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Lijnen algemeen
Mastmodellen en mastberekeningen
Funderingsconstructies
Aarding
Lijnarmaturen en kettingen

Documentnummer / Meridiankenmerk	Documenttitel	RFA	Documentnummer opdrachtnemer	Documentnaam	Bestandsextensie
C1704314	Rapportage Verzwaringen mastfundaties	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Rapportage Verzwaringen mastfundaties	PDF
C1704315	Bijlage 1_Cilinderpoer 75_LD1_S+0_F3	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 1_Cilinderpoer 75_LD1_S+0_F3	PDF
C1704316	Bijlage 2_Cilinderpoer 75_LD1_S+6_F3	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 2_Cilinderpoer 75_LD1_S+6_F3	PDF
C1704317	Bijlage 3_Clinderpoer 75_LD1_S+0_134_F3	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 3_Clinderpoer 75_LD1_S+0_134_F3	PDF
C1704318	Bijlage 4_Koppelframe_LD1_S+6_144_F5	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 4_Koppelframe_LD1_S+6_144_F5	PDF
C1704319	Bijlage 5_Balkrooster_5B_S+9_146_F5	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 5_Balkrooster_5B_S+9_146_F5	PDF
C1704320	Bijlage 6_Balkrooster_5B_S+9_147_F5	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 6_Balkrooster_5B_S+9_147_F5	PDF
C1704321	Bijlage 7_Blokpoer 200_2LD1_S+12_148_F5	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 7_Blokpoer 200_2LD1_S+12_148_F5	PDF
C1704322	Bijlage 8_Koppelframe_LD1_S+6_144_Wapening	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 8_Koppelframe_LD1_S+6_144_Wapening	PDF
C1704323	Bijlage 9_Knaggen_LEKA219_310	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 9_Knaggen_LEKA219_310	PDF
C1704324	Bijlage 10_Knaggen_LEKA273_370	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 10_Knaggen_LEKA273_370	PDF
C1704325	Bijlage 11_Knaggen_LEKA324_470	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 11_Knaggen_LEKA324_470	PDF
C1704326	Bijlage 12_Knaggen_Buitenzijde LD1_Max	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 12_Knaggen_Buitenzijde LD1_Max	PDF
C1704327	Bijlage 13_Knaggen_Buitenzijde LD1_Min	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 13_Knaggen_Buitenzijde LD1_Min	PDF
C1704328	Bijlage 14_UC Knaggen	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 14_UC Knaggen	PDF
C1704329	Bijlage 15_Doorsnedetoets_Blokpoer 200_2LD1	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 15_Doorsnedetoets_Blokpoer 200_2LD1	PDF
C1704330	Bijlage 16_Doorsnedetoets_Cilinderpoer 75_LD1	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 16_Doorsnedetoets_Cilinderpoer 75_LD1	PDF
C1704331	Bijlage 17_Doorsnedetoets_Balkrooster	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 17_Doorsnedetoets_Balkrooster	PDF
C1704332	Bijlage 18_Verzamellijst doorsnedetoetsen	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 18_Verzamellijst doorsnedetoetsen	PDF
C1704333	Bijlage 19_Verankeringen_mast 146_147	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 19_Verankeringen_mast 146_147	PDF
C1704334	Bijlage 20_Verankering_mast 148	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 20_Verankering_mast 148	PDF
C1704335	Bijlage 21_Overzichtslijst mastfundaties	C1704336	KIJ_BKK_DIM380-000-32-1009	KIJ_BKK_DIM380-000-32-1009-Bijlage 21_Overzichtslijst mastfundaties	PDF

TenneT C2 - Internal Information

KIJ_BKK_DIM380-000-32-1009
Meridian kenmerk C1704314

Opwaardering 380 kV-verbinding Krimpen aan den IJssel – Beverwijk (KIJ-BVW)

Rapportage verzwaringen Mastfundaties De Ronde Venen



SWECO

Lijst met aanpassingen

Versie	Datum	Beschrijving van de wijziging	Herzien	Vrijgegeven door
D01	26-03-2026	1e uitgave	[redacted]	[redacted]
D02	28-05-2026	2e uitgave, LD1-palen profiel correctie	[redacted]	[redacted]

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Onderwerp	Opwaardering KIJ-BVW
Projectnummer	51021552
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Auteur	[redacted]
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1 Inleiding

Deze rapportage omvat de uitwerking van de verzwaringen die volgen uit de hertoetsing van de masten in de hoogspanningsverbindingen tussen Krimpen aan den Ijssel en Diemen die gelgen zijn binnen de gemeente “De Ronde Venen”. Deze hertoetsing maakt onderdeel uit van het project ‘Opwaardering 380 kV-verbinding Krimpen aan den Ijssel – Beverwijk (KIJ-BVW)’ In een eerdere fase van dit project zijn de betreffende masten in deze gemeente reeds getoetst op afkeurniveau en waar nodig versterkt op verbouwniveau conform NEN8700. Echter in verband met het ontbreken van een bouwvergunning voor de masten is besloten om deze masten opnieuw te toetsen en waar nodig te versterken op nieuwbouwniveau. Het doel daarvan is het verkrijgen van een vergunning. In onderstaande paragrafen 1.1 t/m 1.4 wordt nadere ingegaan op de achtergronden, werkzaamheden en scope van het project.

1.1 Achtergrond

Om in de toekomst een grotere elektriciteitstransportcapaciteit te waarborgen, is het noodzakelijk om naast de nieuwbouw van hoogspanningsverbindingen ook bestaande verbindingen te upgraden. TenneT heeft het voornemen om de landelijke 380 kV ring, de 'ruggengraat' van het hoogspanningsnet in Nederland, op te waarderen. Dit project omvat onder andere het deelproject ‘Opwaardering 380 kV-verbinding Krimpen aan den IJssel – Beverwijk (KIJ-BVW)’. De werkzaamheden binnen dit project vallen onder de Rijkscoördinatieregeling.

1.2 Werkzaamheden

De opwaardering van de bestaande 380 kV-verbinding KIJ-BVW omvat diverse activiteiten. Centraal staat de vervanging van de huidige geleiders door nieuwe geleiders met een hogere capaciteit. Deze nieuwe geleiders zijn in staat meer stroom te transporteren doordat ze hogere temperaturen kunnen weerstaan zonder te ver door te hangen. Aangezien de huidige hoogspanningsverbinding inmiddels 50 jaar oud is, zullen ook andere componenten, zoals isolatorkettingen en bliksemdraden, worden vervangen om de levensduur te verlengen. Daarnaast worden de

hoogspanningsmasten en de mastfunderingen opnieuw constructief beoordeeld en waar nodig versterkt, dit is onderdeel van de aanvraag voor een omgevingsvergunning.

1.3 Scope

Dit document vormt de vervolgfase op het eerder uitgevoerde onderzoek – KIJ_BKK380_DIM380-000-32-1008-Resultaten onderzoek De Ronde Venen (toetsingen), versie D02 – naar de restcapaciteit van de constructieve onderdelen van de funderingen van de volgende lijn:

- **Lijn KIJ – BKK – DIM380, masten in de gemeente "De Ronde Venen", dit betreft de masten 128 t/m 148**

In het voorgaande onderzoek zijn de bestaande masten en funderingen getoetst conform nieuwbouwniveau, de resultaten van deze toetsingen zijn te vinden in hoofdstuk 7. Voor de onderdelen die niet voldeden conform nieuwbouwniveau, zijn in hoofdstuk 8 schetsmatige versterkingsmaatregelen voorgesteld. Deze voorstellen zijn gebaseerd op globale berekeningen en richten zich op de maakbaarheid, de verbindingen tussen mast- fundering en de verbinding tussen fundering-palen. Daarnaast wordt er rekening gehouden met behoud van operationele continuïteit, zoals het in dienst houden van de stroomvoorziening.

De versterkingen zijn ingedeeld in standaardtypen F1 t/m F5, variërend van ballastoplossingen (F1, F2) tot funderingsversterkingen met extra palen (F3, F4, F5). Voor de versterkingen met extra palen wordt gebruik gemaakt van SCIA vanwege de benodigde geavanceerde rekenmogelijkheden.

In deze fase (fase 2) worden de versterkingsmaatregelen verder uitgewerkt en constructief doorgerekend op DO-niveau. Dit omvat gedetailleerde constructieve en geotechnische berekeningen, modelanalyses en documentatie van alle relevante specificaties. De uitgangspunten uit de toetsingen in voorgaande fase (fase 1) vormen hierbij de basis, waarbij de focus ligt op veiligheid, stabiliteit en uitvoerbaarheid van de voorgestelde versterkingen.

Voor dit project worden de volgende onderdelen constructief doorgerekend:

- **Fundering (team constructies):**
    - Balken en poeren (SCIA en Technosoft)
    - Verbindingen (Excel en IDEA StatiCa)
- **Palen (team geotechniek):**
    - Capaciteit en interactie palen (D-Foundations)

De resultaten van deze berekeningen vormen de basis voor de definitieve versterkingsmaatregelen en de uitvoeringsvoorbereiding. D draagcapaciteiten van zowel de nieuwe als de bestaande

funderingspalen worden door het team Geotechniek berekend. De toetsing aan de optredende krachten vanuit de SCIA-modellen wordt uitgevoerd door het team Constructies.

1.4 Toelichting bij versie D02

In versie D02 zijn een aantal aanpassingen doorgevoerd:

- De in SCIA opgenomen modellering van de LD1 palen is aangepast. Als gevolg daarvan zijn de bijlagen 1, 2, 3, 4, 7, 15, 16, 18 en 21 herzien. De resultaten van deze herziening zijn in de rapportage verwerkt.
- Het eigen gewicht van de LD1 palen is voor de situaties die niet met SCIA zijn berekend in overeenstemming gebracht met de modellering die in SCIA is aangehouden. Het netto-effect is dat er een hoger eigen gewicht is meegenomen. Als gevolg hiervan is bijlage 21 aangepast en zijn de resultaten in de rapportage verwerkt.
- In enkele SCIA-modellen is gebleken dat vanuit de masten de belastingcombinaties met een hoog eigen gewicht bepalend zijn voor zowel de maatgevende druk als trekbelasting. In deze gevallen hebben wij deze bewuste belastingcombinaties nu ook met 0,9xEG gecombineerd. De bijlagen 1, 2, 3, 4, 7, 15, 16, 18 en 21 zijn op basis daarvan herzien.
- In enkele gevallen was in de toetsing van het geotechnische draagvermogen abusievelijk de optredende waarde in het aansluitvlak fundering-paal getoetst in plaats van de waarde op de punt van de paal. Dit heeft als gevolg dat wij besloten hebben om mast 68 niet te versterken. Hier was een versterking met ballast opgenomen.
- In lijn met de aanpassingen van versie D03 zijn wederom de waarden van de masten 128 t/m 148 doorgehaald en bijbehorende bijlagen gemarkeerd als vervallen. Wel zijn wijzigingen die invloed hadden op rekenresultaten van zowel het hoofdproject als het lijndeel De Ronde Venen ook bij De Ronde Venen doorgevoerd.

2 Aanpak

Het overall plan van aanpak voor dit project bestaat uit drie fasen:

- **Fase 1a:** Toetsing
- **Fase 1b:** Schetsontwerp versterkingen
- **Fase 2:** Uitwerking versterkingen

De fasen 1a en 1b zijn inmiddels afgerond. In deze fasen zijn de capaciteiten van verbindingen, betonconstructies en palen berekend en vergeleken met de optredende krachten, om te bepalen of de bestaande constructie voldoet aan de eisen conform nieuwbouwniveau. De werkwijze is per onderdeel toegelicht en de resultaten zijn overzichtelijk weergegeven in tabellen en bijlagen. Voor onderdelen die niet voldeden, zijn schetsmatig versterkingsmaatregelen voorgesteld, waarbij maatgevende situaties zijn onderzocht om efficiënt met tijd en capaciteit om te gaan. Fase 1a en 1b zijn gerapporteerd in: KIJ_BKK380_DIM380-000-32-1008-Resultaten onderzoek De Ronde Venen (toetsingen), versie D02

In dit document wordt fase 2 behandeld, waarin de voorgestelde versterkingen uit fase 1b verder worden uitgewerkt en constructief doorgerekend. De engineering vindt plaats op DO-niveau en omvat gedetailleerde berekeningen, modelanalyses en technische onderbouwing. De focus ligt op het realiseren van veilige, stabiele en uitvoerbare versterkingsmaatregelen, waarbij gebruik wordt gemaakt van geavanceerde rekenprogramma’s zoals SCIA, Technosoft en IDEA StatiCa.

3 Uitgangspunten

3.1 Algemeen

Voor de berekening en uitwerking van de versterkingen in fase 2 wordt verwezen naar de uitgangspuntennotitie: KIJ_BKK380_DIM380-000-32-1006-Uitgangspuntennotitie, versie D2.0

Ter bevordering van de leesbaarheid zijn enkele relevante uitgangspunten uit deze notitie overgenomen in dit document. Daarnaast zijn aanvullende uitgangspunten opgenomen die tijdens de uitwerking en berekening van de versterkingen zijn vastgesteld:

- **Algemene uitgangspunten voor versterkingen:**
    - Versterkingen in de vorm van extra funderingspalen worden bepaald op basis van nieuwbouwniveau voor gevolgklasse CC2 met een referentieperiode van 50 jaar.
- **Materiaaleigenschappen en aannames:**
    - Voor het eigen gewicht van funderingspalen onder het grondwater is het soortelijk gewicht van de toegepaste materialen verlaagd met 10 kN/m³. Voor beton resulteert dit in een effectieve waarde van 13,5 kN/m³ (0,9 × (25 − 10)).
    - Voor de betonkwaliteit kan worden gerekend met waarden bepaald uit het restlevensduuronderzoek, zie toelichting in paragraaf 3.3
- **Specifieke uitgangspunten per mast:**
    - **Mast 146/147:**

      Is getoetst met optie 1:

        - Optie 1: 5× betonpaal 320x320 mm per hoekpunt
        - Optie 2: 1× LD1 paal per hoekpunt

      Op basis van drone-inspectie lijkt optie 1 het meest waarschijnlijk. Op basis hiervan wordt het fundament versterkt met een betonconstructie in combinatie met

drie extra Leka palen per hoekpunt. In het werk zal geverifieerd moeten worden of het uitgangspunt om met optie 1 te rekenen correct is.

