750	56,800	7,930
N265	13,046	48,465	8,760
N269	0,454	48,465	7,100
N270	0,454	56,800	7,100
N276	20,250	48,465	7,930
N277	20,250	56,800	7,930
N280	13,954	48,465	8,760
N284	26,546	48,465	7,100
N285	26,546	56,800	7,100
N291	47,250	48,465	7,930
N292	47,250	56,800	7,930
N295	40,954	48,465	8,760
N299	53,546	48,465	7,100
N300	53,546	56,800	7,100
N306	33,750	48,465	7,930



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N307	33,750	56,800	7,930
N310	40,046	48,465	8,760
N314	27,454	48,465	7,100
N315	27,454	56,800	7,100
N324	0,000	81,797	7,040
N330	54,000	81,797	7,040
N332	0,000	73,464	7,040
N335	54,000	73,464	7,040
N340	0,000	65,133	7,040
N343	54,000	65,133	7,040
N351	6,750	65,133	7,930
N352	6,750	73,464	7,930
N356	13,046	73,464	8,760
N359	0,454	65,133	7,100
N360	0,454	73,464	7,100
N361	13,046	81,797	8,760
N363	6,750	81,797	7,930
N365	0,454	81,797	7,100
N366	20,250	65,133	7,930
N367	20,250	73,464	7,930
N371	13,954	73,464	8,760
N374	26,546	65,133	7,100
N375	26,546	73,464	7,100
N376	13,954	81,797	8,760
N378	20,250	81,797	7,930
N380	26,546	81,797	7,100
N381	47,250	65,133	7,930
N382	47,250	73,464	7,930
N386	40,954	73,464	8,760
N389	53,546	65,133	7,100
N390	53,546	73,464	7,100
N391	40,954	81,797	8,760
N393	47,250	81,797	7,930
N395	53,546	81,797	7,100
N396	33,750	65,133	7,930
N397	33,750	73,464	7,930
N401	40,046	73,464	8,760
N404	27,454	65,133	7,100
N405	27,454	73,464	7,100
N406	40,046	81,797	8,760
N408	33,750	81,797	7,930
N410	27,454	81,797	7,100
N591	60,550	6,800	6,250
N597	54,000	23,466	6,250
N603	60,550	81,797	6,250
N608	60,550	40,132	6,250
N616	60,550	56,800	6,250
N632	60,550	15,133	6,250
N637	2,553	10,966	7,377
N638	10,947	10,966	8,483
N639	24,447	10,966	7,377
N640	16,053	10,966	8,483
N643	29,553	10,966	7,377

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N644	37,947	10,966	8,483
N1281	54,000	6,800	6,250
N1284	54,000	31,799	6,250
N1285	54,000	15,133	6,250
N1286	54,000	81,797	6,250
N1287	54,000	40,132	6,250
N1288	54,000	48,465	6,250
N1289	54,000	56,800	6,250
N1290	54,000	65,133	6,250
N1291	54,000	73,464	6,250
N1293	60,550	23,466	6,250
N1295	60,550	65,133	6,250
N1322	60,550	31,799	6,250
N1323	60,550	48,465	6,250
N1328	60,550	73,464	6,250
N1359	2,553	44,299	7,377
N1360	10,947	44,299	8,483
N1361	16,053	44,299	8,483
N1362	24,447	44,299	7,377
N1363	29,553	44,299	7,377
N1364	37,947	44,299	8,483
N1367	2,553	77,630	7,377
N1368	10,947	77,630	8,483
N1369	16,053	77,630	8,483
N1370	24,447	77,630	7,377
N1371	29,553	77,630	7,377
N1372	37,947	77,630	8,483
N1375	24,447	19,299	7,377
N1376	29,553	19,299	7,377
N1377	2,553	19,299	7,377
N1379	24,447	27,633	7,377
N1380	29,553	27,633	7,377
N1381	2,553	27,633	7,377
N1383	24,447	35,965	7,377
N1384	29,553	35,965	7,377
N1385	2,553	35,965	7,377
N1387	24,447	52,632	7,377
N1388	29,553	52,632	7,377
N1389	2,553	52,632	7,377
N1399	24,447	60,967	7,377
N1400	29,553	60,967	7,377
N1401	2,553	60,967	7,377
N1403	24,447	69,299	7,377
N1404	29,553	69,299	7,377
N1815	2,553	69,299	7,377
N1845	10,947	69,297	8,483
N1847	16,053	69,297	8,483
N1849	10,947	52,632	8,483
N1850	16,053	52,632	8,483
N1852	10,947	35,965	8,483
N1853	16,053	35,965	8,483
N1854	10,947	19,299	8,483
N1855	16,053	19,299	8,483

### 7.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B66	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N4	Horizontaal windverband (0) standaard
B67	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N51	Horizontaal windverband (0) standaard
B69	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N43	Horizontaal windverband (0) standaard
B70	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N41	Horizontaal windverband (0) standaard
B71	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N54	Horizontaal windverband (0) standaard
B256	CS49 - HEA160	Horizontal Bracing	8,335	Lijn	N46	Horizontaal windverband (0) standaard
B259	CS49 - HEA160	Horizontal Bracing	8,335	Lijn	N20	Horizontaal windverband (0) standaard
B349	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N250	Horizontaal windverband (0) standaard
B350	CS49 - HEA160	Horizontal Bracing	8,331	Lijn	N234	Horizontaal windverband (0) standaard
					N253	Horizontaal windverband (0) standaard
					N240	Horizontaal windverband (0) standaard
					N234	Horizontaal windverband (0) standaard
					N340	Horizontaal windverband (0) standaard
					N340	Horizontaal windverband (0) standaard

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
					N332	standaard
B351	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N332 N324	Horizontaal windverband (0) standaard
B352	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N240 N343	Horizontaal windverband (0) standaard
B353	CS49 - HEA160	Horizontal Bracing	8,331	Lijn	N343 N335	Horizontaal windverband (0) standaard
B354	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N335 N330	Horizontaal windverband (0) standaard
B661	CS55 - IPE330	Longitudinal beams	8,333	Lijn	N1281 N1285	Horizontaal windverband (0) standaard
B662	CS55 - IPE330	Longitudinal beams	8,333	Lijn	N1285 N597	Horizontaal windverband (0) standaard
B663	CS55 - IPE330	Longitudinal beams	8,333	Lijn	N597 N1284	Horizontaal windverband (0) standaard
B664	CS55 - IPE330	Longitudinal beams	8,333	Lijn	N1284 N1287	Horizontaal windverband (0) standaard
B679	CS54 - RD24	Horizontal Bracing	5,300	Lijn	N1281 N2564	Horizontaal windverband (0) enkel normaalkracht
B680	CS54 - RD24	Horizontal Bracing	5,300	Lijn	N591 N2564	Horizontaal windverband (0) enkel normaalkracht
B1591	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N20 N163	Horizontaal windverband (0) standaard
B1592	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N163 N253	Horizontaal windverband (0) standaard
B1619	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1285 N1293	Horizontaal windverband (0) enkel normaalkracht
B1620	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N632 N597	Horizontaal windverband (0) enkel normaalkracht
B1621	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N597 N1322	Horizontaal windverband (0) enkel normaalkracht
B1622	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1293 N1284	Horizontaal windverband (0) enkel normaalkracht
B1623	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1284 N608	Horizontaal windverband (0) enkel normaalkracht
B1624	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1322 N1287	Horizontaal windverband (0) enkel normaalkracht
B1625	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1287 N1323	Horizontaal windverband (0) enkel normaalkracht
B1626	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N608 N1288	Horizontaal windverband (0) enkel normaalkracht
B1627	CS54 - RD24	Horizontal Bracing	10,601	Lijn	N1288 N616	Horizontaal windverband (0) enkel normaalkracht
B1628	CS54 - RD24	Horizontal Bracing	10,601	Lijn	N1323 N1289	Horizontaal windverband (0) enkel normaalkracht
B1629	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N1289 N1295	Horizontaal windverband (0) enkel normaalkracht
B1630	CS54 - RD24	Horizontal Bracing	10,599	Lijn	N616 N1290	Horizontaal windverband (0) enkel normaalkracht
B1631	CS54 - RD24	Horizontal Bracing	10,598	Lijn	N1290 N1328	Horizontaal windverband (0) enkel normaalkracht
B1632	CS54 - RD24	Horizontal Bracing	10,598	Lijn	N1295 N1291	Horizontaal windverband (0) enkel normaalkracht
B1633	CS54 - RD24	Horizontal Bracing	5,300	Lijn	N1291 N2566	Horizontaal windverband (0) enkel normaalkracht
B1634	CS54 - RD24	Horizontal Bracing	5,300	Lijn	N1328 N2566	Horizontaal windverband (0) enkel normaalkracht
B2234	CS55 - IPE330	Longitudinal beams	8,333	Lijn	N1287 N1288	Horizontaal windverband (0) standaard
B2235	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N14 N160	Horizontaal windverband (0) standaard
B2236	CS49 - HEA160	Horizontal Bracing	8,333	Lijn	N160 N250	Horizontaal windverband (0) standaard

#### 7.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Horizontal bracing  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B66	CS49 - HEA160	0,000	NC9	<b>-91,638</b>	0,000	1,494	0,000	0,000	0,000
B66	CS49 - HEA160	0,000	NC2	<b>0,014</b>	0,000	1,494	0,001	0,000	0,000
B66	CS49 - HEA160	0,000	NC13	-6,282	<b>0,000</b>	1,120	0,003	0,000	0,000
B66	CS49 - HEA160	8,333	NC1	-0,008	0,000	<b>-1,681</b>	0,001	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B66	CS49 - HEA160	0,000	NC1	-0,008	0,000	<b>1,681</b>	0,001	0,000	0,000
B66	CS49 - HEA160	0,000	NC15	-56,137	0,000	1,120	<b>-0,003</b>	0,000	0,000
B66	CS49 - HEA160	0,000	NC6	-4,969	0,000	1,494	<b>0,004</b>	0,000	<b>0,000</b>
B66	CS49 - HEA160	0,000	NC18	-91,144	0,000	1,120	-0,001	<b>0,000</b>	0,000
B66	CS49 - HEA160	4,167	NC1	-0,008	0,000	0,000	0,001	<b>3,501</b>	0,000
B67	CS49 - HEA160	0,000	NC18	<b>-88,427</b>	0,000	1,120	-0,002	0,000	0,000
B67	CS49 - HEA160	0,000	NC7	<b>85,091</b>	0,000	1,494	<b>-0,008</b>	0,000	0,000
B67	CS49 - HEA160	0,000	NC6	-7,956	<b>0,000</b>	1,494	0,003	0,000	0,000
B67	CS49 - HEA160	8,333	NC1	-0,167	0,000	<b>-1,681</b>	0,000	0,000	0,000
B67	CS49 - HEA160	0,000	NC1	-0,167	0,000	<b>1,681</b>	0,000	0,000	0,000
B67	CS49 - HEA160	0,000	NC14	-9,324	0,000	1,120	<b>0,003</b>	0,000	0,000
B67	CS49 - HEA160	0,000	NC16	81,011	0,000	1,120	-0,007	<b>0,000</b>	<b>0,000</b>
B67	CS49 - HEA160	4,167	NC1	-0,167	0,000	0,000	0,000	<b>3,501</b>	0,000
B69	CS49 - HEA160	0,000	NC15	<b>-55,732</b>	0,000	1,120	<b>0,009</b>	0,000	0,000
B69	CS49 - HEA160	0,000	NC1	<b>-1,326</b>	0,000	<b>1,681</b>	-0,001	0,000	0,000
B69	CS49 - HEA160	0,000	NC16	-55,575	<b>0,000</b>	1,120	0,009	<b>0,000</b>	0,000
B69	CS49 - HEA160	8,333	NC1	-1,326	0,000	<b>-1,681</b>	-0,001	0,000	0,000
B69	CS49 - HEA160	0,000	NC4	-19,378	0,000	1,494	<b>-0,009</b>	0,000	0,000
B69	CS49 - HEA160	4,167	NC1	-1,326	0,000	0,000	-0,001	<b>3,501</b>	0,000
B69	CS49 - HEA160	0,000	NC13	-34,915	0,000	1,120	0,008	0,000	<b>0,000</b>
B70	CS49 - HEA160	0,000	NC15	<b>-30,775</b>	0,000	1,120	0,001	0,000	0,000
B70	CS49 - HEA160	0,000	NC1	<b>-1,853</b>	0,000	<b>1,681</b>	0,003	0,000	0,000
B70	CS49 - HEA160	0,000	NC6	-20,146	<b>0,000</b>	1,494	0,000	0,000	0,000
B70	CS49 - HEA160	8,333	NC1	-1,853	0,000	<b>-1,681</b>	0,003	0,000	0,000
B70	CS49 - HEA160	0,000	NC18	-22,599	0,000	1,120	<b>-0,005</b>	0,000	0,000
B70	CS49 - HEA160	0,000	NC2	-3,529	0,000	1,494	<b>0,007</b>	0,000	<b>0,000</b>
B70	CS49 - HEA160	0,000	NC11	-26,113	0,000	1,120	0,001	<b>0,000</b>	0,000
B70	CS49 - HEA160	4,167	NC1	-1,853	0,000	0,000	0,003	<b>3,501</b>	0,000
B71	CS49 - HEA160	0,000	NC15	<b>-113,499</b>	0,000	1,120	0,004	<b>0,000</b>	0,000
B71	CS49 - HEA160	0,000	NC12	<b>28,717</b>	0,000	1,120	-0,006	0,000	0,000
B71	CS49 - HEA160	0,000	NC4	21,456	<b>0,000</b>	1,494	-0,006	0,000	0,000
B71	CS49 - HEA160	8,333	NC1	-4,830	0,000	<b>-1,681</b>	-0,001	0,000	0,000
B71	CS49 - HEA160	0,000	NC1	-4,830	0,000	<b>1,681</b>	-0,001	0,000	0,000
B71	CS49 - HEA160	0,000	NC3	20,789	0,000	1,494	<b>-0,007</b>	0,000	0,000
B71	CS49 - HEA160	0,000	NC14	-67,333	0,000	1,120	<b>0,004</b>	0,000	0,000
B71	CS49 - HEA160	4,167	NC1	-4,830	0,000	0,000	-0,001	<b>3,501</b>	0,000
B71	CS49 - HEA160	0,000	NC13	-68,500	0,000	1,120	0,004	0,000	<b>0,000</b>
B256	CS49 - HEA160	0,000	NC11	<b>-65,334</b>	0,000	1,121	<b>0,002</b>	0,000	0,000
B256	CS49 - HEA160	0,000	NC8	<b>106,570</b>	0,000	1,494	<b>-0,006</b>	0,000	0,000
B256	CS49 - HEA160	0,000	NC4	-59,658	<b>0,000</b>	1,494	0,001	0,000	0,000
B256	CS49 - HEA160	8,335	NC1	4,426	0,000	<b>-1,681</b>	0,000	0,000	0,000
B256	CS49 - HEA160	0,000	NC1	4,426	0,000	<b>1,681</b>	0,000	0,000	0,000
B256	CS49 - HEA160	0,000	NC16	98,883	0,000	1,121	-0,006	<b>0,000</b>	0,000
B256	CS49 - HEA160	4,168	NC1	4,426	0,000	0,000	0,000	<b>3,503</b>	0,000
B256	CS49 - HEA160	3,334	NC13	68,389	0,000	0,224	0,000	2,242	<b>0,000</b>
B256	CS49 - HEA160	3,334	NC4	-59,658	0,000	0,299	0,001	2,989	<b>0,000</b>
B259	CS49 - HEA160	0,000	NC7	<b>-140,325</b>	0,000	1,494	-0,005	0,000	0,000
B259	CS49 - HEA160	0,000	NC12	<b>48,315</b>	0,000	1,121	0,000	0,000	0,000
B259	CS49 - HEA160	0,000	NC4	42,024	<b>0,000</b>	1,494	0,001	0,000	0,000
B259	CS49 - HEA160	8,335	NC1	-12,431	0,000	<b>-1,681</b>	0,001	0,000	0,000
B259	CS49 - HEA160	0,000	NC1	-12,431	0,000	<b>1,681</b>	0,001	0,000	0,000
B259	CS49 - HEA160	0,000	NC15	-137,144	0,000	1,121	<b>-0,006</b>	0,000	0,000
B259	CS49 - HEA160	0,000	NC2	-24,560	0,000	1,494	<b>0,003</b>	0,000	0,000
B259	CS49 - HEA160	0,000	NC16	-136,906	0,000	1,121	-0,006	<b>0,000</b>	0,000
B259	CS49 - HEA160	4,168	NC1	-12,431	0,000	0,000	0,001	<b>3,503</b>	0,000
B259	CS49 - HEA160	2,501	NC6	-60,728	0,000	0,598	-0,002	2,615	<b>0,000</b>
B259	CS49 - HEA160	3,334	NC4	42,024	0,000	0,299	0,001	2,989	<b>0,000</b>
B349	CS49 - HEA160	0,000	NC12	<b>-38,601</b>	0,000	1,120	0,002	0,000	0,000
B349	CS49 - HEA160	0,000	NC17	<b>25,752</b>	0,000	1,120	-0,001	0,000	0,000
B349	CS49 - HEA160	0,000	NC6	12,052	<b>0,000</b>	1,494	0,000	0,000	0,000
B349	CS49 - HEA160	8,333	NC1	-1,707	0,000	<b>-1,681</b>	0,000	0,000	0,000
B349	CS49 - HEA160	0,000	NC1	-1,707	0,000	<b>1,681</b>	0,000	0,000	0,000
B349	CS49 - HEA160	0,000	NC8	-30,783	0,000	1,494	<b>-0,006</b>	0,000	0,000
B349	CS49 - HEA160	0,000	NC11	-38,554	0,000	1,120	<b>0,002</b>	0,000	<b>0,000</b>
B349	CS49 - HEA160	0,000	NC16	-32,173	0,000	1,120	-0,006	<b>0,000</b>	0,000
B349	CS49 - HEA160	4,167	NC1	-1,707	0,000	0,000	0,000	<b>3,501</b>	0,000
B350	CS49 - HEA160	0,000	NC12	<b>-42,103</b>	0,000	1,120	0,002	0,000	0,000
B350	CS49 - HEA160	0,000	NC17	<b>29,258</b>	0,000	1,120	-0,002	0,000	0,000
B350	CS49 - HEA160	0,000	NC3	-41,207	<b>0,000</b>	1,494	0,002	0,000	0,000
B350	CS49 - HEA160	8,331	NC1	-1,456	0,000	<b>-1,680</b>	0,000	0,000	0,000
B350	CS49 - HEA160	0,000	NC1	-1,456	0,000	<b>1,680</b>	0,000	0,000	0,000
B350	CS49 - HEA160	0,000	NC13	16,442	0,000	1,120	<b>-0,004</b>	<b>0,000</b>	0,000
B350	CS49 - HEA160	0,000	NC7	-30,852	0,000	1,494	<b>0,003</b>	0,000	0,000
B350	CS49 - HEA160	4,165	NC1	-1,456	0,000	0,000	0,000	<b>3,500</b>	0,000
B350	CS49 - HEA160	0,000	NC4	-41,200	0,000	1,494	0,002	0,000	<b>0,000</b>
B351	CS49 - HEA160	0,000	NC7	<b>-113,995</b>	0,000	1,494	0,010	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B351	CS49 - HEA160	0,000	NC3	<b>13,056</b>	0,000	1,494	-0,001	0,000	0,000
B351	CS49 - HEA160	0,000	NC11	3,375	<b>0,000</b>	1,120	-0,001	0,000	0,000
B351	CS49 - HEA160	8,333	NC1	0,036	0,000	<b>-1,681</b>	-0,001	0,000	0,000
B351	CS49 - HEA160	0,000	NC1	0,036	0,000	<b>1,681</b>	-0,001	0,000	0,000
B351	CS49 - HEA160	0,000	NC5	-10,666	0,000	1,494	<b>-0,003</b>	0,000	0,000
B351	CS49 - HEA160	0,000	NC8	-113,967	0,000	1,494	<b>0,010</b>	0,000	0,000
B351	CS49 - HEA160	0,000	NC17	-78,376	0,000	1,120	0,002	<b>0,000</b>	0,000
B351	CS49 - HEA160	4,167	NC1	0,036	0,000	0,000	-0,001	<b>3,501</b>	0,000
B351	CS49 - HEA160	0,000	NC12	3,414	0,000	1,120	-0,001	0,000	<b>0,000</b>
B352	CS49 - HEA160	0,000	NC16	<b>-60,788</b>	0,000	1,120	0,001	0,000	0,000
B352	CS49 - HEA160	0,000	NC2	<b>112,178</b>	0,000	1,494	<b>-0,001</b>	<b>0,000</b>	0,000
B352	CS49 - HEA160	0,000	NC7	-31,900	<b>0,000</b>	1,494	0,000	0,000	0,000
B352	CS49 - HEA160	8,333	NC1	56,692	0,000	<b>-1,681</b>	0,000	0,000	0,000
B352	CS49 - HEA160	0,000	NC1	56,692	0,000	<b>1,681</b>	0,000	0,000	0,000
B352	CS49 - HEA160	0,000	NC11	25,129	0,000	1,120	<b>0,001</b>	0,000	0,000
B352	CS49 - HEA160	4,167	NC1	56,692	0,000	0,000	0,000	<b>3,501</b>	0,000
B352	CS49 - HEA160	0,000	NC12	18,919	0,000	1,120	0,001	0,000	<b>0,000</b>
B353	CS49 - HEA160	0,000	NC18	<b>-68,314</b>	0,000	1,120	-0,005	<b>0,000</b>	0,000
B353	CS49 - HEA160	0,000	NC2	<b>113,057</b>	0,000	1,494	-0,001	0,000	0,000
B353	CS49 - HEA160	0,000	NC6	0,636	<b>0,000</b>	1,494	-0,005	0,000	0,000
B353	CS49 - HEA160	8,331	NC1	56,675	0,000	<b>-1,680</b>	-0,001	0,000	0,000
B353	CS49 - HEA160	0,000	NC1	56,675	0,000	<b>1,680</b>	-0,001	0,000	0,000
B353	CS49 - HEA160	0,000	NC10	-40,425	0,000	1,494	<b>-0,006</b>	0,000	0,000
B353	CS49 - HEA160	0,000	NC12	29,932	0,000	1,120	<b>0,003</b>	0,000	0,000
B353	CS49 - HEA160	4,165	NC1	56,675	0,000	0,000	-0,001	<b>3,500</b>	0,000
B353	CS49 - HEA160	0,000	NC3	63,329	0,000	1,494	0,002	0,000	<b>0,000</b>
B354	CS49 - HEA160	0,000	NC18	<b>-60,876</b>	0,000	1,120	-0,003	0,000	0,000
B354	CS49 - HEA160	0,000	NC16	<b>4,928</b>	0,000	1,120	<b>0,014</b>	0,000	0,000
B354	CS49 - HEA160	0,000	NC12	-10,692	<b>0,000</b>	1,120	0,004	0,000	<b>0,000</b>
B354	CS49 - HEA160	8,333	NC1	-9,207	0,000	<b>-1,681</b>	-0,005	0,000	0,000
B354	CS49 - HEA160	0,000	NC1	-9,207	0,000	<b>1,681</b>	-0,005	0,000	0,000
B354	CS49 - HEA160	0,000	NC2	-18,528	0,000	1,494	<b>-0,013</b>	0,000	0,000
B354	CS49 - HEA160	8,333	NC2	-18,528	0,000	-1,494	-0,013	<b>0,000</b>	0,000
B354	CS49 - HEA160	4,167	NC1	-9,207	0,000	0,000	-0,005	<b>3,501</b>	0,000
B661	CS55 - IPE330	4,167	NC15	<b>-114,898</b>	0,005	2,275	0,013	-5,713	-0,023
B661	CS55 - IPE330	0,000	NC10	<b>13,650</b>	-0,024	17,406	0,000	0,000	0,000
B661	CS55 - IPE330	0,000	NC5	5,817	<b>-0,027</b>	20,205	0,014	0,000	0,000
B661	CS55 - IPE330	4,167	NC5	5,837	<b>0,027</b>	-17,795	0,014	79,165	-0,113
B661	CS55 - IPE330	8,333	NC2	-4,165	-0,006	<b>-39,607</b>	-0,006	0,000	0,000
B661	CS55 - IPE330	0,000	NC2	-4,177	0,006	<b>39,607</b>	-0,006	0,000	0,000
B661	CS55 - IPE330	0,000	NC4	9,584	-0,013	17,409	<b>-0,017</b>	0,000	0,000
B661	CS55 - IPE330	0,000	NC13	4,862	-0,022	10,908	<b>0,014</b>	0,000	0,000
B661	CS55 - IPE330	4,167	NC15	-114,892	-0,005	-2,275	0,013	<b>-5,713</b>	-0,023
B661	CS55 - IPE330	4,167	NC2	-4,177	0,006	37,197	-0,006	<b>160,003</b>	<b>0,027</b>
B661	CS55 - IPE330	4,167	NC5	5,817	-0,027	17,795	0,014	79,165	<b>-0,113</b>
B662	CS55 - IPE330	0,000	NC7	<b>-69,009</b>	-0,044	20,186	0,005	0,000	0,000
B662	CS55 - IPE330	4,167	NC5	<b>25,188</b>	0,034	-17,775	0,000	79,083	-0,141
B662	CS55 - IPE330	0,000	NC15	-67,825	<b>-0,045</b>	10,893	0,001	0,000	0,000
B662	CS55 - IPE330	4,167	NC15	-67,800	<b>0,045</b>	-9,086	0,001	41,621	-0,189
B662	CS55 - IPE330	8,333	NC2	-3,265	0,010	<b>-39,588</b>	0,015	0,000	0,000
B662	CS55 - IPE330	0,000	NC2	-3,270	-0,010	<b>39,588</b>	<b>0,015</b>	<b>0,000</b>	0,000
B662	CS55 - IPE330	0,000	NC18	-28,389	-0,017	8,094	<b>-0,010</b>	0,000	0,000
B662	CS55 - IPE330	4,167	NC2	-3,270	-0,010	37,177	0,015	<b>159,920</b>	-0,040
B662	CS55 - IPE330	4,167	NC15	-67,825	-0,045	9,086	0,001	41,621	<b>-0,189</b>
B662	CS55 - IPE330	0,000	NC5	25,164	-0,034	20,186	0,000	0,000	<b>0,000</b>
B663	CS55 - IPE330	4,167	NC18	<b>-59,012</b>	0,013	-6,203	0,006	29,612	-0,055
B663	CS55 - IPE330	4,167	NC5	<b>39,796</b>	0,017	-17,665	0,009	78,620	-0,072
B663	CS55 - IPE330	0,000	NC7	-14,953	<b>-0,045</b>	20,075	0,007	0,000	0,000
B663	CS55 - IPE330	4,167	NC7	-14,858	<b>0,045</b>	-17,665	0,007	78,620	-0,187
B663	CS55 - IPE330	8,333	NC2	17,069	0,012	<b>-39,477</b>	-0,003	0,000	0,000
B663	CS55 - IPE330	0,000	NC2	17,071	-0,012	<b>39,477</b>	-0,003	<b>0,000</b>	0,000
B663	CS55 - IPE330	0,000	NC3	-29,910	0,000	20,075	<b>-0,013</b>	0,000	0,000
B663	CS55 - IPE330	0,000	NC14	36,167	-0,017	8,011	<b>0,009</b>	0,000	0,000
B663	CS55 - IPE330	4,167	NC2	17,071	-0,012	37,066	-0,003	<b>159,458</b>	-0,048
B663	CS55 - IPE330	4,167	NC7	-14,953	-0,045	17,665	0,007	78,620	<b>-0,187</b>
B663	CS55 - IPE330	4,167	NC12	-33,445	0,004	6,206	-0,012	29,622	<b>0,017</b>
B664	CS55 - IPE330	4,167	NC18	<b>-95,063</b>	0,007	-6,203	-0,006	29,612	-0,028
B664	CS55 - IPE330	4,167	NC5	<b>63,234</b>	0,022	-17,665	0,001	78,620	-0,091
B664	CS55 - IPE330	0,000	NC9	-85,691	<b>-0,025</b>	25,129	-0,002	0,000	0,000
B664	CS55 - IPE330	4,167	NC9	-85,745	<b>0,025</b>	-22,719	-0,002	99,679	-0,103
B664	CS55 - IPE330	8,333	NC2	18,560	0,018	<b>-39,477</b>	0,007	0,000	0,000
B664	CS55 - IPE330	0,000	NC2	18,566	-0,018	<b>39,477</b>	<b>0,007</b>	<b>0,000</b>	0,000
B664	CS55 - IPE330	0,000	NC15	43,674	-0,019	10,810	<b>-0,006</b>	0,000	0,000
B664	CS55 - IPE330	4,167	NC2	18,566	-0,018	37,066	0,007	<b>159,458</b>	-0,076
B664	CS55 - IPE330	4,167	NC9	-85,691	-0,025	22,719	-0,002	99,679	<b>-0,103</b>
B664	CS55 - IPE330	4,167	NC12	-41,971	0,014	6,206	0,002	29,622	<b>0,059</b>