- **Mast 146/147**

  De verankering is getoetst op basis van de verankering zoals die voorkomt bij mast 148. Dit betreft een verankering bestaande uit een voetplaat met 2 ankers. Deze aanname is gedaan op basis van beeldmateriaal van de masten. Op basis van dit uitgangspunt is een versterking uitgewerkt waarbij de voetplaat wordt vergroot en verzwaard met extra stalen platen in combinatie met in te lijmen ankers. In het werk zal geverifieerd moeten worden of het gekozen uitgangspunt correct is.

- **Mast 148**

  De verankering van deze mast 148 is ook aangehouden bij mast 146 & 147. Op basis van het uitgangspunt voor deze mast is een versterking uitgewerkt waarbij de huidige verankering van de mast wordt versterkt met stalen balken verbonden met de huidige voetplaat die wordt verankerd in een nieuw aan te brengen betonconstructie. In het werk zal geverifieerd moeten worden of het gekozen uitgangspunt correct is.

Deze uitgangspunten vormen de basis voor de berekeningen in fase 2 en worden waar nodig aangevuld met gegevens uit inspecties, assetdata en verificaties in het veld.

3.2 Toegepaste materialen

- Bestaand (uit assetdata)
  - Beton
    - K225 vergelijkbaar met C13/16 (voor de verankeringen kan gerekend worden met een hogere betonkwaliteit op basis van restlevensduuronderzoek, zie paragraaf 3.3)
    - Dekking onder 40 mm (4 cm uit assetdata)
    - Dekking overigens 30 mm (3 cm uit assetdata)
  - Wapening
    - Buig/trek QR40 vergelijkbaar met Feb400
    - Beugels QR24 vergelijkbaar met Feb220
  - Staal
    - Kwaliteit S235 (aangenomen)
  - Bouten
    - Kwaliteit 5.6 / 5Din
  - Ankers
    - Kwaliteit 4.6
- Nieuw
  - Beton
    - C30/37
    - Dekking rondom 45 mm
    - Milieuklasse XC4/XS1/XF3/XD3/XA3
  - Wapening
    - B500b
  - Staal
    - S355
  - Bouten
    - Klasse 8.8

3.3 Restlevensduur

Vanuit perceel 3 is een onderzoek naar de restlevensduur van de constructie uitgevoerd. Dit onderzoek is reeds in een eerder stadium van dit project uitgevoerd.

Het onderzoek – uitgevoerd door Bejan – is gerapporteerd in: 250071A-001 380kV KIJ-DIM v1.1 van d.d. 2 juli 2025. Het betreffende onderzoek is uitgevoerd op basis van de notitie KIJ_BKK380_DIM380-000-32-1002-Uitvraag restlevensduuronderzoek.

Het doel van betreffende onderzoek is geweest inzicht te verkrijgen in de staat van de poerfundaties van de hoogspanningsmasten van de lijnverbinding KIJ-BKK-DIM.

In het onderzoek zijn de volgende werkzaamheden uitgevoerd

- Visuele inspectie, 78 masten
    - Visuele inspectie / inventariseren schadebeelden
    - Inspectie conform CUR aanbeveling 72, klasse 1.2
    - Vastlegging conform NEN2767
    - Inmeten en intekenen schades
    - Afkloppen betonnen onderdelen.
- Nadere onderzoeken, 16 masten
    - Bepalen carbonatatie op 4 locaties per mast (alle poeren)
    - Monsters ter bepaling chloride gehalte op 1 locatie per mast in twee zones (0-20 mm en 20-40 mm)
    - Betondekking
    - Boren van kernen ter bepaling van de betondruksterkte op 2 locaties per mast

Conform paragraaf 3.4.3. uit de rapportage van Bejan zijn 32 metingen van de druksterkte verricht over het lijndeel KIJ-BKK-DIM. Van dit totaal zijn 8 metingen verricht in het deel binnen de gemeente “De Ronde Venen”, namelijk bij mast 132, 135, 137 en 146.

De gemiddelde druksterkte van de 32 metingen bedraagt 59,9 N/mm^2, terwijl de 5% onderschrijdingswaarde van deze dataset gelijk is aan 44,4 N/mm^2.

Op basis van deze druksterkte is het veilig om te rekenen met een hogere waarde van de druksterkte dan is aangehouden in paragraaf 3.1. Vooral voor de toetsingen van de verankeringen wordt hier rekening mee gehouden.

Een veilige aanname op basis van bovenstaande is C30/37 als betonkwaliteit.

3.4 Versterkingen criteria

Het onderzoek naar de capaciteit van de funderingsconstructie wordt uitgevoerd op nieuwbouwniveau voor gevolgklasse CC2 met een referentieperiode van 50 jaar (NEN-EN-1990).

- De partiële factoren hierbij van toepassing, zie figuur 3-1:

Tabel NB.4 – A1.2(B) — Rekenwaarden van belastingen (STR/GEO) (groep B)

Blijvende en tijdelijke ontwerpsituaties	Blijvende belastingen		Overheersende veranderlijke belasting	Veranderlijke belastingen gelijktijdig met de overheersende	
	Ongunstig	Gunstig		Belangrijkste (indien aanwezig)	Andere
(Vgl. 6.10a)	1,35 $G_{k,j,sup}$ [a]	0,9 $G_{k,j,inf}$		1,5 $\psi_{0,1}\, Q_{k,1}$	1,5 $\psi_{0,i}\, Q_{k,i}$ $(i>1)$
(Vgl. 6.10b)	1,2 $G_{k,j,sup}$ [b]	0,9 $G_{k,j,inf}$	1,5 $Q_{k,1}$		1,5 $\psi_{0,i}\, Q_{k,i}$ $(i>1)$

[a] Bij vloeistofdrukken met een fysiek beperkte waarde mag zijn volstaan met 1,2 $G_{k,j,sup}$.

[b] Deze waarde is berekend met ξ = 0,89.

Figuur 3-1 Partiële factoren bij gevolgklasse CC2

Versterking die nodig zijn ten gevolge van onvoldoende capaciteit van de bestaande fundering constructie zullen eveneens op nieuwbouwniveau voor gevolgklasse CC2 met een referentieperiode van 50 jaar worden uitgewerkt.

Het effect van de grondwaterstand op de fundering (opdrijven) wordt meegenomen in beschouwing van de krachten die kunnen ontstaan in de fundering voor het geval het beton van de funderingsbalken en funderingspalen onder de (grond)waterstand liggen.

Voor de vervormingen in de SLS geldt onderstaande normtekst, zie figuur 3-2:

(ncpt) **NL.1** In addition to Part 1 it is required that (see Figure 3.3/NL.1):

- the total translation of the top of the supports shall be ≤ 5,5% of the height of the support in case of serviceability limit state loading (see table 4.13/NL.3) and shall be ≤ 1,25% of the height of the support in case of EDS (Every Day Stress);
- the deflection of supports relative to the reference shall be ≤ 0,7% of the height of the support in case of serviceability limit state loading (see table 4.13/NL.2) and shall be ≤ 0,3% of the height of the support in case of EDS (Every Day Stress).

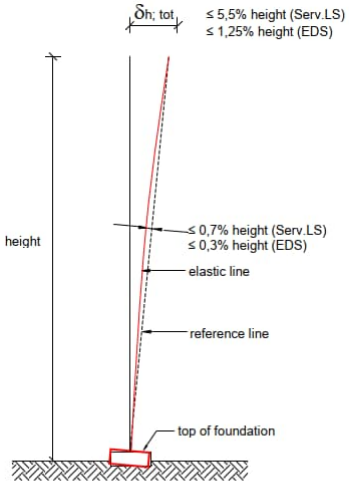


Figure 3.3/NL.1 Maximum permissible deflection of supports

Figuur 3-2 Vervormingseisen

In deze rapportage is geen toetsing uitgevoerd met betrekking tot de vervormingen volgens de Serviceability Limit State (SLS). Wel is een toetsing op sterkte conform de Ultimate Limit State (ULS) uitgevoerd. Uit deze sterkteberekening (ULS) blijkt dat vrijwel alle masten niet voldoen aan de gestelde eisen en derhalve zijn afgekeurd.

Hoewel de SLS-toetsing niet expliciet is meegenomen, is wel een beschouwing opgesteld met betrekking tot de te verwachten vervormingen op basis van de rekenmodellen Daarbij wordt opgemerkt dat in dit project uitsluitend ULS-combinaties zijn doorgerekend en geen SLS-combinaties zijn beschouwd. Ter indicatie zijn in de berekeningen (bijlage 1 t/m 7) de vervormingen weergegeven op basis van ULS-belastingen. Uit deze resultaten blijkt dat de maximale vervormingen (maatgevende per mastpoot) onder ULS-belasting respectievelijk bedragen: circa 269,8 mm voor cilinderpoeren, 31,2 mm voor het koppelframe, 11,6 mm voor het balkrooster en 42,7 mm voor blokpoeren. In overleg met de constructeur van de masten/lijnen is de verhouding tussen SLS- en

ULS-vervormingen geanalyseerd, waaruit een factor van circa 0,40 tot 0,45 volgt (waarbij conservatief 0,45 wordt aangehouden). Hieruit volgt dat de theoretische vervorming onder SLS-belasting in de orde van grootte van circa 120 mm ligt.

Vanwege het niet-lineaire gedrag van de horizontale en verticale stijfheid van de palen dient voorzichtig te worden omgegaan met deze waarden; bij lagere belasting niveaus is de effectieve stijfheid van het paalsysteem namelijk relatief hoger, waardoor de werkelijke vervormingen naar verwachting gunstiger (kleiner) zullen uitvallen dan uit de ULS-resultaten wordt afgeleid. Daarnaast is de stijfheid van de mastconstructie zelf, met name de aansluiting van de mastpoten op de fundering, niet in deze beschouwing meegenomen. Deze interactie zal in de praktijk leiden tot een verdere herverdeling van krachten en een nivellering van onderlinge relatieve vervormingen tussen funderingspunten, waardoor het globale vervormingsbeeld naar verwachting homogener en minder kritisch zal zijn dan de afzonderlijke berekende waarden suggereren.

Deze waarde dient nadrukkelijk als een theoretische benadering te worden beschouwd, gebaseerd op een statische en kortstondig optredende belasting. In de praktijk vertonen de bestaande, niet-versterkte mastfundaties momenteel geen aanwijzingen dat dergelijke vervormingen daadwerkelijk optreden; in de omliggende grond zijn geen zichtbare vervormingen waargenomen. Daarnaast hebben de uitgevoerde berekeningen betrekking op versterkte fundaties, waarbij de toegenomen stijfheid leidt tot een betere spreiding van belastingen naar de ondergrond en daarmee een gunstiger vervormingsgedrag. In afstemming met de opdrachtgever is vastgesteld dat vervormingen van deze orde vaker uit berekeningen van mastfundaties naar voren komen. Op basis hiervan worden eventuele negatieve gevolgen van vervormingen als gering tot verwaarloosbaar ingeschat.

4 Berekeningen

In dit hoofdstuk worden de berekeningen gepresenteerd die voortvloeien uit de voorgestelde versterkingsmaatregelen uit fase 1b. De focus ligt daarbij op de constructieve onderbouwing van de gekozen versterkingstypen (F1 t/m F5), waarbij gebruik wordt gemaakt van geavanceerde rekenmethoden en software.

In paragraaf 4.1 is een overzicht met toelichting gegeven op de diverse versterkingen.

In paragraaf 4.2 zijn de nieuw aan te brengen verbindingen van zowel nieuwe palen aan fundament als bestaande palen aan nieuwe fundament beschouwd. Deze verbindingen zijn doorgerekend met behulp van Excel en IDEA statica.

In paragraaf 4.3 is de verbinding van het nieuwe beton aan het bestaande beton en de doorsnedetoetsingen van het nieuwe beton opgenomen.

In paragraaf 4.4 is een doorsnedetoetsing opgenomen van de koppelbalk bij mast 144.

In paragraaf 4.5. zijn zowel de nieuwe als bestaande palen getoetst aan de door geotechniek geadviseerde maximale draagvermogen. De reacties op de palen van meerpaalsconstructies zijn geanalyseerd met SCIA-Engineer.

In paragraaf 4.6 zijn de versterkingen aan de verbindingen bij de masten 131/145, 146/147 en 148 beschouwd.

Voor de belastingen vanuit de masten wordt verwezen naar de bijbehorende rapportages in PLS-Tower. Deze rapportages zijn opgesteld door de lijnengineers vanuit hoogspanning. De beschouwde belastingen zijn op nieuwbouwniveau voor de versterkingen met palen en zijn opgenomen in bijlage 33.

De geotechnische uitgangspunten zijn gebaseerd op de rapportage: KIJ_BKK380_DIM380-000-32-0006 Geotechnisch rapport De Ronde Venen (versterkingen)

4.1 Versterkingen en toelichting

Zoals vastgesteld in het voorgaande onderzoek – KIJ_BKK380_DIM380-000-32-1001-Resultaten onderzoek (toetsingen), versie D02 – , voldoen bepaalde funderingen niet aan de eisen conform NEN8700. In hoofdstuk 8 van het betreffende onderzoek zijn daarvoor globaal versterkingsmaatregelen voorgesteld. Deze zijn ingedeeld in standaardtypen F1 t/m F5, variërend van ballastoplossingen (F1, F2) tot funderingsversterkingen met extra palen (F3, F4, F5). Voor de versterkingen met extra palen wordt gebruik gemaakt van SCIA, vanwege de benodigde geavanceerde rekenmogelijkheden.

In deze fase (fase 2) worden de versterkingen verder uitgewerkt op DO-niveau. Dit omvat gedetailleerde constructieve en geotechnische berekeningen, modelanalyses en technische documentatie. De uitgangspunten uit fase 1 blijven leidend, met als doel het realiseren van veilige, stabiele en uitvoerbare versterkingsmaatregelen binnen de gestelde planning en budget.

De berekeningen worden per type versterking uitgewerkt. Vervolgens wordt per type een toepassingsoverzicht toegevoegd waarin wordt aangegeven voor welke masten het betreffende versterkingstype van toepassing is. Specifieke aandachtspunten en afwijkingen per mast worden daarbij expliciet benoemd, zodat duidelijk is welke uitgangspunten en randvoorwaarden gelden voor de individuele mastfundaties.

- Versterking Cilinderpoer (75) (1xLD1) + 2 x paal (F3)
    - Masten 128, 129, 130, 133, 134, 135, 136, 138, 139, 140, 141, en 142 (S+0, 12 stuks)
    - Masten 131 en 145 (S+6, 2 stuks)
- Versterking Koppelframe Cilinderpoer (75) (1xLD1) + 2x paal + koppelbalk (F5)
    - Mast 144 (S+6, 1 stuk)
- Versterking Blokpoer (200) (2xLD1) + 2 x paal (F5)
    - Mast 148 (S+12, 1 stuk)
- Versterking balkenrooster (5xB) + 3 x paal (F5)
    - Masten 146 en 147 (S+9, 2 stuks)
- Totaal 19 stuks

Naast de fundatieverzwaringen zijn ook de benodigde versterkingen van de verankeringen beschouwd. Dit is van toepassing op de masten 131, 145 (S+6), 146/147 (S+9) en 148 (S+12). In de uitwerking hiervan, is gebleken dat de masten 131 en 145 niet versterkt hoeven te worden.

De onderstaande berekeningen zijn opgenomen in de volgende paragraven:

- Verbindingen (Excel/IDEA) – par. 4.2
    - Nieuwe palen aan nieuw beton
    - Bestaande palen aan nieuw beton
- Verbinding nieuwe beton aan bestaande (Excel) – par. 4.3
- Doorsnede toets beton (Excel) – par. 4.3
- Doorsnede toets beton mast 144 (SCIA) – par 4.4
- Toetsing palen (SCIA/GEO) – par 4.4
    - Nieuwe palen
    - Bestaande palen
- Versterkingen verankeringen – par 4.5

4.2 Verbinding fundering aan nieuw en bestaande palen.

De aansluiting van de LEKA-palen op de betonnen fundering wordt gerealiseerd door middel van knaggen. Deze knaggen zijn gedimensioneerd voor drie paaldiameters, te weten 219/310 mm, 273/370 mm en 324/470 mm, met draagcapaciteiten variërend van 1469 kN tot 2234 kN. De onderliggende berekeningen zijn opgenomen in de bijlagen 9 tot en met 11:

- Bijlage 9 Capaciteit knaggen aan palen 219/310 mm
- Bijlage 10 Capaciteit knaggen aan palen 273/370 mm
- Bijlage 11 Capaciteit knaggen aan palen 324/470 mm

Op dezelfde wijze is ook de capaciteit bepaald van de knaggen die aan de buitenzijde van de bestaande LD1 palen gelast moeten worden. Er is een zware variant uitgerekend (bijlage 12) en een minder zware variant (bijlage 13). De onderliggende berekeningen zijn opgenomen in de bijlagen 12 tot en met 13:

- Bijlage 12 Capaciteit knaggen aan LD1 palen (maximaal)
- Bijlage 13 Capaciteit knaggen aan LD1 palen (minimaal)

De knaggen aan de buitenzijde van de LD1 palen dragen de krachten via de nieuwe betonconstructie over naar de nieuwe LEKA-palen. Door deze constructieve koppeling wordt de kracht die vanuit de LEKA-paal in de bestaande paal moet worden ingeleid verdubbeld.

In deze paragraaf is een overzichtstabel – tabel 4-1 – weergegeven waarin de paalbelastingen en de corresponderende capaciteiten van de knaggen zijn samengevat. De volledige weergave van deze tabel is opgenomen in bijlage 14.

Tabel 4-1 Resultaten toetsing knaggen

Mast	**Paaltype**	**Maximale drukkracht in één LEKA-paal [kN]**	**Maximale trekkracht in één LEKA-paal [kN]**	**Capaciteit knag LEKA [kN/paal]**	**Capaciteit knag best. paal [kN/paal]**	**UC knag LEKA druk [kN]**	**UC knag LEKA trek [kN]**	**UC knag best. paal [kN]**	**Locatie berekening knag**
128	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
129	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
130	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
131	Rond 324/470	242,8	112,0	2234	1920	0,11	0,05	0,25	Bijlage 11&13
133	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
134	Rond 324/470	198,9	99,4	2234	1920	0,09	0,04	0,21	Bijlage 11&13

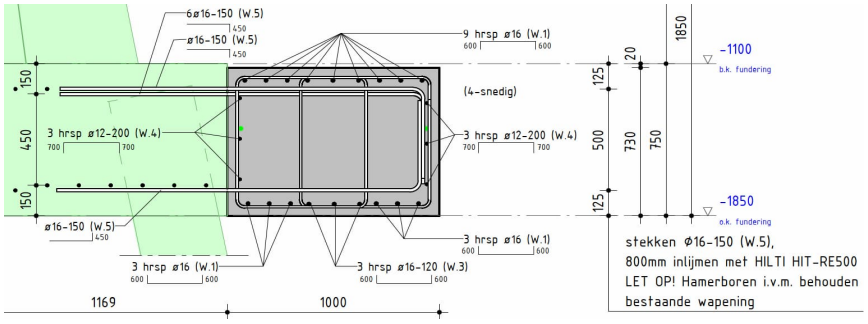
135	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
136	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
138	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
139	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
140	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
141	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
142	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
143	Rond 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
144	Rond 219/310	377,6	92,0	1469	2720	0,26	0,06	0,28	Bijlage 9&12
145	Rond 324/470	242,8	112,0	2234	1920	0,11	0,05	0,25	Bijlage 11&13
146 optie 1	Rond 219/310	462,2	189,6	1469	n.v.t	0,31	0,13		Bijlage 9
147 optie 1	Rond 219/310	216,3	159,0	2234	n.v.t	0,15	0,11		Bijlage 9
148	Rond 219/310	491,4	401,9	2234	n.v.t	0,22	0,18		Bijlage 9

Conclusie

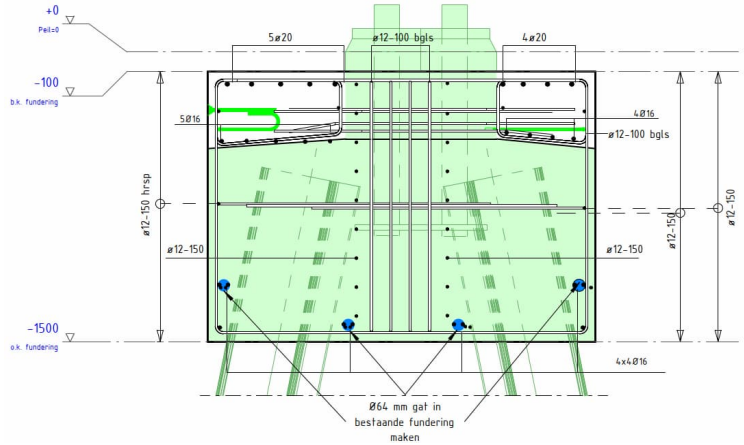
Zoals weergegeven in tabel 4.1 voldoen zowel de knaggenverbindingen van de LEKA-palen in de betonnen poeren als de knaggenverbindingen van de bestaande palen aan de nieuw te realiseren betonnen fundering aan de gestelde eisen.

4.3 Aansluitingen aan bestaande poeren + Doorsnedetoetsingen

Voor het verbinden van in het werk te storten betonnen balken en poeren met de bestaande betonnen poeren, zodat krachten vanuit ballast en palen correct worden overgedragen, is het noodzakelijk om wapening in te boren en te verlijmen. Bij het ontwerp en de uitvoering moet rekening worden gehouden met de geometrie van de bestaande betonnen onderdelen.



Figuur 4-1: Rechte aansluiting balkrooster



Figuur 4-2: Rechte aansluiting blokpoer

Bij de balken en een enkele blokpoeren, die vrijwel rechthoekig van vorm zijn, vindt de krachtsoverdracht voornamelijk plaats via wrijving tussen het bestaande en het nieuwe beton. Daarnaast moet een relatief lage splijtkracht worden overgebracht door middel van ingelijmde wapening, die voorkomt dat de stortnaad openbreekt en zorgt voor een stabiele verbinding.

In de doorsnedetoetsen van de nieuw te storten betonnen funderingen (bijlagen 15 t/m 17) is de benodigde wapening voor de

diverse contactvlakken berekend. De resultaten van deze berekeningen zijn verwerkt in de bijbehorende tekeningen.

Conclusie

Voor een betrouwbare verbinding tussen nieuw te storten beton en bestaande poeren is het essentieel om ingelijmde wapening toe te passen, afgestemd op de geometrie van de bestaande constructie. Bij rechthoekige aansluitingen wordt de krachtsoverdracht voornamelijk gerealiseerd via wrijving, aangevuld met wapening om splijtkrachten op te nemen. De benodigde wapening voor alle contactvlakken is berekend en verwerkt in de bijbehorende tekeningen, zoals vastgelegd in bijlagen 15 t/m 17.

4.4 Doorsnedetoets mast 144

De berekening van mast 144 is herzien ten opzichte van versie D01 van deze rapportage. Er is gekozen om het fundament te voorzien van een nieuwe betonnen koppelbalk welke uiteindelijk de functie van de huidige DIN30 koppelbalk overneemt.

Deze koppelbalk vormt een essentieel onderdeel in de overdracht van verticale en horizontale krachten tussen de te versterken funderingspoeren. De bestaande cilinderpoeren worden versterkt met 2 extra palen.

De uitgangspunten zijn conform hoofdstuk 3 uit deze rapportage. In afwijking van overige SCIA-modellen is de toegepaste wapening in het SCIA-model opgenomen en rechtstreeks getoetst in deze berekeningssoftware. Deze toetsing is opgenomen in bijlage 8 van deze rapportage.

Invoer en toetsing SCIA-model

Voor de versterkingsmaatregel wordt uitgegaan van een rechthoekige betonnen koppelbalk met de volgende afmetingen:

- Hoogte: 750 mm
- Breedte: 600 mm

Op basis van ontwerpberekeningen is de volgende wapening in SCIA Engineer aangebracht:

- Onderwapening: 4Ø16
- Bovenwapening: 4Ø16
- Flankwapening: 2Ø10
- Beugels: Ø10-200 mm (2snedig)

De volgende toetsingen zijn volgens Eurocode/NEN-EN 1992 uitgevoerd:

- Buigingstoets (ULS)

Controle op de benodigde langswapening in verband met de maatgevende positieve en negatieve buigmomenten als mede optredende normaalkrachten.

- Dwarskrachttoets (ULS)
  Verificatie van de benodigde dwarskrachtwapening (beugels) op basis van de optredende dwarskrachten/wringing en de capaciteit van de betondoorsnede.

Voor de balk (750×600) tonen de SCIA-controles in bijlage 8 aan dat wordt voldaan aan de ULS:

- N–M interactie (UC_max = 0,64)
- Dwarskracht (UC_shear,max = 0,60)
- Torsie (UC_tor,max = 0,17)
- Gecombineerde afschuivingtorsie (UC_total,max = 0,09).

Definitief gekozen wapening

Op basis van de rekenresultaten is de toegepaste wapening als volgt:

- Onderwapening: 4Ø16
- Bovenwapening: 4Ø16
- Flankwapening: 2Ø10
- Beugels: Ø10-200 mm (3snedig) in overeenstemming met de detaillering bepalingen

4.5 Toetsing paalcapaciteiten

De krachten uit de SCIA-berekening van de fundering worden getoetst aan de hand van de capaciteiten van de palen. De resultaten worden in tabelvorm weergegeven.

De berekeningen en modelinvoer zijn te vinden in de bijlagen 1 t/m 7, daarnaast wordt verwezen naar de overzichtslijst in bijlage ##.

Tabel 4-2 Resultaten toetsing paaldraagvermogens na versterking

Resultaten toetsingen paaldraagvermogens na versterking									
Mast	**Paaltype**	**$F_{Ed,druk}$ [kN]**	**$F_{Ed,trek}$ [kN]**	**$F_{Rd,druk}$ [kN]**	**$F_{Rd,trek}$ [kN]**	**UC $_{druk}$**	**UC $_{trek}$**	**Maatgevende U.C.**	**Bijlage ##**
128	LD1+p	797	193	965	240	0,83	0,80	0,83	1
	Rond 324/470	244,6	125,3	877	253	0,28	0,50		
129	LD1+p	797	193	1184	308	0,67	0,63	0,67	1
	Rond 324/470	244,6	125,3	1143	325	0,21	0,39		
130	LD1+p	797	193	1058	263	0,75	0,73	0,75	1
	Rond 324/470	244,6	125,3	932	277	0,26	0,45		
131	LD1+p	931	295	931	301	1,00	0,98	1,00	2
	Rond 324/470	242,8	112,0	968	322	0,25	0,35		
133	LD1+p	797	193	940	285	0,85	0,68	0,85	1
	Rond 324/470	244,6	125,3	1062	310	0,23	0,40		
134	LD1+p	1075	285	1132	285	0,95	1,00	1,00	3
	Rond 324/470	198,9	99,4	1105	307	0,18	0,32		
135	LD1+p	797	193	1075	230	0,74	0,84	0,84	1
	Rond 324/470	244,6	125,3	1038	282	0,24	0,44		
136	LD1+p	797	193	949	222	0,84	0,87	0,87	1
	Rond 324/470	244,6	125,3	892	279	0,27	0,45		
138	LD1+p	797	193	1755	333	0,45	0,58	0,58	1
	Rond 324/470	244,6	125,3	1503	365	0,16	0,34		
139	LD1+p	797	193	1120	340	0,71	0,57	0,71	1
	Rond 324/470	244,6	125,3	1249	365	0,20	0,34		
140	LD1+p	797	193	1622	322	0,49	0,60	0,60	1
	Rond 324/470	244,6	125,3	1452	352	0,17	0,37		
141	LD1+p	797	193	904	193	0,88	1,00	1,00	1
	Rond 324/470	244,6	125,3	1117	308	0,22	0,41		
142	LD1+p	797	193	797	200	1,00	0,97	1,00	1
	Rond 324/470	244,6	125,3	1197	367	0,20	0,34		
143	LD1+p	797	193	982	222	0,81	0,87	0,87	1

	Rond 324/470	244,6	125,3	1118	284	0,22	0,44		
144	LD1+p	849	236	849	236	1,00	1,00	1,00	4
	Rond 219/310	377,6	92	659	229	0,57	0,40		
145	LD1+p	931	295	1397	295	0,67	1,00	1,00	2
	Rond 324/470	242,8	112	1294	329	0,19	0,34		
146 optie 1	32*32 cm bet.	74,9	25,4	76	27	0,99	0,94	0,99	5
	Rond 219/310	491,2	170,3	1018	249	0,48	0,68		
147 optie 1	32*32 cm bet.	237,2	32	403	32	0,59	1,00	1,00	6
	Rond 219/310	242,8	141,3	733	200	0,33	0,71		
148	2 LD1+p	856	196	856	196	1,00	1,00	1,00	7
	Rond 219/310	491,4	401,9	1761	524	0,28	0,77		

In de voorgaande hoofdstuk 4 zijn de toetsingen uitgevoerd op de verbindingen, betondoorsneden en paaldraagvermogens. De resultaten zijn toegevoegd aan de Excel-bestand waarin alle assetdata is verzameld dat als volgt is opgebouwd:

- Mastkenmerken,
    - Nummer,
    - Type,
    - Hoogte,
- Fundering gegevens,
    - Palen,
        - Type,
        - Aantal,
        - Lengte,
        - Paalpunt,
        - Schoor,
    - Poeren,
        - Afmetingen,
    - Balken,
        - Afmetingen,
- Verankering gegevens,
    - Mastpoot aan fundering,
    - Fundering aan paal,
- Resultaten berekeningen,
    - Modellen,
    - Uitgangspunten,
    - Trek/druk krachten in palen,
- Input belastingen vanuit Hoogspanning,
    - Afkeur,
    - Verbouw,
- Toetsing,
    - Verankeringen,
    - Paalcapaciteiten,

- Versterkingen
    - Categorie F1 t/m F5

Bovenstaande gegevens zijn opgenomen in bijlage 21.