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B679	CS54 - RD24	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B679	CS54 - RD24	0,000	NC4	<b>45,114</b>	0,000	0,000	0,000	0,000	0,000
B679	CS54 - RD24	0,000	NC1	4,156	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B680	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B680	CS54 - RD24	0,000	NC15	<b>83,533</b>	0,000	0,000	0,000	0,000	0,000
B1591	CS49 - HEA160	0,000	NC7	<b>-94,700</b>	0,000	1,494	-0,002	0,000	0,000
B1591	CS49 - HEA160	0,000	NC12	<b>20,975</b>	0,000	1,120	0,001	0,000	0,000
B1591	CS49 - HEA160	0,000	NC3	12,364	<b>0,000</b>	1,494	0,002	0,000	0,000
B1591	CS49 - HEA160	8,333	NC1	-6,032	0,000	<b>-1,681</b>	0,001	0,000	0,000
B1591	CS49 - HEA160	0,000	NC1	-6,032	0,000	<b>1,681</b>	0,001	0,000	0,000
B1591	CS49 - HEA160	0,000	NC15	-93,937	0,000	1,120	<b>-0,003</b>	0,000	0,000
B1591	CS49 - HEA160	0,000	NC2	-12,382	0,000	1,494	<b>0,003</b>	0,000	0,000
B1591	CS49 - HEA160	0,000	NC11	20,105	0,000	1,120	0,001	<b>0,000</b>	0,000
B1591	CS49 - HEA160	4,167	NC1	-6,032	0,000	0,000	0,001	<b>3,501</b>	0,000
B1591	CS49 - HEA160	3,333	NC6	-61,341	0,000	0,299	0,000	2,988	<b>0,000</b>
B1591	CS49 - HEA160	0,000	NC5	-62,553	0,000	1,494	0,000	0,000	<b>0,000</b>
B1592	CS49 - HEA160	0,000	NC7	<b>-143,067</b>	0,000	1,494	-0,008	0,000	0,000
B1592	CS49 - HEA160	0,000	NC12	<b>50,619</b>	0,000	1,120	0,004	0,000	0,000
B1592	CS49 - HEA160	6,666	NC5	-60,252	<b>0,000</b>	-0,896	-0,003	1,992	0,000
B1592	CS49 - HEA160	0,000	NC5	-60,252	<b>0,000</b>	1,494	-0,003	0,000	0,000
B1592	CS49 - HEA160	8,333	NC1	-8,300	0,000	<b>-1,681</b>	0,005	0,000	0,000
B1592	CS49 - HEA160	0,000	NC1	-8,300	0,000	<b>1,681</b>	0,005	0,000	0,000
B1592	CS49 - HEA160	0,000	NC16	-141,799	0,000	1,120	<b>-0,011</b>	0,000	0,000
B1592	CS49 - HEA160	0,000	NC2	-16,318	0,000	1,494	<b>0,013</b>	0,000	0,000
B1592	CS49 - HEA160	0,000	NC15	-142,018	0,000	1,120	-0,011	<b>0,000</b>	0,000
B1592	CS49 - HEA160	4,167	NC1	-8,300	0,000	0,000	0,005	<b>3,501</b>	0,000
B1592	CS49 - HEA160	0,000	NC18	39,315	0,000	1,120	-0,009	0,000	<b>0,000</b>
B1592	CS49 - HEA160	2,500	NC5	-60,252	0,000	0,598	-0,003	2,614	<b>0,000</b>
B1619	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1619	CS54 - RD24	0,000	NC18	<b>65,669</b>	0,000	0,000	0,000	0,000	0,000
B1620	CS54 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1620	CS54 - RD24	0,000	NC7	<b>92,838</b>	0,000	0,000	0,000	0,000	0,000
B1620	CS54 - RD24	0,000	NC1	9,486	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1621	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1621	CS54 - RD24	0,000	NC18	<b>51,955</b>	0,000	0,000	0,000	0,000	0,000
B1622	CS54 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1622	CS54 - RD24	0,000	NC7	<b>99,471</b>	0,000	0,000	0,000	0,000	0,000
B1622	CS54 - RD24	0,000	NC1	0,915	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1623	CS54 - RD24	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1623	CS54 - RD24	0,000	NC9	<b>60,936</b>	0,000	0,000	0,000	0,000	0,000
B1623	CS54 - RD24	0,000	NC1	1,737	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1624	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1624	CS54 - RD24	0,000	NC8	<b>90,936</b>	0,000	0,000	0,000	0,000	0,000
B1625	CS54 - RD24	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1625	CS54 - RD24	5,300	NC9	<b>60,210</b>	0,000	0,000	0,000	0,000	0,000
B1625	CS54 - RD24	0,000	NC1	15,932	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1626	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1626	CS54 - RD24	5,300	NC16	<b>112,461</b>	0,000	0,000	0,000	0,000	0,000
B1627	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1627	CS54 - RD24	0,000	NC9	<b>65,135</b>	0,000	0,000	0,000	0,000	0,000
B1628	CS54 - RD24	0,000	NC9	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1628	CS54 - RD24	5,300	NC8	<b>76,358</b>	0,000	0,000	0,000	0,000	0,000
B1628	CS54 - RD24	0,000	NC1	2,649	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1629	CS54 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1629	CS54 - RD24	0,000	NC10	<b>80,077</b>	0,000	0,000	0,000	0,000	0,000
B1629	CS54 - RD24	0,000	NC1	5,536	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1630	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1630	CS54 - RD24	5,300	NC16	<b>44,626</b>	0,000	0,000	0,000	0,000	0,000
B1631	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1631	CS54 - RD24	0,000	NC17	<b>79,374</b>	0,000	0,000	0,000	0,000	0,000
B1632	CS54 - RD24	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1632	CS54 - RD24	5,299	NC3	<b>70,257</b>	0,000	0,000	0,000	0,000	0,000
B1632	CS54 - RD24	0,000	NC1	10,570	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1633	CS54 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1633	CS54 - RD24	0,000	NC18	<b>65,572</b>	0,000	0,000	0,000	0,000	0,000
B1634	CS54 - RD24	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1634	CS54 - RD24	0,000	NC4	<b>19,523</b>	0,000	0,000	0,000	0,000	0,000
B1634	CS54 - RD24	0,000	NC1	3,715	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2234	CS55 - IPE330	4,167	NC9	<b>-124,770</b>	0,026	-22,830	0,000	100,141	-0,109
B2234	CS55 - IPE330	4,167	NC8	<b>107,041</b>	0,054	-17,775	-0,012	79,083	-0,224
B2234	CS55 - IPE330	0,000	NC15	101,774	<b>-0,055</b>	10,893	-0,016	0,000	0,000
B2234	CS55 - IPE330	4,167	NC15	101,811	<b>0,055</b>	-9,086	-0,016	41,621	-0,230
B2234	CS55 - IPE330	8,333	NC2	-9,334	0,007	<b>-39,588</b>	0,019	0,000	0,000
B2234	CS55 - IPE330	0,000	NC2	-9,332	-0,007	<b>39,588</b>	<b>0,019</b>	<b>0,000</b>	0,000
B2234	CS55 - IPE330	0,000	NC16	101,706	-0,055	10,893	<b>-0,016</b>	0,000	0,000
B2234	CS55 - IPE330	4,167	NC2	-9,332	-0,007	37,177	0,019	<b>159,920</b>	-0,029



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2234	CS55 - IPE330	4,167	NC15	101,774	-0,055	9,086	-0,016	41,621	<b>-0,230</b>
B2234	CS55 - IPE330	4,167	NC11	-42,974	0,001	9,086	0,006	41,621	<b>0,004</b>
B2235	CS49 - HEA160	0,000	NC3	<b>-60,403</b>	0,000	1,494	-0,001	0,000	0,000
B2235	CS49 - HEA160	0,000	NC14	<b>45,130</b>	0,000	1,120	0,000	0,000	0,000
B2235	CS49 - HEA160	0,000	NC6	40,776	<b>0,000</b>	1,494	0,000	0,000	0,000
B2235	CS49 - HEA160	8,333	NC1	-0,420	0,000	<b>-1,681</b>	0,000	0,000	0,000
B2235	CS49 - HEA160	0,000	NC1	-0,420	0,000	<b>1,681</b>	0,000	0,000	0,000
B2235	CS49 - HEA160	0,000	NC4	-60,258	0,000	1,494	<b>-0,001</b>	0,000	0,000
B2235	CS49 - HEA160	0,000	NC7	42,449	0,000	1,494	<b>0,004</b>	0,000	0,000
B2235	CS49 - HEA160	0,000	NC11	-59,563	0,000	1,120	-0,001	<b>0,000</b>	0,000
B2235	CS49 - HEA160	4,167	NC1	-0,420	0,000	0,000	0,000	<b>3,501</b>	0,000
B2235	CS49 - HEA160	6,666	NC11	-59,563	0,000	-0,672	-0,001	1,494	<b>0,000</b>
B2235	CS49 - HEA160	0,000	NC13	44,804	0,000	1,120	0,000	0,000	<b>0,000</b>
B2236	CS49 - HEA160	0,000	NC12	<b>-66,153</b>	0,000	1,120	0,000	0,000	0,000
B2236	CS49 - HEA160	0,000	NC6	<b>67,669</b>	0,000	1,494	0,000	0,000	0,000
B2236	CS49 - HEA160	0,000	NC7	-54,279	<b>0,000</b>	1,494	0,000	0,000	0,000
B2236	CS49 - HEA160	8,333	NC1	4,226	0,000	<b>-1,681</b>	0,001	0,000	0,000
B2236	CS49 - HEA160	0,000	NC1	4,226	0,000	<b>1,681</b>	0,001	0,000	0,000
B2236	CS49 - HEA160	0,000	NC16	-61,206	0,000	1,120	<b>-0,001</b>	0,000	0,000
B2236	CS49 - HEA160	0,000	NC2	9,861	0,000	1,494	<b>0,001</b>	0,000	<b>0,000</b>
B2236	CS49 - HEA160	0,000	NC17	-45,217	0,000	1,120	0,001	<b>0,000</b>	0,000
B2236	CS49 - HEA160	4,167	NC1	4,226	0,000	0,000	0,001	<b>3,501</b>	0,000
B2236	CS49 - HEA160	3,333	NC3	-60,206	0,000	0,299	0,000	2,988	<b>0,000</b>

### 7.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

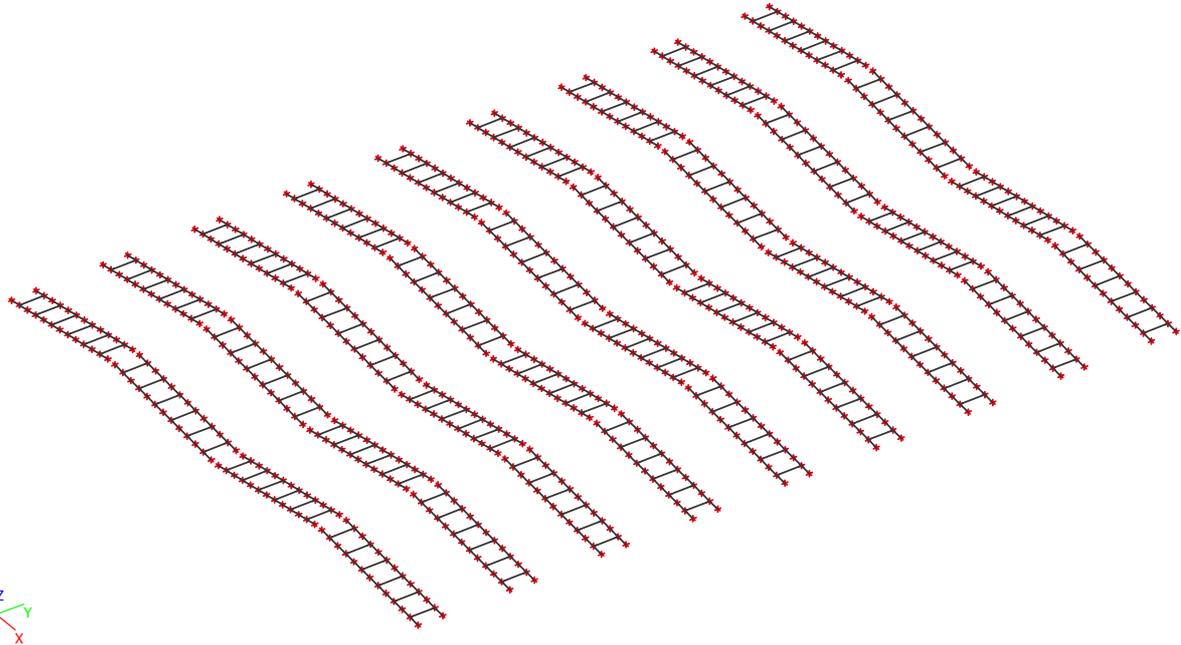
Selectie: Benoemde selectie - Horizontal brasing

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B66	2,500	NC9	CS49 - HEA160	S 355	<b>0,66</b>	0,07	0,66
B67	2,500	NC10	CS49 - HEA160	S 355	<b>0,64</b>	0,06	0,64
B69	3,333-	NC15	CS49 - HEA160	S 355	<b>0,41</b>	0,04	0,41
B70	4,167	NC7	CS49 - HEA160	S 355	<b>0,26</b>	0,04	0,26
B71	2,500	NC7	CS49 - HEA160	S 355	<b>0,80</b>	0,08	0,80
B256	3,334-	NC11	CS49 - HEA160	S 355	<b>0,48</b>	0,05	0,48
B259	2,500	NC7	CS49 - HEA160	S 355	<b>0,97</b>	0,10	0,97
B349	4,166	NC3	CS49 - HEA160	S 355	<b>0,32</b>	0,04	0,32
B350	4,166	NC3	CS49 - HEA160	S 355	<b>0,34</b>	0,04	0,34
B351	2,500	NC7	CS49 - HEA160	S 355	<b>0,81</b>	0,08	0,81
B352	3,333-	NC16	CS49 - HEA160	S 355	<b>0,45</b>	0,04	0,45
B353	3,332-	NC18	CS49 - HEA160	S 355	<b>0,50</b>	0,05	0,50
B354	2,500	NC10	CS49 - HEA160	S 355	<b>0,46</b>	0,04	0,46
B661	4,167-	NC2	CS55 - IPE330	S 355	<b>0,89</b>	0,56	0,89
B662	4,166-	NC2	CS55 - IPE330	S 355	<b>0,89</b>	0,56	0,89
B663	4,166-	NC2	CS55 - IPE330	S 355	<b>0,83</b>	0,56	0,83
B664	4,166-	NC2	CS55 - IPE330	S 355	<b>0,83</b>	0,56	0,83
B679	0,000	NC4	CS54 - RD24	S 355	<b>0,28</b>	0,28	0,00
B680	0,000	NC15	CS54 - RD24	S 355	<b>0,52</b>	0,52	0,00
B1591	2,500	NC7	CS49 - HEA160	S 355	<b>0,68</b>	0,07	0,68
B1592	2,500	NC7	CS49 - HEA160	S 355	<b>0,99</b>	0,10	0,99
B1619	0,000	NC18	CS54 - RD24	S 355	<b>0,41</b>	0,41	0,00
B1620	0,000	NC7	CS54 - RD24	S 355	<b>0,58</b>	0,58	0,00
B1621	0,000	NC18	CS54 - RD24	S 355	<b>0,33</b>	0,33	0,00
B1622	0,000	NC7	CS54 - RD24	S 355	<b>0,62</b>	0,62	0,00
B1623	0,000	NC9	CS54 - RD24	S 355	<b>0,38</b>	0,38	0,00
B1624	0,000	NC8	CS54 - RD24	S 355	<b>0,57</b>	0,57	0,00
B1625	5,300+	NC9	CS54 - RD24	S 355	<b>0,38</b>	0,38	0,00
B1626	5,300+	NC16	CS54 - RD24	S 355	<b>0,70</b>	0,70	0,00
B1627	0,000	NC9	CS54 - RD24	S 355	<b>0,41</b>	0,41	0,00
B1628	5,300+	NC8	CS54 - RD24	S 355	<b>0,48</b>	0,48	0,00
B1629	0,000	NC10	CS54 - RD24	S 355	<b>0,50</b>	0,50	0,00
B1630	5,300+	NC16	CS54 - RD24	S 355	<b>0,28</b>	0,28	0,00
B1631	0,000	NC17	CS54 - RD24	S 355	<b>0,50</b>	0,50	0,00
B1632	5,299+	NC3	CS54 - RD24	S 355	<b>0,44</b>	0,44	0,00
B1633	0,000	NC18	CS54 - RD24	S 355	<b>0,41</b>	0,41	0,00
B1634	0,000	NC4	CS54 - RD24	S 355	<b>0,12</b>	0,12	0,00
B2234	4,166+	NC2	CS55 - IPE330	S 355	<b>0,90</b>	0,56	0,90
B2235	2,500	NC3	CS49 - HEA160	S 355	<b>0,46</b>	0,04	0,46
B2236	3,333-	NC12	CS49 - HEA160	S 355	<b>0,48</b>	0,05	0,48

## 8.) Ligger lichtplaten

### 8.1. Analysemodel



### 8.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N3	0,000	6,800	-0,500
N4	0,000	6,800	7,040
N5	27,000	6,800	-0,500
N6	27,000	6,800	7,040
N21	6,750	6,800	-0,500
N22	6,750	6,800	7,930
N23	20,250	6,800	-0,500
N24	20,250	6,800	7,930
N35	33,750	6,800	-0,500
N36	33,750	6,800	7,930
N51	0,000	15,133	7,040
N55	0,000	15,133	-0,500
N160	0,000	40,132	7,040
N164	0,000	40,132	-0,500
N250	0,000	48,465	7,040
N254	0,000	48,465	-0,500
N322	13,500	81,797	8,820
N323	0,000	81,797	-0,500

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N324	0,000	81,797	7,040
N325	27,000	81,797	-0,500
N326	27,000	81,797	7,040
N329	54,000	81,797	-0,500
N330	54,000	81,797	7,040
N332	0,000	73,464	7,040
N336	0,000	73,464	-0,500
N363	6,750	81,797	7,930
N378	20,250	81,797	7,930
N393	47,250	81,797	7,930
N408	33,750	81,797	7,930
N510	20,250	81,797	-0,500
N511	33,750	81,797	-0,500
N512	47,250	81,797	-0,500
N1829	3,250	81,797	7,469
N1840	10,125	81,797	5,350
N1841	6,750	81,797	5,350

### 8.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B998	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N3 N22	Vertikaal windverband (0) enkel normaalkracht
B999	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N21 N4	Vertikaal windverband (0) enkel normaalkracht
B1000	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N23 N6	Vertikaal windverband (0) enkel normaalkracht
B1001	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N5 N24	Vertikaal windverband (0) enkel normaalkracht
B1002	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N5 N36	Vertikaal windverband (0) enkel normaalkracht
B1003	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N35 N6	Vertikaal windverband (0) enkel normaalkracht
B1004	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N3 N51	Vertikaal windverband (0) enkel normaalkracht
B1005	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N55 N4	Vertikaal windverband (0) enkel normaalkracht
B1006	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N164	Vertikaal windverband (0)

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N250		enkel normaalkracht
B1007	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N254		Vertikaal windverband (0)
					N160		enkel normaalkracht
B1010	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N336		Vertikaal windverband (0)
					N324		enkel normaalkracht
B1011	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N323		Vertikaal windverband (0)
					N332		enkel normaalkracht
B1012	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N510		Vertikaal windverband (0)
					N326		enkel normaalkracht
B1013	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N325		Vertikaal windverband (0)
					N378		enkel normaalkracht
B1014	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N325		Vertikaal windverband (0)
					N408		enkel normaalkracht
B1015	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N511		Vertikaal windverband (0)
					N326		enkel normaalkracht
B1016	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N512		Vertikaal windverband (0)
					N330		enkel normaalkracht
B1017	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N329		Vertikaal windverband (0)
					N393		enkel normaalkracht
B2277	CS45 - L60X6	Vertical Bracing	4,841	Lijn	N322		Balk (80)
					N1840		standaard
B2278	CS45 - L60X6	Vertical Bracing	4,248	Lijn	N363		Balk (80)
					N1840		standaard
B2279	CS45 - L60X6	Vertical Bracing	4,091	Lijn	N1829		Balk (80)
					N1841		standaard

#### 8.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Vertical bracings  
 Klasse : ULS-NL

Staad	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B998	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B998	CS16 - FL100X20	10,799	NC3	<b>169,403</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	10,120	NC5	<b>136,308</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	0,000	NC1	0,895	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1000	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1000	CS16 - FL100X20	10,120	NC11	<b>171,498</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	10,799	NC5	<b>140,356</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	0,000	NC1	0,147	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1002	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1002	CS16 - FL100X20	10,799	NC4	<b>155,430</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	10,120	NC15	<b>180,034</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	0,000	NC1	0,805	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1004	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1004	CS16 - FL100X20	11,238	NC15	<b>197,050</b>	0,000	0,000	0,000	0,000	0,000
B1005	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1005	CS16 - FL100X20	11,238	NC9	<b>169,369</b>	0,000	0,000	0,000	0,000	0,000
B1006	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1006	CS16 - FL100X20	11,238	NC7	<b>223,935</b>	0,000	0,000	0,000	0,000	0,000
B1007	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1007	CS16 - FL100X20	11,238	NC9	<b>219,374</b>	0,000	0,000	0,000	0,000	0,000
B1010	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1010	CS16 - FL100X20	11,238	NC7	<b>199,644</b>	0,000	0,000	0,000	0,000	0,000
B1011	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1011	CS16 - FL100X20	11,238	NC9	<b>226,331</b>	0,000	0,000	0,000	0,000	0,000
B1012	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1012	CS16 - FL100X20	10,120	NC11	<b>175,709</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	10,799	NC6	<b>133,005</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	0,000	NC1	2,107	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1014	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1014	CS16 - FL100X20	10,799	NC3	<b>144,677</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	10,120	NC6	<b>146,458</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	0,000	NC1	-0,498	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1016	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1016	CS16 - FL100X20	10,120	NC4	<b>130,343</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	10,799	NC5	<b>132,659</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	0,000	NC1	-0,085	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>

Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2277	CS45 - L60X6	4,841	NC7	<b>-0,111</b>	-0,076	-0,076	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC2	<b>54,725</b>	0,076	0,076	0,000	0,000	0,000
B2277	CS45 - L60X6	4,841	NC1	23,404	<b>-0,086</b>	<b>-0,086</b>	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC1	23,654	<b>0,086</b>	<b>0,086</b>	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC18	0,083	0,057	0,057	<b>0,000</b>	0,000	<b>0,000</b>
B2277	CS45 - L60X6	0,000	NC16	0,083	0,057	0,057	<b>0,000</b>	<b>0,000</b>	0,000
B2277	CS45 - L60X6	2,420	NC1	23,529	0,000	0,000	0,000	<b>0,104</b>	<b>0,104</b>
B2278	CS45 - L60X6	4,248	NC1	<b>-0,093</b>	<b>-0,086</b>	<b>-0,086</b>	0,000	0,000	0,000
B2278	CS45 - L60X6	0,000	NC18	<b>10,346</b>	0,057	0,057	<b>0,002</b>	<b>0,000</b>	0,000
B2278	CS45 - L60X6	0,000	NC1	0,093	<b>0,086</b>	<b>0,086</b>	0,000	0,000	0,000
B2278	CS45 - L60X6	0,000	NC16	5,343	0,057	0,057	<b>-0,001</b>	0,000	<b>0,000</b>
B2278	CS45 - L60X6	2,124	NC1	0,000	0,000	0,000	0,000	<b>0,091</b>	<b>0,091</b>
B2279	CS45 - L60X6	4,091	NC7	<b>-0,068</b>	-0,079	-0,079	-0,002	0,000	0,000
B2279	CS45 - L60X6	0,000	NC2	<b>52,511</b>	0,079	0,079	0,000	0,000	0,000
B2279	CS45 - L60X6	4,091	NC1	23,735	<b>-0,089</b>	<b>-0,089</b>	0,000	0,000	0,000
B2279	CS45 - L60X6	0,000	NC1	23,887	<b>0,089</b>	<b>0,089</b>	0,000	0,000	0,000
B2279	CS45 - L60X6	0,000	NC7	0,068	0,079	0,079	<b>-0,002</b>	0,000	0,000
B2279	CS45 - L60X6	0,000	NC9	0,068	0,079	0,079	<b>0,002</b>	0,000	0,000
B2279	CS45 - L60X6	0,000	NC18	0,051	0,059	0,059	0,002	<b>0,000</b>	<b>0,000</b>
B2279	CS45 - L60X6	2,046	NC1	23,811	0,000	0,000	0,000	<b>0,091</b>	<b>0,091</b>
B2279	CS45 - L60X6	0,000	NC16	0,051	0,059	0,059	-0,002	0,000	<b>0,000</b>

### 8.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

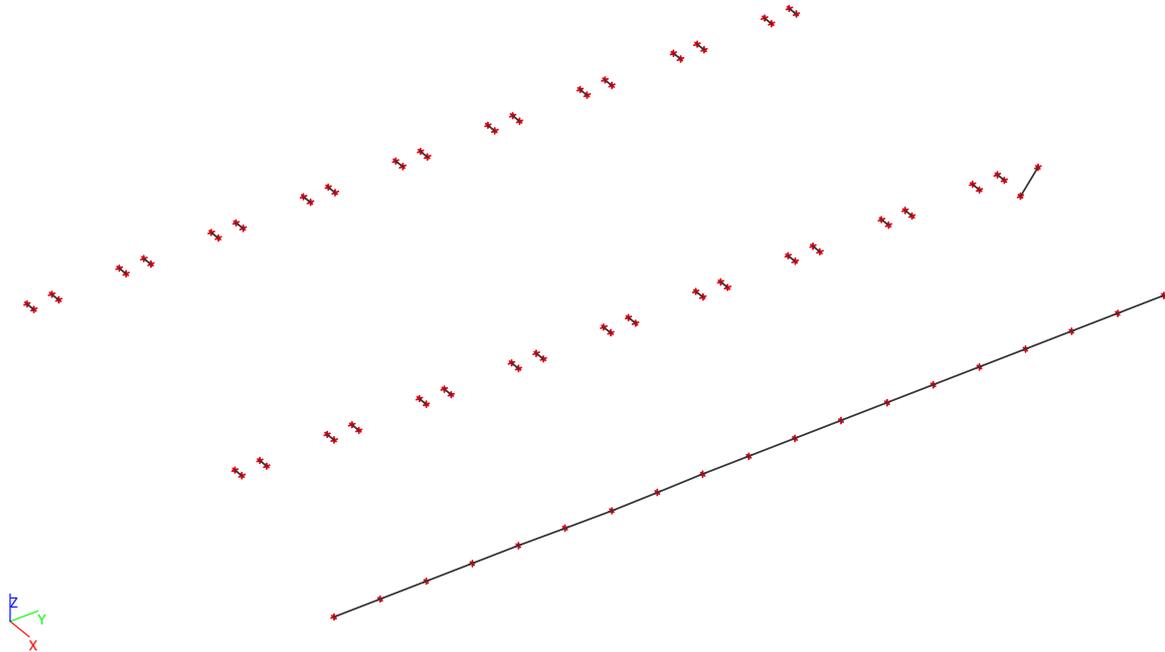
Selectie: Benoemde selectie - Vertical bracings

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B998	10,799	NC3	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B999	10,120	NC5	CS16 - FL100X20	S 235	<b>0,29</b>	0,29	0,00
B1000	10,120	NC11	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B1001	10,799	NC5	CS16 - FL100X20	S 235	<b>0,30</b>	0,30	0,00
B1002	10,799	NC4	CS16 - FL100X20	S 235	<b>0,33</b>	0,33	0,00
B1003	10,120	NC15	CS16 - FL100X20	S 235	<b>0,38</b>	0,38	0,00
B1004	11,238	NC15	CS16 - FL100X20	S 235	<b>0,42</b>	0,42	0,00
B1005	11,238	NC9	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B1006	11,238	NC7	CS16 - FL100X20	S 235	<b>0,48</b>	0,48	0,00
B1007	11,238	NC9	CS16 - FL100X20	S 235	<b>0,47</b>	0,47	0,00
B1010	11,238	NC7	CS16 - FL100X20	S 235	<b>0,42</b>	0,42	0,00
B1011	11,238	NC9	CS16 - FL100X20	S 235	<b>0,48</b>	0,48	0,00
B1012	10,120	NC11	CS16 - FL100X20	S 235	<b>0,37</b>	0,37	0,00
B1013	10,799	NC6	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B1014	10,799	NC3	CS16 - FL100X20	S 235	<b>0,31</b>	0,31	0,00
B1015	0,000	NC1	CS16 - FL100X20	S 235	<b>0,38</b>	0,00	0,38
B1016	10,120	NC4	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B1017	10,799	NC5	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B2277	2,420-	NC2	CS45 - L60X6	S 235	<b>0,44</b>	0,44	0,00
B2278	2,124-	NC18	CS45 - L60X6	S 235	<b>0,13</b>	0,13	0,00
B2279	2,046-	NC2	CS45 - L60X6	S 235	<b>0,41</b>	0,41	0,00

## 9.) Trekstangen

### 9.1. Analysemodel



### 9.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N66	13,046	15,133	8,760
N67	13,046	23,466	8,760
N74	13,046	6,800	8,760
N79	13,046	31,799	8,760
N88	13,954	15,133	8,760
N89	13,954	23,466	8,760
N94	13,954	6,800	8,760
N98	13,954	31,799	8,760
N107	40,954	15,133	8,760
N108	40,954	23,466	8,760
N113	40,954	6,800	8,760
N117	40,954	31,799	8,760
N126	40,046	15,133	8,760
N127	40,046	23,466	8,760
N132	40,046	6,800	8,760
N136	40,046	31,799	8,760
N175	13,046	40,132	8,760
N190	13,954	40,132	8,760
N205	40,954	40,132	8,760
N220	40,046	40,132	8,760
N265	13,046	48,465	8,760
N266	13,046	56,800	8,760
N280	13,954	48,465	8,760
N281	13,954	56,800	8,760
N295	40,954	48,465	8,760
N296	40,954	56,800	8,760
N310	40,046	48,465	8,760
N311	40,046	56,800	8,760
N355	13,046	65,133	8,760
N356	13,046	73,464	8,760
N361	13,046	81,797	8,760
N370	13,954	65,133	8,760
N371	13,954	73,464	8,760
N376	13,954	81,797	8,760
N385	40,954	65,133	8,760
N386	40,954	73,464	8,760
N391	40,954	81,797	8,760
N400	40,046	65,133	8,760
N401	40,046	73,464	8,760
N406	40,046	81,797	8,760
N591	60,550	6,800	6,250

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N603	60,550	81,797	6,250
N1281	54,000	6,800	6,250
N1286	54,000	81,797	6,250
N1352	10,947	18,180	8,483
N1357	10,947	20,419	8,483
N1449	10,947	9,847	8,483
N1450	10,947	12,086	8,483
N1451	16,053	9,847	8,483
N1452	16,053	12,086	8,483
N1453	37,947	9,847	8,483
N1454	37,947	12,086	8,483
N1455	43,053	9,847	8,483
N1456	43,053	12,086	8,483
N1489	10,947	26,513	8,483
N1490	10,947	28,753	8,483
N1491	16,053	26,513	8,483
N1492	16,053	28,753	8,483
N1493	37,947	26,513	8,483
N1494	37,947	28,753	8,483
N1495	43,053	26,513	8,483
N1496	43,053	28,753	8,483
N1529	10,947	34,846	8,483
N1530	10,947	37,086	8,483
N1531	16,053	34,846	8,483
N1532	16,053	37,086	8,483
N1533	37,947	34,846	8,483
N1534	37,947	37,086	8,483
N1535	43,053	34,846	8,483
N1536	43,053	37,086	8,483
N1569	10,947	43,178	8,483
N1570	10,947	45,419	8,483
N1571	16,053	43,178	8,483
N1572	16,053	45,419	8,483
N1573	37,947	43,178	8,483
N1574	37,947	45,419	8,483
N1575	43,053	43,178	8,483
N1576	43,053	45,419	8,483
N1609	10,947	51,512	8,483
N1610	10,947	53,752	8,483
N1611	16,053	51,512	8,483
N1612	16,053	53,752	8,483



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1613	37,947	51,512	8,483
N1614	37,947	53,752	8,483
N1615	43,053	51,512	8,483
N1616	43,053	53,752	8,483
N1653	10,947	59,847	8,483
N1654	10,947	62,087	8,483
N1655	16,053	59,847	8,483
N1656	16,053	62,087	8,483
N1657	37,947	59,847	8,483
N1658	37,947	62,087	8,483
N1659	43,053	59,847	8,483
N1660	43,053	62,087	8,483
N1693	10,947	68,288	8,483
N1694	10,947	70,419	8,483
N1695	16,053	68,288	8,483
N1696	16,053	70,419	8,483
N1697	37,947	68,288	8,483
N1698	37,947	70,419	8,483
N1699	43,053	68,288	8,483
N1700	43,053	70,419	8,483
N1737	10,947	76,511	8,483

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1738	10,947	78,751	8,483
N1739	16,053	76,511	8,483
N1740	16,053	78,751	8,483
N1741	37,947	76,511	8,483
N1742	37,947	78,751	8,483
N1743	43,053	76,511	8,483
N1744	43,053	78,751	8,483
N1777	16,053	18,180	8,483
N1779	16,053	20,419	8,483
N1788	37,947	18,180	8,483
N1790	37,947	20,419	8,483
N1797	43,053	20,419	8,483
N1798	43,053	18,180	8,483
N1807	57,275	15,133	6,250
N1808	57,275	23,466	6,250
N1809	57,425	31,799	6,250
N1810	57,275	40,132	6,250
N1811	57,275	48,465	6,250
N1812	57,275	56,800	6,250
N1813	57,275	65,133	6,250
N1814	57,275	73,464	6,250