4.6 Versterkingen verankeringen

4.6.1 Toetsingen aansluiting stalen masten op betonconstructie funderingen

In document KIJ_BKK380_DIM380-000-32-1008-Resultaten onderzoek De Ronde Venen (toetsingen), versie D02 zijn de onderstaande toetsingen uitgevoerd:

1. Aansluiting randstijl stalen mast op betonfundering onder drukbelasting.
2. Aansluiting betonfundering op funderingspaal onder drukbelasting.
3. Aansluiting randstijl stalen mast op betonfundering onder trekbelasting.
4. Aansluiting betonfundering op funderingspaal onder trekbelasting.
5. Geotechnisch draagvermogen onder druk of trekbelasting.

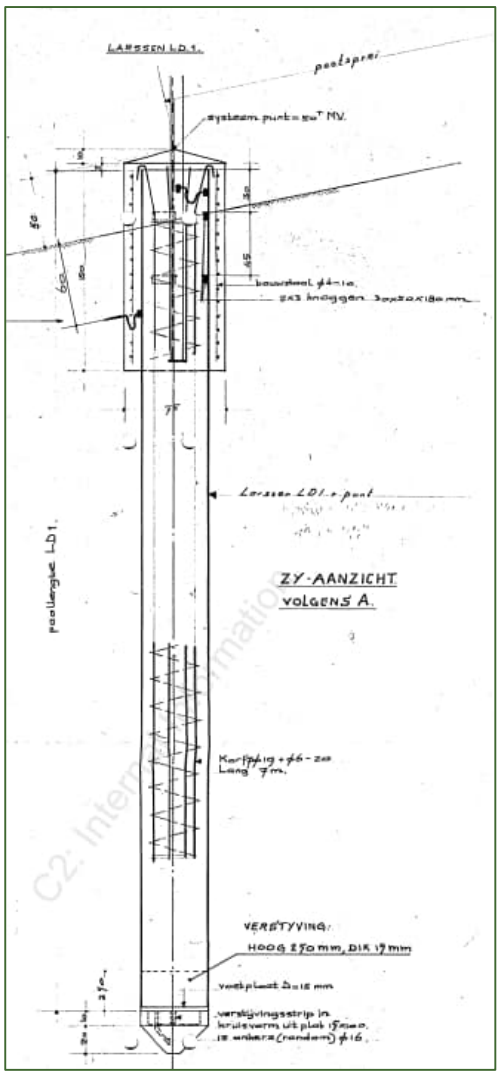
Uit bovengenoemde toetsingen bleek van een aantal masten de toetsing niet (geheel) te voldoen. Dit betreft de onderstaande masten:

- Mast 131 en 145: Aansluiting betonfundering op funderingspaal onder drukbelasting (2).
- Masten 146 en 147: Aansluiting randstijl op betonfundering en aansluiting betonfundering op funderingspaal onder trekbelasting (3 en 4).
- Masten 148: Aansluiting randstijl op betonfundering onder druk en trekbelasting.

4.6.2 Masten 131 en 145

Uit de constructietekening van de funderingspalen die onder deze masten zijn toegepast blijkt dat de stalen paal over de gehele hoogte is gevuld met gewapend beton (zie figuur 4-3). Een toetsing op afschuiving tussen het beton en de binnenkant van de stalen paal is niet nodig. De drukbelasting wordt rechtstreeks naar de paalpunt doorgegeven zonder afschuiving tussen beton en de binnenkant van de paal.

De fundering van deze masten moet wel worden versterkt omdat niet is voldaan aan de toetsing op geotechnisch draagvermogen.



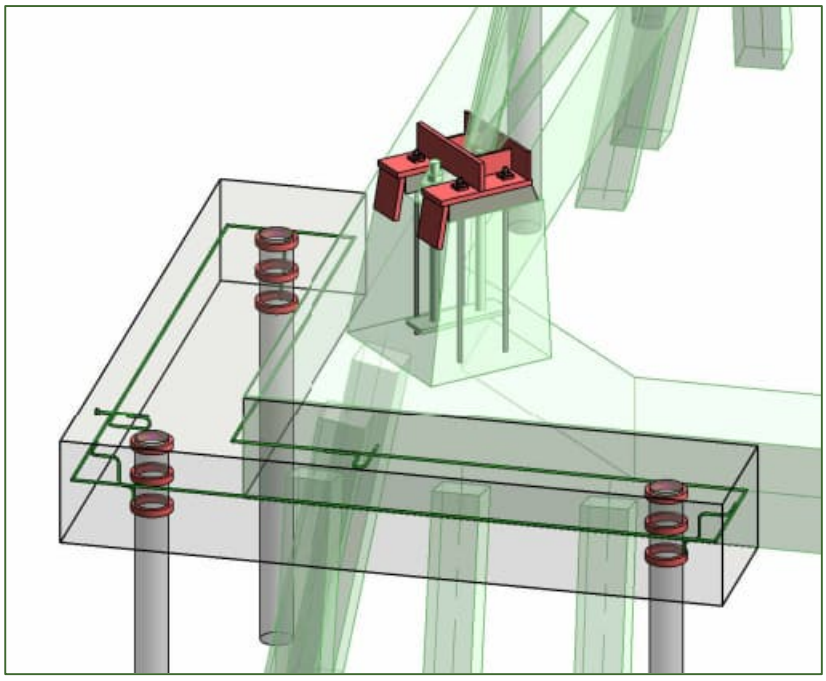
Figuur 4-3 Fragment tekening funderingspaal met een volledig gevulde funderingspaal

4.6.3 Masten 146 en 147

De aansluiting mastpoot betonfundering voldoet niet onder trekbelasting, wel onder drukbelasting.

De aansluiting moet dus worden versterkt. De versterking bestaat uit:

- Nieuwe ingelijmde ankers, totaal 4 stuks Hilti HZA ankers M27 met een inlijmdiepte van 1100 mm. De ankers worden in het beton, naast de bestaande voetplaat geboord. Het boorgat mag met diamant worden geboord, maar het boorgat moet daarna worden opgeruwd met een daarvoor geschikte boor.
- Nieuwe stalen voetplaten t = 40 mm, totaal 2 stuks die bovenop de bestaande voetplaat van de mastpoot worden gelast waar bovengenoemde lijmankers in worden geplaatst.
- Versterkingschotten die op de nieuwe en bestaande voetplaten worden gelast om de krachten tussen de bestaande mastpoot en de nieuwe lijmankers over te brengen.
- Doordat de Hilti HZA-ankers geen afschuifkrachten kunnen opnemen moet de horizontale belasting worden opgenomen door een tweetal platen de onder de nieuwe voetplaten worden gelast.



Figuur 4-4 Stalen versterking gelast op de bestaande voetplaat van de mastpoot (rood)

De constructieve toetsingen zijn uitgevoerd in bijlage 19. Hieronder volgt een samenvatting van de uitkomst:

- Buiging nieuwe voetplaten t =40 mm: u.c. = 0,65.
- Buiging versterkingschotten t = 35 mm: u.c. = 0,74.
- Buiging versterkingschotten t = 20 mm: u.c. = 0,58.
- Trek op nieuwe lijmankers Hilti HZA M27: u.c. = 0,86.
- Opname horizontale belasting: u.c. = 0,65.
- Controle wapening bestaande kolom: u.c. = 0,78.

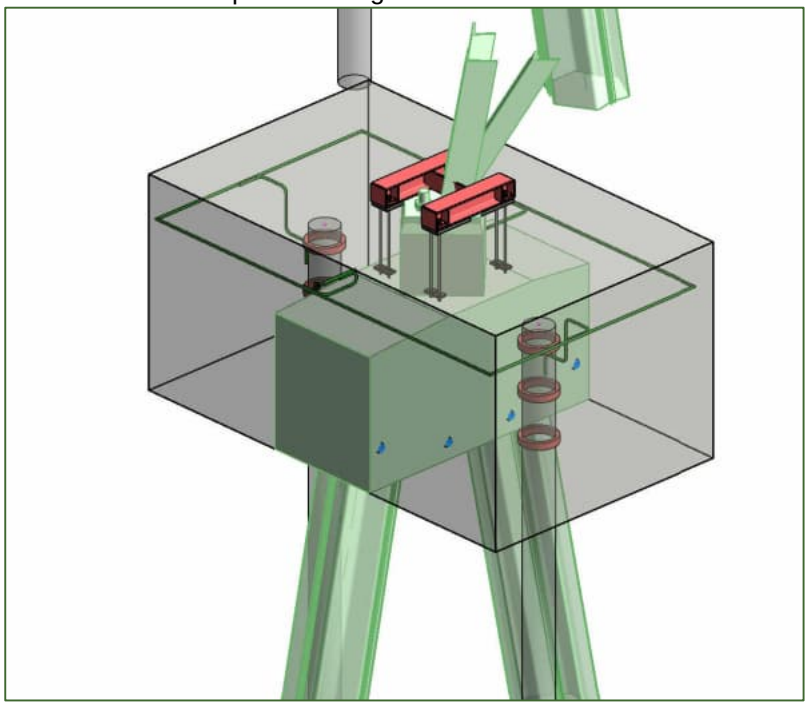
Uit bovenstaande toetsingen blijkt dat de versterking voldoet.

4.6.4 Mast 148

De aansluiting mastpoot betonfundering voldoet niet onder trekbelasting en ook niet onder drukbelasting. De bestaande poer wordt vergroot om dat er extra palen moeten worden geplaatst.

De aansluiting moet dus worden versterkt. De versterking bestaat uit:

- Totaal 8 ankers M16 8.8 ankers. De verankering in het beton wordt uitgevoerd met ankerplaten.
- Totaal 2 stuks HEB-140.
- Versterkingsplaat tussen de 2 HEB-140 profielen die tevens op de bestaande voetplaat wordt gelast.



Figuur 4-5 Versterking verankering voetplaat met totaal 8 ankers M16 en 2 stuks HEB-140

De constructieve toetsingen zijn uitgevoerd in bijlage 20. Hieronder volgt een samenvatting van de uitkomst:

- Buiging nieuwe HEB-140: u.c. = 0,87.
- Trek op nieuwe ankers M16 met ankerplaat: u.c. = 0,89.
- Drukspanning onder bestaande voetplaat: u.c. = 0,85.
- Opname horizontale belasting: u.c. = 0,81.
- Wapening poer u.c. = 0,89.

Uit bovenstaande toetsingen blijkt dat de versterking voldoet.

5 Uitvoeringsaspecten

Ten aanzien van de uitvoering van de diverse versterkingen zijn er een aantal uitvoeringsaspecten die in deze berekeningsrapportage aandacht krijgen. Deze aspecten worden daarmee zowel op tekening als in onderhavige rapportage benoemd.

5.1 Algemeen

Alle aansluitvlakken tussen bestaand beton en nieuw beton dienen te worden opgeruwd. De ruwheid dient daarbij groter of gelijk te zijn aan 3 mm. Dit kan worden bereikt door mechanisch opruwen (bijv. stralen, haken, frezen) tot een ruweheid van ≥ 3 mm of betonvlak te profileren met groeven of ribbels ≥ 5 mm diep. Daar waar een coating aanwezig is dient deze ter plaatse van het aansluitvlak verwijderd te worden.

Alle wapening dient conform tekening aangebracht te worden, waarbij de dekking 45 mm bedraagt. Deze dekking is inclusief de normtechnische uitvoeringstolerantie van 5 mm.

Alle beton dient te voldoen aan sterkteklasse en milieuklasse zoals op tekening vermeld is. Er zijn verschillende milieuklassen van toepassing, waarmee wordt voldaan aan de verschillende TenneT eisen.

Alle in te lijmen wapening dient conform tekening en conform verwerkingsrichtlijnen van leverancier verwerkt te worden.

Alle maatvoering op tekening dient in het werk gecontroleerd te worden. Dit geldt ook voor alle aangeleverde tekeningen met RD coördinaten.

Daar waar bestaande funderingsconstructies gecoat zijn dient ook de versterking van een beschermende coating voorzien te worden.

5.2 Funderingspalen

Alle nieuwe palen worden toegepast in een dikte van t=12,5 mm. Dit is inclusief corrossietoeslag, waarmee wordt voldaan aan TenneT eisen.

De palen dienen aangebracht te worden met een tolerantie van maximaal 50 mm in willekeurige richting. Grotere paalafmetingen dienen gemeld te worden en kunnen leiden tot aanpassingen in de versterkingsoplossing.