### 9.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B1886	CS15 - RD16	Roof Tension Rods	0,909	Lijn	N1468 N1460	Horizontaal windverband (0) enkel normaalkracht
B2187	CS30 - RD30	Roof Tension Rods	3,710	Lijn	N1744 N391	Horizontaal windverband (0) enkel normaalkracht
B2240	CS33 - RD12	Roof Tension Rods	4,166	Lijn	N1807 N2567	Horizontaal windverband (0) enkel normaalkracht
B2241	CS33 - RD12	Roof Tension Rods	4,167	Lijn	N1808 N2568	Horizontaal windverband (0) enkel normaalkracht
B2242	CS33 - RD12	Roof Tension Rods	4,167	Lijn	N1809 N2569	Horizontaal windverband (0) enkel normaalkracht
B2243	CS33 - RD12	Roof Tension Rods	4,167	Lijn	N1810 N2570	Horizontaal windverband (0) enkel normaalkracht
B2244	CS33 - RD12	Roof Tension Rods	4,167	Lijn	N1811 N2571	Horizontaal windverband (0) enkel normaalkracht
B2245	CS33 - RD12	Roof Tension Rods	4,167	Lijn	N1812 N2572	Horizontaal windverband (0) enkel normaalkracht
B2246	CS33 - RD12	Roof Tension Rods	4,165	Lijn	N1813 N2573	Horizontaal windverband (0) enkel normaalkracht

### 9.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
Selectie : Benoemde selectie - Tension rods  
Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B1886	CS15 - RD16	0,000	NC13	<b>1,344</b>	0,000	0,000	0,000	0,000	0,000
B1886	CS15 - RD16	0,000	NC2	<b>10,204</b>	0,000	0,000	0,000	0,000	0,000
B1886	CS15 - RD16	0,000	NC1	2,713	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2187	CS30 - RD30	0,000	NC5	<b>-0,009</b>	0,000	0,000	0,000	0,000	0,000
B2187	CS30 - RD30	3,710	NC3	<b>49,262</b>	0,000	0,000	0,000	0,000	0,000
B2187	CS30 - RD30	0,000	NC1	10,153	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2240	CS33 - RD12	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B2240	CS33 - RD12	0,000	NC3	<b>0,389</b>	0,000	0,000	0,000	0,000	0,000
B2240	CS33 - RD12	0,000	NC1	0,033	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2241	CS33 - RD12	0,000	NC18	<b>0,020</b>	0,000	0,000	0,000	0,000	0,000
B2241	CS33 - RD12	0,000	NC3	<b>0,510</b>	0,000	0,000	0,000	0,000	0,000
B2241	CS33 - RD12	0,000	NC1	0,049	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2242	CS33 - RD12	0,000	NC9	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B2242	CS33 - RD12	0,000	NC8	<b>0,605</b>	0,000	0,000	0,000	0,000	0,000
B2242	CS33 - RD12	0,000	NC1	0,054	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2243	CS33 - RD12	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2243	CS33 - RD12	0,000	NC16	<b>1,189</b>	0,000	0,000	0,000	0,000	0,000
B2244	CS33 - RD12	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2244	CS33 - RD12	0,000	NC3	<b>0,569</b>	0,000	0,000	0,000	0,000	0,000
B2245	CS33 - RD12	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B2245	CS33 - RD12	0,000	NC3	<b>1,261</b>	0,000	0,000	0,000	0,000	0,000
B2246	CS33 - RD12	0,000	NC5	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B2246	CS33 - RD12	0,000	NC3	<b>0,382</b>	0,000	0,000	0,000	0,000	0,000



Staat	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2246	CS33 - RD12	0,000	NC1	0,055	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>

### 9.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

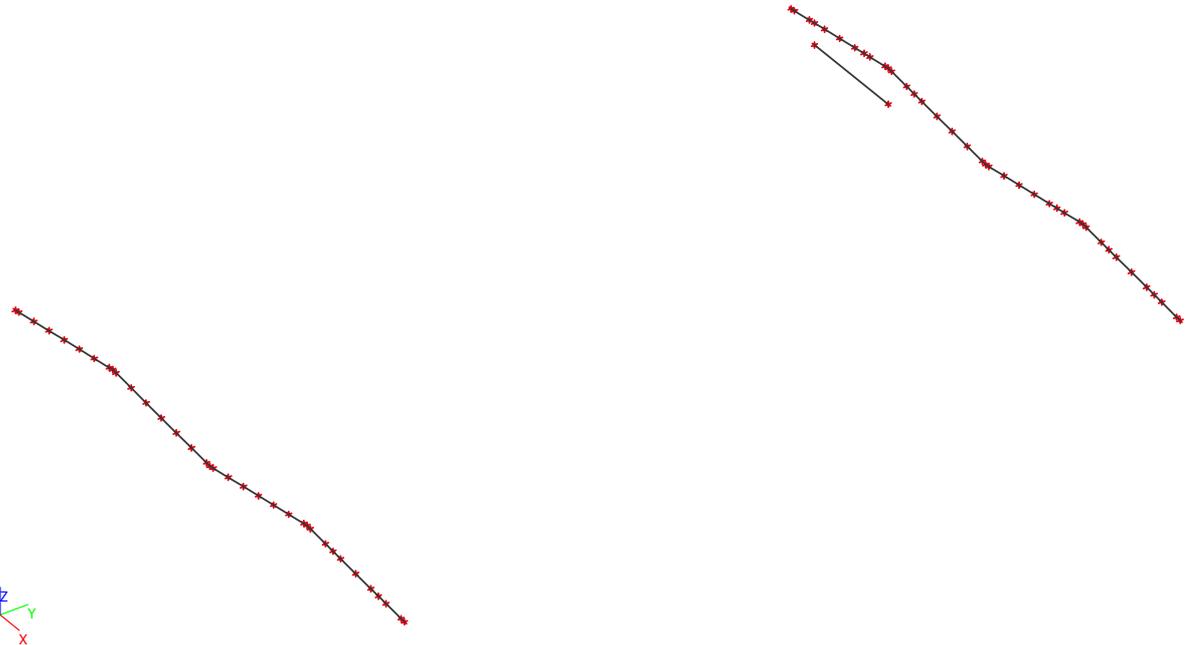
Selectie: Benoemde selectie - Tension rods

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B1886	0,000	NC2	CS15 - RD16	S 235	<b>0,22</b>	0,22	0,00
B2187	3,710	NC3	CS30 - RD30	S 355	<b>0,20</b>	0,20	0,00
B2240	0,000	NC3	CS33 - RD12	S 235	<b>0,01</b>	0,01	0,00
B2241	0,000	NC3	CS33 - RD12	S 235	<b>0,02</b>	0,02	0,00
B2242	0,000	NC8	CS33 - RD12	S 235	<b>0,02</b>	0,02	0,00
B2243	0,000	NC16	CS33 - RD12	S 235	<b>0,04</b>	0,04	0,00
B2244	0,000	NC3	CS33 - RD12	S 235	<b>0,02</b>	0,02	0,00
B2245	0,000	NC3	CS33 - RD12	S 235	<b>0,05</b>	0,05	0,00
B2246	0,000	NC3	CS33 - RD12	S 235	<b>0,01</b>	0,01	0,00

## 10.) Randliggers

### 10.1. Analysemodel



### 10.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N2	13,500	6,800	8,820
N4	0,000	6,800	7,040
N6	27,000	6,800	7,040
N22	6,750	6,800	7,930
N24	20,250	6,800	7,930
N32	40,500	6,800	8,820
N34	47,250	6,800	7,930
N36	33,750	6,800	7,930
N41	54,000	6,800	7,040
N74	13,046	6,800	8,760
N75	10,947	6,800	8,483
N77	2,553	6,800	7,377
N78	0,454	6,800	7,100
N94	13,954	6,800	8,760
N95	16,053	6,800	8,483
N96	24,447	6,800	7,377
N97	26,546	6,800	7,100
N113	40,954	6,800	8,760
N114	44,102	6,800	8,345
N115	50,398	6,800	7,515
N116	53,546	6,800	7,100
N132	40,046	6,800	8,760
N133	37,947	6,800	8,483
N134	29,553	6,800	7,377
N135	27,454	6,800	7,100
N322	13,500	81,797	8,820
N324	0,000	81,797	7,040

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N326	27,000	81,797	7,040
N328	40,500	81,797	8,820
N330	54,000	81,797	7,040
N361	13,046	81,797	8,760
N362	10,947	81,797	8,483
N363	6,750	81,797	7,930
N364	2,553	81,797	7,377
N365	0,454	81,797	7,100
N376	13,954	81,797	8,760
N377	17,102	81,797	8,345
N378	20,250	81,797	7,930
N379	24,447	81,797	7,377
N380	26,546	81,797	7,100
N391	40,954	81,797	8,760
N392	44,102	81,797	8,345
N393	47,250	81,797	7,930
N394	50,398	81,797	7,515
N395	53,546	81,797	7,100
N406	40,046	81,797	8,760
N407	36,898	81,797	8,345
N408	33,750	81,797	7,930
N409	29,553	81,797	7,377
N410	27,454	81,797	7,100
N1829	3,250	81,797	7,469
N1835	3,250	81,797	5,350
N1836	13,500	81,797	5,350
N1838	10,125	81,797	8,375

### 10.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B4	CS21 - HEA180	Gable beams	6,808	Lijn	N4	Balk (80)
					N22	standaard
B5	CS21 - HEA180	Gable beams	6,808	Lijn	N2	Balk (80)
					N24	standaard
B21	CS21 - HEA180	Gable beams	6,808	Lijn	N22	Balk (80)
					N2	standaard
B22	CS21 - HEA180	Gable beams	6,808	Lijn	N24	Balk (80)
					N6	standaard



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
B34	CS21 - HEA180	Gable beams	6,808	Lijn	N41	N34	Balk (80) standaard
B35	CS21 - HEA180	Gable beams	6,808	Lijn	N32	N36	Balk (80) standaard
B38	CS21 - HEA180	Gable beams	6,808	Lijn	N34	N32	Balk (80) standaard
B39	CS21 - HEA180	Gable beams	6,808	Lijn	N36	N6	Balk (80) standaard
B990	CS21 - HEA180	Gable beams	6,808	Lijn	N363	N322	Balk (80) standaard
B991	CS21 - HEA180	Gable beams	6,808	Lijn	N324	N363	Balk (80) standaard
B992	CS21 - HEA180	Gable beams	6,808	Lijn	N322	N378	Balk (80) standaard
B993	CS21 - HEA180	Gable beams	6,808	Lijn	N378	N326	Balk (80) standaard
B994	CS21 - HEA180	Gable beams	6,808	Lijn	N330	N393	Balk (80) standaard
B995	CS21 - HEA180	Gable beams	6,808	Lijn	N328	N408	Balk (80) standaard
B996	CS21 - HEA180	Gable beams	6,808	Lijn	N393	N328	Balk (80) standaard
B997	CS21 - HEA180	Gable beams	6,808	Lijn	N408	N326	Balk (80) standaard
B2270	CS44 - IPE180	Gable beams	10,250	Lijn	N1835	N1836	Tussenligger (0) standaard

#### 10.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
Selectie : Benoemde selectie - Gable beams  
Klasse : ULS-NL

Staat	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B4	CS21 - HEA180	0,000	NC11	<b>-99,741</b>	6,402	-5,706	0,002	0,000	0,000
B4	CS21 - HEA180	6,808	NC1	<b>-1,146</b>	-0,016	-6,454	0,000	0,000	0,000
B4	CS21 - HEA180	0,458	NC18	-11,455	<b>-2,158</b>	-7,622	0,003	-5,935	4,257
B4	CS21 - HEA180	0,000	NC9	-17,112	<b>9,750</b>	0,157	0,003	0,000	0,000
B4	CS21 - HEA180	6,808	NC2	-3,261	-0,030	<b>-20,525</b>	0,000	0,000	0,000
B4	CS21 - HEA180	0,000	NC2	-6,429	0,009	<b>28,926</b>	0,000	0,000	0,000
B4	CS21 - HEA180	4,692	NC15	-56,656	0,130	12,315	<b>-0,004</b>	-25,370	-0,275
B4	CS21 - HEA180	4,692	NC18	-11,241	-0,123	9,817	<b>0,003</b>	-20,082	0,260
B4	CS21 - HEA180	2,575	NC15	-56,743	0,143	1,925	-0,004	<b>-28,741</b>	-0,579
B4	CS21 - HEA180	2,575	NC2	-4,467	0,105	-2,636	0,000	<b>49,013</b>	-0,159
B4	CS21 - HEA180	4,692	NC6	-66,530	-0,098	-0,516	0,002	2,874	<b>-1,318</b>
B4	CS21 - HEA180	0,458	NC9	-17,086	9,750	-0,033	0,003	0,028	<b>4,470</b>
B5	CS21 - HEA180	6,808	NC2	<b>-52,985</b>	0,043	<b>-20,539</b>	0,000	0,000	0,000
B5	CS21 - HEA180	0,000	NC9	<b>52,333</b>	-3,595	0,836	-0,012	0,000	0,000
B5	CS21 - HEA180	0,000	NC18	49,114	<b>-7,710</b>	-13,268	-0,013	0,000	0,000
B5	CS21 - HEA180	0,000	NC2	-49,768	<b>7,872</b>	<b>28,722</b>	0,000	0,000	0,000
B5	CS21 - HEA180	4,692	NC18	49,175	-0,421	10,239	<b>-0,013</b>	-20,976	0,890
B5	CS21 - HEA180	4,692	NC16	-41,202	0,343	12,740	<b>0,013</b>	-26,269	-0,726
B5	CS21 - HEA180	2,575	NC16	-41,108	-0,851	1,983	0,013	<b>-29,762</b>	1,076
B5	CS21 - HEA180	2,575	NC2	-51,833	0,351	-2,194	0,000	<b>48,107</b>	-0,835
B5	CS21 - HEA180	0,458	NC18	49,298	1,463	-8,016	-0,013	-6,110	<b>-3,535</b>
B5	CS21 - HEA180	0,458	NC2	-49,793	7,872	28,532	0,000	13,123	<b>3,609</b>
B21	CS21 - HEA180	0,000	NC5	<b>-66,633</b>	-0,497	1,673	0,008	0,000	0,000
B21	CS21 - HEA180	6,808	NC4	<b>11,715</b>	0,802	-2,355	0,010	0,000	0,000
B21	CS21 - HEA180	6,350	NC2	-6,402	<b>-7,320</b>	-28,318	0,000	13,025	3,356
B21	CS21 - HEA180	4,233	NC2	-7,601	<b>1,979</b>	-15,882	0,000	<b>47,556</b>	-0,832
B21	CS21 - HEA180	6,808	NC2	-6,377	-7,320	<b>-28,509</b>	0,000	0,000	0,000
B21	CS21 - HEA180	0,000	NC2	-9,880	0,197	<b>20,232</b>	0,000	0,000	0,000
B21	CS21 - HEA180	6,350	NC16	-51,794	-1,723	16,481	<b>-0,012</b>	-7,522	0,790
B21	CS21 - HEA180	0,000	NC9	-15,961	-0,254	0,522	<b>0,010</b>	0,000	0,000
B21	CS21 - HEA180	4,233	NC15	-51,731	0,547	10,670	-0,012	<b>-29,404</b>	-0,435
B21	CS21 - HEA180	2,117	NC11	6,229	-0,691	-2,474	0,010	-4,541	<b>-1,463</b>
B21	CS21 - HEA180	6,350	NC2	-7,485	1,979	-16,761	0,000	13,009	<b>3,356</b>
B22	CS21 - HEA180	6,808	NC7	<b>-134,664</b>	-2,001	12,628	0,013	0,000	0,000
B22	CS21 - HEA180	0,000	NC9	<b>17,862</b>	-0,039	0,376	-0,010	0,000	0,000
B22	CS21 - HEA180	6,350	NC18	12,056	<b>-4,254</b>	14,454	-0,010	-6,593	<b>1,950</b>
B22	CS21 - HEA180	4,233	NC16	-133,384	<b>1,421</b>	11,076	0,013	-30,792	-1,572
B22	CS21 - HEA180	6,808	NC2	-50,437	0,026	<b>-28,298</b>	0,002	0,000	0,000
B22	CS21 - HEA180	0,000	NC2	-47,493	-0,131	<b>20,842</b>	0,002	0,000	0,000
B22	CS21 - HEA180	6,350	NC9	17,066	-1,652	0,189	<b>-0,010</b>	-0,043	0,757
B22	CS21 - HEA180	0,000	NC16	-133,194	0,185	-12,440	<b>0,013</b>	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B22	CS21 - HEA180	4,233	NC16	-133,373	-0,928	-2,109	0,013	<b>-30,792</b>	<b>-1,572</b>
B22	CS21 - HEA180	4,233	NC2	-48,657	-0,007	2,220	0,002	<b>48,810</b>	-0,291
B34	CS21 - HEA180	0,000	NC15	<b>-119,602</b>	<b>-9,591</b>	-16,185	0,015	0,000	0,000
B34	CS21 - HEA180	6,808	NC4	<b>22,369</b>	-0,525	-1,802	-0,004	0,000	0,000
B34	CS21 - HEA180	0,458	NC15	-119,564	<b>1,361</b>	-9,823	0,015	-7,454	-4,397
B34	CS21 - HEA180	6,808	NC2	2,123	-0,044	<b>-19,698</b>	-0,001	0,000	0,000
B34	CS21 - HEA180	0,000	NC2	-0,819	-0,430	<b>26,106</b>	-0,001	0,000	0,000
B34	CS21 - HEA180	4,692	NC10	20,109	-0,076	6,655	<b>-0,006</b>	-13,156	0,161
B34	CS21 - HEA180	4,692	NC15	-119,389	0,363	12,419	<b>0,015</b>	-25,590	-0,769
B34	CS21 - HEA180	2,575	NC16	-119,220	0,358	1,916	0,015	<b>-28,951</b>	-1,530
B34	CS21 - HEA180	2,575	NC2	0,959	-0,178	-1,911	-0,001	<b>45,730</b>	0,470
B34	CS21 - HEA180	0,458	NC15	-119,584	-9,591	-16,327	0,015	-7,452	<b>-4,397</b>
B34	CS21 - HEA180	4,692	NC4	22,055	0,127	-0,509	-0,004	2,883	<b>1,112</b>
B35	CS21 - HEA180	6,808	NC7	<b>-202,808</b>	0,005	8,625	-0,007	0,000	0,000
B35	CS21 - HEA180	0,000	NC4	<b>95,696</b>	0,842	1,905	-0,004	0,000	0,000
B35	CS21 - HEA180	0,000	NC2	-56,922	<b>-7,371</b>	<b>28,737</b>	-0,001	0,000	0,000
B35	CS21 - HEA180	0,000	NC18	35,987	<b>4,855</b>	-13,327	0,007	0,000	0,000
B35	CS21 - HEA180	6,808	NC2	-60,278	-0,064	<b>-20,622</b>	-0,001	0,000	0,000
B35	CS21 - HEA180	4,692	NC15	-199,704	-0,054	12,888	<b>-0,007</b>	-26,583	0,114
B35	CS21 - HEA180	0,000	NC6	-127,624	-1,558	-3,569	<b>0,017</b>	0,000	0,000
B35	CS21 - HEA180	2,575	NC16	-199,256	0,254	2,168	-0,007	<b>-30,829</b>	-0,404
B35	CS21 - HEA180	2,575	NC2	-59,102	-0,278	-2,173	-0,001	<b>48,235</b>	0,723
B35	CS21 - HEA180	0,458	NC2	-56,947	-7,371	28,547	-0,001	13,130	<b>-3,379</b>
B35	CS21 - HEA180	0,458	NC18	36,141	-0,976	-8,038	0,007	-6,138	<b>2,225</b>
B38	CS21 - HEA180	0,000	NC15	<b>-119,424</b>	-0,456	-12,016	0,007	0,000	0,000
B38	CS21 - HEA180	6,808	NC10	<b>25,491</b>	0,280	8,254	-0,004	0,000	0,000
B38	CS21 - HEA180	6,350	NC16	-119,155	<b>-4,344</b>	18,914	0,007	-8,638	<b>1,992</b>
B38	CS21 - HEA180	6,350	NC2	-1,830	<b>6,445</b>	-28,306	0,001	13,020	-2,955
B38	CS21 - HEA180	6,808	NC2	-1,805	6,445	<b>-28,497</b>	0,001	0,000	0,000
B38	CS21 - HEA180	0,000	NC2	-5,100	-0,210	<b>20,292</b>	0,001	0,000	0,000
B38	CS21 - HEA180	0,000	NC12	24,344	0,240	-1,880	<b>-0,011</b>	0,000	0,000
B38	CS21 - HEA180	6,350	NC8	-113,543	-3,491	14,009	<b>0,007</b>	-6,378	1,601
B38	CS21 - HEA180	4,233	NC16	-118,983	0,523	-2,182	0,007	<b>-30,408</b>	0,153
B38	CS21 - HEA180	4,233	NC2	-3,934	0,508	2,219	0,001	<b>47,637</b>	0,629
B38	CS21 - HEA180	6,350	NC2	-2,775	-1,693	-16,799	0,001	13,008	<b>-2,955</b>
B39	CS21 - HEA180	6,808	NC7	<b>-213,838</b>	2,623	12,684	-0,016	0,000	0,000
B39	CS21 - HEA180	0,000	NC9	<b>47,455</b>	0,075	0,369	0,008	0,000	0,000
B39	CS21 - HEA180	4,233	NC16	-211,879	<b>-0,746</b>	11,141	-0,016	-30,962	-0,160
B39	CS21 - HEA180	6,350	NC18	33,110	<b>4,644</b>	14,486	0,008	-6,608	<b>-2,129</b>
B39	CS21 - HEA180	6,808	NC2	-53,247	-0,007	<b>-28,377</b>	-0,002	0,000	0,000
B39	CS21 - HEA180	0,000	NC2	-50,239	0,130	<b>20,943</b>	-0,002	0,000	0,000
B39	CS21 - HEA180	0,000	NC7	-212,989	-0,492	-8,880	<b>-0,016</b>	0,000	0,000
B39	CS21 - HEA180	6,350	NC9	46,630	1,598	0,205	<b>0,008</b>	-0,050	-0,733
B39	CS21 - HEA180	4,233	NC16	-211,853	0,489	-2,099	-0,016	<b>-30,964</b>	-0,160
B39	CS21 - HEA180	4,233	NC2	-51,427	-0,011	2,211	-0,002	<b>49,003</b>	0,252
B39	CS21 - HEA180	2,117	NC6	-132,155	0,444	-1,987	0,003	-3,275	<b>0,939</b>
B990	CS21 - HEA180	6,350	NC11	<b>-70,818</b>	-2,179	0,918	0,006	-0,388	0,999
B990	CS21 - HEA180	6,808	NC7	<b>79,461</b>	2,979	4,073	0,005	0,000	0,000
B990	CS21 - HEA180	2,117	NC7	77,735	<b>-3,146</b>	2,460	0,007	-6,334	1,405
B990	CS21 - HEA180	2,117	NC18	-34,326	<b>3,676</b>	0,503	-0,008	-20,778	-2,515
B990	CS21 - HEA180	3,404	NC2	-26,814	-0,389	<b>-14,560</b>	0,000	-12,854	-0,206
B990	CS21 - HEA180	3,404	NC2	-32,636	-0,492	<b>19,565</b>	0,000	-12,854	-0,205
B990	CS21 - HEA180	2,117	NC9	-13,308	2,941	0,885	<b>-0,009</b>	-3,185	-1,230
B990	CS21 - HEA180	0,000	NC11	-70,537	-0,444	-0,220	<b>0,007</b>	0,000	0,000
B990	CS21 - HEA180	4,233	NC18	-33,605	-0,526	8,308	-0,007	<b>-23,517</b>	0,166
B990	CS21 - HEA180	2,117	NC2	-27,756	0,140	2,184	0,000	<b>5,552</b>	0,295
B990	CS21 - HEA180	3,404	NC7	77,806	-3,146	1,925	0,007	-3,511	<b>-2,646</b>
B990	CS21 - HEA180	3,404	NC17	-18,094	3,184	1,547	-0,009	-4,475	<b>2,682</b>
B991	CS21 - HEA180	3,278	NC11	<b>-45,177</b>	7,462	-0,877	-0,024	0,821	-7,196
B991	CS21 - HEA180	6,808	NC16	<b>34,619</b>	-0,517	-4,620	-0,032	0,000	0,000
B991	CS21 - HEA180	2,575	NC7	28,714	<b>-18,847</b>	9,198	-0,032	5,670	5,366
B991	CS21 - HEA180	2,575	NC18	-15,208	<b>18,545</b>	<b>21,400</b>	0,035	20,196	-4,488
B991	CS21 - HEA180	3,278	NC2	5,439	-0,652	<b>-22,228</b>	-0,001	<b>-15,342</b>	-0,046
B991	CS21 - HEA180	3,278	NC7	29,746	6,063	-6,265	<b>-0,032</b>	12,034	-7,871
B991	CS21 - HEA180	2,575	NC17	-14,245	18,147	9,575	<b>0,035</b>	7,729	-3,610
B991	CS21 - HEA180	3,278	NC18	-15,179	18,545	21,182	0,035	<b>35,164</b>	8,550
B991	CS21 - HEA180	3,278	NC7	28,752	-18,847	8,906	-0,032	12,034	<b>-7,884</b>
B991	CS21 - HEA180	3,278	NC9	-14,677	18,077	2,404	0,035	0,432	<b>9,293</b>
B992	CS21 - HEA180	6,808	NC3	<b>-104,938</b>	-0,642	1,287	0,010	0,000	0,000
B992	CS21 - HEA180	0,458	NC7	<b>103,916</b>	-1,189	-4,741	0,015	-3,215	3,903
B992	CS21 - HEA180	0,000	NC18	-65,540	<b>-11,137</b>	-16,529	-0,017	0,000	0,000
B992	CS21 - HEA180	0,000	NC16	85,035	<b>9,002</b>	-11,509	0,016	0,000	0,000
B992	CS21 - HEA180	6,808	NC2	12,275	-0,219	<b>-20,061</b>	0,001	0,000	0,000
B992	CS21 - HEA180	0,000	NC2	15,116	-0,972	<b>27,299</b>	0,001	0,000	0,000
B992	CS21 - HEA180	4,692	NC18	-65,938	-0,534	12,321	<b>-0,017</b>	-25,381	1,131
B992	CS21 - HEA180	4,692	NC15	86,167	2,162	9,588	<b>0,016</b>	-19,597	-4,576



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B992	CS21 - HEA180	2,575	NC18	-65,787	-0,095	1,990	-0,017	<b>-28,889</b>	1,332
B992	CS21 - HEA180	2,575	NC2	13,361	0,447	-2,090	0,001	<b>46,876</b>	-0,483
B992	CS21 - HEA180	0,458	NC18	-65,627	3,042	-9,727	-0,017	-7,602	<b>-5,106</b>
B992	CS21 - HEA180	0,458	NC16	85,017	9,002	-11,651	0,016	-5,309	<b>4,127</b>
B993	CS21 - HEA180	6,808	NC3	<b>-140,318</b>	0,482	1,727	0,005	0,000	0,000
B993	CS21 - HEA180	0,000	NC7	<b>132,037</b>	0,438	-5,709	0,009	0,000	0,000
B993	CS21 - HEA180	2,117	NC16	125,236	<b>-2,194</b>	-1,042	0,009	-20,374	0,845
B993	CS21 - HEA180	6,350	NC18	-96,115	<b>2,751</b>	19,455	-0,009	-8,886	-1,261
B993	CS21 - HEA180	6,808	NC2	4,814	0,110	<b>-27,676</b>	0,001	0,000	0,000
B993	CS21 - HEA180	0,000	NC2	7,536	-0,118	<b>20,472</b>	0,001	0,000	0,000
B993	CS21 - HEA180	0,000	NC18	-95,694	-0,597	-12,180	<b>-0,009</b>	0,000	0,000
B993	CS21 - HEA180	0,000	NC16	125,209	0,399	-9,297	<b>0,009</b>	0,000	0,000
B993	CS21 - HEA180	4,233	NC18	-95,922	0,772	-2,243	-0,009	<b>-30,524</b>	0,370
B993	CS21 - HEA180	4,233	NC2	6,455	0,176	2,179	0,001	<b>47,938</b>	0,124
B993	CS21 - HEA180	4,233	NC16	125,149	-2,194	-1,701	0,009	-23,276	<b>-3,798</b>
B993	CS21 - HEA180	2,117	NC6	18,505	0,593	0,416	0,003	1,811	<b>1,256</b>
B994	CS21 - HEA180	0,458	NC18	<b>-93,571</b>	-0,475	-9,486	0,021	-8,509	<b>2,648</b>
B994	CS21 - HEA180	6,808	NC2	<b>8,552</b>	-0,439	<b>-20,323</b>	-0,059	0,000	0,000
B994	CS21 - HEA180	0,000	NC2	5,607	<b>-3,821</b>	<b>27,542</b>	<b>0,763</b>	0,000	0,000
B994	CS21 - HEA180	0,000	NC18	-93,492	<b>5,422</b>	-18,488	<b>-0,487</b>	0,000	0,000
B994	CS21 - HEA180	2,575	NC18	-93,537	-0,620	2,122	0,021	<b>-29,289</b>	1,643
B994	CS21 - HEA180	2,575	NC2	7,456	0,339	-2,165	-0,059	<b>47,593</b>	0,211
B994	CS21 - HEA180	0,458	NC2	6,362	1,129	16,980	-0,059	12,581	<b>-2,180</b>
B995	CS21 - HEA180	6,808	NC18	<b>-114,199</b>	0,343	11,720	0,007	0,000	0,000
B995	CS21 - HEA180	0,458	NC7	<b>95,775</b>	0,026	-4,863	-0,006	-3,137	-0,571
B995	CS21 - HEA180	0,458	NC18	-113,760	<b>-2,228</b>	-9,676	0,007	-7,950	<b>4,055</b>
B995	CS21 - HEA180	0,000	NC18	-113,589	<b>8,846</b>	-17,288	<b>0,007</b>	0,000	0,000
B995	CS21 - HEA180	6,808	NC2	5,494	0,141	<b>-19,991</b>	-0,001	0,000	0,000
B995	CS21 - HEA180	0,000	NC2	8,303	0,569	<b>27,215</b>	-0,001	0,000	0,000
B995	CS21 - HEA180	4,692	NC7	95,278	-0,734	6,441	<b>-0,006</b>	-12,703	1,554
B995	CS21 - HEA180	2,575	NC18	-113,940	-0,031	2,045	0,007	<b>-29,128</b>	-0,662
B995	CS21 - HEA180	2,575	NC2	6,575	-0,319	-2,089	-0,001	<b>46,726</b>	0,377
B995	CS21 - HEA180	2,575	NC3	-13,290	-0,281	0,209	-0,001	2,166	<b>-1,204</b>
B996	CS21 - HEA180	6,350	NC18	<b>-66,283</b>	1,492	17,178	-0,010	-7,842	-0,684
B996	CS21 - HEA180	6,808	NC7	<b>94,890</b>	6,156	6,595	0,009	0,000	0,000
B996	CS21 - HEA180	4,233	NC3	-41,659	<b>-2,587</b>	-0,560	0,004	2,650	1,984
B996	CS21 - HEA180	6,350	NC3	-13,134	<b>7,617</b>	-1,074	0,004	0,536	-3,491
B996	CS21 - HEA180	6,808	NC2	32,306	4,059	<b>-27,238</b>	0,000	0,000	0,000
B996	CS21 - HEA180	0,000	NC2	14,855	-0,204	<b>19,963</b>	0,000	0,000	0,000
B996	CS21 - HEA180	6,350	NC9	-41,663	0,492	2,736	<b>-0,010</b>	-1,211	-0,226
B996	CS21 - HEA180	6,350	NC8	94,648	6,008	6,980	<b>0,009</b>	-3,156	-2,754
B996	CS21 - HEA180	4,233	NC18	-65,885	-2,027	-2,041	-0,010	<b>-28,880</b>	-0,885
B996	CS21 - HEA180	4,233	NC2	15,951	0,783	2,096	0,000	<b>46,682</b>	1,224
B996	CS21 - HEA180	6,350	NC3	-41,543	-2,587	-1,438	0,004	0,536	<b>-3,491</b>
B996	CS21 - HEA180	2,117	NC18	-65,972	-2,027	-1,382	-0,010	-25,257	<b>3,405</b>
B997	CS21 - HEA180	6,808	NC9	<b>-128,199</b>	-1,592	3,379	0,015	0,000	0,000
B997	CS21 - HEA180	0,000	NC8	<b>129,189</b>	-0,328	-5,782	-0,014	0,000	0,000
B997	CS21 - HEA180	6,350	NC18	-127,981	<b>-2,633</b>	19,450	0,015	-8,883	1,207
B997	CS21 - HEA180	4,233	NC18	-127,836	<b>1,720</b>	10,550	0,015	-30,517	-2,434
B997	CS21 - HEA180	6,808	NC2	2,672	-0,088	<b>-27,642</b>	-0,001	0,000	0,000
B997	CS21 - HEA180	0,000	NC2	5,383	0,185	<b>20,426</b>	-0,001	0,000	0,000
B997	CS21 - HEA180	0,000	NC7	129,180	-0,316	-5,756	<b>-0,014</b>	0,000	0,000
B997	CS21 - HEA180	0,000	NC18	-127,495	0,712	-12,179	<b>0,015</b>	0,000	0,000
B997	CS21 - HEA180	4,233	NC18	-127,752	-1,862	-2,241	0,015	<b>-30,518</b>	<b>-2,434</b>
B997	CS21 - HEA180	4,233	NC2	4,307	-0,265	2,184	-0,001	<b>47,854</b>	-0,168
B997	CS21 - HEA180	2,117	NC9	-127,250	0,974	-2,907	0,015	-5,223	<b>2,061</b>
B2270	CS44 - IPE180	0,000	NC18	<b>-22,574</b>	-0,038	-2,378	<b>-0,001</b>	0,000	0,000
B2270	CS44 - IPE180	3,500	NC2	<b>29,978</b>	0,270	0,012	0,000	-0,083	-0,005
B2270	CS44 - IPE180	3,500	NC10	-15,015	<b>-0,635</b>	-0,945	-0,001	-5,833	-0,868
B2270	CS44 - IPE180	6,875	NC18	-7,267	<b>0,600</b>	3,528	-0,001	-14,257	-1,080
B2270	CS44 - IPE180	10,250	NC16	-8,759	-0,057	<b>-4,426</b>	0,001	0,000	0,000
B2270	CS44 - IPE180	10,250	NC18	-7,267	0,041	<b>4,921</b>	-0,001	0,000	0,000
B2270	CS44 - IPE180	0,000	NC16	-16,786	-0,001	1,994	<b>0,001</b>	0,000	0,000
B2270	CS44 - IPE180	6,875	NC18	-15,412	-0,260	-1,811	-0,001	<b>-14,257</b>	-1,080
B2270	CS44 - IPE180	6,875	NC16	-11,585	-0,200	1,925	0,001	<b>13,358</b>	-0,751
B2270	CS44 - IPE180	3,500	NC18	-22,574	-0,618	-0,934	-0,001	-5,796	<b>-1,147</b>
B2270	CS44 - IPE180	1,400	NC2	-8,975	0,076	-0,024	0,000	-0,033	<b>0,323</b>

## 10.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - Gable beams

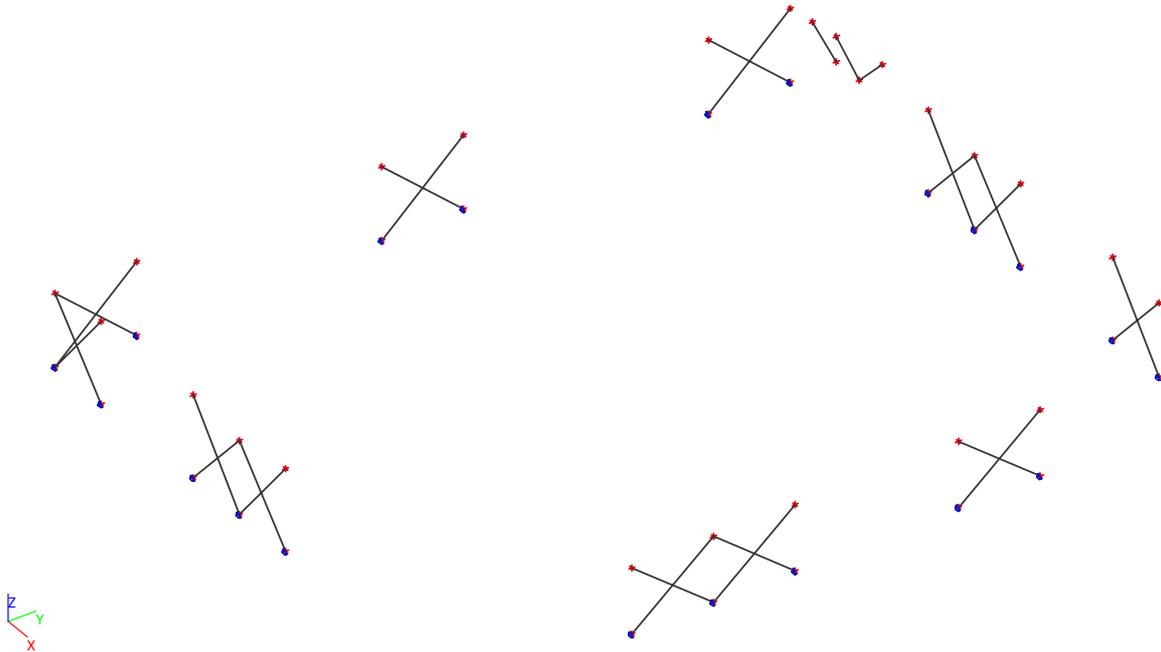
**Algehele eenheidscontrole**



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B4	2,575+	NC2	CS21 - HEA180	S 235	<b>0,68</b>	0,64	0,68
B5	4,692-	NC2	CS21 - HEA180	S 235	<b>0,73</b>	0,56	0,73
B21	4,233+	NC2	CS21 - HEA180	S 235	<b>0,68</b>	0,62	0,68
B22	4,233-	NC2	CS21 - HEA180	S 235	<b>0,73</b>	0,64	0,73
B34	2,575+	NC2	CS21 - HEA180	S 235	<b>0,64</b>	0,60	0,64
B35	2,575-	NC16	CS21 - HEA180	S 235	<b>0,80</b>	0,40	0,80
B38	4,233+	NC2	CS21 - HEA180	S 235	<b>0,69</b>	0,62	0,69
B39	4,233-	NC15	CS21 - HEA180	S 235	<b>0,82</b>	0,41	0,82
B990	3,404+	NC18	CS21 - HEA180	S 235	<b>0,49</b>	0,27	0,49
B991	2,575+	NC18	CS21 - HEA180	S 235	<b>0,68</b>	0,26	0,68
B992	2,575+	NC2	CS21 - HEA180	S 235	<b>0,65</b>	0,61	0,65
B993	4,233-	NC2	CS21 - HEA180	S 235	<b>0,66</b>	0,63	0,66
B994	2,575+	NC2	CS21 - HEA180	S 235	<b>0,66</b>	0,62	0,66
B995	2,575+	NC2	CS21 - HEA180	S 235	<b>0,65</b>	0,61	0,65
B996	4,233-	NC2	CS21 - HEA180	S 235	<b>0,66</b>	0,61	0,66
B997	4,233-	NC2	CS21 - HEA180	S 235	<b>0,66</b>	0,63	0,66
B2270	6,875-	NC18	CS44 - IPE180	S 235	<b>0,76</b>	0,37	0,76

## 11.) Wandverband

### 11.1. Analysemodel



### 11.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N3	0,000	6,800	-0,500
N4	0,000	6,800	7,040
N5	27,000	6,800	-0,500
N6	27,000	6,800	7,040
N21	6,750	6,800	-0,500
N22	6,750	6,800	7,930
N23	20,250	6,800	-0,500
N24	20,250	6,800	7,930
N35	33,750	6,800	-0,500
N36	33,750	6,800	7,930
N51	0,000	15,133	7,040
N55	0,000	15,133	-0,500
N160	0,000	40,132	7,040
N164	0,000	40,132	-0,500
N250	0,000	48,465	7,040
N254	0,000	48,465	-0,500
N322	13,500	81,797	8,820
N323	0,000	81,797	-0,500

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N324	0,000	81,797	7,040
N325	27,000	81,797	-0,500
N326	27,000	81,797	7,040
N329	54,000	81,797	-0,500
N330	54,000	81,797	7,040
N332	0,000	73,464	7,040
N336	0,000	73,464	-0,500
N363	6,750	81,797	7,930
N378	20,250	81,797	7,930
N393	47,250	81,797	7,930
N408	33,750	81,797	7,930
N510	20,250	81,797	-0,500
N511	33,750	81,797	-0,500
N512	47,250	81,797	-0,500
N1829	3,250	81,797	7,469
N1840	10,125	81,797	5,350
N1841	6,750	81,797	5,350

### 11.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B998	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N3 N22	Vertikaal windverband (0) enkel normaalkracht
B999	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N21 N4	Vertikaal windverband (0) enkel normaalkracht
B1000	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N23 N6	Vertikaal windverband (0) enkel normaalkracht
B1001	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N5 N24	Vertikaal windverband (0) enkel normaalkracht
B1002	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N5 N36	Vertikaal windverband (0) enkel normaalkracht
B1003	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N35 N6	Vertikaal windverband (0) enkel normaalkracht
B1004	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N3 N51	Vertikaal windverband (0) enkel normaalkracht
B1005	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N55 N4	Vertikaal windverband (0) enkel normaalkracht
B1006	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N164	Vertikaal windverband (0)



Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N250		enkel normaalkracht
B1007	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N254		Vertikaal windverband (0)
					N160		enkel normaalkracht
B1010	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N336		Vertikaal windverband (0)
					N324		enkel normaalkracht
B1011	CS16 - FL100X20	Vertical Bracing	11,238	Lijn	N323		Vertikaal windverband (0)
					N332		enkel normaalkracht
B1012	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N510		Vertikaal windverband (0)
					N326		enkel normaalkracht
B1013	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N325		Vertikaal windverband (0)
					N378		enkel normaalkracht
B1014	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N325		Vertikaal windverband (0)
					N408		enkel normaalkracht
B1015	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N511		Vertikaal windverband (0)
					N326		enkel normaalkracht
B1016	CS16 - FL100X20	Vertical Bracing	10,120	Lijn	N512		Vertikaal windverband (0)
					N330		enkel normaalkracht
B1017	CS16 - FL100X20	Vertical Bracing	10,799	Lijn	N329		Vertikaal windverband (0)
					N393		enkel normaalkracht
B2277	CS45 - L60X6	Vertical Bracing	4,841	Lijn	N322		Balk (80)
					N1840		standaard
B2278	CS45 - L60X6	Vertical Bracing	4,248	Lijn	N363		Balk (80)
					N1840		standaard
B2279	CS45 - L60X6	Vertical Bracing	4,091	Lijn	N1829		Balk (80)
					N1841		standaard

#### 11.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
Selectie : Benoemde selectie - Vertical bracings  
Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B998	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B998	CS16 - FL100X20	10,799	NC3	<b>169,403</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	10,120	NC5	<b>136,308</b>	0,000	0,000	0,000	0,000	0,000
B999	CS16 - FL100X20	0,000	NC1	0,895	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1000	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1000	CS16 - FL100X20	10,120	NC11	<b>171,498</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	10,799	NC5	<b>140,356</b>	0,000	0,000	0,000	0,000	0,000
B1001	CS16 - FL100X20	0,000	NC1	0,147	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1002	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1002	CS16 - FL100X20	10,799	NC4	<b>155,430</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	10,120	NC15	<b>180,034</b>	0,000	0,000	0,000	0,000	0,000
B1003	CS16 - FL100X20	0,000	NC1	0,805	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1004	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1004	CS16 - FL100X20	11,238	NC15	<b>197,050</b>	0,000	0,000	0,000	0,000	0,000
B1005	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1005	CS16 - FL100X20	11,238	NC9	<b>169,369</b>	0,000	0,000	0,000	0,000	0,000
B1006	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1006	CS16 - FL100X20	11,238	NC7	<b>223,935</b>	0,000	0,000	0,000	0,000	0,000
B1007	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1007	CS16 - FL100X20	11,238	NC9	<b>219,374</b>	0,000	0,000	0,000	0,000	0,000
B1010	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1010	CS16 - FL100X20	11,238	NC7	<b>199,644</b>	0,000	0,000	0,000	0,000	0,000
B1011	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1011	CS16 - FL100X20	11,238	NC9	<b>226,331</b>	0,000	0,000	0,000	0,000	0,000
B1012	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1012	CS16 - FL100X20	10,120	NC11	<b>175,709</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	10,799	NC6	<b>133,005</b>	0,000	0,000	0,000	0,000	0,000
B1013	CS16 - FL100X20	0,000	NC1	2,107	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1014	CS16 - FL100X20	0,000	NC1	<b>-0,876</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1014	CS16 - FL100X20	10,799	NC3	<b>144,677</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	0,000	NC3	<b>-0,697</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	10,120	NC6	<b>146,458</b>	0,000	0,000	0,000	0,000	0,000
B1015	CS16 - FL100X20	0,000	NC1	-0,498	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1016	CS16 - FL100X20	0,000	NC1	<b>-0,784</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1016	CS16 - FL100X20	10,120	NC4	<b>130,343</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	0,000	NC3	<b>-0,779</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	10,799	NC5	<b>132,659</b>	0,000	0,000	0,000	0,000	0,000
B1017	CS16 - FL100X20	0,000	NC1	-0,085	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2277	CS45 - L60X6	4,841	NC7	<b>-0,111</b>	-0,076	-0,076	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC2	<b>54,725</b>	0,076	0,076	0,000	0,000	0,000
B2277	CS45 - L60X6	4,841	NC1	23,404	<b>-0,086</b>	<b>-0,086</b>	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC1	23,654	<b>0,086</b>	<b>0,086</b>	0,000	0,000	0,000
B2277	CS45 - L60X6	0,000	NC18	0,083	0,057	0,057	<b>0,000</b>	0,000	<b>0,000</b>
B2277	CS45 - L60X6	0,000	NC16	0,083	0,057	0,057	<b>0,000</b>	<b>0,000</b>	0,000
B2277	CS45 - L60X6	2,420	NC1	23,529	0,000	0,000	0,000	<b>0,104</b>	<b>0,104</b>
B2278	CS45 - L60X6	4,248	NC1	<b>-0,093</b>	<b>-0,086</b>	<b>-0,086</b>	0,000	0,000	0,000
B2278	CS45 - L60X6	0,000	NC18	<b>10,346</b>	0,057	0,057	<b>0,002</b>	<b>0,000</b>	0,000
B2278	CS45 - L60X6	0,000	NC1	0,093	<b>0,086</b>	<b>0,086</b>	0,000	0,000	0,000
B2278	CS45 - L60X6	0,000	NC16	5,343	0,057	0,057	<b>-0,001</b>	0,000	<b>0,000</b>
B2278	CS45 - L60X6	2,124	NC1	0,000	0,000	0,000	0,000	<b>0,091</b>	<b>0,091</b>
B2279	CS45 - L60X6	4,091	NC7	<b>-0,068</b>	-0,079	-0,079	-0,002	0,000	0,000
B2279	CS45 - L60X6	0,000	NC2	<b>52,511</b>	0,079	0,079	0,000	0,000	0,000
B2279	CS45 - L60X6	4,091	NC1	23,735	<b>-0,089</b>	<b>-0,089</b>	0,000	0,000	0,000
B2279	CS45 - L60X6	0,000	NC1	23,887	<b>0,089</b>	<b>0,089</b>	0,000	0,000	0,000
B2279	CS45 - L60X6	0,000	NC7	0,068	0,079	0,079	<b>-0,002</b>	0,000	0,000
B2279	CS45 - L60X6	0,000	NC9	0,068	0,079	0,079	<b>0,002</b>	0,000	0,000
B2279	CS45 - L60X6	0,000	NC18	0,051	0,059	0,059	0,002	<b>0,000</b>	<b>0,000</b>
B2279	CS45 - L60X6	2,046	NC1	23,811	0,000	0,000	0,000	<b>0,091</b>	<b>0,091</b>
B2279	CS45 - L60X6	0,000	NC16	0,051	0,059	0,059	-0,002	0,000	<b>0,000</b>

### 11.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

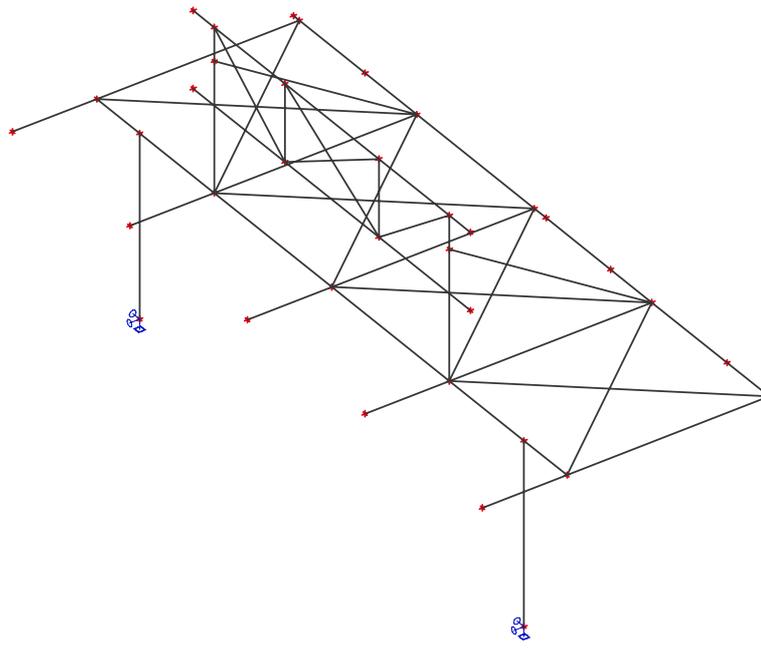
Selectie: Benoemde selectie - Vertical bracings

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B998	10,799	NC3	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B999	10,120	NC5	CS16 - FL100X20	S 235	<b>0,29</b>	0,29	0,00
B1000	10,120	NC11	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B1001	10,799	NC5	CS16 - FL100X20	S 235	<b>0,30</b>	0,30	0,00
B1002	10,799	NC4	CS16 - FL100X20	S 235	<b>0,33</b>	0,33	0,00
B1003	10,120	NC15	CS16 - FL100X20	S 235	<b>0,38</b>	0,38	0,00
B1004	11,238	NC15	CS16 - FL100X20	S 235	<b>0,42</b>	0,42	0,00
B1005	11,238	NC9	CS16 - FL100X20	S 235	<b>0,36</b>	0,36	0,00
B1006	11,238	NC7	CS16 - FL100X20	S 235	<b>0,48</b>	0,48	0,00
B1007	11,238	NC9	CS16 - FL100X20	S 235	<b>0,47</b>	0,47	0,00
B1010	11,238	NC7	CS16 - FL100X20	S 235	<b>0,42</b>	0,42	0,00
B1011	11,238	NC9	CS16 - FL100X20	S 235	<b>0,48</b>	0,48	0,00
B1012	10,120	NC11	CS16 - FL100X20	S 235	<b>0,37</b>	0,37	0,00
B1013	10,799	NC6	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B1014	10,799	NC3	CS16 - FL100X20	S 235	<b>0,31</b>	0,31	0,00
B1015	0,000	NC1	CS16 - FL100X20	S 235	<b>0,38</b>	0,00	0,38
B1016	10,120	NC4	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B1017	10,799	NC5	CS16 - FL100X20	S 235	<b>0,28</b>	0,28	0,00
B2277	2,420-	NC2	CS45 - L60X6	S 235	<b>0,44</b>	0,44	0,00
B2278	2,124-	NC18	CS45 - L60X6	S 235	<b>0,13</b>	0,13	0,00
B2279	2,046-	NC2	CS45 - L60X6	S 235	<b>0,41</b>	0,41	0,00

## 12.) Portaal ingang

### 12.1. Analysemodel



### 12.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N601	54,000	6,800	5,000
N745	36,795	6,800	5,000
N747	44,495	6,800	5,000
N751	52,200	6,800	5,000
N756	33,750	6,800	5,000
N757	47,250	6,800	5,000
N758	54,000	-1,700	5,000
N759	49,000	-1,700	5,000
N760	49,000	6,800	5,000
N761	44,000	-1,700	5,000
N762	44,000	6,800	5,000
N763	39,000	-1,700	5,000
N764	39,000	6,800	5,000
N765	34,000	-1,700	5,000
N766	34,000	6,800	5,000
N767	34,000	0,800	5,000
N768	54,000	0,800	5,000
N769	35,825	0,800	-0,500

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N770	35,825	0,800	5,000
N771	52,175	0,800	-0,500
N772	52,175	0,800	5,000
N773	39,000	0,800	5,000
N774	49,000	0,800	5,000
N775	39,000	0,800	9,900
N776	49,000	0,800	9,900
N777	38,100	0,800	9,900
N778	49,900	0,800	9,900
N779	38,100	0,800	7,590
N780	49,900	0,800	7,590
N782	42,000	0,800	7,590
N783	42,000	0,800	9,900
N784	46,000	0,800	7,590
N785	46,000	0,800	9,900
N786	39,000	0,800	8,900
N787	49,000	0,800	8,900
N796	44,000	0,800	5,000

### 12.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B964	CS27 - HEA260	Portal	13,500	Lijn	N756	Balk (80) standaard
B965	CS23 - HEA220	Portal	6,750	Lijn	N757	Balk (80) standaard
B966	CS24 - IPE270	Portal	8,500	Lijn	N758	Balk (80) standaard
B967	CS11 - IPE330	Portal	8,500	Lijn	N759	Balk (80) standaard
B968	CS11 - IPE330	Portal	8,500	Lijn	N760	Balk (80) standaard
B969	CS11 - IPE330	Portal	8,500	Lijn	N761	Balk (80) standaard
B970	CS24 - IPE270	Portal	8,500	Lijn	N762	Balk (80) standaard
B971	CS34 - HEA400	Portal	20,000	Lijn	N763	Balk (80) standaard
B972	CS12 - ROR457/6.3	Portal	5,500	Lijn	N764	Balk (80) standaard
					N765	Balk (80) standaard
					N766	Balk (80) standaard
					N767	Balk (80) standaard
					N768	Balk (80) standaard
					N769	Kolom (100)

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N770		standaard
B973	CS12 - ROR457/6.3	Portal	5,500	Lijn	N771		Kolom (100)
					N772		standaard
B974	CS10 - RD24	Portal	7,810	Lijn	N766		Horizontaal windverband (0)
					N773		enkel normaalkracht
B975	CS10 - RD24	Portal	7,810	Lijn	N767		Horizontaal windverband (0)
					N764		enkel normaalkracht
B976	CS10 - RD24	Portal	7,810	Lijn	N760		Horizontaal windverband (0)
					N768		enkel normaalkracht
B977	CS10 - RD24	Portal	7,810	Lijn	N774		Horizontaal windverband (0)
					N601		enkel normaalkracht
B978	CS13 - MSH160x160x6.3	Portal	4,900	Lijn	N773		Kolom (100)
					N775		standaard
B979	CS13 - MSH160x160x6.3	Portal	4,900	Lijn	N774		Kolom (100)
					N776		standaard
B980	CS17 - HEA160	Portal	11,800	Lijn	N777		Balk (80)
					N778		standaard
B981	CS17 - HEA160	Portal	11,800	Lijn	N779		Balk (80)
					N780		standaard
B982	CS14 - ROR60.3/2.9	Portal	2,310	Lijn	N782		Kolom (100)
					N783		standaard
B983	CS14 - ROR60.3/2.9	Portal	2,310	Lijn	N784		Kolom (100)
					N785		standaard
B984	CS15 - RD16	Portal	3,786	Lijn	N775		Balk (80)
					N782		enkel normaalkracht
B985	CS15 - RD16	Portal	4,619	Lijn	N782		Balk (80)
					N785		enkel normaalkracht
B986	CS15 - RD16	Portal	3,786	Lijn	N776		Balk (80)
					N784		enkel normaalkracht
B987	CS15 - RD16	Portal	4,619	Lijn	N784		Balk (80)
					N783		enkel normaalkracht
B988	CS25 - MSH100x100x5.0	Portal	7,156	Lijn	N786		Horizontaal windverband (0)
					N764		standaard
B989	CS25 - MSH100x100x5.0	Portal	7,156	Lijn	N787		Horizontaal windverband (0)
					N760		standaard
B1038	CS10 - RD24	Portal	7,810	Lijn	N762		Horizontaal windverband (0)
					N774		enkel normaalkracht
B1039	CS10 - RD24	Portal	7,810	Lijn	N796		Horizontaal windverband (0)
					N760		enkel normaalkracht
B1040	CS10 - RD24	Portal	7,810	Lijn	N764		Horizontaal windverband (0)
					N796		enkel normaalkracht
B1041	CS10 - RD24	Portal	7,810	Lijn	N773		Horizontaal windverband (0)
					N762		enkel normaalkracht

#### 12.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - Portal  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B964	CS27 - HEA260	0,000	NC16	<b>-18,916</b>	-43,106	26,533	0,004	0,000	0,000
B964	CS27 - HEA260	5,250	NC7	<b>19,298</b>	-9,433	-48,245	0,005	6,749	7,305
B964	CS27 - HEA260	0,000	NC7	-16,794	<b>-43,324</b>	17,681	0,005	0,000	0,000
B964	CS27 - HEA260	0,000	NC14	-7,964	<b>10,146</b>	7,458	-0,005	0,000	0,000
B964	CS27 - HEA260	10,745	NC2	6,243	0,004	<b>-154,283</b>	0,000	-171,770	-0,043
B964	CS27 - HEA260	3,045	NC2	4,769	0,030	<b>137,619</b>	0,000	-182,879	0,037
B964	CS27 - HEA260	3,045	NC3	-1,357	-3,222	43,468	<b>-0,005</b>	-56,996	3,079
B964	CS27 - HEA260	10,250	NC7	-1,337	-0,529	11,897	<b>0,005</b>	27,386	-4,819
B964	CS27 - HEA260	3,045	NC2	8,210	0,008	-63,820	0,000	<b>-182,879</b>	0,037
B964	CS27 - HEA260	6,750	NC2	4,758	0,081	76,879	0,000	<b>234,455</b>	-0,028
B964	CS27 - HEA260	0,250	NC7	-16,794	-43,324	17,480	0,005	4,395	<b>-10,831</b>
B964	CS27 - HEA260	5,250	NC7	-9,720	6,898	-8,237	0,005	7,018	<b>7,480</b>
B965	CS23 - HEA220	1,750	NC16	<b>-24,148</b>	0,235	-6,992	0,001	15,679	-6,438
B965	CS23 - HEA220	1,750	NC3	<b>7,620</b>	1,314	-9,053	0,002	19,754	-1,706
B965	CS23 - HEA220	4,950	NC6	-9,830	<b>-4,409</b>	1,833	0,012	-2,337	<b>7,936</b>
B965	CS23 - HEA220	4,950	NC16	-19,318	<b>3,163</b>	5,389	0,001	-8,978	-5,693
B965	CS23 - HEA220	4,950	NC2	3,279	0,008	<b>-28,659</b>	-0,001	<b>-33,196</b>	-0,038
B965	CS23 - HEA220	0,000	NC2	3,232	-0,028	<b>32,230</b>	<b>-0,001</b>	0,000	0,000
B965	CS23 - HEA220	0,000	NC13	-15,518	1,439	8,665	<b>0,012</b>	0,000	0,000
B965	CS23 - HEA220	1,750	NC2	3,232	-0,028	31,190	-0,001	<b>55,493</b>	-0,048
B965	CS23 - HEA220	1,750	NC16	-9,452	-3,818	8,355	0,001	15,304	<b>-6,682</b>
B966	CS24 - IPE270	2,500	NC7	<b>-21,449</b>	-0,025	13,440	-0,017	-11,930	0,148
B966	CS24 - IPE270	2,500	NC10	<b>1,859</b>	0,002	7,535	-0,022	-6,688	-0,013
B966	CS24 - IPE270	2,500	NC8	-21,444	<b>-0,025</b>	13,440	-0,017	-11,930	<b>0,148</b>