De palen worden voorzien van een praktische wapeningskorf afhankelijk van de gekozen paaldiameter. De schachtdiameters zijn resp. ø219, ø273 en ø324 mm en de korf is daarop afgestemd. De wapeningskorf dient omgezet te worden onder de aanwezige bovenwapening en gekoppeld met de wapeningskorf (t.b.v. aarding) Dekking tussen buis en korf is 30 mm.

Alle palen dienen uitgevoerd te worden met groutinjectie, conform geotechnisch advies.

Alle nieuwe funderingspalen dienen voorzien te worden van ringdeuvels aan de buitenzijde van de paal gelast. Een en ander overeenkomstig details op het palenplan.

5.3 Knaggen aan bestaande LD1

Bij diverse versterkingen dienen knaggen gelast te worden aan de bestaande LD1 palen. Ten behoeve van het aanbrengen van deze knaggen dient de aanwezige betonschil om deze palen verwijderd te worden, een en ander overeenkomstig tekeningen.

De afmetingen van deze knaggen en de lasdikte van deze knaggen is op het matenplan aangegeven.

5.4 Wapening

Bij het uitwerken van de wapening dient rekening gehouden te worden met de mogelijkheid van paalafwijkingen.

- Daar waar mogelijk mogen de beugels naast de palen uitgevoerd worden als dubbele haarspeld. De voorwaarde daarbij is dat er voldoende overlappingslas gerealiseerd kan worden.
- Daar waar het niet mogelijk is om dubbele haarspelden toe te passen in plaats van beugels dienen extra beugels meegeleverd te worden, waarbij deze beugels resp. 25 en 50 mm breder en 25 en 50 mm smaller worden uitgevoerd. Daarmee kan de wapening eenvoudig worden aangepast aan de gerealiseerde funderingspaal.

5.5 Aarding

Dit is een raakvlak met de constructie. De aardingsvoorzieningen moeten worden aangebracht conform de vormtekeningen van de versterkingen. Op deze tekening zijn de benodigde specificaties aangegeven in legenda en details.

5.6 Specifieke punten

Blokpoer (200) (2xLD1) + 2 extra palen

Bij dit fundament is het noodzakelijk om sparingen door het bestaande betonblok te maken ten behoeve van de benodigde trekbanden in het fundament. Deze sparingen dienen aangebracht te worden alvorens de palen worden aangebracht. Tevens is het belangrijk dat de geboorde gaten worden gecontroleerd en vastgelegd, indien daarbij afwijkingen optreden (bijv. raken van wapening) dient dit gemeld te worden bij opdrachtgever.

Balkrooster (4xB) en Balkrooster (5xB) + 2/3 extra palen

Bij deze versterking is het belangrijk dat de posities van de bestaande funderingspalen worden verkend alvorens de nieuwe palen aan te brengen.

Cilinderpoeren (75) (1xLD1) + 2 extra palen

Deze versterking is gevoelig voor paalafwijkingen uit het vlak. Paalafwijkingen groter dan 50 mm uit het vlak kunnen leiden tot de toepassing van extra palen ten einde de optredende krachten ten gevolge van paalmisstand af te kunnen dragen.

Bijlagen

Bijlage 1 uitvoer SCIA - Cilinderpoer 75_LD1_S+0 (54 bladzijden)

Bijlage 2 uitvoer SCIA - Cilinderpoer 75_LD1_S+6 (55 bladzijden)

Bijlage 3 uitvoer SCIA - Cilinderpoer 75_LD1_S+0_134 (54 bladzijden)

Bijlage 4 uitvoer SCIA - Koppelframe_LD1_S+6_144 (58 bladzijden)

Bijlage 5 uitvoer SCIA - Balkrooster_5B_S+9_146 (66 bladzijden)

Bijlage 6 uitvoer SCIA - Balkrooster_5B_S+9_147 (66 bladzijden)

Bijlage 7 uitvoer SCIA - Blokpoer 200_2LD1_S+12_148 (68 bladzijden)

Bijlage 8 uitvoer SCIA – Koppelframe_LD1_S+6_144_Wapening (23 bladzijden)

Bijlage 9 uitvoer Knaggen - Leka 219/310

Bijlage 10 uitvoer Knaggen - Leka 273/370

Bijlage 11 uitvoer Knaggen - Leka 324/470

Bijlage 12 uitvoer Knaggen - Buitenzijde LD1 (max)

Bijlage 13 uitvoer Knaggen - Buitenzijde LD1 (min)

Bijlage 14 UC Knaggen

Bijlage 15 doorsnede toets Blokpoer 2 x LD1

Bijlage 16 doorsnede toets Cilinderpoer 75_LD1

Bijlage 17 doorsnede toets Balkrooster

Bijlage 18 verzamellijst krachten doorsnedetoetsen

Bijlage 19 verankeringen mast 146/147

Bijlage 20 verankering mast 148

Bijlage 21 overzichtslijst mastfundaties

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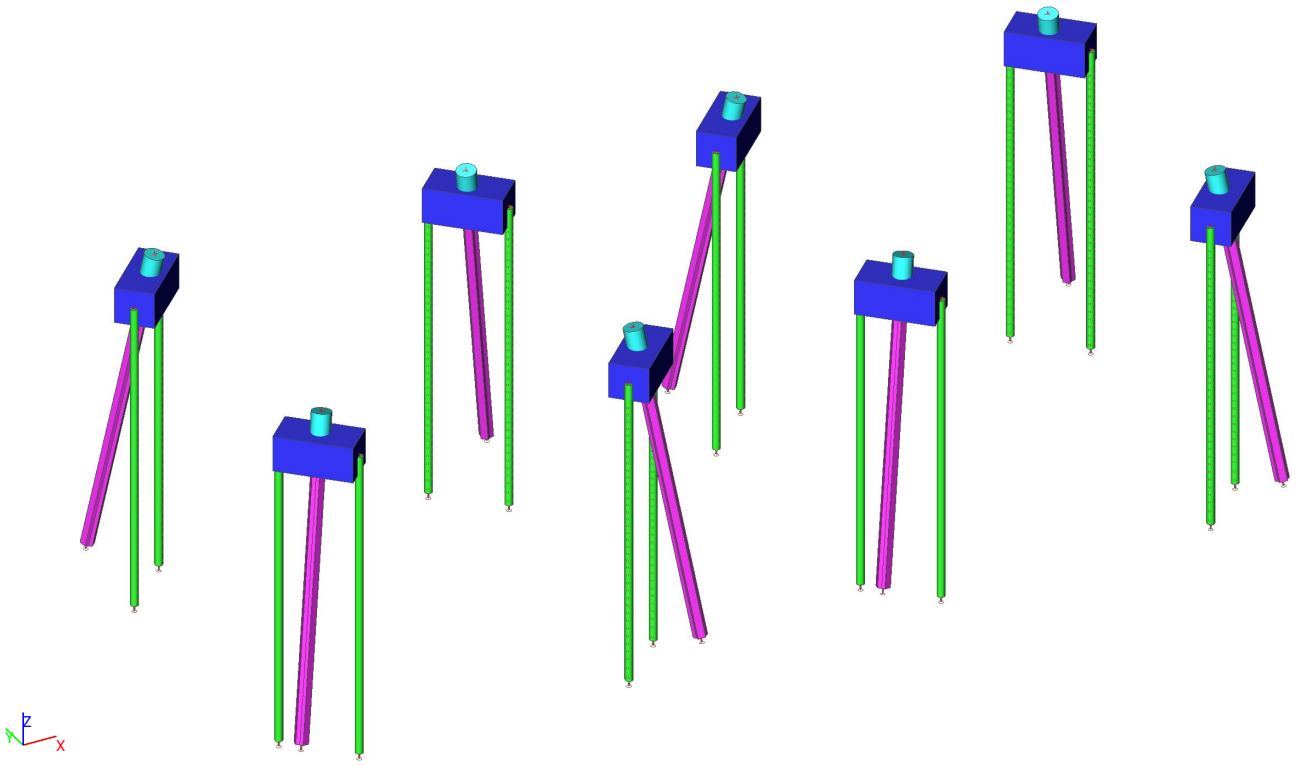
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2. Project

Licence user	[redacted]
Project	De Ronde Venen 380kV
Part	Cilinder 75 + palen S+0
Author	[redacted]
Date	11-05-2026
Structure	General XYZ
No. of nodes :	56
No. of beams :	40
No. of slabs :	0
No. of solids :	0
No. of used profiles :	4
No. of load cases :	9
No. of used materials :	8
Acceleration of gravity [m/s^2]	9,807
National code	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materials

Steel EC3

Name	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Colour
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	

Name	Type	ρ [kg/m³]	Density in fresh state [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Colour
C12/15 Gescheurd	Concrete	2500,00	2600,00	9,0000e+03	0,23	0,01e-003	12,00	
C30/37 Gescheurd	Concrete	2500,00	2600,00	1,1000e+04	0,20	0,01e-003	30,00	
C30/37	Concrete	1500,00	2600,00	1,0900e+04	0,20	0,01e-003	30,00	
C12/15 Gescheurd	Concrete	1500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	

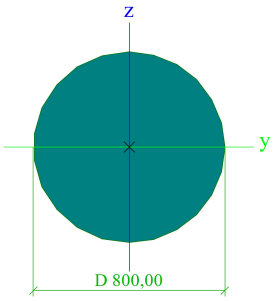
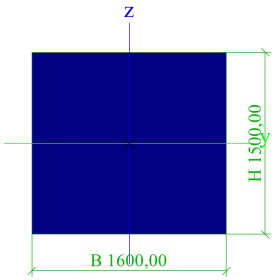
Explanations of symbols	
Density in fresh state	The value in the density in fresh state property is used only in case a composite deck is input and its self-weight load is taken into account.

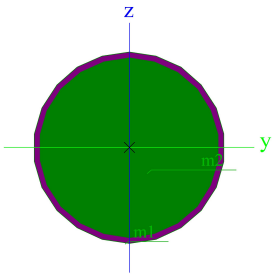
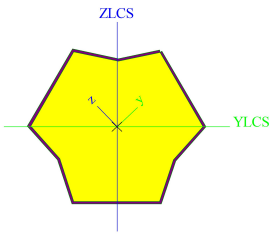
Reinforcement EC2

Name	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 400A	Reinforcement steel	7850,00	2,0000e+05	8,3333e+04	0,01e-003	400,0

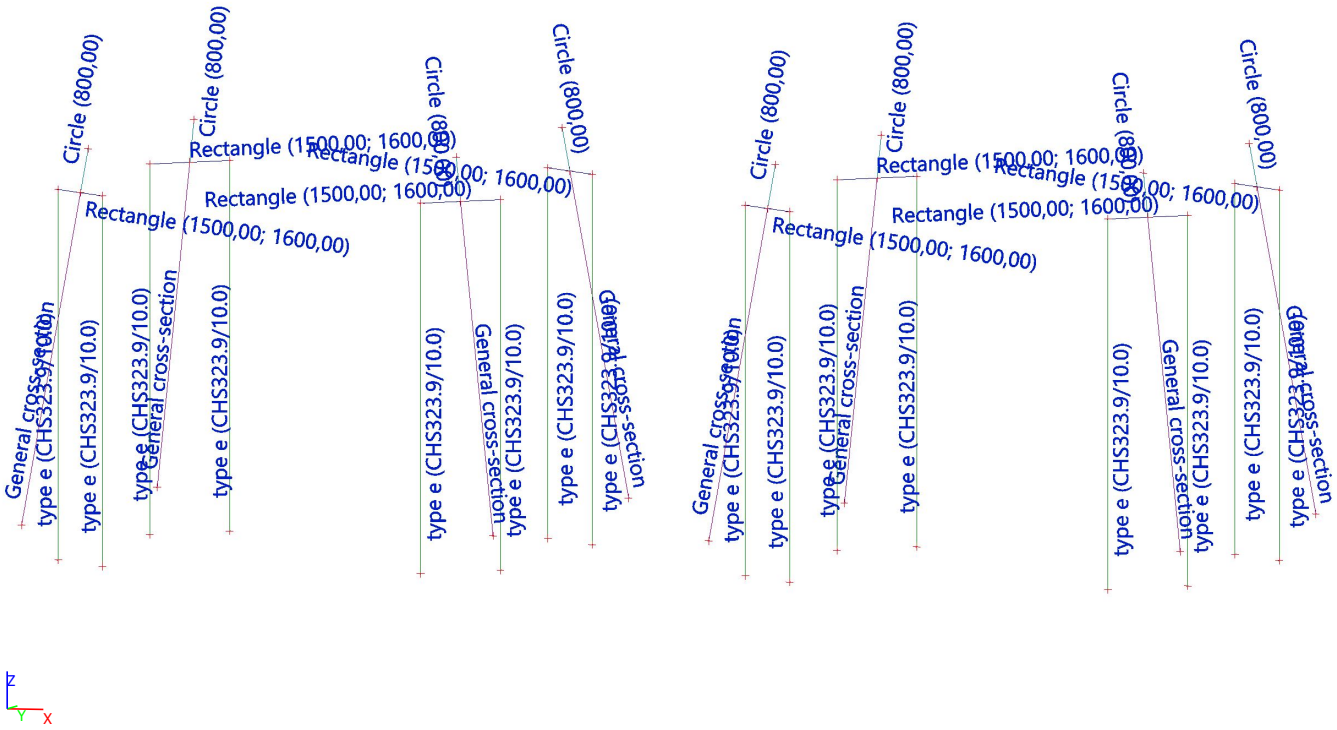
4.2. Cross-sections

Poer800		
Type	Circle	
Detailed	800,00	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
Fabrication	general	
Colour		
A [mm²]	5,0265e+05	
A_y [mm²], A_z [mm²]	4,5239e+05	4,5239e+05
A_L [m²/m], A_D [m²/m]	2,5131e+00	2,5131e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	400,00	400,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	2,0106e+10	2,0106e+10
i_y [mm], i_z [mm]	199,98	199,98
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,0265e+07	5,0265e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	8,5333e+07	8,5333e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	4,0212e+10	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00