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B966	CS24 - IPE270	2,500	NC4	1,156	<b>0,008</b>	-3,038	-0,014	2,785	<b>-0,050</b>
B966	CS24 - IPE270	8,500	NC2	0,019	0,001	<b>-30,490</b>	-0,070	0,000	0,000
B966	CS24 - IPE270	2,500	NC2	0,019	0,001	<b>30,940</b>	<b>-0,070</b>	<b>-18,280</b>	-0,007
B966	CS24 - IPE270	2,500	NC14	0,448	0,006	-6,979	<b>0,003</b>	6,269	-0,035
B966	CS24 - IPE270	6,100	NC2	0,019	0,001	-1,855	-0,070	<b>37,731</b>	-0,003
B967	CS11 - IPE330	2,500	NC8	<b>-11,680</b>	0,000	18,752	0,000	-16,644	0,000
B967	CS11 - IPE330	2,500	NC2	<b>0,029</b>	0,000	<b>57,518</b>	0,000	-33,736	0,000
B967	CS11 - IPE330	0,000	NC8	0,000	<b>0,000</b>	0,000	0,000	0,000	0,000
B967	CS11 - IPE330	1,000	NC15	0,000	<b>0,000</b>	-3,270	0,000	-1,635	0,000
B967	CS11 - IPE330	8,500	NC2	0,029	0,000	<b>-56,914</b>	0,000	0,000	0,000
B967	CS11 - IPE330	0,000	NC7	0,000	0,000	0,000	<b>0,000</b>	0,000	0,000
B967	CS11 - IPE330	2,500	NC2	0,000	0,000	-28,836	0,000	<b>-33,736</b>	0,000
B967	CS11 - IPE330	6,100	NC2	0,029	0,000	-3,479	0,000	<b>70,429</b>	0,000
B967	CS11 - IPE330	1,500	NC7	0,000	0,000	-7,989	0,000	-5,992	<b>0,000</b>
B967	CS11 - IPE330	2,500	NC15	-11,654	0,000	11,514	0,000	-10,220	<b>0,000</b>
B968	CS11 - IPE330	2,500	NC16	<b>-16,093</b>	0,000	11,514	0,000	-10,220	0,000
B968	CS11 - IPE330	1,000	NC15	<b>0,000</b>	<b>0,000</b>	-3,270	0,000	-1,635	0,000
B968	CS11 - IPE330	1,500	NC7	0,000	<b>0,000</b>	-7,989	0,000	-5,992	<b>0,000</b>
B968	CS11 - IPE330	8,500	NC2	-0,069	0,000	<b>-57,884</b>	0,000	0,000	0,000
B968	CS11 - IPE330	2,500	NC2	-0,069	0,000	<b>58,432</b>	0,000	-34,203	0,000
B968	CS11 - IPE330	0,000	NC6	0,000	0,000	0,000	<b>0,000</b>	0,000	0,000
B968	CS11 - IPE330	2,500	NC2	0,000	0,000	-29,246	0,000	<b>-34,203</b>	0,000
B968	CS11 - IPE330	6,100	NC2	-0,069	0,000	-3,544	0,000	<b>71,629</b>	0,000
B968	CS11 - IPE330	1,500	NC8	0,000	0,000	-7,989	0,000	-5,992	<b>0,000</b>
B969	CS11 - IPE330	2,500	NC6	<b>-12,566</b>	0,000	1,555	0,000	3,617	0,000
B969	CS11 - IPE330	2,500	NC8	<b>1,188</b>	0,000	18,752	0,000	-16,644	0,000
B969	CS11 - IPE330	1,500	NC7	0,000	<b>0,000</b>	-7,989	0,000	-5,992	0,000
B969	CS11 - IPE330	1,500	NC15	0,000	<b>0,000</b>	-4,906	0,000	-3,679	0,000
B969	CS11 - IPE330	8,500	NC2	-0,203	0,000	<b>-56,914</b>	0,000	0,000	0,000
B969	CS11 - IPE330	2,500	NC2	-0,203	0,000	<b>57,518</b>	0,000	-33,736	0,000
B969	CS11 - IPE330	0,000	NC1	0,000	0,000	0,000	<b>0,000</b>	0,000	0,000
B969	CS11 - IPE330	2,500	NC2	0,000	0,000	-28,836	0,000	<b>-33,736</b>	0,000
B969	CS11 - IPE330	6,100	NC2	-0,203	0,000	-3,479	0,000	<b>70,429</b>	0,000
B969	CS11 - IPE330	2,500	NC16	1,148	0,000	11,514	0,000	-10,220	<b>0,000</b>
B969	CS11 - IPE330	2,500	NC3	-7,993	0,000	24,567	0,000	-31,075	<b>0,000</b>
B970	CS24 - IPE270	2,500	NC7	<b>-44,434</b>	<b>0,105</b>	13,439	0,018	-11,927	<b>-0,631</b>
B970	CS24 - IPE270	2,500	NC14	<b>0,559</b>	<b>-0,025</b>	-6,979	<b>0,000</b>	6,274	<b>0,147</b>
B970	CS24 - IPE270	8,500	NC2	-0,046	0,001	<b>-30,491</b>	0,072	0,000	0,000
B970	CS24 - IPE270	2,500	NC2	-0,046	0,001	<b>30,940</b>	<b>0,072</b>	-18,277	-0,006
B970	CS24 - IPE270	2,500	NC2	0,000	0,000	-15,602	0,000	<b>-18,278</b>	0,000
B970	CS24 - IPE270	6,100	NC2	-0,046	0,001	-1,855	0,072	<b>37,732</b>	-0,003
B971	CS34 - HEA400	0,000	NC8	<b>-37,475</b>	0,412	-23,145	0,002	-0,018	0,631
B971	CS34 - HEA400	5,000	NC4	<b>6,761</b>	-0,152	7,815	0,001	63,746	0,909
B971	CS34 - HEA400	10,000	NC7	-29,066	<b>-2,365</b>	-12,456	0,002	209,946	4,073
B971	CS34 - HEA400	18,175	NC8	-14,928	<b>3,560</b>	25,827	0,002	-44,705	-6,350
B971	CS34 - HEA400	18,175	NC2	-0,006	-0,028	<b>-149,515</b>	0,002	-87,754	0,214
B971	CS34 - HEA400	1,825	NC2	-0,001	-0,046	<b>149,575</b>	0,002	-87,755	-0,210
B971	CS34 - HEA400	18,175	NC12	0,007	-1,156	-9,835	<b>-0,012</b>	19,782	2,069
B971	CS34 - HEA400	0,000	NC3	0,020	-0,389	-28,994	<b>0,008</b>	-0,039	-0,121
B971	CS34 - HEA400	1,825	NC2	-0,001	-0,046	-49,386	0,002	<b>-87,755</b>	-0,077
B971	CS34 - HEA400	10,000	NC2	0,089	-0,079	43,983	0,002	<b>618,024</b>	-0,014
B971	CS34 - HEA400	5,000	NC16	-37,389	3,544	19,223	0,002	32,429	<b>-13,616</b>
B971	CS34 - HEA400	18,175	NC15	-14,733	3,421	-33,751	0,002	-31,745	<b>11,191</b>
B972	CS12 - ROR457/6.3	0,000	NC2	<b>-203,496</b>	0,000	0,000	0,133	0,000	0,000
B972	CS12 - ROR457/6.3	5,500	NC14	<b>12,977</b>	0,000	0,004	0,507	0,000	0,000
B972	CS12 - ROR457/6.3	0,000	NC7	-75,704	<b>-0,006</b>	0,003	6,595	-0,016	0,000
B972	CS12 - ROR457/6.3	0,000	NC9	-74,061	<b>0,006</b>	0,002	-5,169	-0,013	0,000
B972	CS12 - ROR457/6.3	0,000	NC5	-124,266	0,000	<b>-0,006</b>	0,074	0,000	0,000
B972	CS12 - ROR457/6.3	0,000	NC3	-124,269	-0,001	<b>0,006</b>	-2,645	0,000	0,007
B972	CS12 - ROR457/6.3	0,000	NC18	-42,045	0,004	0,003	<b>-6,192</b>	-0,015	0,000
B972	CS12 - ROR457/6.3	0,000	NC16	-43,707	-0,004	0,003	<b>6,976</b>	<b>-0,017</b>	0,000
B972	CS12 - ROR457/6.3	2,200	NC3	-122,456	-0,001	0,001	-2,645	<b>0,007</b>	0,004
B972	CS12 - ROR457/6.3	2,200	NC7	-73,890	-0,001	0,003	6,595	-0,010	<b>-0,007</b>
B972	CS12 - ROR457/6.3	2,200	NC9	-72,247	0,001	0,002	-5,169	-0,008	<b>0,007</b>
B973	CS12 - ROR457/6.3	0,000	NC2	<b>-203,436</b>	0,000	0,000	0,172	0,000	0,000
B973	CS12 - ROR457/6.3	5,500	NC12	<b>12,963</b>	-0,002	-0,004	-4,947	0,000	0,000
B973	CS12 - ROR457/6.3	0,000	NC7	-87,506	<b>-0,006</b>	0,008	17,374	-0,043	0,000
B973	CS12 - ROR457/6.3	0,000	NC9	-74,056	<b>0,006</b>	0,003	-7,560	-0,019	0,000
B973	CS12 - ROR457/6.3	0,000	NC5	-124,279	0,001	<b>-0,006</b>	-2,299	0,000	-0,006
B973	CS12 - ROR457/6.3	0,000	NC16	-55,525	-0,004	<b>0,008</b>	<b>17,536</b>	<b>-0,044</b>	0,000
B973	CS12 - ROR457/6.3	0,000	NC18	-42,085	0,004	0,004	<b>-8,121</b>	-0,020	0,000
B973	CS12 - ROR457/6.3	2,200	NC3	-122,458	-0,002	0,001	-4,832	<b>0,007</b>	0,007
B973	CS12 - ROR457/6.3	2,200	NC7	-85,692	-0,001	0,008	17,374	-0,026	<b>-0,007</b>
B973	CS12 - ROR457/6.3	0,000	NC12	9,563	-0,002	0,004	-4,947	0,000	<b>0,012</b>
B974	CS10 - RD24	0,000	NC7	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B974	CS10 - RD24	0,000	NC14	<b>11,890</b>	0,000	0,000	0,000	0,000	0,000



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B974	CS10 - RD24	0,000	NC1	0,059	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B975	CS10 - RD24	0,000	NC1	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B975	CS10 - RD24	0,000	NC8	<b>58,374</b>	0,000	0,000	0,000	0,000	0,000
B976	CS10 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B976	CS10 - RD24	0,000	NC7	<b>23,289</b>	0,000	0,000	0,000	0,000	0,000
B976	CS10 - RD24	0,000	NC1	0,006	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B977	CS10 - RD24	0,000	NC7	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B977	CS10 - RD24	0,000	NC4	<b>5,851</b>	0,000	0,000	0,000	0,000	0,000
B977	CS10 - RD24	0,000	NC1	0,013	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B978	CS13 - MSH160x160x6.3	0,000	NC1	<b>-7,734</b>	-0,011	-0,055	0,328	0,000	0,000
B978	CS13 - MSH160x160x6.3	3,900	NC16	<b>22,420</b>	<b>19,125</b>	-0,252	-3,440	-0,177	<b>20,687</b>
B978	CS13 - MSH160x160x6.3	3,900	NC16	-2,898	<b>-20,690</b>	-0,252	-3,562	0,011	20,687
B978	CS13 - MSH160x160x6.3	2,590	NC2	-5,033	-0,036	<b>-0,428</b>	0,700	0,268	-0,059
B978	CS13 - MSH160x160x6.3	0,000	NC11	-5,126	-0,003	<b>-0,023</b>	-0,011	0,000	0,000
B978	CS13 - MSH160x160x6.3	0,000	NC16	20,727	-1,686	-0,043	<b>-10,368</b>	0,000	0,000
B978	CS13 - MSH160x160x6.3	0,000	NC2	-6,900	-0,024	-0,046	<b>0,738</b>	0,000	0,000
B978	CS13 - MSH160x160x6.3	4,900	NC1	-3,980	0,047	-0,352	0,206	<b>-0,376</b>	-0,002
B978	CS13 - MSH160x160x6.3	2,590	NC3	-4,992	-0,008	-0,318	0,176	<b>0,283</b>	-0,019
B978	CS13 - MSH160x160x6.3	2,590	NC7	20,814	19,117	-0,350	-3,278	0,217	<b>-4,381</b>
B979	CS13 - MSH160x160x6.3	0,000	NC1	<b>-7,682</b>	0,011	0,055	0,298	0,000	0,000
B979	CS13 - MSH160x160x6.3	3,900	NC15	<b>3,160</b>	4,776	0,347	2,810	0,274	5,278
B979	CS13 - MSH160x160x6.3	3,900	NC7	-3,870	<b>-5,299</b>	0,410	3,167	-0,081	5,302
B979	CS13 - MSH160x160x6.3	3,900	NC7	2,043	<b>4,786</b>	0,410	2,923	0,295	<b>5,302</b>
B979	CS13 - MSH160x160x6.3	0,000	NC13	-5,164	-0,005	<b>0,026</b>	-0,129	0,000	0,000
B979	CS13 - MSH160x160x6.3	2,590	NC7	1,579	4,785	<b>0,410</b>	2,923	-0,242	-0,967
B979	CS13 - MSH160x160x6.3	3,900	NC18	-2,928	0,042	0,164	<b>-0,182</b>	0,086	-0,042
B979	CS13 - MSH160x160x6.3	0,000	NC7	-0,282	-0,375	0,055	<b>8,160</b>	0,000	0,000
B979	CS13 - MSH160x160x6.3	2,590	NC1	-5,592	0,017	0,281	0,247	<b>-0,273</b>	0,027
B979	CS13 - MSH160x160x6.3	4,900	NC1	-4,018	-0,047	0,281	0,249	<b>0,374</b>	0,002
B979	CS13 - MSH160x160x6.3	2,590	NC16	2,102	-0,379	0,043	8,008	0,111	<b>-0,983</b>
B980	CS17 - HEA160	0,900	NC1	<b>-4,110</b>	0,684	-0,047	-0,002	0,206	<b>-0,539</b>
B980	CS17 - HEA160	0,180	NC7	<b>0,000</b>	-0,065	-1,045	0,000	-0,094	-0,006
B980	CS17 - HEA160	7,900	NC1	-4,110	<b>-0,810</b>	-0,047	-0,002	-0,115	-0,314
B980	CS17 - HEA160	3,900	NC1	-4,110	<b>0,804</b>	-0,047	-0,002	0,072	-0,303
B980	CS17 - HEA160	9,100	NC7	-3,733	0,033	<b>-5,296</b>	-0,003	6,366	0,041
B980	CS17 - HEA160	0,900	NC16	-2,791	0,460	<b>15,677</b>	-0,002	<b>-5,856</b>	-0,359
B980	CS17 - HEA160	0,900	NC2	-3,728	0,608	-0,102	<b>-0,004</b>	0,448	-0,479
B980	CS17 - HEA160	0,900	NC18	-2,682	0,452	0,034	<b>0,001</b>	-0,176	-0,356
B980	CS17 - HEA160	4,700	NC7	-3,733	0,431	0,414	-0,003	<b>21,736</b>	0,201
B980	CS17 - HEA160	5,500	NC1	-4,110	0,159	-0,047	-0,002	-0,002	<b>0,467</b>
B981	CS17 - HEA160	11,260	NC8	<b>0,000</b>	0,194	0,000	0,000	0,000	-0,052
B981	CS17 - HEA160	3,900	NC1	<b>4,039</b>	<b>0,803</b>	-0,006	-0,002	-0,003	-0,296
B981	CS17 - HEA160	7,900	NC1	4,039	<b>-0,810</b>	-0,006	-0,002	-0,026	-0,310
B981	CS17 - HEA160	9,100	NC7	0,356	0,010	<b>-5,155</b>	0,002	4,044	0,020
B981	CS17 - HEA160	0,900	NC16	0,209	0,467	<b>15,796</b>	<b>0,002</b>	<b>-9,223</b>	-0,389
B981	CS17 - HEA160	0,900	NC2	0,382	0,628	-0,011	<b>-0,004</b>	0,038	-0,532
B981	CS17 - HEA160	4,700	NC8	3,663	0,434	0,555	0,002	<b>18,848</b>	0,197
B981	CS17 - HEA160	0,900	NC1	0,296	0,703	-0,006	-0,002	0,021	<b>-0,589</b>
B981	CS17 - HEA160	5,500	NC1	4,039	0,158	-0,006	-0,002	-0,012	<b>0,473</b>
B982	CS14 - ROR60.3/2.9	0,000	NC1	<b>-1,504</b>	0,000	0,000	0,006	0,000	0,000
B982	CS14 - ROR60.3/2.9	2,310	NC12	<b>-0,918</b>	0,000	0,000	0,001	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC7	-1,344	<b>0,000</b>	0,000	-0,020	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC9	-1,337	<b>0,000</b>	0,000	0,003	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC5	-1,346	0,000	<b>0,000</b>	-0,001	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC3	-1,335	0,000	<b>0,000</b>	0,004	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC16	-1,016	0,000	0,000	<b>-0,023</b>	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,000	NC2	-1,337	0,000	0,000	<b>0,014</b>	0,000	0,000
B982	CS14 - ROR60.3/2.9	0,924	NC5	-1,301	0,000	0,000	-0,001	<b>0,000</b>	0,000
B982	CS14 - ROR60.3/2.9	0,924	NC3	-1,291	0,000	0,000	0,004	<b>0,000</b>	0,000
B982	CS14 - ROR60.3/2.9	0,924	NC7	-1,299	0,000	0,000	-0,020	0,000	<b>0,000</b>
B982	CS14 - ROR60.3/2.9	0,924	NC9	-1,292	0,000	0,000	0,003	0,000	<b>0,000</b>
B983	CS14 - ROR60.3/2.9	0,000	NC1	<b>-1,523</b>	0,000	0,000	0,006	0,000	0,000
B983	CS14 - ROR60.3/2.9	2,310	NC15	<b>-0,916</b>	0,000	0,000	0,024	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,000	NC9	-1,351	<b>0,000</b>	0,000	0,003	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,000	NC7	-1,334	<b>0,000</b>	0,000	<b>0,027</b>	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,000	NC3	-1,368	0,000	<b>0,000</b>	0,004	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,000	NC5	-1,338	0,000	<b>0,000</b>	0,000	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,000	NC18	-1,003	0,000	0,000	<b>-0,005</b>	0,000	0,000
B983	CS14 - ROR60.3/2.9	0,924	NC3	-1,324	0,000	0,000	0,004	<b>0,000</b>	0,000
B983	CS14 - ROR60.3/2.9	0,924	NC5	-1,293	0,000	0,000	0,000	<b>0,000</b>	0,000
B983	CS14 - ROR60.3/2.9	0,924	NC9	-1,306	0,000	0,000	0,003	0,000	<b>0,000</b>
B983	CS14 - ROR60.3/2.9	0,924	NC7	-1,289	0,000	0,000	0,027	0,000	<b>0,000</b>
B984	CS15 - RD16	3,786	NC11	<b>3,140</b>	0,000	0,000	0,000	0,000	0,000
B984	CS15 - RD16	0,000	NC1	<b>4,767</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B985	CS15 - RD16	0,000	NC5	<b>-0,021</b>	0,000	0,000	0,000	0,000	0,000
B985	CS15 - RD16	4,619	NC2	<b>0,090</b>	0,000	0,000	0,000	0,000	0,000



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B985	CS15 - RD16	0,000	NC1	-0,006	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B986	CS15 - RD16	3,786	NC16	<b>3,105</b>	0,000	0,000	0,000	0,000	0,000
B986	CS15 - RD16	0,000	NC1	<b>4,837</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B987	CS15 - RD16	0,000	NC1	<b>-0,024</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B987	CS15 - RD16	4,619	NC16	<b>0,048</b>	0,000	0,000	0,000	0,000	0,000
B988	CS25 - MSH100x100x5.0	7,156	NC8	<b>-47,740</b>	0,000	-0,518	-0,310	0,000	0,000
B988	CS25 - MSH100x100x5.0	0,000	NC2	<b>0,502</b>	0,000	0,518	<b>-0,462</b>	<b>0,000</b>	0,000
B988	CS25 - MSH100x100x5.0	0,000	NC6	0,318	<b>0,000</b>	0,518	-0,003	0,000	0,000
B988	CS25 - MSH100x100x5.0	7,156	NC1	-0,303	0,000	<b>-0,583</b>	-0,185	0,000	0,000
B988	CS25 - MSH100x100x5.0	0,000	NC1	0,455	0,000	<b>0,583</b>	-0,185	0,000	0,000
B988	CS25 - MSH100x100x5.0	0,000	NC18	0,206	0,000	0,389	<b>0,100</b>	0,000	<b>0,000</b>
B988	CS25 - MSH100x100x5.0	3,578	NC1	0,076	0,000	0,000	-0,185	<b>1,043</b>	0,000
B989	CS25 - MSH100x100x5.0	7,156	NC7	<b>-12,353</b>	0,000	-0,518	0,448	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC10	<b>0,380</b>	0,000	0,519	-0,051	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC14	0,307	<b>0,000</b>	0,389	-0,084	0,000	0,000
B989	CS25 - MSH100x100x5.0	7,156	NC1	-0,455	0,000	<b>-0,583</b>	0,003	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC1	0,303	0,000	<b>0,583</b>	0,003	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC5	0,356	0,000	0,518	<b>-0,104</b>	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC15	-11,724	0,000	0,388	<b>0,449</b>	0,000	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC2	0,172	0,000	0,518	-0,025	<b>0,000</b>	0,000
B989	CS25 - MSH100x100x5.0	3,578	NC1	-0,076	0,000	0,000	0,003	<b>1,043</b>	0,000
B989	CS25 - MSH100x100x5.0	0,000	NC18	0,326	0,000	0,389	-0,057	0,000	<b>0,000</b>
B1038	CS10 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1038	CS10 - RD24	0,000	NC16	<b>22,198</b>	0,000	0,000	0,000	0,000	0,000
B1038	CS10 - RD24	0,000	NC1	0,005	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1039	CS10 - RD24	0,000	NC7	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1039	CS10 - RD24	0,000	NC18	<b>5,338</b>	0,000	0,000	0,000	0,000	0,000
B1039	CS10 - RD24	0,000	NC1	0,037	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1040	CS10 - RD24	0,000	NC4	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1040	CS10 - RD24	0,000	NC16	<b>13,267</b>	0,000	0,000	0,000	0,000	0,000
B1040	CS10 - RD24	0,000	NC1	0,003	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>
B1041	CS10 - RD24	0,000	NC3	<b>0,000</b>	0,000	0,000	0,000	0,000	0,000
B1041	CS10 - RD24	0,000	NC5	<b>3,557</b>	0,000	0,000	0,000	0,000	0,000
B1041	CS10 - RD24	0,000	NC1	0,022	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>	<b>0,000</b>

## 12.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extremes 1D: Element

Selectie: Benoemde selectie - Portal

### Algehele eenheidscontrole

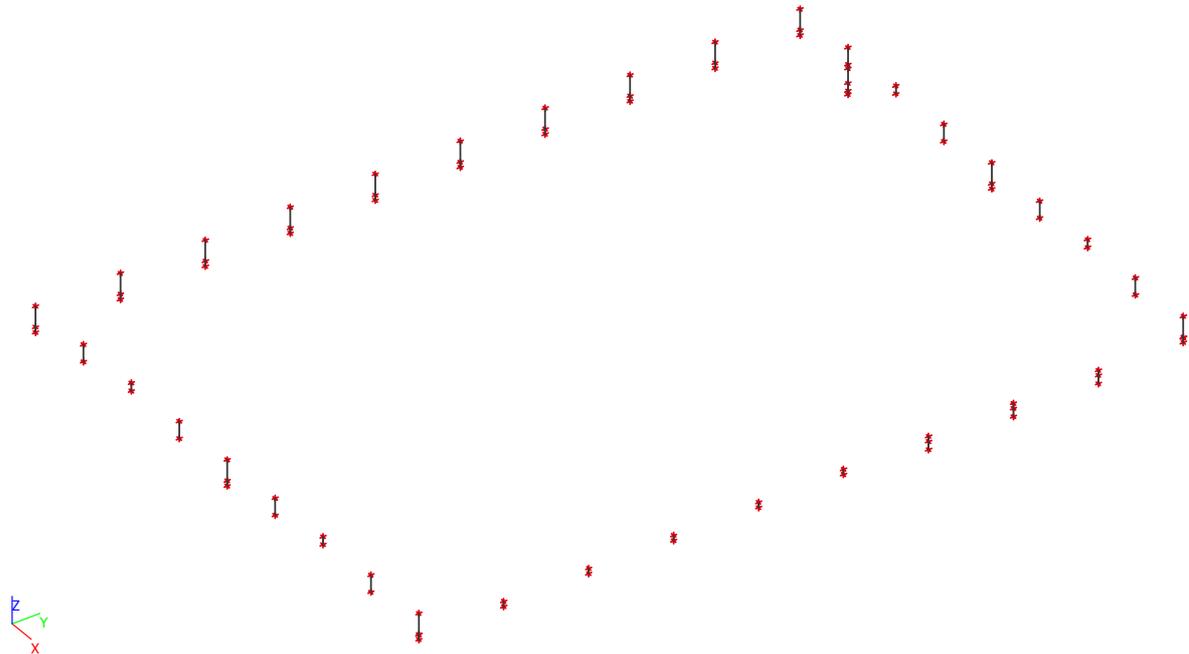
Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B964	6,750-	NC2	CS27 - HEA260	S 355	<b>0,93</b>	0,79	0,93
B965	1,750+	NC2	CS23 - HEA220	S 235	<b>0,45</b>	0,42	0,45
B966	6,100-	NC2	CS24 - IPE270	S 235	<b>0,82</b>	0,33	0,82
B967	6,100-	NC2	CS11 - IPE330	S 355	<b>0,86</b>	0,25	0,86
B968	6,100-	NC2	CS11 - IPE330	S 355	<b>0,89</b>	0,25	0,89
B969	6,100-	NC2	CS11 - IPE330	S 355	<b>0,87</b>	0,25	0,87
B970	6,100-	NC2	CS24 - IPE270	S 235	<b>0,82</b>	0,33	0,82
B971	10,000-	NC2	CS34 - HEA400	S 355	<b>0,79</b>	0,68	0,79
B972	0,000	NC2	CS12 - ROR457/6.3	S 235	<b>0,10</b>	0,10	0,00
B973	0,000	NC2	CS12 - ROR457/6.3	S 235	<b>0,10</b>	0,10	0,00
B974	0,000	NC14	CS10 - RD24	S 235	<b>0,11</b>	0,11	0,00
B975	0,000	NC8	CS10 - RD24	S 235	<b>0,55</b>	0,55	0,00
B976	0,000	NC7	CS10 - RD24	S 235	<b>0,22</b>	0,22	0,00
B977	0,000	NC4	CS10 - RD24	S 235	<b>0,06</b>	0,06	0,00
B978	3,900-	NC16	CS13 - MSH160x160x6.3	S 235	<b>0,40</b>	0,40	0,00
B979	0,000	NC7	CS13 - MSH160x160x6.3	S 235	<b>0,20</b>	0,20	0,04
B980	4,700-	NC7	CS17 - HEA160	S 235	<b>0,47</b>	0,38	0,47
B981	5,500-	NC8	CS17 - HEA160	S 235	<b>0,39</b>	0,32	0,39
B982	0,000	NC1	CS14 - ROR60.3/2.9	S 235	<b>0,01</b>	0,01	0,00
B983	0,000	NC7	CS14 - ROR60.3/2.9	S 235	<b>0,01</b>	0,01	0,01
B984	0,000	NC1	CS15 - RD16	S 235	<b>0,10</b>	0,10	0,00
B985	0,000	NC17	CS15 - RD16	S 235	<b>0,05</b>	0,00	0,05
B986	0,000	NC1	CS15 - RD16	S 235	<b>0,10</b>	0,10	0,00
B987	0,000	NC6	CS15 - RD16	S 235	<b>0,07</b>	0,00	0,07
B988	7,156	NC8	CS25 -	S 235	<b>0,55</b>	0,11	0,55



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
			MSH100x100x5.0				
B989	7,156	NC7	CS25 - MSH100x100x5.0	S 235	<b>0,18</b>	0,04	0,18
B1038	0,000	NC16	CS10 - RD24	S 235	<b>0,21</b>	0,21	0,00
B1039	0,000	NC18	CS10 - RD24	S 235	<b>0,05</b>	0,05	0,00
B1040	0,000	NC16	CS10 - RD24	S 235	<b>0,12</b>	0,12	0,00
B1041	0,000	NC5	CS10 - RD24	S 235	<b>0,03</b>	0,03	0,00

## 13.) Attica

### 13.1. Analysemodel



### 13.2. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N2	13,500	6,800	8,820
N4	0,000	6,800	7,040
N6	27,000	6,800	7,040
N14	0,000	31,799	7,040
N20	54,000	31,799	7,040
N22	6,750	6,800	7,930
N24	20,250	6,800	7,930
N25	0,000	6,800	9,600
N26	0,000	31,799	9,600
N27	27,000	6,800	9,600
N28	6,750	6,800	9,600
N29	13,500	6,800	9,600
N30	20,250	6,800	9,600
N32	40,500	6,800	8,820
N34	47,250	6,800	7,930
N36	33,750	6,800	7,930
N37	47,250	6,800	9,600
N38	40,500	6,800	9,600
N39	33,750	6,800	9,600
N41	54,000	6,800	7,040
N42	54,000	6,800	9,600
N43	0,000	23,466	7,040
N44	0,000	23,466	9,600
N46	54,000	23,466	7,040
N51	0,000	15,133	7,040
N52	0,000	15,133	9,600
N54	54,000	15,133	7,040
N59	54,000	15,133	7,550
N60	54,000	23,466	7,550
N61	54,000	31,799	7,550
N160	0,000	40,132	7,040
N161	0,000	40,132	9,600
N163	54,000	40,132	7,040
N168	54,000	40,132	7,550
N234	0,000	56,800	7,040
N240	54,000	56,800	7,040
N241	0,000	56,800	9,600
N250	0,000	48,465	7,040
N251	0,000	48,465	9,600
N253	54,000	48,465	7,040
N258	54,000	48,465	7,550

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N259	54,000	56,800	7,550
N322	13,500	81,797	8,820
N324	0,000	81,797	7,040
N326	27,000	81,797	7,040
N328	40,500	81,797	8,820
N330	54,000	81,797	7,040
N331	0,000	81,797	9,600
N332	0,000	73,464	7,040
N333	0,000	73,464	9,600
N335	54,000	73,464	7,040
N340	0,000	65,133	7,040
N341	0,000	65,133	9,600
N343	54,000	65,133	7,040
N348	54,000	65,133	7,550
N349	54,000	73,464	7,550
N363	6,750	81,797	7,930
N378	20,250	81,797	7,930
N393	47,250	81,797	7,930
N408	33,750	81,797	7,930
N411	0,000	6,800	7,550
N414	27,000	6,800	7,550
N418	54,000	6,800	7,550
N456	6,750	81,797	9,600
N457	20,250	81,797	9,600
N458	27,000	81,797	9,600
N459	13,500	81,797	9,600
N460	33,750	81,797	9,600
N461	40,500	81,797	9,600
N462	54,000	81,797	9,600
N463	47,250	81,797	9,600
N464	0,000	81,797	7,550
N465	6,750	81,797	7,550
N467	27,000	81,797	7,550
N471	54,000	81,797	7,550
N474	6,750	81,797	6,100
N513	0,000	73,464	7,550
N514	0,000	65,133	7,550
N515	0,000	56,800	7,550
N517	0,000	48,465	7,550
N520	0,000	40,132	7,550
N521	0,000	31,799	7,550



Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N522	0,000	23,466	7,550
N523	0,000	15,133	7,550
N1282	54,000	6,800	7,500
N1289	54,000	56,800	6,250
N1290	54,000	65,133	6,250

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1291	54,000	73,464	6,250
N1292	54,000	81,797	7,500
N1839	6,750	81,797	5,000
N1841	6,750	81,797	5,350

### 13.3. Staven

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop	Type
					Eindknoop	EEM-type
B23	CS4 - HEA140	Attic	2,560	Lijn	N4 N25	Kolom (100) standaard
B24	CS6 - HEA140	Attic	2,560	Lijn	N14 N26	Kolom (100) standaard
B25	CS39 - HEA140	Attic	2,560	Lijn	N6 N27	Kolom (100) standaard
B27	CS4 - HEA140	Attic	1,670	Lijn	N22 N28	Kolom (100) standaard
B28	CS4 - HEA140	Attic	0,780	Lijn	N2 N29	Kolom (100) standaard
B29	CS4 - HEA140	Attic	1,670	Lijn	N24 N30	Kolom (100) standaard
B41	CS4 - HEA140	Attic	1,670	Lijn	N34 N37	Kolom (100) standaard
B42	CS4 - HEA140	Attic	0,780	Lijn	N32 N38	Kolom (100) standaard
B43	CS4 - HEA140	Attic	1,670	Lijn	N36 N39	Kolom (100) standaard
B48	CS4 - HEA140	Attic	2,560	Lijn	N41 N42	Kolom (100) standaard
B51	CS6 - HEA140	Attic	2,560	Lijn	N43 N44	Kolom (100) standaard
B58	CS6 - HEA140	Attic	2,560	Lijn	N51 N52	Kolom (100) standaard
B63	CS19 - HEA100	Attic	0,510	Lijn	N54 N59	Kolom (100) standaard
B64	CS19 - HEA100	Attic	0,510	Lijn	N46 N60	Kolom (100) standaard
B65	CS19 - HEA100	Attic	0,510	Lijn	N20 N61	Kolom (100) standaard
B153	CS6 - HEA140	Attic	2,560	Lijn	N160 N161	Kolom (100) standaard
B247	CS6 - HEA140	Attic	2,560	Lijn	N250 N251	Kolom (100) standaard
B252	CS19 - HEA100	Attic	0,510	Lijn	N253 N258	Kolom (100) standaard
B254	CS52 - HEB260	Attic	0,790	Lijn	N1289 N240	Kolom (100) standaard
B331	CS6 - HEA140	Attic	2,560	Lijn	N324 N331	Kolom (100) standaard
B334	CS6 - HEA140	Attic	2,560	Lijn	N332 N333	Kolom (100) standaard
B341	CS6 - HEA140	Attic	2,560	Lijn	N340 N341	Kolom (100) standaard
B346	CS52 - HEB260	Attic	0,790	Lijn	N1290 N343	Kolom (100) standaard
B347	CS52 - HEB260	Attic	0,790	Lijn	N1291 N335	Kolom (100) standaard
B528	CS4 - HEA140	Attic	0,780	Lijn	N322 N459	Kolom (100) standaard
B529	CS4 - HEA140	Attic	1,670	Lijn	N378 N457	Kolom (100) standaard
B533	CS39 - HEA140	Attic	2,560	Lijn	N326 N458	Kolom (100) standaard
B534	CS4 - HEA140	Attic	1,670	Lijn	N408 N460	Kolom (100) standaard
B536	CS4 - HEA140	Attic	0,780	Lijn	N328 N461	Kolom (100) standaard
B537	CS4 - HEA140	Attic	1,670	Lijn	N393 N463	Kolom (100) standaard
B539	CS4 - HEA140	Attic	2,560	Lijn	N330 N462	Kolom (100) standaard
B1586	CS6 - HEA140	Attic	2,560	Lijn	N234 N241	Kolom (100) standaard
B1590	CS19 - HEA100	Attic	0,510	Lijn	N163	Kolom (100)