Picture		
lijnpoer		
Type	Rectangle	
Detailed	1500,00; 1600,00	
Shape type	Thick-walled	
Item material	C30/37 Gescheurd	
Fabrication	concrete	
Colour		
A [mm²]	2,4000e+06	
A_y [mm²], A_z [mm²]	2,0007e+06	2,0008e+06
A_L [m²/m], A_D [m²/m]	6,2000e+00	6,2000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	800,00	750,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	4,5000e+11	5,1200e+11
i_y [mm], i_z [mm]	433,01	461,88
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	6,0000e+08	6,4000e+08
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	8,0849e+11	2,2447e+15
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LEKA Paal		
Type	type e	
Detailed	CHS323.9/10.0	
Shape type	Thick-walled	
Item material	S 235	
	C30/37	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	a	a
A [mm²]	1,3624e+04	
A_y [mm²], A_z [mm²]	9,1187e+03	9,1187e+03
A_L [m²/m], A_D [m²/m]	1,0175e+00	1,0175e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	161,95	161,95
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	1,4326e+08	1,4326e+08
i_y [mm], i_z [mm]	102,54	102,54
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	8,8458e+05	8,8458e+05
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	1,1479e+06	1,1479e+06
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	269749430,18	269749430,18

$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	269749430,18	269749430,18
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	2,9003e+08	2,9935e+04
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LD1(31-plank)		
Type	General cross-section	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
	S 235	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	d	d
A [mm²]	6,0572e+05	
A_y [mm²], A_z [mm²]	3,6248e+05	3,6314e+05
A_L [m²/m], A_D [m²/m]	1,7651e+00	3,4664e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	553,25	9,99
$I_{Y.LCS}$ [mm⁴], $I_{Z.LCS}$ [mm⁴]	1,6274e+10	1,6264e+10
$I_{YZ.LCS}$ [mm⁴]	-1,0231e+08	
α [deg]	43,55	
I_y [mm⁴], I_z [mm⁴]	1,6372e+10	1,6167e+10
i_y [mm], i_z [mm]	164,40	163,37
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,7898e+07	5,8163e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	4,9594e+07	4,9245e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	601215312,58	595125922,92
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	597037111,16	590937542,96
d_y [mm], d_z [mm]	0,12	0,03
I_t [mm⁴], I_w [mm⁶]	2,6243e+10	1,7700e+12
β_y [mm], β_z [mm]	0,09	0,21
Picture		

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Mesh setup

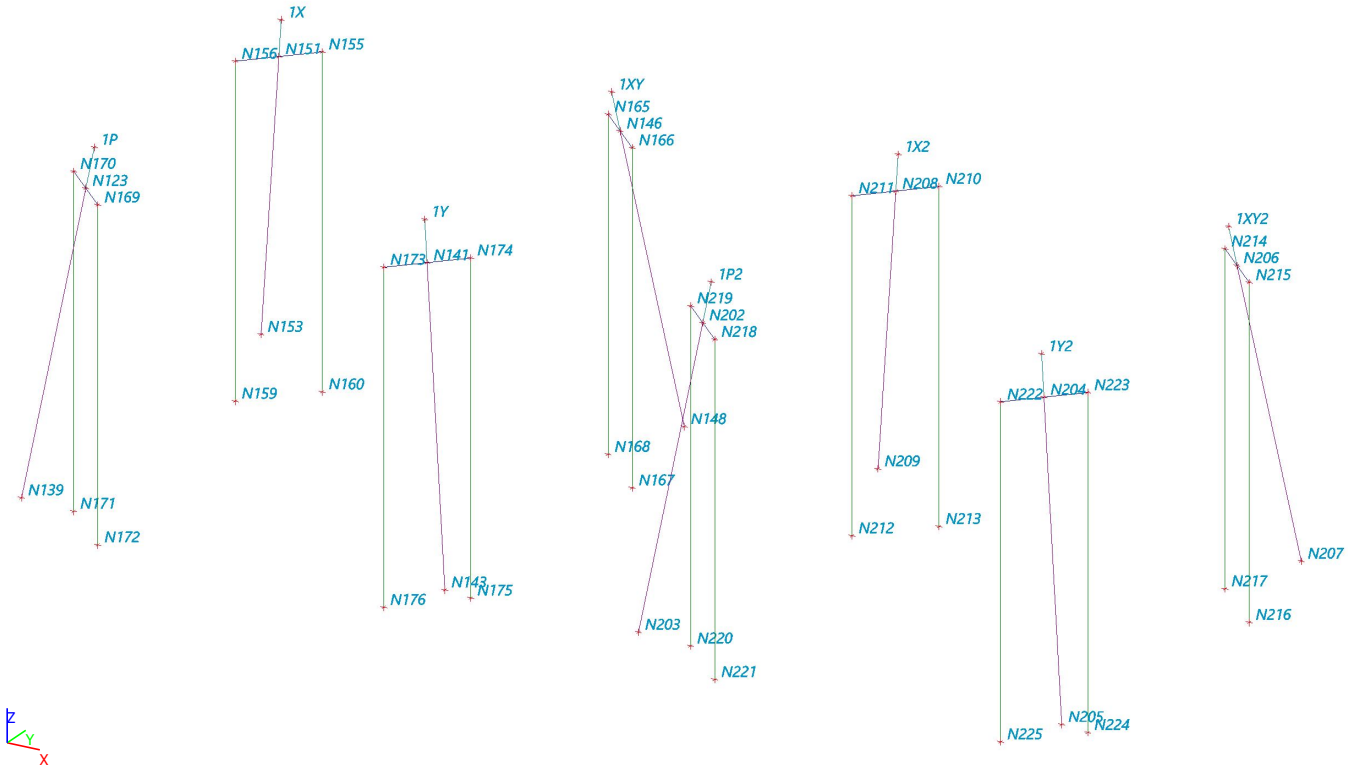
Name	MeshSetup1
Generation of variable eccentricities on members instead of constant ones	×
Generation of nodes in connections of beam elements	×
Elastic mesh	✓
Use automatic mesh refinement	×
Connect members/nodes	✓
Division on haunches and arbitrary members	5
Division for integration strip and 2D-1D upgrade	50
Average number of 1D mesh elements on straight 1D members	1
Average size of 2D mesh element [m]	0,200
Average size of 1D mesh element on curved 1D members [m]	0,100
Minimal length of beam element [m]	0,100
Maximal length of beam element [m]	1000,000
Average size of tendons, elements on subsoil, nonlinear soil spring [m]	1,000
Maximal out of plane angle of a quadrilateral [mrad]	30,0
Minimal distance between definition point and line [m]	0,001
Average size of panel element [m]	1,000
Mesh refinement following the beam type	None
Definition of mesh element size for panels	Manual

5. Geometrie

5.1. Nodes

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N123	-0,427	-0,433	-0,250
1P	-0,209	-0,212	1,279
N139	-2,089	-2,097	-11,800
N141	13,399	-0,433	-0,250
1Y	13,181	-0,212	1,279
N143	15,061	-2,097	-11,800
N146	13,399	13,405	-0,250
1XY	13,181	13,184	1,279
N148	15,061	15,069	-11,800
N151	-0,427	13,405	-0,250
1X	-0,209	13,184	1,279
N153	-2,089	15,069	-11,800
N155	0,693	14,525	-0,250
N156	-1,560	12,272	-0,250
N159	-1,560	12,272	-13,230
N160	0,693	14,525	-13,230
N165	12,279	14,525	-0,250
N166	14,532	12,272	-0,250
N167	14,532	12,272	-13,230
N168	12,279	14,525	-13,230
N169	0,693	-1,553	-0,250
N170	-1,560	0,700	-0,250
N171	-1,560	0,700	-13,230
N172	0,693	-1,553	-13,230
N173	12,279	-1,553	-0,250
N174	14,532	0,700	-0,250
N175	14,532	0,700	-13,230
N176	12,279	-1,553	-13,230
N202	24,573	-0,433	-0,250
1P2	24,791	-0,212	1,279
N203	22,911	-2,097	-11,800
N204	38,399	-0,433	-0,250
1Y2	38,181	-0,212	1,279
N205	40,061	-2,097	-11,800
N206	38,399	13,405	-0,250
1XY2	38,181	13,184	1,279
N207	40,061	15,069	-11,800
N208	24,573	13,405	-0,250
1X2	24,791	13,184	1,279
N209	22,911	15,069	-11,800
N210	25,693	14,525	-0,250
N211	23,440	12,272	-0,250
N212	23,440	12,272	-13,230
N213	25,693	14,525	-13,230
N214	37,279	14,525	-0,250
N215	39,532	12,272	-0,250
N216	39,532	12,272	-13,230
N217	37,279	14,525	-13,230
N218	25,693	-1,553	-0,250
N219	23,440	0,700	-0,250
N220	23,440	0,700	-13,230
N221	25,693	-1,553	-13,230
N222	37,279	-1,553	-0,250
N223	39,532	0,700	-0,250
N224	39,532	0,700	-13,230
N225	37,279	-1,553	-13,230

5.2. Analyse model met knopen

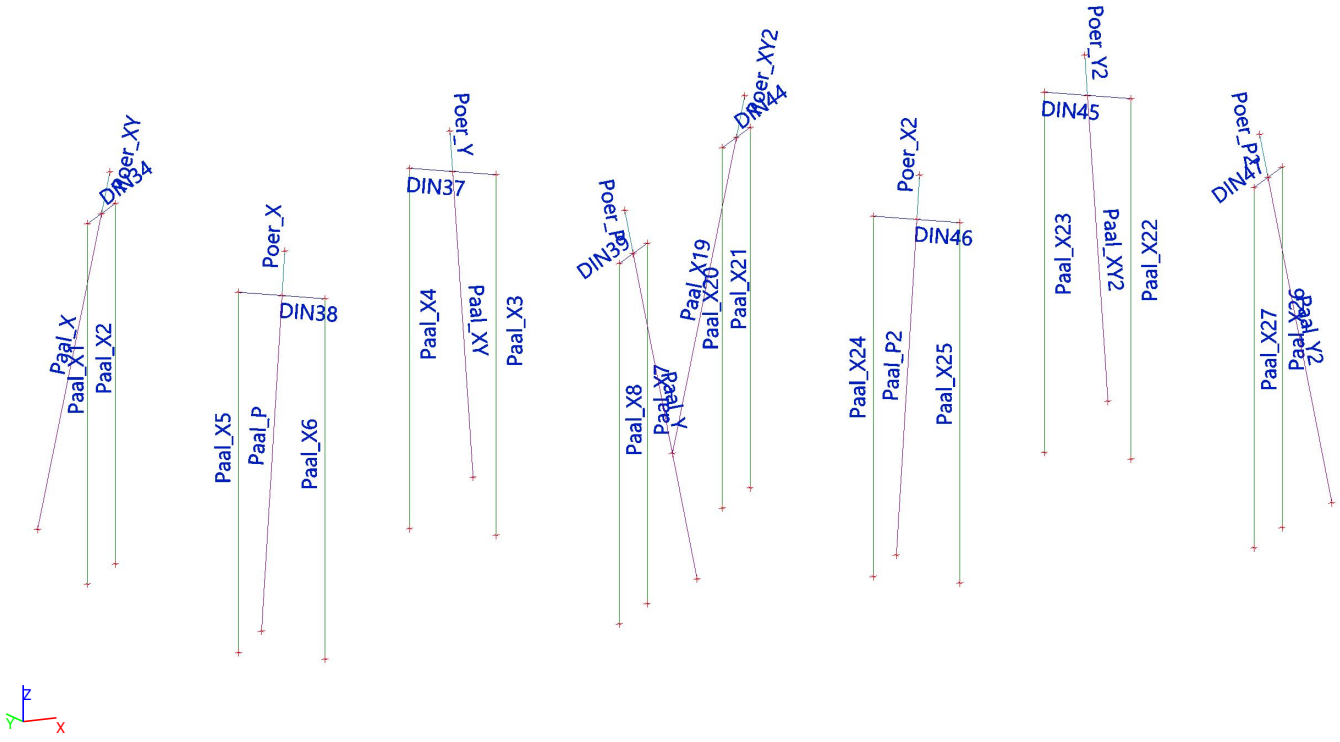


5.3. Members

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
DIN34	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N156	N155	beam (80)
DIN37	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N166	N165	beam (80)
DIN38	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N170	N169	beam (80)
DIN39	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N174	N173	beam (80)
DIN44	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N211	N210	beam (80)
DIN45	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N215	N214	beam (80)
DIN46	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N219	N218	beam (80)
DIN47	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N223	N222	beam (80)
Paal_P	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N123	N139	column (100)
Paal_P2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N202	N203	column (100)
Paal_X	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N151	N153	column (100)
Paal_X1	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N156	N159	column (100)
Paal_X2	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N155	N160	column (100)
Paal_X3	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N166	N167	column (100)
Paal_X4	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N165	N168	column (100)
Paal_X5	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N170	N171	column (100)
Paal_X6	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N169	N172	column (100)
Paal_X7	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N174	N175	column (100)
Paal_X8	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N173	N176	column (100)
Paal_X19	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N208	N209	column (100)
Paal_X20	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N211	N212	column (100)
Paal_X21	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N210	N213	column (100)
Paal_X22	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N215	N216	column (100)
Paal_X23	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N214	N217	column (100)
Paal_X24	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N219	N220	column (100)
Paal_X25	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N218	N221	column (100)
Paal_X26	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N223	N224	column (100)
Paal_X27	LEKA Paal - type e (CHS323.9/10.0)	S 235	12,980	N222	N225	column (100)
Paal_XY	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N146	N148	column (100)

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
Paal_XY2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N206	N207	column (100)
Paal_Y	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N141	N143	column (100)
Paal_Y2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N204	N205	column (100)
Poer_P	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N141	1Y	column (100)
Poer_P2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N204	1Y2	column (100)
Poer_X	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N123	1P	column (100)
Poer_X2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N202	1P2	column (100)
Poer_XY	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N151	1X	column (100)
Poer_XY2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N208	1X2	column (100)
Poer_Y	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N146	1XY	column (100)
Poer_Y2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N206	1XY2	column (100)