Naam	Doorsnede	Laag	Lengte [m]	Vorm	Beginknoop		Type
					Eindknoop	EEM-type	
					N168		standaard
B2237	CS19 - HEA100	Attic	0,510	Lijn	N240		Kolom (100) standaard
B2238	CS19 - HEA100	Attic	0,510	Lijn	N343		Kolom (100) standaard
B2239	CS19 - HEA100	Attic	0,510	Lijn	N335		Kolom (100) standaard
B2274	CS4 - HEA140	Attic	4,600	Lijn	N456		Balk (80) standaard
					N1839		

### 13.4. Interne krachten in staaf

Niet-lineaire berekening, Extreem : Staaf, Systeem : Hoofd  
 Selectie : Benoemde selectie - attic  
 Klasse : ULS-NL

Staaf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B23	CS4 - HEA140	0,000	NC1	<b>-4,019</b>	0,000	0,000	0,000	0,043	-0,005
B23	CS4 - HEA140	2,560	NC11	<b>-1,046</b>	4,328	6,171	0,002	-0,542	0,799
B23	CS4 - HEA140	0,000	NC7	-3,543	<b>-11,643</b>	<b>-15,921</b>	0,000	18,721	<b>14,630</b>
B23	CS4 - HEA140	0,000	NC3	-3,536	<b>11,110</b>	<b>14,396</b>	0,003	-20,802	-13,232
B23	CS4 - HEA140	0,000	NC13	-2,646	4,926	-13,462	<b>-0,002</b>	20,455	-5,771
B23	CS4 - HEA140	0,000	NC4	-3,536	11,110	14,396	<b>0,003</b>	-20,800	-13,231
B23	CS4 - HEA140	0,000	NC11	-2,643	11,110	14,394	0,003	<b>-20,813</b>	-13,236
B23	CS4 - HEA140	0,000	NC6	-3,539	4,926	-13,465	-0,002	<b>20,490</b>	-5,787
B23	CS4 - HEA140	0,000	NC9	-3,545	10,888	-6,862	-0,001	8,586	<b>-14,334</b>
B24	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	-0,006	0,000
B24	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,340	0,000	0,075	0,000
B24	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-17,549	-0,001	18,487	<b>0,014</b>
B24	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-13,724	<b>0,000</b>	16,529	<b>-0,014</b>
B24	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,921</b>	0,000	38,904	0,000
B24	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,783</b>	0,000	-39,821	0,000
B24	CS6 - HEA140	0,000	NC16	-2,902	-0,007	-17,549	<b>-0,001</b>	18,480	0,011
B24	CS6 - HEA140	0,000	NC4	-3,797	0,000	28,783	0,000	<b>-39,823</b>	0,000
B24	CS6 - HEA140	0,000	NC13	-2,835	0,000	-26,919	0,000	<b>38,908</b>	0,000
B25	CS39 - HEA140	0,000	NC1	<b>-3,685</b>	0,000	0,000	0,000	0,096	0,000
B25	CS39 - HEA140	2,560	NC15	<b>-0,925</b>	0,000	9,955	0,000	1,930	0,000
B25	CS39 - HEA140	0,000	NC5	-3,275	<b>-0,008</b>	-9,852	-0,003	11,726	<b>0,012</b>
B25	CS39 - HEA140	0,000	NC3	-3,275	<b>0,008</b>	-9,852	0,003	11,604	<b>-0,012</b>
B25	CS39 - HEA140	0,000	NC9	-3,221	0,000	<b>-21,767</b>	0,000	28,464	0,000
B25	CS39 - HEA140	0,000	NC7	-3,217	0,000	<b>23,275</b>	0,000	-28,526	0,000
B25	CS39 - HEA140	0,000	NC14	-2,456	-0,006	-9,852	<b>-0,003</b>	11,678	0,009
B25	CS39 - HEA140	0,000	NC11	-2,456	0,006	-9,852	<b>0,003</b>	11,574	-0,009
B25	CS39 - HEA140	0,000	NC16	-2,398	0,000	23,273	0,000	<b>-28,535</b>	0,000
B25	CS39 - HEA140	0,000	NC10	-3,221	0,000	-21,767	0,000	<b>28,500</b>	0,000
B27	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,005	0,000
B27	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	9,955	0,000	-0,115	0,000
B27	CS4 - HEA140	0,000	NC5	-1,751	<b>-0,004</b>	-3,827	0,000	6,365	<b>0,006</b>
B27	CS4 - HEA140	0,000	NC3	-1,751	<b>0,004</b>	-6,629	-0,001	11,272	<b>-0,006</b>
B27	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>-9,957</b>	0,000	16,772	0,000
B27	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>9,957</b>	0,000	<b>-16,742</b>	0,000
B27	CS4 - HEA140	0,000	NC4	-1,751	0,004	-6,629	<b>-0,001</b>	11,272	-0,006
B27	CS4 - HEA140	0,000	NC16	-1,288	0,000	9,956	<b>0,000</b>	-16,741	0,000
B27	CS4 - HEA140	0,000	NC18	-1,288	0,000	-9,956	0,000	<b>16,810</b>	0,000
B28	CS4 - HEA140	0,000	NC1	<b>-1,679</b>	0,000	0,000	0,000	-0,002	0,000
B28	CS4 - HEA140	0,780	NC15	<b>-0,925</b>	0,000	9,955	0,000	-1,565	0,000
B28	CS4 - HEA140	0,000	NC5	-1,493	<b>-0,004</b>	-3,827	0,002	3,674	<b>0,003</b>
B28	CS4 - HEA140	0,000	NC3	-1,493	<b>0,004</b>	-6,126	<b>-0,003</b>	5,894	<b>-0,003</b>
B28	CS4 - HEA140	0,000	NC9	-1,468	0,000	<b>-9,957</b>	0,000	9,198	0,000
B28	CS4 - HEA140	0,000	NC7	-1,468	0,000	<b>9,957</b>	0,000	-9,322	0,000
B28	CS4 - HEA140	0,000	NC14	-1,119	-0,003	-3,827	<b>0,002</b>	3,678	0,002
B28	CS4 - HEA140	0,000	NC16	-1,095	0,000	9,956	0,000	<b>-9,331</b>	0,000
B28	CS4 - HEA140	0,000	NC18	-1,095	0,000	-9,956	0,000	<b>9,218</b>	0,000
B29	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,018	0,000
B29	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	9,955	0,000	-0,129	0,000
B29	CS4 - HEA140	0,000	NC5	-1,751	<b>-0,004</b>	-3,827	0,000	6,444	<b>0,006</b>
B29	CS4 - HEA140	0,000	NC3	-1,751	<b>0,004</b>	-4,976	<b>0,000</b>	8,231	<b>-0,006</b>
B29	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>-9,957</b>	0,000	<b>16,743</b>	0,000
B29	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>9,957</b>	0,000	-16,762	0,000
B29	CS4 - HEA140	0,000	NC16	-1,288	0,000	9,956	<b>0,000</b>	-16,755	0,000
B29	CS4 - HEA140	0,000	NC8	-1,726	0,000	9,957	0,000	<b>-16,762</b>	0,000
B41	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,026	0,000
B41	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	-9,955	0,000	-0,191	0,000
B41	CS4 - HEA140	0,000	NC3	-1,751	<b>-0,004</b>	3,827	0,000	-6,239	<b>0,006</b>
B41	CS4 - HEA140	0,000	NC5	-1,751	<b>0,004</b>	6,631	-0,001	-10,587	<b>-0,006</b>



Staafl	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B41	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>-9,957</b>	0,000	16,405	0,000
B41	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>9,957</b>	0,000	-16,423	0,000
B41	CS4 - HEA140	0,000	NC13	-1,313	0,003	6,631	<b>-0,001</b>	-10,577	-0,005
B41	CS4 - HEA140	0,000	NC4	-1,751	-0,004	3,827	<b>0,000</b>	-6,238	0,006
B41	CS4 - HEA140	0,000	NC10	-1,726	0,000	9,957	0,000	<b>-16,430</b>	0,000
B41	CS4 - HEA140	0,000	NC15	-1,288	0,000	-9,956	0,000	<b>16,435</b>	0,000
B42	CS4 - HEA140	0,000	NC1	<b>-1,679</b>	0,000	0,000	0,000	0,024	0,000
B42	CS4 - HEA140	0,780	NC15	<b>-0,925</b>	0,000	-9,955	0,000	1,146	0,000
B42	CS4 - HEA140	0,000	NC3	-1,493	<b>-0,004</b>	3,827	-0,001	-3,435	<b>0,003</b>
B42	CS4 - HEA140	0,000	NC5	-1,493	<b>0,004</b>	6,126	0,002	-5,491	<b>-0,003</b>
B42	CS4 - HEA140	0,000	NC7	-1,468	0,000	<b>-9,957</b>	0,000	8,916	0,000
B42	CS4 - HEA140	0,000	NC9	-1,468	0,000	<b>9,957</b>	0,000	-8,686	0,000
B42	CS4 - HEA140	0,000	NC12	-1,119	-0,003	3,827	<b>-0,001</b>	-3,466	0,002
B42	CS4 - HEA140	0,000	NC6	-1,493	0,004	6,126	<b>0,002</b>	-5,492	-0,003
B42	CS4 - HEA140	0,000	NC18	-1,095	0,000	9,956	0,000	<b>-8,803</b>	0,000
B42	CS4 - HEA140	0,000	NC8	-1,468	0,000	-9,957	0,000	<b>8,917</b>	0,000
B43	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	0,008	0,000
B43	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	-9,955	0,000	0,646	0,000
B43	CS4 - HEA140	0,000	NC3	-1,751	<b>-0,004</b>	3,827	<b>0,000</b>	-6,484	<b>0,006</b>
B43	CS4 - HEA140	0,000	NC5	-1,751	<b>0,004</b>	4,976	0,000	-8,316	<b>-0,006</b>
B43	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>-9,957</b>	0,000	<b>17,287</b>	0,000
B43	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>9,957</b>	0,000	<b>-16,956</b>	0,000
B43	CS4 - HEA140	0,000	NC14	-1,313	0,003	4,976	<b>0,000</b>	-8,356	-0,005
B48	CS4 - HEA140	0,000	NC1	<b>-3,910</b>	0,000	0,000	0,000	-0,053	-0,055
B48	CS4 - HEA140	2,560	NC15	<b>-0,462</b>	0,000	4,978	0,000	0,596	0,000
B48	CS4 - HEA140	0,000	NC5	-3,465	<b>-4,477</b>	<b>-12,466</b>	-0,001	14,868	2,672
B48	CS4 - HEA140	0,000	NC7	-3,444	<b>6,073</b>	<b>12,993</b>	0,001	-14,299	-2,787
B48	CS4 - HEA140	0,000	NC6	-3,465	-4,477	-12,466	<b>-0,001</b>	14,861	2,656
B48	CS4 - HEA140	0,000	NC11	-2,600	2,800	-5,722	<b>0,002</b>	5,849	-1,810
B48	CS4 - HEA140	0,000	NC8	-3,444	6,073	12,993	0,001	<b>-14,302</b>	<b>-2,790</b>
B48	CS4 - HEA140	0,000	NC13	-2,596	-4,475	-12,466	-0,001	<b>14,902</b>	<b>2,676</b>
B51	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	0,047	0,000
B51	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,340	0,000	-0,095	0,000
B51	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-21,205	<b>0,003</b>	24,819	<b>0,014</b>
B51	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-13,724	<b>-0,001</b>	17,115	<b>-0,014</b>
B51	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,921</b>	0,000	<b>38,859</b>	0,000
B51	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,783</b>	0,000	-40,195	0,000
B51	CS6 - HEA140	0,000	NC12	-2,830	0,000	28,781	0,000	<b>-40,207</b>	0,000
B58	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	-0,081	0,000
B58	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,340	0,000	0,517	0,000
B58	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-25,928	<b>-0,002</b>	28,845	<b>0,014</b>
B58	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-13,724	<b>0,001</b>	16,235	<b>-0,014</b>
B58	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,921</b>	0,000	38,331	0,000
B58	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,783</b>	0,000	-39,206	0,000
B58	CS6 - HEA140	0,000	NC4	-3,797	0,000	28,783	0,000	<b>-39,207</b>	0,000
B58	CS6 - HEA140	0,000	NC13	-2,835	0,000	-26,919	0,000	<b>38,386</b>	0,000
B63	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	0,187	0,000
B63	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,940	0,000	-0,425	0,000
B63	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	<b>9,427</b>	0,000	-4,998	<b>0,002</b>
B63	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,684	<b>-0,002</b>
B63	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,942</b>	0,000	4,180	0,000
B63	CS19 - HEA100	0,000	NC16	-1,354	-0,003	9,427	<b>-0,001</b>	<b>-5,121</b>	0,002
B63	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>0,000</b>	-2,942	-0,002
B63	CS19 - HEA100	0,000	NC6	-1,783	0,000	-8,942	0,000	<b>4,191</b>	0,000
B64	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	-0,151	0,000
B64	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,940	0,000	0,232	0,000
B64	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	<b>8,937</b>	0,000	<b>-4,515</b>	<b>0,002</b>
B64	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,600	<b>-0,002</b>
B64	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,942</b>	0,000	4,750	0,000
B64	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>-0,001</b>	-2,430	-0,002
B64	CS19 - HEA100	0,000	NC16	-1,354	-0,003	8,937	<b>0,000</b>	-4,432	0,002
B64	CS19 - HEA100	0,000	NC14	-1,331	0,000	-8,940	0,000	<b>4,798</b>	0,000
B65	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	0,091	0,000
B65	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,940	0,000	-0,223	0,000
B65	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	<b>7,181</b>	-0,001	-3,906	<b>0,002</b>
B65	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,921	<b>-0,002</b>
B65	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,942</b>	0,000	4,378	0,000
B65	CS19 - HEA100	0,000	NC15	-1,354	-0,003	7,181	<b>-0,001</b>	<b>-3,975</b>	0,002
B65	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>0,001</b>	-3,021	-0,002
B65	CS19 - HEA100	0,000	NC6	-1,783	0,000	-8,942	0,000	<b>4,378</b>	0,000
B153	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	0,039	0,000
B153	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,340	0,000	0,044	0,000
B153	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-17,549	-0,001	18,312	<b>0,014</b>
B153	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-13,724	0,000	16,699	<b>-0,014</b>
B153	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,921</b>	0,000	39,069	0,000
B153	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,783</b>	0,000	-39,868	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B153	CS6 - HEA140	0,000	NC15	-2,902	-0,007	-17,549	<b>-0,001</b>	18,296	0,011
B153	CS6 - HEA140	0,000	NC18	-2,902	0,007	-13,724	<b>0,000</b>	16,618	-0,011
B153	CS6 - HEA140	0,000	NC12	-2,830	0,000	28,781	0,000	<b>-39,892</b>	0,000
B153	CS6 - HEA140	0,000	NC6	-3,802	0,000	-26,921	0,000	<b>39,069</b>	0,000
B247	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	-0,053	0,000
B247	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,341	0,000	0,068	0,000
B247	CS6 - HEA140	0,000	NC7	-3,870	<b>-0,010</b>	-17,551	-0,001	18,230	<b>0,014</b>
B247	CS6 - HEA140	0,000	NC9	-3,870	<b>0,010</b>	-13,726	<b>0,001</b>	16,468	<b>-0,014</b>
B247	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,924</b>	0,000	38,992	0,000
B247	CS6 - HEA140	0,000	NC3	-3,798	0,000	<b>28,787</b>	0,000	<b>-39,882</b>	0,000
B247	CS6 - HEA140	0,000	NC8	-3,870	-0,010	-17,551	<b>-0,001</b>	18,230	0,014
B247	CS6 - HEA140	0,000	NC14	-2,835	0,000	-26,922	0,000	<b>39,016</b>	0,000
B252	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	-0,183	0,000
B252	CS19 - HEA100	0,510	NC13	<b>-1,257</b>	0,000	-8,941	0,000	0,129	0,000
B252	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	5,425	0,000	-2,621	<b>0,002</b>
B252	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,864	<b>-0,002</b>
B252	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,943</b>	0,000	4,596	0,000
B252	CS19 - HEA100	0,000	NC3	-1,791	0,000	<b>5,592</b>	0,000	<b>-3,110</b>	0,000
B252	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>0,000</b>	-2,590	-0,002
B252	CS19 - HEA100	0,000	NC16	-1,354	-0,003	5,425	<b>0,001</b>	-2,540	0,002
B252	CS19 - HEA100	0,000	NC14	-1,332	0,000	-8,942	0,000	<b>4,694</b>	0,000
B254	CS52 - HEB260	0,000	NC2	<b>-65,470</b>	<b>-170,283</b>	-6,833	<b>0,261</b>	0,155	<b>134,488</b>
B254	CS52 - HEB260	0,790	NC16	<b>44,798</b>	-114,285	-19,173	0,161	-15,305	-0,260
B254	CS52 - HEB260	0,000	NC18	43,096	<b>91,113</b>	-13,437	-0,039	-0,143	<b>-71,772</b>
B254	CS52 - HEB260	0,000	NC7	29,191	-154,139	<b>-21,027</b>	0,240	-0,123	121,505
B254	CS52 - HEB260	0,000	NC12	4,233	-26,874	<b>9,267</b>	-0,026	-0,010	21,210
B254	CS52 - HEB260	0,000	NC17	14,385	58,397	-9,365	<b>-0,040</b>	-0,083	-45,902
B254	CS52 - HEB260	0,790	NC7	30,056	-154,137	-21,027	0,240	<b>-16,735</b>	-0,265
B254	CS52 - HEB260	0,790	NC12	4,881	-26,874	9,265	-0,026	<b>7,310</b>	-0,020
B331	CS6 - HEA140	0,000	NC1	<b>-4,019</b>	0,000	0,000	0,000	0,083	-0,016
B331	CS6 - HEA140	2,560	NC11	<b>-1,046</b>	-4,328	6,171	-0,004	-0,428	-1,433
B331	CS6 - HEA140	0,000	NC7	-3,541	<b>-12,331</b>	-8,775	-0,001	8,824	13,141
B331	CS6 - HEA140	0,000	NC9	-3,541	<b>12,518</b>	-13,240	0,000	17,305	-13,042
B331	CS6 - HEA140	0,000	NC5	-3,539	-4,961	<b>-13,465</b>	0,004	<b>20,434</b>	4,856
B331	CS6 - HEA140	0,000	NC3	-3,536	-11,110	<b>14,396</b>	-0,007	-20,541	11,711
B331	CS6 - HEA140	0,000	NC11	-2,643	-11,110	14,394	<b>-0,007</b>	<b>-20,568</b>	11,703
B331	CS6 - HEA140	0,000	NC6	-3,539	-4,961	-13,465	<b>0,004</b>	20,434	4,856
B331	CS6 - HEA140	0,000	NC10	-3,541	12,518	-13,240	0,000	17,403	<b>-13,049</b>
B331	CS6 - HEA140	0,000	NC16	-2,648	-12,329	-8,775	-0,001	8,884	<b>13,143</b>
B334	CS6 - HEA140	0,000	NC1	<b>-4,352</b>	0,000	0,000	0,000	-0,078	0,000
B334	CS6 - HEA140	2,560	NC11	<b>-1,141</b>	0,000	12,338	0,000	0,325	0,000
B334	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-17,547	0,001	18,988	<b>0,014</b>
B334	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-19,150	0,000	24,632	<b>-0,014</b>
B334	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,918</b>	0,000	38,479	0,000
B334	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,780</b>	0,000	-39,621	0,000
B334	CS6 - HEA140	0,000	NC12	-2,830	0,000	28,778	<b>0,000</b>	-39,584	0,000
B334	CS6 - HEA140	0,000	NC8	-3,869	-0,010	-17,547	<b>0,001</b>	18,988	0,014
B334	CS6 - HEA140	0,000	NC4	-3,797	0,000	28,780	0,000	<b>-39,621</b>	0,000
B334	CS6 - HEA140	0,000	NC13	-2,834	0,000	-26,915	0,000	<b>38,511</b>	0,000
B341	CS6 - HEA140	0,000	NC1	<b>-4,352</b>	0,000	0,000	0,000	0,019	0,000
B341	CS6 - HEA140	2,560	NC11	<b>-1,141</b>	0,000	12,338	0,000	0,000	0,000
B341	CS6 - HEA140	0,000	NC7	-3,869	<b>-0,010</b>	-17,547	0,002	19,432	<b>0,014</b>
B341	CS6 - HEA140	0,000	NC9	-3,869	<b>0,010</b>	-13,991	<b>-0,001</b>	17,318	<b>-0,014</b>
B341	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,918</b>	0,000	38,708	0,000
B341	CS6 - HEA140	0,000	NC3	-3,797	0,000	<b>28,780</b>	0,000	-39,977	0,000
B341	CS6 - HEA140	0,000	NC8	-3,869	-0,010	-17,547	<b>0,002</b>	19,433	0,014
B341	CS6 - HEA140	0,000	NC11	-2,830	0,000	28,778	0,000	<b>-39,990</b>	0,000
B341	CS6 - HEA140	0,000	NC6	-3,802	0,000	-26,918	0,000	<b>38,709</b>	0,000
B346	CS52 - HEB260	0,000	NC2	<b>-81,943</b>	-0,652	17,192	0,047	-0,003	0,593
B346	CS52 - HEB260	0,790	NC18	<b>41,166</b>	85,695	2,222	-0,122	1,845	0,187
B346	CS52 - HEB260	0,000	NC8	21,859	<b>-79,880</b>	4,551	0,197	0,045	<b>63,052</b>
B346	CS52 - HEB260	0,000	NC9	-6,395	<b>95,338</b>	2,814	<b>-0,203</b>	0,091	<b>-75,139</b>
B346	CS52 - HEB260	0,000	NC14	10,497	10,230	<b>-5,186</b>	-0,001	0,086	-8,012
B346	CS52 - HEB260	0,000	NC3	-19,614	-8,108	<b>25,676</b>	0,077	-0,027	6,464
B346	CS52 - HEB260	0,000	NC7	21,210	-79,830	4,579	<b>0,200</b>	0,044	63,011
B346	CS52 - HEB260	0,790	NC14	11,146	10,230	-5,184	-0,001	<b>-4,010</b>	0,070
B346	CS52 - HEB260	0,790	NC3	-18,750	-8,108	25,674	0,077	<b>20,256</b>	0,059
B347	CS52 - HEB260	0,000	NC2	<b>-75,835</b>	<b>172,870</b>	-0,409	<b>-0,138</b>	0,199	<b>-136,099</b>
B347	CS52 - HEB260	0,790	NC16	<b>53,035</b>	-55,846	-27,010	0,016	-21,593	-0,343
B347	CS52 - HEB260	0,000	NC16	52,387	<b>-55,848</b>	-27,010	0,016	-0,255	<b>43,777</b>
B347	CS52 - HEB260	0,790	NC3	-0,373	50,908	<b>-34,435</b>	-0,068	<b>-27,152</b>	0,011
B347	CS52 - HEB260	0,000	NC17	13,330	99,375	<b>17,300</b>	-0,016	-0,013	-78,422
B347	CS52 - HEB260	0,000	NC14	10,352	49,506	12,104	<b>0,065</b>	-0,090	-39,168
B347	CS52 - HEB260	0,790	NC17	13,978	99,374	17,300	-0,016	<b>13,654</b>	0,084
B528	CS4 - HEA140	0,000	NC1	<b>-1,679</b>	0,000	0,000	0,000	-0,007	0,000
B528	CS4 - HEA140	0,780	NC15	<b>-0,925</b>	0,000	9,955	0,000	-1,105	0,000



Stauf	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B528	CS4 - HEA140	0,000	NC5	-1,493	<b>-0,004</b>	3,898	-0,001	-3,387	<b>0,003</b>
B528	CS4 - HEA140	0,000	NC3	-1,493	<b>0,004</b>	6,126	0,001	-5,334	<b>-0,003</b>
B528	CS4 - HEA140	0,000	NC9	-1,468	0,000	<b>-9,957</b>	0,000	8,812	0,000
B528	CS4 - HEA140	0,000	NC7	-1,468	0,000	<b>9,957</b>	0,000	-8,864	0,000
B528	CS4 - HEA140	0,000	NC6	-1,493	-0,004	3,898	<b>-0,001</b>	-3,387	0,003
B528	CS4 - HEA140	0,000	NC4	-1,493	0,004	6,126	<b>0,001</b>	-5,334	-0,003
B528	CS4 - HEA140	0,000	NC16	-1,095	0,000	9,956	0,000	<b>-8,871</b>	0,000
B528	CS4 - HEA140	0,000	NC18	-1,095	0,000	-9,956	0,000	<b>8,852</b>	0,000
B529	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,006	0,000
B529	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	9,955	0,000	0,076	0,000
B529	CS4 - HEA140	0,000	NC5	-1,751	<b>-0,004</b>	3,898	<b>0,000</b>	-6,460	<b>0,006</b>
B529	CS4 - HEA140	0,000	NC3	-1,751	<b>0,004</b>	4,976	-0,001	-8,100	<b>-0,006</b>
B529	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>-9,957</b>	0,000	<b>16,512</b>	0,000
B529	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>9,957</b>	0,000	-16,551	0,000
B529	CS4 - HEA140	0,000	NC12	-1,313	0,003	4,976	<b>-0,001</b>	-8,089	-0,005
B529	CS4 - HEA140	0,000	NC8	-1,726	0,000	9,957	0,000	<b>-16,551</b>	0,000
B533	CS39 - HEA140	0,000	NC1	<b>-3,685</b>	0,000	0,000	0,000	0,082	0,000
B533	CS39 - HEA140	2,560	NC15	<b>-0,925</b>	0,000	9,955	0,000	1,768	0,000
B533	CS39 - HEA140	0,000	NC5	-3,275	<b>-0,008</b>	9,922	0,004	-11,622	<b>0,012</b>
B533	CS39 - HEA140	0,000	NC3	-3,275	<b>0,008</b>	9,852	-0,003	-11,522	<b>-0,012</b>
B533	CS39 - HEA140	0,000	NC9	-3,213	0,000	<b>-25,027</b>	0,000	<b>29,779</b>	0,000
B533	CS39 - HEA140	0,000	NC7	-3,214	0,000	<b>24,652</b>	0,000	-29,596	0,000
B533	CS39 - HEA140	0,000	NC4	-3,275	0,008	9,852	<b>-0,003</b>	-11,522	-0,012
B533	CS39 - HEA140	0,000	NC6	-3,275	-0,008	9,922	<b>0,004</b>	-11,621	0,012
B533	CS39 - HEA140	0,000	NC16	-2,395	0,000	24,650	0,000	<b>-29,602</b>	0,000
B534	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,006	0,000
B534	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	9,955	0,000	-0,411	0,000
B534	CS4 - HEA140	0,000	NC5	-1,751	<b>-0,004</b>	5,012	0,000	-8,487	<b>0,006</b>
B534	CS4 - HEA140	0,000	NC3	-1,751	<b>0,004</b>	3,827	0,001	-6,600	<b>-0,006</b>
B534	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>-9,957</b>	0,000	<b>17,084</b>	0,000
B534	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>9,957</b>	0,000	<b>-17,044</b>	0,000
B534	CS4 - HEA140	0,000	NC6	-1,751	-0,004	5,012	<b>0,000</b>	-8,487	0,006
B534	CS4 - HEA140	0,000	NC11	-1,313	0,003	3,827	<b>0,001</b>	-6,605	-0,005
B536	CS4 - HEA140	0,000	NC1	<b>-1,679</b>	0,000	0,000	0,000	-0,020	0,000
B536	CS4 - HEA140	0,780	NC15	<b>-0,925</b>	0,000	9,955	0,000	-1,177	0,000
B536	CS4 - HEA140	0,000	NC5	-1,493	<b>-0,004</b>	6,126	<b>-0,002</b>	-5,521	<b>0,003</b>
B536	CS4 - HEA140	0,000	NC3	-1,493	<b>0,004</b>	3,827	<b>0,001</b>	-3,446	<b>-0,003</b>
B536	CS4 - HEA140	0,000	NC9	-1,468	0,000	<b>-9,957</b>	0,000	8,978	0,000
B536	CS4 - HEA140	0,000	NC7	-1,468	0,000	<b>9,957</b>	0,000	<b>-8,949</b>	0,000
B536	CS4 - HEA140	0,000	NC18	-1,095	0,000	-9,956	0,000	<b>9,013</b>	0,000
B537	CS4 - HEA140	0,000	NC1	<b>-1,970</b>	0,000	0,000	0,000	-0,054	0,000
B537	CS4 - HEA140	1,670	NC15	<b>-0,925</b>	0,000	9,955	0,000	0,068	0,000
B537	CS4 - HEA140	0,000	NC5	-1,751	<b>-0,004</b>	6,631	<b>0,000</b>	-11,193	<b>0,006</b>
B537	CS4 - HEA140	0,000	NC3	-1,751	<b>0,004</b>	3,827	<b>0,000</b>	-6,480	<b>-0,006</b>
B537	CS4 - HEA140	0,000	NC9	-1,726	0,000	<b>-9,957</b>	0,000	16,618	0,000
B537	CS4 - HEA140	0,000	NC7	-1,726	0,000	<b>9,957</b>	0,000	<b>-16,585</b>	0,000
B537	CS4 - HEA140	0,000	NC18	-1,288	0,000	-9,956	0,000	<b>16,657</b>	0,000
B539	CS4 - HEA140	0,000	NC1	<b>-3,910</b>	0,000	0,000	0,000	0,191	0,241
B539	CS4 - HEA140	2,560	NC15	<b>-0,462</b>	0,000	4,978	0,000	0,566	0,000
B539	CS4 - HEA140	0,000	NC5	-3,465	<b>-4,477</b>	13,143	<b>0,004</b>	-13,744	<b>2,473</b>
B539	CS4 - HEA140	0,000	NC9	-3,437	<b>6,036</b>	<b>-15,687</b>	-0,001	<b>15,690</b>	-2,636
B539	CS4 - HEA140	0,000	NC7	-3,437	2,712	<b>15,421</b>	-0,001	-15,702	-1,945
B539	CS4 - HEA140	0,000	NC3	-3,469	2,802	6,193	<b>-0,003</b>	-5,821	-1,495
B539	CS4 - HEA140	0,000	NC16	-2,568	2,712	15,419	-0,002	<b>-15,796</b>	-2,065
B539	CS4 - HEA140	0,000	NC18	-2,568	6,036	-15,684	0,000	15,547	<b>-2,981</b>
B1586	CS6 - HEA140	0,000	NC1	<b>-4,353</b>	0,000	0,000	0,000	-0,014	0,000
B1586	CS6 - HEA140	2,560	NC11	<b>-1,142</b>	0,000	12,341	0,000	0,036	0,000
B1586	CS6 - HEA140	0,000	NC7	-3,870	<b>-0,010</b>	-17,551	<b>0,000</b>	18,641	<b>0,014</b>
B1586	CS6 - HEA140	0,000	NC9	-3,870	<b>0,010</b>	-13,726	0,000	16,718	<b>-0,014</b>
B1586	CS6 - HEA140	0,000	NC5	-3,802	0,000	<b>-26,924</b>	0,000	39,019	0,000
B1586	CS6 - HEA140	0,000	NC3	-3,798	0,000	<b>28,787</b>	0,000	-39,919	0,000
B1586	CS6 - HEA140	0,000	NC6	-3,802	0,000	-26,924	<b>0,000</b>	39,018	0,000
B1586	CS6 - HEA140	0,000	NC4	-3,798	0,000	28,787	0,000	<b>-39,920</b>	0,000
B1586	CS6 - HEA140	0,000	NC13	-2,835	0,000	-26,922	0,000	<b>39,026</b>	0,000
B1590	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	0,171	0,000
B1590	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,940	0,000	-0,245	0,000
B1590	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	5,425	-0,001	-3,061	<b>0,002</b>
B1590	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,741	<b>-0,002</b>
B1590	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,942</b>	0,000	<b>4,413</b>	0,000
B1590	CS19 - HEA100	0,000	NC3	-1,791	0,000	<b>5,592</b>	0,000	-2,632	0,000
B1590	CS19 - HEA100	0,000	NC16	-1,354	-0,003	5,425	<b>-0,001</b>	<b>-3,133</b>	0,002
B1590	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>0,001</b>	-3,032	-0,002
B2237	CS19 - HEA100	0,000	NC1	<b>-2,031</b>	0,000	0,000	0,000	-0,072	0,000
B2237	CS19 - HEA100	0,510	NC13	<b>-1,257</b>	0,000	-8,941	0,000	0,164	0,000
B2237	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	5,425	0,001	-2,527	<b>0,002</b>
B2237	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	5,425	0,000	-2,645	<b>-0,002</b>