5.4. Analyse model met Staven

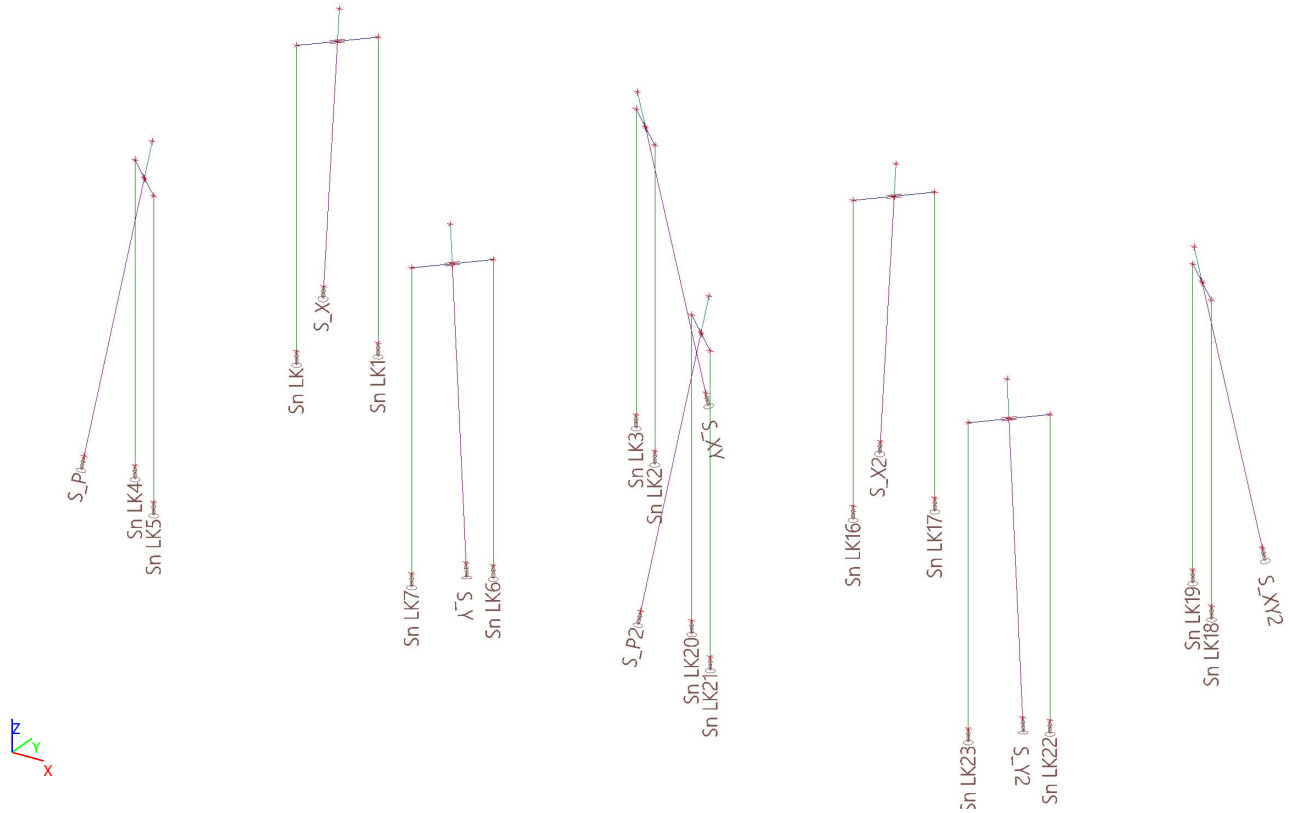


5.5. Nodal supports

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
S_P	N139	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y	N143	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY	N148	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X	N153	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11
Sn [redacted]	N159	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK1	N160	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK2	N167	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK3	N168	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK4	N171	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK5	N172	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK6	N175	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK7	N176	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
S_P2	N203	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y2	N205	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY2	N207	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X2	N209	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
Sn LK16	N212	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK17	N213	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK18	N216	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK19	N217	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK20	N220	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK21	N221	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK22	N224	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK23	N225	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	

5.6. Analyse model met Knoopondersteuningen



5.7. Line supports on member

Name	Type	Member	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
Veen3	Line	Paal_XY2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen18	Line	Paal_X24	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen7	Line	Paal_X3	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen17	Line	Paal_X23	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Line	Paal_X25	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen13	Line	Paal_X19	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Line	Paal_X5	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen6	Line	Paal_X2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen2	Line	Paal_XY	1,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen

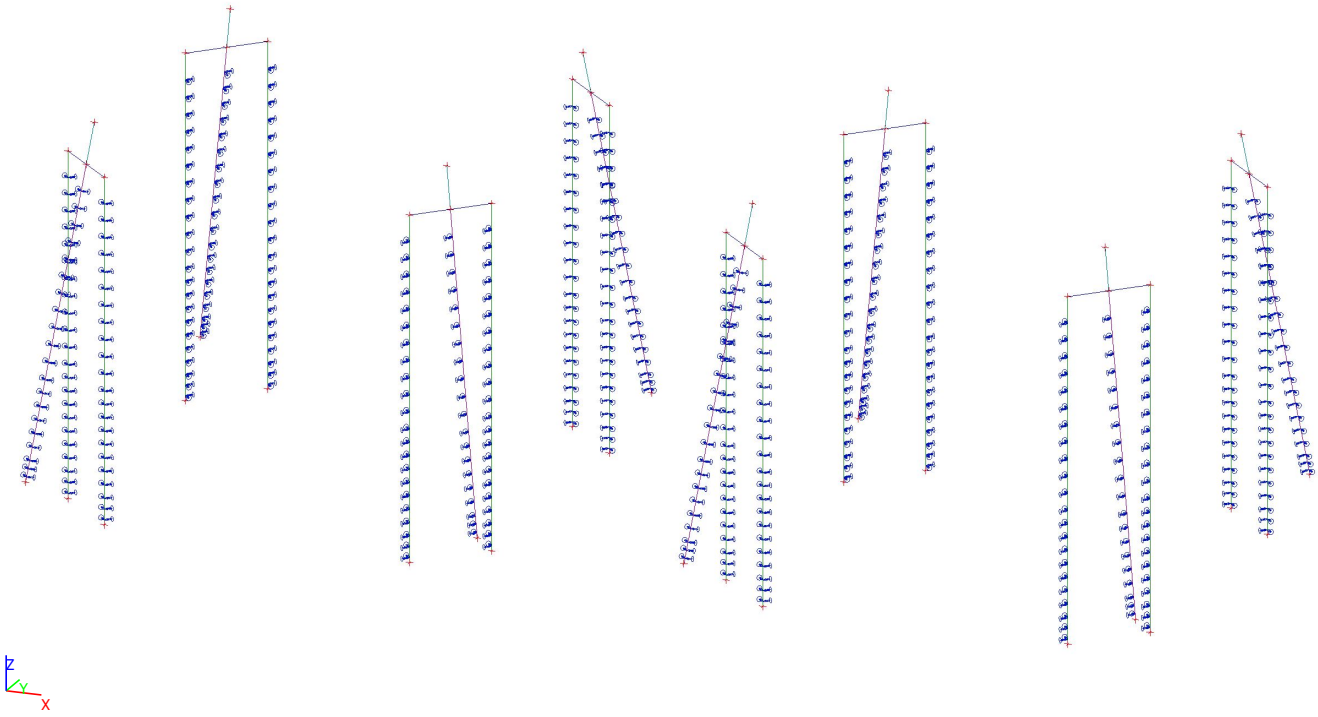
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			8,000								
Veen14	Line	Paal_X20	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen23	Line	Paal_Y2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen22	Line	Paal_Y	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Line	Paal_X1	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Line	Paal_X21	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen1	Line	Paal_P2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen20	Line	Paal_X26	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Line	Paal_X8	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen	Line	Paal_P	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Line	Paal_X4	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Line	Paal_X27	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen10	Line	Paal_X6	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Line	Paal_X22	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Line	Paal_X	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Line	Paal_X7	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
(PY-curve-2_V1)12	Line	Paal_X8	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)11	Line	Paal_X7	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)6	Line	Paal_X2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)17	Line	Paal_X23	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)18	Line	Paal_X24	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)10	Line	Paal_X6	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)22	Line	Paal_Y	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)8	Line	Paal_X4	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)21	Line	Paal_X27	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)15	Line	Paal_X21	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)	Line	Paal_P	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)5	Line	Paal_X1	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)13	Line	Paal_X19	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)14	Line	Paal_X20	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)16	Line	Paal_X22	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)2	Line	Paal_XY	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)3	Line	Paal_XY2	8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			9,000								
(PY-curve-2_V1)9	Line	Paal_X5	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)23	Line	Paal_Y2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)20	Line	Paal_X26	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)1	Line	Paal_P2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)7	Line	Paal_X3	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)19	Line	Paal_X25	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)4	Line	Paal_X	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V2)20	Line	Paal_X26	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)2	Line	Paal_XY	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)11	Line	Paal_X7	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)18	Line	Paal_X24	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)10	Line	Paal_X6	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)12	Line	Paal_X8	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)16	Line	Paal_X22	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)22	Line	Paal_Y	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)17	Line	Paal_X23	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)15	Line	Paal_X21	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)9	Line	Paal_X5	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)14	Line	Paal_X20	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)21	Line	Paal_X27	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)13	Line	Paal_X19	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)8	Line	Paal_X4	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)6	Line	Paal_X2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)3	Line	Paal_XY2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)	Line	Paal_P	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)5	Line	Paal_X1	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)23	Line	Paal_Y2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)19	Line	Paal_X25	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)4	Line	Paal_X	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)7	Line	Paal_X3	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)1	Line	Paal_P2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V3)19	Line	Paal_X25	10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3

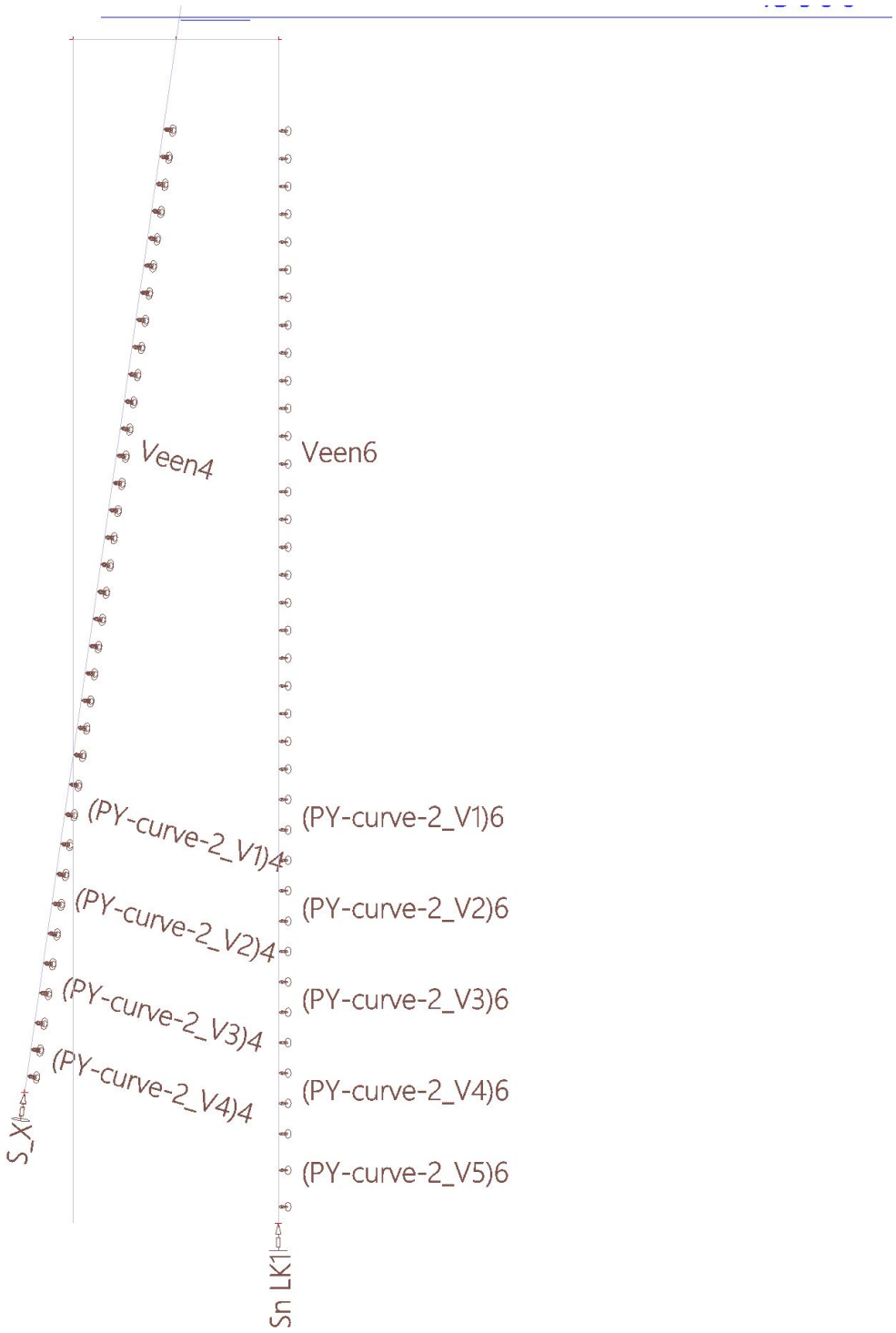
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			11,000								
(PY-curve-2_V3)11	Line	Paal_X7	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)6	Line	Paal_X2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)18	Line	Paal_X24	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)10	Line	Paal_X6	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)22	Line	Paal_Y	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)16	Line	Paal_X22	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)5	Line	Paal_X1	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)15	Line	Paal_X21	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)9	Line	Paal_X5	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)17	Line	Paal_X23	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)14	Line	Paal_X20	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)13	Line	Paal_X19	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)8	Line	Paal_X4	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)	Line	Paal_P	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)3	Line	Paal_XY2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)4	Line	Paal_X	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)23	Line	Paal_Y2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)7	Line	Paal_X3	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)1	Line	Paal_P2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)21	Line	Paal_X27	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)12	Line	Paal_X8	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)2	Line	Paal_XY	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)20	Line	Paal_X26	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V4)13	Line	Paal_X19	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)4	Line	Paal_X	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)6	Line	Paal_X2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)11	Line	Paal_X7	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)19	Line	Paal_X25	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)18	Line	Paal_X24	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)10	Line	Paal_X6	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)17	Line	Paal_X23	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)16	Line	Paal_X22	11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			12,000								
(PY-curve-2_V4)5	Line	Paal_X1	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)9	Line	Paal_X5	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)15	Line	Paal_X21	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)14	Line	Paal_X20	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)8	Line	Paal_X4	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)7	Line	Paal_X3	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)12	Line	Paal_X8	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)21	Line	Paal_X27	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)20	Line	Paal_X26	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)22	Line	Paal_Y	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)	Line	Paal_P	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)3	Line	Paal_XY2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)23	Line	Paal_Y2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)1	Line	Paal_P2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)2	Line	Paal_XY	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V5)11	Line	Paal_X7	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)19	Line	Paal_X25	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)18	Line	Paal_X24	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)10	Line	Paal_X6	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)17	Line	Paal_X23	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)5	Line	Paal_X1	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)16	Line	Paal_X22	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)9	Line	Paal_X5	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)15	Line	Paal_X21	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)14	Line	Paal_X20	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)8	Line	Paal_X4	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)7	Line	Paal_X3	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)12	Line	Paal_X8	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)21	Line	Paal_X27	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)6	Line	Paal_X2	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)20	Line	Paal_X26	12,000 12,800	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5