Staaft	css	dx [m]	BG	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]
B2237	CS19 - HEA100	0,000	NC5	-1,783	0,000	<b>-8,943</b>	0,000	4,681	0,000
B2237	CS19 - HEA100	0,000	NC3	-1,791	0,000	<b>5,592</b>	0,000	-2,827	0,000
B2237	CS19 - HEA100	0,000	NC18	-1,354	0,003	5,425	<b>-0,001</b>	-2,524	-0,002
B2237	CS19 - HEA100	0,000	NC16	-1,354	-0,003	5,425	<b>0,001</b>	-2,478	0,002
B2237	CS19 - HEA100	0,000	NC4	-1,791	0,000	5,592	0,000	<b>-2,835</b>	0,000
B2237	CS19 - HEA100	0,000	NC13	-1,332	0,000	-8,942	0,000	<b>4,724</b>	0,000
B2238	CS19 - HEA100	0,000	NC1	<b>-2,030</b>	0,000	0,000	0,000	-0,050	0,000
B2238	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,939	0,000	-0,252	0,000
B2238	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	5,424	0,000	-2,895	<b>0,002</b>
B2238	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	<b>7,180</b>	0,001	-3,938	<b>-0,002</b>
B2238	CS19 - HEA100	0,000	NC5	-1,782	0,000	<b>-8,941</b>	0,000	4,285	0,000
B2238	CS19 - HEA100	0,000	NC8	-1,805	-0,005	5,424	<b>0,000</b>	-2,896	0,002
B2238	CS19 - HEA100	0,000	NC10	-1,805	0,005	7,180	<b>0,001</b>	<b>-3,962</b>	-0,002
B2238	CS19 - HEA100	0,000	NC14	-1,331	0,000	-8,939	0,000	<b>4,320</b>	0,000
B2239	CS19 - HEA100	0,000	NC1	<b>-2,030</b>	0,000	0,000	0,000	-0,180	0,000
B2239	CS19 - HEA100	0,510	NC13	<b>-1,256</b>	0,000	-8,939	0,000	0,172	0,000
B2239	CS19 - HEA100	0,000	NC7	-1,805	<b>-0,005</b>	5,424	0,002	-2,086	<b>0,002</b>
B2239	CS19 - HEA100	0,000	NC9	-1,805	<b>0,005</b>	<b>9,426</b>	0,000	<b>-4,980</b>	<b>-0,002</b>
B2239	CS19 - HEA100	0,000	NC5	-1,782	0,000	<b>-8,941</b>	0,000	4,629	0,000
B2239	CS19 - HEA100	0,000	NC18	-1,354	0,003	9,426	<b>0,000</b>	-4,656	-0,002
B2239	CS19 - HEA100	0,000	NC16	-1,354	-0,003	5,424	<b>0,002</b>	-1,998	0,002
B2239	CS19 - HEA100	0,000	NC14	-1,331	0,000	-8,939	0,000	<b>4,732</b>	0,000
B2274	CS4 - HEA140	4,250	NC2	<b>-26,692</b>	2,164	0,010	0,000	0,009	<b>1,311</b>
B2274	CS4 - HEA140	1,670	NC10	<b>5,783</b>	-0,606	-20,110	-0,007	18,233	0,001
B2274	CS4 - HEA140	4,250	NC2	-0,325	<b>-3,747</b>	-0,026	0,000	0,009	1,311
B2274	CS4 - HEA140	4,250	NC18	3,936	<b>5,339</b>	-1,020	-0,006	0,357	-1,869
B2274	CS4 - HEA140	1,670	NC9	2,695	1,448	<b>-20,174</b>	<b>-0,007</b>	<b>18,243</b>	0,000
B2274	CS4 - HEA140	1,670	NC7	5,154	-0,090	<b>19,715</b>	0,006	<b>-18,091</b>	0,000
B2274	CS4 - HEA140	3,500	NC11	0,076	0,525	2,456	<b>0,017</b>	-1,984	-0,237
B2274	CS4 - HEA140	4,250	NC18	4,946	-1,822	-3,292	-0,007	0,355	<b>-1,869</b>

### 13.5. EC-EN 1993 UGT: staalcontrole

Niet-lineaire berekening

Klasse: ULS-NL

Assenstelsel: Hoofd

Extreme 1D: Element

Selectie: Benoemde selectie - attic

#### Algehele eenheidscontrole

Naam	dx [m]	BG	Doorsnede	Materiaal	UCOverall [-]	UCSec [-]	UCStab [-]
B23	0,000	NC7	CS4 - HEA140	S 235	<b>0,99</b>	0,94	0,99
B24	0,000	NC4	CS6 - HEA140	S 355	<b>0,70</b>	0,65	0,70
B25	0,000	NC8	CS39 - HEA140	S 355	<b>0,87</b>	0,46	0,87
B27	0,000	NC10	CS4 - HEA140	S 235	<b>0,43</b>	0,41	0,43
B28	0,000	NC16	CS4 - HEA140	S 235	<b>0,23</b>	0,23	0,21
B29	0,000	NC8	CS4 - HEA140	S 235	<b>0,43</b>	0,41	0,43
B41	0,000	NC10	CS4 - HEA140	S 235	<b>0,43</b>	0,40	0,43
B42	0,000	NC8	CS4 - HEA140	S 235	<b>0,22</b>	0,22	0,20
B43	0,000	NC7	CS4 - HEA140	S 235	<b>0,44</b>	0,42	0,44
B48	0,000	NC5	CS4 - HEA140	S 235	<b>0,44</b>	0,37	0,44
B51	0,000	NC4	CS6 - HEA140	S 355	<b>0,71</b>	0,65	0,71
B58	0,000	NC4	CS6 - HEA140	S 355	<b>0,69</b>	0,64	0,69
B63	0,000	NC7	CS19 - HEA100	S 235	<b>0,49</b>	0,26	0,49
B64	0,000	NC7	CS19 - HEA100	S 235	<b>0,45</b>	0,23	0,45
B65	0,000	NC6	CS19 - HEA100	S 235	<b>0,43</b>	0,22	0,43
B153	0,000	NC4	CS6 - HEA140	S 355	<b>0,70</b>	0,65	0,70
B247	0,000	NC3	CS6 - HEA140	S 355	<b>0,70</b>	0,65	0,70
B252	0,000	NC6	CS19 - HEA100	S 235	<b>0,41</b>	0,24	0,41
B254	0,000	NC2	CS52 - HEB260	S 235	<b>0,95</b>	0,95	0,40
B331	0,000	NC3	CS6 - HEA140	S 355	<b>0,63</b>	0,50	0,63
B334	0,000	NC4	CS6 - HEA140	S 355	<b>0,69</b>	0,64	0,69
B341	0,000	NC3	CS6 - HEA140	S 355	<b>0,70</b>	0,65	0,70
B346	0,000	NC9	CS52 - HEB260	S 235	<b>0,53</b>	0,53	0,21
B347	0,000	NC2	CS52 - HEB260	S 235	<b>0,96</b>	0,96	0,41
B528	0,000	NC16	CS4 - HEA140	S 235	<b>0,22</b>	0,22	0,20
B529	0,000	NC8	CS4 - HEA140	S 235	<b>0,42</b>	0,41	0,42
B533	0,000	NC9	CS39 - HEA140	S 355	<b>0,92</b>	0,48	0,92
B534	0,000	NC9	CS4 - HEA140	S 235	<b>0,43</b>	0,42	0,43
B536	0,000	NC18	CS4 - HEA140	S 235	<b>0,22</b>	0,22	0,20
B537	0,000	NC18	CS4 - HEA140	S 235	<b>0,42</b>	0,41	0,42
B539	0,000	NC18	CS4 - HEA140	S 235	<b>0,73</b>	0,38	0,73
B1586	0,000	NC4	CS6 - HEA140	S 355	<b>0,70</b>	0,65	0,70
B1590	0,000	NC5	CS19 - HEA100	S 235	<b>0,44</b>	0,23	0,44
B2237	0,000	NC13	CS19 - HEA100	S 235	<b>0,24</b>	0,24	0,22
B2238	0,000	NC14	CS19 - HEA100	S 235	<b>0,22</b>	0,22	0,20



Naam	dx [m]	BG	Doorsnede	Materiaal	UC <sub>Overall</sub> [-]	UC <sub>Sec</sub> [-]	UC <sub>Stab</sub> [-]
B2239	0,000	NC9	CS19 - HEA100	S 235	<b>0,26</b>	0,26	0,23
B2274	1,670+	NC9	CS4 - HEA140	S 235	<b>0,47</b>	0,45	0,47



**POS.4500 Fundering**

Effectieve hoek van inwendige wrijving = 30 °  
 Materiaalfactor = 1,1  
 Vert. afstand van tot aanlegniveau = 0,4 m  
 Repr. volumieke gewicht grond = 20 KN/m³  
 N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc. [ - ]	Wrijv. [ - ]
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m²]		
<b>Sn1/N1</b>	<b>2,00</b>	<b>2,00</b>	<b>1,00</b>	-19,9	112,1	0,0	15,1	15,1	0,0	0,1	0,1	0,001	0,135	32	<b>0,068</b>	<b>0,39</b>
	2,00	2,00	1,00	32,9	164,9	0,0	6,4	6,4	0,0	0,1	0,1	0,000	0,039	43	<b>0,019</b>	<b>0,11</b>
	2,00	2,00	1,00	-82,3	49,7	0,0	15,4	15,4	0,0	0,0	0,0	0,000	0,309	18	<b>0,155</b>	<b>0,88</b>
	2,00	2,00	1,00	-19,8	112,2	0,0	15,1	15,1	0,0	0,1	0,1	0,001	0,135	32	<b>0,068</b>	<b>0,39</b>
	2,00	2,00	1,00	131,7	263,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	66	<b>0,000</b>	<b>0,00</b>
<b>Sn4/N11</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	-143,9	198,1	0,0	0,0	0,0	0,0	0,4	0,4	0,002	0,000	22	<b>0,001</b>	<b>0,01</b>
	3,00	3,00	1,20	90,8	432,8	0,0	0,0	0,0	0,0	0,2	0,3	0,001	0,000	48	<b>0,000</b>	<b>0,00</b>
	3,00	3,00	1,20	-312,6	29,4	0,0	0,8	0,9	0,0	0,0	0,0	0,000	0,032	3	<b>0,011</b>	<b>0,08</b>
	3,00	3,00	1,20	-316,1	25,9	0,0	0,8	1,0	0,0	0,0	0,0	0,000	0,037	3	<b>0,012</b>	<b>0,09</b>
	3,00	3,00	1,20	454,9	796,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	89	<b>0,000</b>	<b>0,00</b>
<b>Sn5/N13</b>	<b>2,00</b>	<b>2,00</b>	<b>1,00</b>	5,5	137,5	0,0	0,0	0,0	0,0	15,9	15,9	0,115	0,000	39	<b>0,058</b>	<b>0,33</b>
	2,00	2,00	1,00	-38,5	93,5	0,0	0,1	0,1	0,0	29,6	29,6	0,316	0,001	34	<b>0,158</b>	<b>0,90</b>
	2,00	2,00	1,00	-35,0	97,0	0,0	0,1	0,1	0,0	11,0	11,0	0,113	0,001	27	<b>0,057</b>	<b>0,32</b>
	2,00	2,00	1,00	71,7	203,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	51	<b>0,000</b>	<b>0,00</b>
<b>Sn6/N15</b>	<b>2,60</b>	<b>2,60</b>	<b>1,00</b>	-47,0	176,0	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	26	<b>0,000</b>	<b>0,00</b>
	2,60	2,60	1,00	-68,6	154,5	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	23	<b>0,000</b>	<b>0,00</b>
	2,60	2,60	1,00	-201,9	21,1	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,024	3	<b>0,009</b>	<b>0,07</b>
	2,60	2,60	1,00	-171,3	51,7	0,0	0,4	0,4	0,0	0,0	0,0	0,000	0,008	8	<b>0,003</b>	<b>0,02</b>
2,60	2,60	1,00	220,4	443,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	66	<b>0,000</b>	<b>0,00</b>	
<b>Sn7/N17</b>	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	-61,5	327,6	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	32	<b>0,000</b>	<b>0,00</b>
	3,20	3,20	1,20	-116,0	273,1	0,0	0,0	0,0	0,0	0,3	0,4	0,001	0,000	27	<b>0,000</b>	<b>0,00</b>
	3,20	3,20	1,20	-340,6	48,5	0,0	0,9	1,0	0,0	0,0	0,0	0,000	0,021	5	<b>0,007</b>	<b>0,05</b>
	3,20	3,20	1,20	-335,0	54,1	0,0	0,8	1,0	0,0	0,0	0,0	0,000	0,019	5	<b>0,006</b>	<b>0,04</b>
	3,20	3,20	1,20	453,6	842,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	82	<b>0,000</b>	<b>0,00</b>
<b>Sn8/N19</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	32,2	50,2	0,0	0,8	0,3	0,0	1,7	0,7	0,013	0,006	52	<b>0,015</b>	<b>0,11</b>
	1,00	1,00	0,40	39,4	57,4	0,0	0,6	0,2	0,0	2,0	0,8	0,014	0,004	60	<b>0,015</b>	<b>0,11</b>
	1,00	1,00	0,40	49,7	67,7	0,0	1,1	0,4	0,0	0,2	0,1	0,001	0,006	69	<b>0,006</b>	<b>0,05</b>
	1,00	1,00	0,40	1,4	19,4	0,0	1,6	0,7	0,0	0,0	0,0	0,001	0,034	21	<b>0,034</b>	<b>0,24</b>
	1,00	1,00	0,40	-10,0	8,0	0,0	0,8	0,3	0,0	0,1	0,0	0,005	0,041	9	<b>0,041</b>	<b>0,29</b>
	1,00	1,00	0,40	163,6	181,6	0,0	0,1	0,1	0,0	0,3	0,1	0,001	0,000	182	<b>0,001</b>	<b>0,01</b>
<b>Sn12/N33</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	3,9	21,9	0,0	0,9	0,4	0,0	1,0	0,4	0,019	0,017	24	<b>0,025</b>	<b>0,18</b>
	1,00	1,00	0,40	6,7	24,7	0,0	3,4	1,4	0,0	2,2	0,9	0,036	0,055	30	<b>0,066</b>	<b>0,47</b>
	1,00	1,00	0,40	13,4	31,4	0,0	2,8	1,1	0,0	0,8	0,3	0,011	0,035	35	<b>0,037</b>	<b>0,26</b>
	1,00	1,00	0,40	-1,7	16,3	0,0	0,8	0,3	0,0	1,0	0,4	0,024	0,020	18	<b>0,031</b>	<b>0,22</b>
	1,00	1,00	0,40	28,3	46,3	0,0	0,0	0,0	0,0	0,2	0,1	0,002	0,000	46	<b>0,002</b>	<b>0,01</b>
<b>Sn14/N40</b>	<b>1,20</b>	<b>1,20</b>	<b>0,40</b>	8,9	34,8	0,0	2,8	1,1	0,0	0,5	0,2	0,006	0,032	26	<b>0,027</b>	<b>0,24</b>
	1,20	1,20	0,40	-4,7	21,2	0,0	4,8	1,9	0,0	0,5	0,2	0,010	0,091	18	<b>0,076</b>	<b>0,65</b>
	1,20	1,20	0,40	-4,7	21,2	0,0	4,8	1,9	0,0	0,5	0,2	0,010	0,091	18	<b>0,076</b>	<b>0,65</b>
	1,20	1,20	0,40	30,5	56,5	0,0	13,0	5,2	0,0	0,1	0,1	0,001	0,092	46	<b>0,076</b>	<b>0,66</b>
	1,20	1,20	0,40	91,7	117,6	0,0	0,2	0,1	0,0	0,3	0,1	0,001	0,001	82	<b>0,001</b>	<b>0,01</b>
<b>Sn15/N45</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	163,6	181,6	0,0	0,1	0,0	0,0	0,9	0,4	0,002	0,000	182	<b>0,002</b>	<b>0,01</b>
	1,00	1,00	0,40	2,2	20,2	0,0	2,0	0,8	0,0	1,3	0,5	0,025	0,039	23	<b>0,046</b>	<b>0,33</b>
	1,00	1,00	0,40	51,5	69,5	0,0	1,2	0,5	0,0	0,8	0,3	0,005	0,007	71	<b>0,008</b>	<b>0,06</b>
	1,00	1,00	0,40	2,9	20,9	0,0	2,0	0,8	0,0	1,3	0,5	0,024	0,038	24	<b>0,045</b>	<b>0,32</b>
	1,00	1,00	0,40	-8,4	9,6	0,0	1,0	0,4	0,0	1,2	0,5	0,050	0,042	12	<b>0,065</b>	<b>0,46</b>



Effectieve hoek van inwendige wrijving = 30 °  
Materiaalfactor = 1,1  
Vert. afstand van tot aanlegniveau = 0,4 m  
Repr. volumieke gewicht grond = 20 KN/m³  
N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc.	Wrijv.
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m²]		
<b>Sn16/N47</b>	<b>2,20</b>	<b>2,20</b>	<b>1,00</b>	5,8	165,5	0,0	0,0	0,0	0,0	17,2	17,2	0,104	0,000	<b>38</b>	<b>0,047</b>	<b>0,30</b>
	2,20	2,20	1,00	-39,8	119,9	0,0	0,1	0,1	0,0	35,1	35,1	0,293	0,001	<b>34</b>	<b>0,133</b>	<b>0,84</b>
	2,20	2,20	1,00	-35,8	123,9	0,0	0,1	0,1	0,0	11,7	11,7	0,094	0,001	<b>28</b>	<b>0,043</b>	<b>0,27</b>
	2,20	2,20	1,00	72,4	232,1	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>48</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn17/N53</b>	<b>1,80</b>	<b>1,80</b>	<b>0,40</b>	-17,6	40,7	0,0	1,0	0,4	0,0	1,6	0,7	0,016	0,010	<b>13</b>	<b>0,010</b>	<b>0,13</b>
	1,80	1,80	0,40	173,9	232,2	0,0	0,1	0,0	0,0	1,5	0,6	0,003	0,000	<b>72</b>	<b>0,001</b>	<b>0,02</b>
	1,80	1,80	0,40	47,0	105,3	0,0	1,2	0,5	0,0	0,9	0,4	0,003	0,005	<b>33</b>	<b>0,003</b>	<b>0,04</b>
	1,80	1,80	0,40	-41,1	17,3	0,0	1,8	0,7	0,0	1,0	0,4	0,023	0,042	<b>6</b>	<b>0,027</b>	<b>0,34</b>
1,80	1,80	0,40	-41,3	17,0	0,0	1,8	0,7	0,0	1,0	0,4	0,024	0,042	<b>6</b>	<b>0,027</b>	<b>0,35</b>	
<b>Sn26/N162</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	162,1	180,1	0,0	0,2	0,1	0,0	1,7	0,7	0,004	0,000	<b>182</b>	<b>0,004</b>	<b>0,03</b>
	1,00	1,00	0,40	-7,6	10,4	0,0	0,6	0,2	0,0	1,9	0,7	0,071	0,023	<b>13</b>	<b>0,075</b>	<b>0,53</b>
	1,00	1,00	0,40	51,5	69,5	0,0	0,9	0,3	0,0	0,9	0,4	0,005	0,005	<b>71</b>	<b>0,007</b>	<b>0,05</b>
	1,00	1,00	0,40	4,6	22,6	0,0	1,3	0,5	0,0	1,9	0,7	0,033	0,022	<b>25</b>	<b>0,040</b>	<b>0,28</b>
<b>Sn29/N233</b>	<b>2,20</b>	<b>2,20</b>	<b>0,80</b>	5,7	141,2	0,0	0,0	0,0	0,0	17,3	13,8	0,098	0,000	<b>32</b>	<b>0,044</b>	<b>0,35</b>
	2,20	2,20	0,80	-38,4	97,2	0,0	0,1	0,1	0,0	31,7	25,4	0,261	0,001	<b>26</b>	<b>0,119</b>	<b>0,93</b>
	2,20	2,20	0,80	-39,0	96,5	0,0	0,1	0,1	0,0	31,7	25,4	0,263	0,001	<b>26</b>	<b>0,119</b>	<b>0,94</b>
	2,20	2,20	0,80	-35,7	99,8	0,0	0,1	0,1	0,0	11,8	9,4	0,094	0,001	<b>23</b>	<b>0,043</b>	<b>0,34</b>
2,20	2,20	0,80	74,1	209,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>43</b>	<b>0,000</b>	<b>0,00</b>	
<b>Sn35/N252</b>	<b>1,60</b>	<b>1,60</b>	<b>0,40</b>	194,2	240,3	0,0	0,3	0,1	0,0	8,4	3,4	0,014	0,001	<b>96</b>	<b>0,009</b>	<b>0,10</b>
	1,60	1,60	0,40	-18,4	27,7	0,0	0,8	0,3	0,0	9,6	3,8	0,138	0,011	<b>13</b>	<b>0,087</b>	<b>0,99</b>
	1,60	1,60	0,40	91,7	137,8	0,0	0,7	0,3	0,0	0,2	0,1	0,000	0,002	<b>54</b>	<b>0,001</b>	<b>0,01</b>
	1,60	1,60	0,40	-17,6	28,4	0,0	0,8	0,3	0,0	9,5	3,8	0,134	0,011	<b>14</b>	<b>0,084</b>	<b>0,96</b>
<b>Sn37/N321</b>	<b>2,00</b>	<b>2,00</b>	<b>0,80</b>	-32,5	79,5	0,0	13,8	11,1	0,0	0,7	0,6	0,007	0,139	<b>23</b>	<b>0,070</b>	<b>0,50</b>
	2,00	2,00	0,80	-6,2	105,8	0,0	19,9	15,9	0,0	1,6	1,3	0,012	0,150	<b>32</b>	<b>0,075</b>	<b>0,54</b>
	2,00	2,00	0,80	-7,0	105,0	0,0	19,9	15,9	0,0	1,6	1,3	0,013	0,152	<b>31</b>	<b>0,076</b>	<b>0,54</b>
	2,00	2,00	0,80	-49,6	62,4	0,0	20,7	16,6	0,0	1,2	0,9	0,015	0,265	<b>22</b>	<b>0,133</b>	<b>0,95</b>
2,00	2,00	0,80	123,2	235,2	0,0	0,0	0,0	0,0	0,3	0,2	0,001	0,000	<b>59</b>	<b>0,000</b>	<b>0,00</b>	
<b>Sn40/N327</b>	<b>2,40</b>	<b>2,40</b>	<b>1,00</b>	0,1	190,2	0,0	14,1	14,1	0,0	0,0	0,0	0,000	0,074	<b>35</b>	<b>0,031</b>	<b>0,21</b>
	2,40	2,40	1,00	26,8	216,9	0,0	15,1	15,1	0,0	0,1	0,1	0,000	0,070	<b>40</b>	<b>0,029</b>	<b>0,20</b>
	2,40	2,40	1,00	-26,9	163,1	0,0	34,6	34,6	0,0	0,0	0,0	0,000	0,212	<b>34</b>	<b>0,088</b>	<b>0,61</b>
	2,40	2,40	1,00	-79,2	110,9	0,0	35,6	35,6	0,0	0,0	0,0	0,000	0,321	<b>26</b>	<b>0,134</b>	<b>0,92</b>
2,40	2,40	1,00	115,1	305,2	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>53</b>	<b>0,000</b>	<b>0,00</b>	
<b>Sn44/N342</b>	<b>1,40</b>	<b>1,40</b>	<b>0,40</b>	59,7	95,0	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	<b>49</b>	<b>0,000</b>	<b>0,00</b>
	1,40	1,40	0,40	117,8	153,1	0,0	0,0	0,0	0,0	0,3	0,1	0,001	0,000	<b>78</b>	<b>0,001</b>	<b>0,01</b>
	1,40	1,40	0,40	92,0	127,3	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	<b>65</b>	<b>0,001</b>	<b>0,01</b>
	1,40	1,40	0,40	84,4	119,7	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	<b>61</b>	<b>0,000</b>	<b>0,00</b>
1,40	1,40	0,40	-31,2	4,0	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,008	<b>2</b>	<b>0,006</b>	<b>0,06</b>	
1,40	1,40	0,40	270,2	305,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>156</b>	<b>0,000</b>	<b>0,00</b>	
<b>Sn45/N344</b>	<b>2,20</b>	<b>2,20</b>	<b>0,80</b>	4,9	140,4	0,0	0,0	0,0	0,0	14,5	11,6	0,083	0,000	<b>31</b>	<b>0,038</b>	<b>0,30</b>
	2,20	2,20	0,80	-38,6	97,0	0,0	0,1	0,1	0,0	27,5	22,0	0,227	0,001	<b>25</b>	<b>0,103</b>	<b>0,81</b>
	2,20	2,20	0,80	-39,2	96,3	0,0	0,1	0,1	0,0	27,5	22,0	0,228	0,001	<b>25</b>	<b>0,104</b>	<b>0,82</b>
	2,20	2,20	0,80	-35,5	100,0	0,0	0,1	0,1	0,0	10,3	8,3	0,083	0,001	<b>22</b>	<b>0,038</b>	<b>0,29</b>
2,20	2,20	0,80	70,8	206,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>43</b>	<b>0,000</b>	<b>0,00</b>	



Effectieve hoek van inwendige wrijving = 30 °  
Materiaalfactor = 1,1  
Vert. afstand van tot aanlegniveau = 0,4 m  
Repr. volumieke gewicht grond = 20 KN/m³  
N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc.	Wrijv.
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m²]		
<b>Sn50/N590</b>	<b>1,20</b>	<b>1,20</b>	<b>0,40</b>	13,7	39,6	0,0	7,9	3,2	0,0	0,0	0,0	0,000	0,080	<b>32</b>	<b>0,066</b>	<b>0,57</b>
	1,20	1,20	0,40	18,8	44,7	0,0	5,2	2,1	0,0	0,0	0,0	0,000	0,047	<b>34</b>	<b>0,039</b>	<b>0,34</b>
	1,20	1,20	0,40	1,0	26,9	0,0	7,6	3,1	0,0	0,0	0,0	0,000	0,114	<b>23</b>	<b>0,095</b>	<b>0,81</b>
	1,20	1,20	0,40	1,0	26,9	0,0	7,6	3,1	0,0	0,0	0,0	0,000	0,114	<b>23</b>	<b>0,095</b>	<b>0,81</b>
	1,20	1,20	0,40	32,3	58,3	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>40</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn52/N602</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	17,5	35,5	0,0	6,9	2,8	0,0	0,0	0,0	0,000	0,078	<b>42</b>	<b>0,078</b>	<b>0,55</b>
	1,00	1,00	0,40	24,1	42,1	0,0	4,6	1,8	0,0	0,1	0,0	0,001	0,044	<b>46</b>	<b>0,044</b>	<b>0,31</b>
	1,00	1,00	0,40	17,6	35,6	0,0	8,7	3,5	0,0	0,0	0,0	0,000	0,098	<b>44</b>	<b>0,098</b>	<b>0,70</b>
	1,00	1,00	0,40	9,8	27,8	0,0	9,0	3,6	0,0	0,0	0,0	0,000	0,130	<b>38</b>	<b>0,130</b>	<b>0,93</b>
	1,00	1,00	0,40	41,4	59,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>59</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn67/N744</b>	<b>1,80</b>	<b>1,80</b>	<b>0,40</b>	12,0	70,4	0,0	1,8	0,7	0,0	0,2	0,1	0,001	0,010	<b>22</b>	<b>0,006</b>	<b>0,07</b>
	1,80	1,80	0,40	-48,2	10,1	0,0	3,0	1,2	0,0	0,5	0,2	0,021	0,118	<b>4</b>	<b>0,067</b>	<b>0,86</b>
	1,80	1,80	0,40	-10,2	48,1	0,0	2,9	1,2	0,0	0,3	0,1	0,002	0,024	<b>15</b>	<b>0,014</b>	<b>0,17</b>
	1,80	1,80	0,40	146,1	204,5	0,0	0,0	0,0	0,0	0,2	0,1	0,000	0,000	<b>63</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn68/N746</b>	<b>1,80</b>	<b>1,80</b>	<b>0,60</b>	9,3	83,8	0,0	0,1	0,1	0,0	0,1	0,1	0,001	0,001	<b>26</b>	<b>0,001</b>	<b>0,01</b>
	1,80	1,80	0,60	-59,8	14,7	0,0	0,3	0,2	0,0	0,4	0,2	0,016	0,013	<b>5</b>	<b>0,012</b>	<b>0,10</b>
	1,80	1,80	0,60	-31,1	43,4	0,0	0,2	0,1	0,0	0,1	0,1	0,001	0,003	<b>13</b>	<b>0,002</b>	<b>0,01</b>
	1,80	1,80	0,60	156,6	231,1	0,0	0,0	0,0	0,0	0,1	0,0	0,000	0,000	<b>71</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn69/N750</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	1,7	19,7	0,0	1,2	0,5	0,0	0,2	0,1	0,003	0,024	<b>21</b>	<b>0,024</b>	<b>0,17</b>
	1,00	1,00	0,40	16,2	34,2	0,0	1,9	0,8	0,0	0,3	0,1	0,004	0,022	<b>36</b>	<b>0,022</b>	<b>0,16</b>
	1,00	1,00	0,40	1,7	19,7	0,0	2,7	1,1	0,0	0,1	0,0	0,002	0,055	<b>22</b>	<b>0,055</b>	<b>0,39</b>
	1,00	1,00	0,40	35,9	53,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>54</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn70/N769</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	92,3	110,3	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	<b>110</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	92,3	110,3	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	<b>110</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	58,7	76,7	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>77</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	59,8	77,8	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>78</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	-9,6	8,4	0,0	0,0	0,0	0,0	0,0	0,0	0,001	0,000	<b>8</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	145,0	163,0	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>163</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn71/N771</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	92,3	110,3	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	<b>110</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	92,3	110,3	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	<b>110</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	58,7	76,7	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>77</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	67,7	85,7	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	<b>86</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	-9,6	8,4	0,0	0,0	0,0	0,0	0,0	0,0	0,001	0,000	<b>8</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	145,0	163,0	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>163</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn73/N1296</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	23,5	41,5	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>41</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	33,8	51,8	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>52</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	24,1	42,1	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>42</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	34,5	52,5	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>53</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	4,8	22,8	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>23</b>	<b>0,000</b>	<b>0,00</b>
	1,00	1,00	0,40	62,5	80,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>80</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn74/N1299</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	-113,7	228,3	0,0	0,0	0,0	0,0	0,3	0,4	0,002	0,000	<b>25</b>	<b>0,001</b>	<b>0,00</b>
	3,00	3,00	1,20	-147,7	194,3	0,0	0,0	0,0	0,0	0,4	0,5	0,002	0,000	<b>22</b>	<b>0,001</b>	<b>0,01</b>
	3,00	3,00	1,20	-317,3	24,7	0,0	0,8	1,0	0,0	0,0	0,0	0,000	0,039	<b>3</b>	<b>0,013</b>	<b>0,09</b>
	3,00	3,00	1,20	-330,1	11,9	0,0	0,8	1,0	0,0	0,0	0,0	0,000	0,084	<b>1</b>	<b>0,028</b>	<b>0,20</b>
	3,00	3,00	1,20	450,4	792,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>88</b>	<b>0,000</b>	<b>0,00</b>



Effectieve hoek van inwendige wrijving = 30 °  
 Materiaalfactor = 1,1  
 Vert. afstand van tot aanlegniveau = 0,4 m  
 Repr. volumieke gewicht grond = 20 KN/m³  
 N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc.	Wrijv.
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m²]		
<b>Sn75/N1300</b>	<b>2,60</b>	<b>2,60</b>	<b>1,00</b>	-59,4	163,7	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	24	0,000	0,00
	2,60	2,60	1,00	-96,8	126,3	0,0	0,0	0,0	0,0	0,2	0,2	0,002	0,000	19	0,001	0,01
	2,60	2,60	1,00	-200,4	22,7	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,022	3	0,009	0,06
	2,60	2,60	1,00	-193,3	29,8	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,016	4	0,006	0,05
	2,60	2,60	1,00	237,3	460,3	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	68	0,000	0,00
<b>Sn76/N1301</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	-139,6	202,4	0,0	0,0	0,0	0,0	0,4	0,4	0,002	0,000	23	0,001	0,01
	3,00	3,00	1,20	85,2	427,2	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	47	0,000	0,00
	3,00	3,00	1,20	-328,7	13,3	0,0	0,8	1,0	0,0	0,0	0,0	0,000	0,075	2	0,025	0,18
	3,00	3,00	1,20	-337,3	4,7	0,0	0,9	1,0	0,0	0,0	0,0	0,000	0,219	1	0,073	0,52
	3,00	3,00	1,20	462,9	804,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	89	0,000	0,00
<b>Sn77/N1302</b>	<b>2,80</b>	<b>2,80</b>	<b>1,20</b>	-109,2	188,7	0,0	0,0	0,0	0,0	0,3	0,3	0,002	0,000	24	0,001	0,00
	2,80	2,80	1,20	68,0	365,9	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	47	0,000	0,00
	2,80	2,80	1,20	-269,1	28,8	0,0	0,7	0,8	0,0	0,0	0,0	0,000	0,028	4	0,010	0,07
	2,80	2,80	1,20	-266,3	31,6	0,0	0,7	0,8	0,0	0,0	0,0	0,000	0,026	4	0,009	0,06
	2,80	2,80	1,20	372,3	670,3	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	85	0,000	0,00
<b>Sn78/N1304</b>	<b>2,40</b>	<b>2,40</b>	<b>1,00</b>	-41,9	148,2	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	26	0,000	0,00
	2,40	2,40	1,00	-73,3	116,8	0,0	0,0	0,0	0,0	0,2	0,2	0,002	0,000	20	0,001	0,00
	2,40	2,40	1,00	-172,6	17,5	0,0	0,4	0,4	0,0	0,0	0,0	0,000	0,025	3	0,010	0,07
	2,40	2,40	1,00	-156,9	33,2	0,0	0,4	0,4	0,0	0,0	0,0	0,000	0,012	6	0,005	0,03
	2,40	2,40	1,00	194,4	384,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	67	0,000	0,00
<b>Sn79/N1306</b>	<b>2,80</b>	<b>2,80</b>	<b>1,20</b>	-87,9	210,1	0,0	0,0	0,0	0,0	0,2	0,3	0,001	0,000	27	0,000	0,00
	2,80	2,80	1,20	-90,8	207,2	0,0	0,0	0,0	0,0	0,2	0,3	0,001	0,000	26	0,000	0,00
	2,80	2,80	1,20	-254,0	43,9	0,0	0,6	0,8	0,0	0,0	0,0	0,000	0,018	6	0,006	0,04
	2,80	2,80	1,20	-257,9	40,0	0,0	0,7	0,8	0,0	0,0	0,0	0,000	0,020	5	0,007	0,05
	2,80	2,80	1,20	362,3	660,3	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	84	0,000	0,00
<b>Sn80/N1308</b>	<b>2,60</b>	<b>2,60</b>	<b>1,00</b>	-17,8	205,2	0,0	0,0	0,0	0,0	0,1	0,1	0,000	0,000	30	0,000	0,00
	2,60	2,60	1,00	-71,2	151,9	0,0	0,0	0,0	0,0	0,2	0,2	0,001	0,000	22	0,000	0,00
	2,60	2,60	1,00	-198,3	24,8	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,020	4	0,008	0,06
	2,60	2,60	1,00	-199,2	23,9	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,021	4	0,008	0,06
	2,60	2,60	1,00	267,8	490,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	73	0,000	0,00
<b>Sn81/N1310</b>	<b>2,20</b>	<b>2,20</b>	<b>0,80</b>	-24,0	111,6	0,0	0,0	0,0	0,0	0,1	0,1	0,000	0,000	23	0,000	0,00
	2,20	2,20	0,80	-35,2	100,3	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	21	0,000	0,00
	2,20	2,20	0,80	-81,9	53,7	0,0	0,2	0,2	0,0	0,0	0,0	0,000	0,003	11	0,001	0,01
	2,20	2,20	0,80	-125,9	9,6	0,0	0,3	0,3	0,0	0,0	0,0	0,000	0,026	2	0,012	0,09
	2,20	2,20	0,80	131,6	267,1	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	55	0,000	0,00
<b>Sn82/N1312</b>	<b>2,60</b>	<b>2,60</b>	<b>1,00</b>	-89,9	133,1	0,0	0,0	0,0	0,0	0,2	0,2	0,002	0,000	20	0,001	0,01
	2,60	2,60	1,00	61,8	284,8	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	42	0,000	0,00
	2,60	2,60	1,00	-160,4	62,7	0,0	0,4	0,4	0,0	0,0	0,0	0,000	0,007	9	0,003	0,02
	2,60	2,60	1,00	-188,1	35,0	0,0	0,5	0,5	0,0	0,0	0,0	0,000	0,014	5	0,005	0,04
	2,60	2,60	1,00	267,6	490,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	73	0,000	0,00
<b>Sn83/N1315</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	45,3	63,3	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	63	0,001	0,00
	1,00	1,00	0,40	97,6	115,6	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	116	0,001	0,01
	1,00	1,00	0,40	117,4	135,4	0,0	0,3	0,1	0,0	0,0	0,0	0,000	0,001	136	0,001	0,01
	1,00	1,00	0,40	63,7	81,7	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	82	0,001	0,01
	1,00	1,00	0,40	6,5	24,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	25	0,000	0,00
	1,00	1,00	0,40	204,0	222,0	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	222	0,000	0,00



Effectieve hoek van inwendige wrijving = 30 °  
 Materiaalfactor = 1,1  
 Vert. afstand van tot aanlegniveau = 0,4 m  
 Repr. volumieke gewicht grond = 20 KN/m³  
 N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc. [-]	Wrijv. [-]
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m²]		
<b>Sn90/N1828</b>	<b>1,40</b>	<b>1,40</b>	<b>0,40</b>	2,6	37,9	0,0	1,5	0,6	0,0	2,2	0,9	0,023	0,016	<b>20</b>	<b>0,020</b>	<b>0,20</b>
	1,40	1,40	0,40	-9,1	26,2	0,0	1,4	0,6	0,0	4,2	1,7	0,065	0,022	<b>15</b>	<b>0,049</b>	<b>0,49</b>
	1,40	1,40	0,40	-3,1	32,2	0,0	1,7	0,7	0,0	3,3	1,3	0,041	0,022	<b>18</b>	<b>0,033</b>	<b>0,33</b>
	1,40	1,40	0,40	-14,9	20,4	0,0	1,4	0,5	0,0	3,7	1,5	0,072	0,027	<b>12</b>	<b>0,055</b>	<b>0,55</b>
	1,40	1,40	0,40	53,6	88,9	0,0	0,0	0,0	0,0	0,2	0,1	0,001	0,000	<b>45</b>	<b>0,001</b>	<b>0,01</b>
<b>Sn92/N2103</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	39,9	57,9	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>58</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	57,7	75,7	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	<b>76</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	70,6	88,6	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	<b>89</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	30,1	48,1	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>48</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	-1,6	16,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>16</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn93/N2105</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	38,0	56,0	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>56</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	54,9	72,9	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	<b>73</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	41,6	59,6	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>60</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	54,7	72,7	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>73</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	17,4	35,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>35</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn94/N2109</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	15,8	33,8	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>34</b>	<b>0,000</b>	<b>0,00</b>
	1,00	1,00	0,40	22,6	40,6	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>41</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	28,5	46,5	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>47</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	22,2	40,2	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>40</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	11,8	29,8	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>30</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn95/N2111</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	39,7	57,7	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>58</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	57,1	75,1	0,0	0,0	0,0	0,0	0,1	0,1	0,001	0,000	<b>75</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	69,4	87,4	0,0	0,2	0,1	0,0	0,0	0,0	0,000	0,001	<b>88</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	57,3	75,3	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>75</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	28,7	46,7	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>47</b>	<b>0,001</b>	<b>0,00</b>
<b>Sn96/N2112</b>	<b>1,00</b>	<b>1,00</b>	<b>0,40</b>	29,3	47,3	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>47</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	42,3	60,3	0,0	0,0	0,0	0,0	0,1	0,0	0,001	0,000	<b>60</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	52,2	70,2	0,0	0,1	0,1	0,0	0,0	0,0	0,000	0,001	<b>70</b>	<b>0,001</b>	<b>0,01</b>
	1,00	1,00	0,40	34,6	52,6	0,0	0,1	0,0	0,0	0,0	0,0	0,000	0,001	<b>53</b>	<b>0,001</b>	<b>0,00</b>
	1,00	1,00	0,40	17,7	35,7	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>36</b>	<b>0,000</b>	<b>0,00</b>
<b>Sn96/N2112</b>	1,00	1,00	0,40	78,6	96,6	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>97</b>	<b>0,000</b>	<b>0,00</b>



Fundering voor de verbanden

Effectieve hoek van inwendige wrijving = 30 °  
 Materiaalfactor = 1,1  
 Vert. afstand van tot aanlegniveau = 0,5 m  
 Repr. volumieke gewicht grond = 20 KN/m<sup>3</sup>  
 N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc. [-]	Wrijv. [-]
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m <sup>2</sup> ]		
<b>SN41</b>	<b>2,20</b>	<b>2,20</b>	<b>1,00</b>	141,5	310,9	0,0	4,9	4,9	0,0	86,1	86,1	0,277	0,016	<b>87</b>	<b>0,126</b>	<b>0,79</b>
	2,20	2,20	1,00	134,9	304,3	0,0	5,0	5,0	0,0	86,7	86,7	0,285	0,016	<b>86</b>	<b>0,130</b>	<b>0,82</b>
	2,20	2,20	1,00	-68,0	101,4	0,0	12,1	12,1	0,0	0,0	0,0	0,000	0,119	<b>24</b>	<b>0,054</b>	<b>0,34</b>
	2,20	2,20	1,00	-75,0	94,4	0,0	12,2	12,2	0,0	0,0	0,0	0,000	0,129	<b>22</b>	<b>0,059</b>	<b>0,37</b>
<b>SN49</b>	<b>2,20</b>	<b>2,20</b>	<b>1,00</b>	-88,4	81,0	0,0	12,1	12,1	0,0	0,0	0,0	0,000	0,149	<b>19</b>	<b>0,068</b>	<b>0,43</b>
	2,20	2,20	1,00	-88,9	80,5	0,0	12,1	12,1	0,0	0,0	0,0	0,000	0,150	<b>19</b>	<b>0,068</b>	<b>0,43</b>
	2,20	2,20	1,00	97,0	266,4	0,0	20,9	20,9	0,0	82,5	82,5	0,310	0,079	<b>83</b>	<b>0,145</b>	<b>0,91</b>
	2,20	2,20	1,00	96,8	266,2	0,0	20,9	20,9	0,0	82,3	82,3	0,309	0,079	<b>82</b>	<b>0,145</b>	<b>0,91</b>
<b>SN48</b>	<b>2,60</b>	<b>2,60</b>	<b>1,20</b>	103,7	374,1	0,0	12,1	14,5	0,0	123,6	148,4	0,397	0,039	<b>82</b>	<b>0,153</b>	<b>0,95</b>
	2,60	2,60	1,20	103,3	373,7	0,0	12,1	14,5	0,0	123,1	147,7	0,395	0,039	<b>82</b>	<b>0,153</b>	<b>0,95</b>
	2,60	2,60	1,20	-110,2	160,2	0,0	15,7	18,8	0,0	0,0	0,0	0,000	0,118	<b>26</b>	<b>0,045</b>	<b>0,28</b>
	2,60	2,60	1,20	-110,2	160,2	0,0	15,7	18,8	0,0	0,0	0,0	0,000	0,118	<b>26</b>	<b>0,045</b>	<b>0,28</b>
	2,60	2,60	1,20	-104,3	166,1	0,0	29,7	35,7	0,0	30,4	36,5	0,219	0,215	<b>35</b>	<b>0,118</b>	<b>0,73</b>
	2,60	2,60	1,20	-104,4	166,0	0,0	29,7	35,7	0,0	30,4	36,4	0,219	0,215	<b>35</b>	<b>0,118</b>	<b>0,73</b>
<b>SN39</b>	<b>2,40</b>	<b>2,40</b>	<b>1,20</b>	38,3	268,7	0,0	9,8	11,7	0,0	82,4	98,9	0,368	0,044	<b>70</b>	<b>0,154</b>	<b>0,88</b>
	2,40	2,40	1,20	38,1	268,5	0,0	9,8	11,7	0,0	82,1	98,5	0,367	0,044	<b>70</b>	<b>0,154</b>	<b>0,88</b>
	2,40	2,40	1,20	-0,2	230,2	0,0	9,7	11,7	0,0	70,3	84,4	0,367	0,051	<b>60</b>	<b>0,154</b>	<b>0,88</b>
	2,40	2,40	1,20	-0,3	230,1	0,0	9,7	11,7	0,0	70,3	84,4	0,367	0,051	<b>60</b>	<b>0,154</b>	<b>0,88</b>
	2,40	2,40	1,20	-79,0	151,4	0,0	24,1	28,9	0,0	30,4	36,5	0,241	0,191	<b>39</b>	<b>0,128</b>	<b>0,73</b>
<b>SN47</b>	<b>2,40</b>	<b>2,40</b>	<b>1,20</b>	-79,8	150,6	0,0	24,1	28,9	0,0	30,4	36,4	0,242	0,192	<b>39</b>	<b>0,129</b>	<b>0,74</b>
	2,40	2,40	1,20	-133,1	97,3	0,0	14,6	17,5	0,0	0,0	0,0	0,000	0,180	<b>20</b>	<b>0,075</b>	<b>0,43</b>
	2,40	2,40	1,20	-132,5	97,9	0,0	14,6	17,5	0,0	0,0	0,0	0,000	0,179	<b>20</b>	<b>0,075</b>	<b>0,43</b>
	2,40	2,40	1,20	93,8	324,2	0,0	11,4	13,6	0,0	105,5	126,6	0,390	0,042	<b>86</b>	<b>0,164</b>	<b>0,94</b>
	2,40	2,40	1,20	93,9	324,3	0,0	11,4	13,6	0,0	105,5	126,6	0,390	0,042	<b>86</b>	<b>0,164</b>	<b>0,94</b>
	2,40	2,40	1,20	66,0	296,4	0,0	27,6	33,1	0,0	91,1	109,4	0,369	0,112	<b>82</b>	<b>0,161</b>	<b>0,92</b>
<b>SN38</b>	<b>2,80</b>	<b>2,80</b>	<b>1,20</b>	140,5	454,1	0,0	149,7	179,6	0,0	11,2	13,5	0,030	0,395	<b>82</b>	<b>0,142</b>	<b>0,94</b>
	2,80	2,80	1,20	140,4	454,0	0,0	149,7	179,7	0,0	11,2	13,5	0,030	0,396	<b>82</b>	<b>0,142</b>	<b>0,95</b>
	2,80	2,80	1,20	-142,1	171,5	0,0	0,0	0,0	0,0	8,7	10,4	0,061	0,000	<b>23</b>	<b>0,022</b>	<b>0,15</b>
	2,80	2,80	1,20	-142,6	171,0	0,0	0,0	0,0	0,0	9,9	11,8	0,069	0,000	<b>23</b>	<b>0,025</b>	<b>0,16</b>
	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	-172,4	237,2	0,0	0,0	0,0	0,0	26,0	31,2	0,132	0,000	<b>25</b>	<b>0,041</b>	<b>0,31</b>
<b>SN43</b>	3,20	3,20	1,20	-173,2	236,4	0,0	0,0	0,0	0,0	26,0	31,2	0,132	0,000	<b>25</b>	<b>0,041</b>	<b>0,31</b>
	3,20	3,20	1,20	138,4	548,0	0,0	172,5	207,0	0,0	15,9	19,0	0,035	0,378	<b>72</b>	<b>0,119</b>	<b>0,90</b>
	3,20	3,20	1,20	106,7	516,3	0,0	172,9	207,5	0,0	15,9	19,0	0,037	0,402	<b>69</b>	<b>0,126</b>	<b>0,96</b>
<b>SN36</b>	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	-185,8	223,8	0,0	0,0	0,0	0,0	26,2	31,4	0,140	0,000	<b>24</b>	<b>0,044</b>	<b>0,33</b>
	3,20	3,20	1,20	-186,4	223,2	0,0	0,0	0,0	0,0	26,2	31,4	0,141	0,000	<b>24</b>	<b>0,044</b>	<b>0,34</b>
	3,20	3,20	1,20	139,5	549,1	0,0	161,0	193,3	0,0	10,1	12,1	0,022	0,352	<b>70</b>	<b>0,110</b>	<b>0,84</b>
	3,20	3,20	1,20	109,4	519,0	0,0	160,2	192,3	0,0	10,1	12,1	0,023	0,370	<b>67</b>	<b>0,116</b>	<b>0,88</b>
<b>SN27</b>	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	113,2	522,8	0,0	164,7	197,7	0,0	31,8	38,2	0,073	0,378	<b>70</b>	<b>0,120</b>	<b>0,92</b>
	3,20	3,20	1,20	112,6	522,2	0,0	164,7	197,7	0,0	31,8	38,2	0,073	0,379	<b>70</b>	<b>0,120</b>	<b>0,92</b>
	3,20	3,20	1,20	-149,8	259,8	0,0	0,0	0,0	0,0	11,8	14,2	0,055	0,000	<b>26</b>	<b>0,017</b>	<b>0,13</b>
	3,20	3,20	1,20	-177,6	232,0	0,0	0,0	0,0	0,0	11,8	14,2	0,061	0,000	<b>24</b>	<b>0,019</b>	<b>0,15</b>



Fundering voor de verbanden

Effectieve hoek van inwendige wrijving = 30 °  
 Materiaalfactor = 1,1  
 Vert. afstand van tot aanlegniveau = 0,5 m  
 Repr. volumieke gewicht grond = 20 KN/m<sup>3</sup>  
 N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten								Grondspanning			Exc.	Wrijv.
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m <sup>2</sup> ]		
<b>SN18</b>	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	85,1	494,7	0,0	152,5	183,0	0,0	40,0	48,0	0,097	0,370	<b>67</b>	<b>0,120</b>	<b>0,91</b>
	3,20	3,20	1,20	84,7	494,3	0,0	152,4	182,8	0,0	40,0	48,0	0,097	0,370	<b>67</b>	<b>0,120</b>	<b>0,91</b>
	3,20	3,20	1,20	-118,6	291,0	0,0	0,0	0,0	0,0	11,9	14,2	0,049	0,000	<b>29</b>	<b>0,015</b>	<b>0,12</b>
	3,20	3,20	1,20	-150,4	259,2	0,0	0,0	0,0	0,0	11,8	14,2	0,055	0,000	<b>26</b>	<b>0,017</b>	<b>0,13</b>
<b>SN2</b>	<b>2,60</b>	<b>2,60</b>	<b>1,20</b>	-153,0	117,4	0,0	30,0	36,0	0,0	0,0	0,0	0,000	0,306	<b>23</b>	<b>0,118</b>	<b>0,73</b>
	2,60	2,60	1,20	-152,4	118,0	0,0	29,8	35,8	0,0	0,0	0,0	0,000	0,304	<b>23</b>	<b>0,117</b>	<b>0,72</b>
	2,60	2,60	1,20	134,1	404,5	0,0	4,9	5,8	0,0	91,4	109,7	0,271	0,014	<b>76</b>	<b>0,104</b>	<b>0,65</b>
	2,60	2,60	1,20	133,9	404,3	0,0	4,9	5,8	0,0	91,2	109,5	0,271	0,014	<b>76</b>	<b>0,104</b>	<b>0,65</b>
	2,60	2,60	1,20	-37,1	233,3	0,0	0,0	0,0	0,0	22,8	27,4	0,117	0,000	<b>38</b>	<b>0,045</b>	<b>0,28</b>
	2,60	2,60	1,20	-36,9	233,5	0,0	0,0	0,0	0,0	22,8	27,4	0,117	0,000	<b>38</b>	<b>0,045</b>	<b>0,28</b>
	2,60	2,60	1,20	160,2	430,6	0,0	128,0	153,6	0,0	5,8	7,0	0,016	0,357	<b>89</b>	<b>0,137</b>	<b>0,85</b>
	2,60	2,60	1,20	148,2	418,6	0,0	127,7	153,2	0,0	5,9	7,0	0,017	0,366	<b>87</b>	<b>0,141</b>	<b>0,87</b>
<b>SN9</b>	<b>2,40</b>	<b>2,40</b>	<b>1,20</b>	116,7	347,1	0,0	13,0	15,6	0,0	112,3	134,7	0,388	0,045	<b>93</b>	<b>0,163</b>	<b>0,93</b>
	2,40	2,40	1,20	116,3	346,7	0,0	13,0	15,6	0,0	111,9	134,2	0,387	0,045	<b>92</b>	<b>0,162</b>	<b>0,93</b>
	2,40	2,40	1,20	-94,8	135,6	0,0	7,2	8,7	0,0	0,0	0,0	0,000	0,064	<b>25</b>	<b>0,027</b>	<b>0,15</b>
	2,40	2,40	1,20	-94,6	135,8	0,0	7,2	8,7	0,0	0,0	0,0	0,000	0,064	<b>25</b>	<b>0,027</b>	<b>0,15</b>
<b>SN10</b>	<b>2,80</b>	<b>2,80</b>	<b>1,20</b>	-131,0	182,6	0,0	15,7	18,9	0,0	0,0	0,0	0,000	0,103	<b>25</b>	<b>0,037</b>	<b>0,25</b>
	2,80	2,80	1,20	-130,6	183,0	0,0	15,7	18,9	0,0	0,0	0,0	0,000	0,103	<b>25</b>	<b>0,037</b>	<b>0,25</b>
	2,80	2,80	1,20	99,3	412,9	0,0	12,1	14,6	0,0	120,2	144,2	0,349	0,035	<b>72</b>	<b>0,125</b>	<b>0,84</b>
	2,80	2,80	1,20	99,1	412,7	0,0	12,1	14,6	0,0	119,8	143,8	0,348	0,035	<b>72</b>	<b>0,125</b>	<b>0,83</b>
	2,80	2,80	1,20	71,2	384,8	0,0	18,6	22,3	0,0	125,7	150,8	0,392	0,058	<b>71</b>	<b>0,142</b>	<b>0,94</b>
	2,80	2,80	1,20	71,2	384,8	0,0	18,6	22,3	0,0	125,7	150,8	0,392	0,058	<b>71</b>	<b>0,142</b>	<b>0,94</b>
<b>SN3</b>	<b>2,60</b>	<b>2,60</b>	<b>1,20</b>	3,5	273,9	0,0	9,7	11,7	0,0	84,1	100,9	0,368	0,043	<b>58</b>	<b>0,143</b>	<b>0,88</b>
	2,60	2,60	1,20	2,8	273,2	0,0	9,7	11,7	0,0	83,9	100,7	0,369	0,043	<b>58</b>	<b>0,143</b>	<b>0,88</b>
	2,60	2,60	1,20	31,6	302,0	0,0	9,7	11,7	0,0	80,1	96,1	0,318	0,039	<b>61</b>	<b>0,123</b>	<b>0,76</b>
	2,60	2,60	1,20	31,1	301,5	0,0	9,7	11,7	0,0	79,9	95,8	0,318	0,039	<b>61</b>	<b>0,123</b>	<b>0,76</b>
	2,60	2,60	1,20	12,8	283,2	0,0	14,3	17,2	0,0	83,8	100,6	0,355	0,061	<b>60</b>	<b>0,139</b>	<b>0,86</b>
<b>SN13</b>	<b>2,80</b>	<b>2,80</b>	<b>1,20</b>	12,6	283,0	0,0	14,3	17,2	0,0	83,8	100,6	0,355	0,061	<b>60</b>	<b>0,139</b>	<b>0,86</b>
	2,80	2,80	1,20	111,0	424,6	0,0	11,7	14,0	0,0	126,1	151,3	0,356	0,033	<b>74</b>	<b>0,128</b>	<b>0,85</b>
	2,80	2,80	1,20	103,6	417,2	0,0	11,6	13,9	0,0	125,9	151,1	0,362	0,033	<b>74</b>	<b>0,130</b>	<b>0,87</b>
	2,80	2,80	1,20	-115,2	198,4	0,0	14,0	16,8	0,0	0,0	0,0	0,000	0,085	<b>27</b>	<b>0,030</b>	<b>0,20</b>
	2,80	2,80	1,20	-122,3	191,3	0,0	14,0	16,8	0,0	0,0	0,0	0,000	0,088	<b>26</b>	<b>0,031</b>	<b>0,21</b>
	2,80	2,80	1,20	-134,8	178,8	0,0	28,9	34,7	0,0	0,0	0,0	0,000	0,194	<b>26</b>	<b>0,069</b>	<b>0,46</b>
2,80	2,80	1,20	-133,7	179,9	0,0	28,9	34,7	0,0	0,0	0,0	0,000	0,193	<b>27</b>	<b>0,069</b>	<b>0,46</b>	



Fundering voor de verbanden

Effectieve hoek van inwendige wrijving = 30 °  
Materiaalfactor = 1,1  
Vert. afstand van tot aanlegniveau = 0,5 m  
Repr. volumieke gewicht grond = 20 KN/m<sup>3</sup>  
N + eigen gewicht fundering en grond = N'

Knoop- ondersteuning	Fundering			Interne krachten									Grondspanning			Exc.	Wrijv.
	Bx [m]	By [m]	H [m]	N [KN]	N' [KN]	Mx [KNm]	zug. H [KN]	Mx' [KNm]	My [KNm]	zug. H [KN]	My' [KNm]	ex [m]	ey [m]	Sigma [KN/m <sup>2</sup> ]	[-]		
<b>SN51</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	-122,5	237,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>26</b>	<b>0,000</b>	<b>0,00</b>	
	3,00	3,00	1,20	-122,5	237,5	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>26</b>	<b>0,000</b>	<b>0,00</b>	
	3,00	3,00	1,20	152,9	512,9	0,0	158,0	189,7	0,0	0,0	0,0	0,000	0,370	<b>76</b>	<b>0,123</b>	<b>0,88</b>	
	3,00	3,00	1,20	127,5	487,5	0,0	155,5	186,5	0,0	0,0	0,0	0,000	0,383	<b>73</b>	<b>0,128</b>	<b>0,91</b>	
<b>SN91</b>	<b>3,20</b>	<b>3,20</b>	<b>1,20</b>	62,9	472,5	0,0	152,6	183,2	0,0	0,0	0,0	0,000	0,388	<b>61</b>	<b>0,121</b>	<b>0,92</b>	
	3,20	3,20	1,20	62,9	472,5	0,0	152,6	183,1	0,0	0,0	0,0	0,000	0,388	<b>61</b>	<b>0,121</b>	<b>0,92</b>	
	3,20	3,20	1,20	78,4	488,0	0,0	105,4	126,4	0,0	0,0	0,0	0,000	0,259	<b>57</b>	<b>0,081</b>	<b>0,62</b>	
	3,20	3,20	1,20	42,6	452,2	0,0	103,6	124,4	0,0	0,0	0,0	0,000	0,275	<b>53</b>	<b>0,086</b>	<b>0,65</b>	
<b>SN53</b>	<b>3,40</b>	<b>3,40</b>	<b>1,20</b>	194,3	656,7	0,0	228,9	274,7	0,0	0,0	0,0	0,000	0,418	<b>75</b>	<b>0,123</b>	<b>1,00</b>	
	3,40	3,40	1,20	194,3	656,7	0,0	228,9	274,7	0,0	0,0	0,0	0,000	0,418	<b>75</b>	<b>0,123</b>	<b>1,00</b>	
	3,40	3,40	1,20	-41,6	420,8	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>36</b>	<b>0,000</b>	<b>0,00</b>	
	3,40	3,40	1,20	-73,1	389,3	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>34</b>	<b>0,000</b>	<b>0,00</b>	
<b>SN54</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	-82,1	277,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>31</b>	<b>0,000</b>	<b>0,00</b>	
	3,00	3,00	1,20	-82,1	277,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>31</b>	<b>0,000</b>	<b>0,00</b>	
	3,00	3,00	1,20	205,3	565,3	0,0	182,0	218,4	0,0	0,0	0,0	0,000	0,386	<b>85</b>	<b>0,129</b>	<b>0,92</b>	
	3,00	3,00	1,20	173,4	533,4	0,0	178,3	214,0	0,0	0,0	0,0	0,000	0,401	<b>81</b>	<b>0,134</b>	<b>0,96</b>	
<b>SN72</b>	<b>3,00</b>	<b>3,00</b>	<b>1,20</b>	161,4	521,4	0,0	152,4	182,9	0,0	0,0	0,0	0,000	0,351	<b>76</b>	<b>0,117</b>	<b>0,84</b>	
	3,00	3,00	1,20	161,4	521,4	0,0	152,4	182,9	0,0	0,0	0,0	0,000	0,351	<b>76</b>	<b>0,117</b>	<b>0,84</b>	
	3,00	3,00	1,20	-88,1	271,9	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>30</b>	<b>0,000</b>	<b>0,00</b>	
	3,00	3,00	1,20	-114,6	245,4	0,0	0,0	0,0	0,0	0,0	0,0	0,000	0,000	<b>27</b>	<b>0,000</b>	<b>0,00</b>	