5.8. Analyse model met Lijnondersteuningen



5.9. Analyse model met Lijnondersteuningen

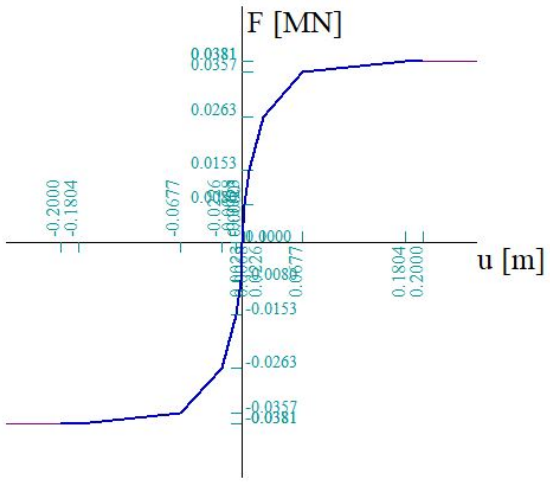




5.10. Nonlinear functions

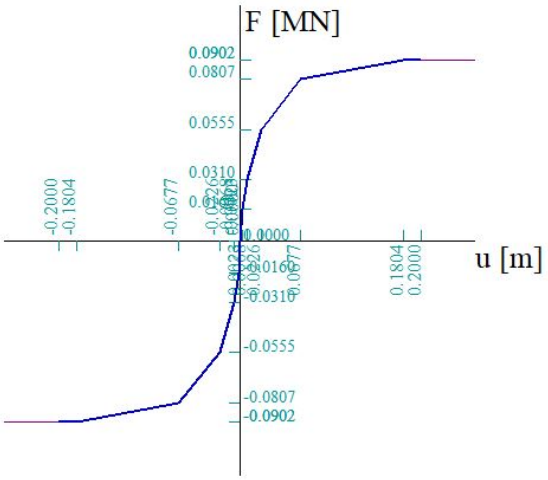
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V1	Translation	-0.200000 / -38100.000000	Free	Free
		-0.180400 / -38100.000000		
		-0.067650 / -35700.000000		
		-0.022550 / -26300.000000		
		-0.006765 / -15300.000000		
		-0.002255 / -8000.000000		
		0.000000 / 0.000000		
		0.002255 / 8000.000000		
		0.006765 / 15300.000000		
		0.022550 / 26300.000000		
		0.067650 / 35700.000000		
		0.180400 / 38100.000000		
		0.200000 / 38100.000000		

Drawing



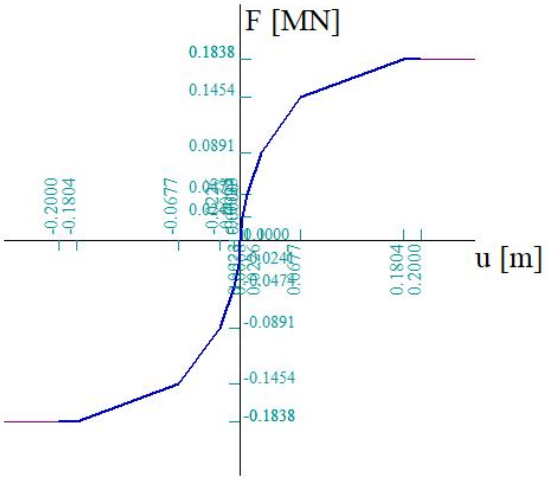
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V2	Translation	-0.200000 / -90200.000000	Free	Free
		-0.180400 / -90200.000000		
		-0.067650 / -80700.000000		
		-0.022550 / -55500.000000		
		-0.006765 / -31000.000000		
		-0.002255 / -16000.000000		
		0.000000 / 0.000000		
		0.002255 / 16000.000000		
		0.006765 / 31000.000000		
		0.022550 / 55500.000000		
		0.067650 / 80700.000000		
		0.180400 / 90200.000000		
		0.200000 / 90200.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V3	Translation	-0.200000 / -183800.000000	Free	Free
		-0.180400 / -183800.000000		
		-0.067650 / -145400.000000		
		-0.022550 / -89100.000000		
		-0.006765 / -47400.000000		
		-0.002255 / -24100.000000		
		0.000000 / 0.000000		
		0.002255 / 24100.000000		
		0.006765 / 47400.000000		
		0.022550 / 89100.000000		
		0.067650 / 145400.000000		
		0.180400 / 183800.000000		
		0.200000 / 183800.000000		

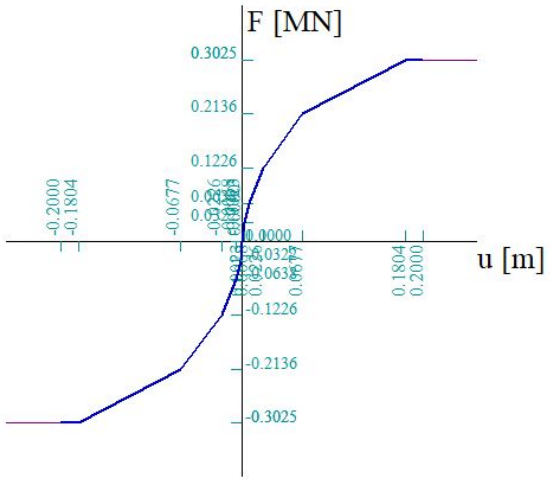
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V4	Translation	-0.200000 / -302500.000000	Free	Free
		-0.180400 / -302500.000000		
		-0.067650 / -213600.000000		
		-0.022550 / -122600.000000		
		-0.006765 / -63800.000000		
		-0.002255 / -32200.000000		
		0.000000 / 0.000000		
		0.002255 / 32200.000000		
		0.006765 / 63800.000000		
		0.022550 / 122600.000000		

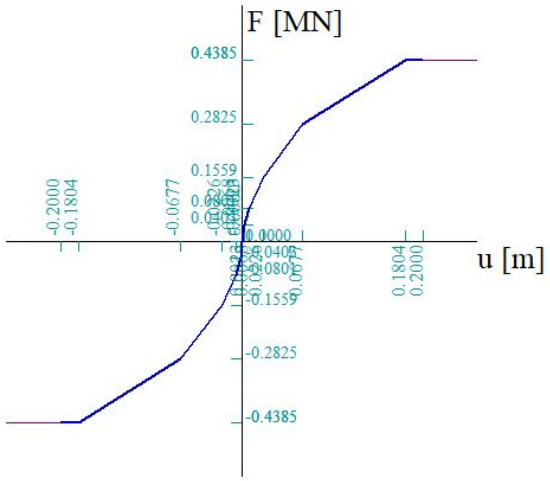
Name	Type	u / F	Positive end	Negative end
		0.067650 / 213600.000000		
		0.180400 / 302500.000000		
		0.200000 / 302500.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V5	Translation	-0.200000 / -438500.000000	Free	Free
		-0.180400 / -438500.000000		
		-0.067650 / -282500.000000		
		-0.022550 / -155900.000000		
		-0.006765 / -80100.000000		
		-0.002255 / -40300.000000		
		0.000000 / 0.000000		
		0.002255 / 40300.000000		
		0.006765 / 80100.000000		
		0.022550 / 155900.000000		
		0.067650 / 282500.000000		
		0.180400 / 438500.000000		
		0.200000 / 438500.000000		

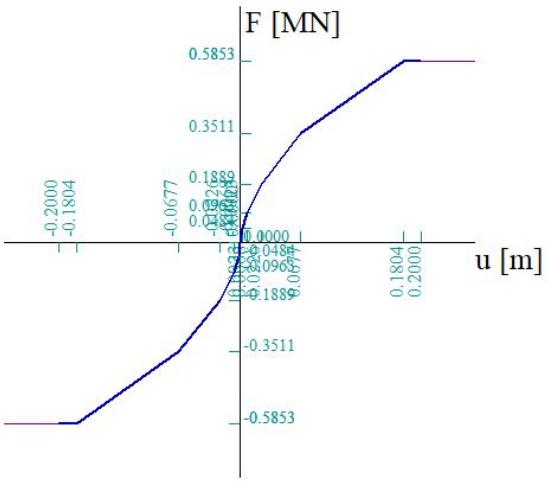
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V6	Translation	-0.200000 / -585300.000000	Free	Free
		-0.180400 / -585300.000000		
		-0.067650 / -351100.000000		
		-0.022550 / -188900.000000		

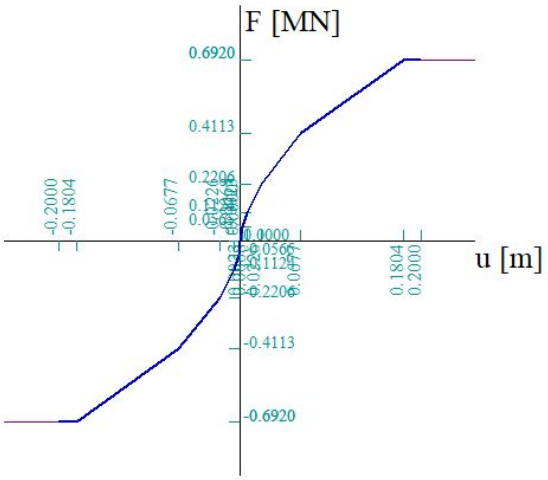
Name	Type	u / F	Positive end	Negative end
		-0.006765 / -96300.000000		
		-0.002255 / -48400.000000		
		0.000000 / 0.000000		
		0.002255 / 48400.000000		
		0.006765 / 96300.000000		
		0.022550 / 188900.000000		
		0.067650 / 351100.000000		
		0.180400 / 585300.000000		
		0.200000 / 585300.000000		

Drawing



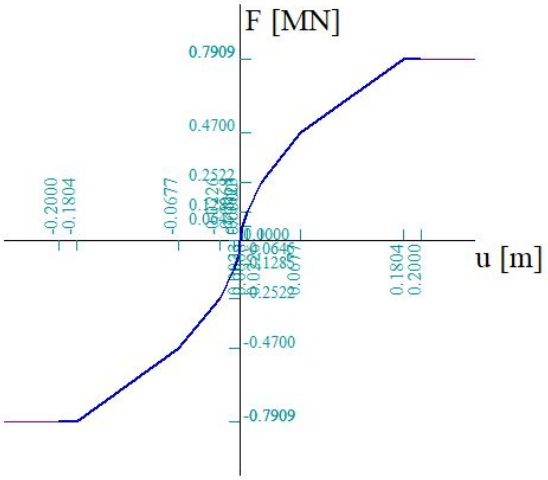
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V7	Translation	-0.200000 / -692000.000000	Free	Free
		-0.180400 / -692000.000000		
		-0.067650 / -411300.000000		
		-0.022550 / -220600.000000		
		-0.006765 / -112400.000000		
		-0.002255 / -56500.000000		
		0.000000 / 0.000000		
		0.002255 / 56500.000000		
		0.006765 / 112400.000000		
		0.022550 / 220600.000000		
		0.067650 / 411300.000000		
		0.180400 / 692000.000000		
		0.200000 / 692000.000000		

Drawing



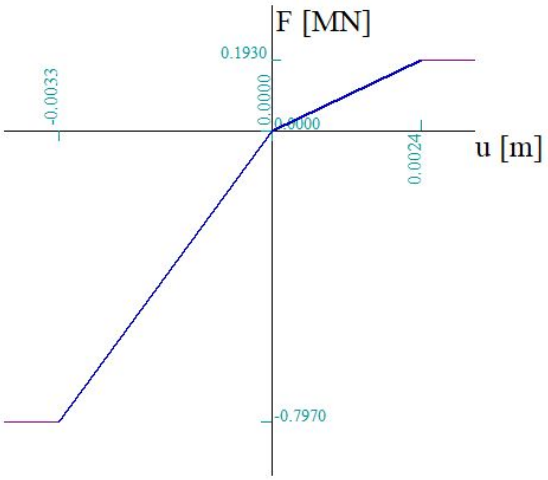
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V8	Translation	-0.200000 / -790900.000000	Free	Free
		-0.180400 / -790900.000000		
		-0.067650 / -470000.000000		
		-0.022550 / -252200.000000		
		-0.006765 / -128500.000000		
		-0.002255 / -64500.000000		
		0.000000 / 0.000000		
		0.002255 / 64500.000000		
		0.006765 / 128500.000000		
		0.022550 / 252200.000000		
		0.067650 / 470000.000000		
		0.180400 / 790900.000000		
		0.200000 / 790900.000000		

Drawing



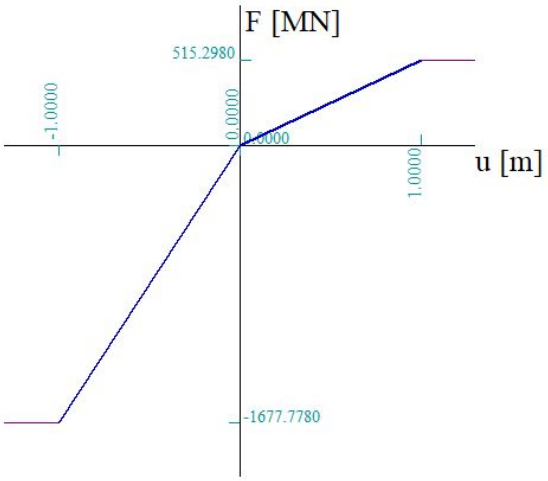
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt_B	Translation	-0.003340 / -797000.000000	Free	Free
		0.000000 / 0.000000		
		0.002360 / 193000.000000		

Drawing



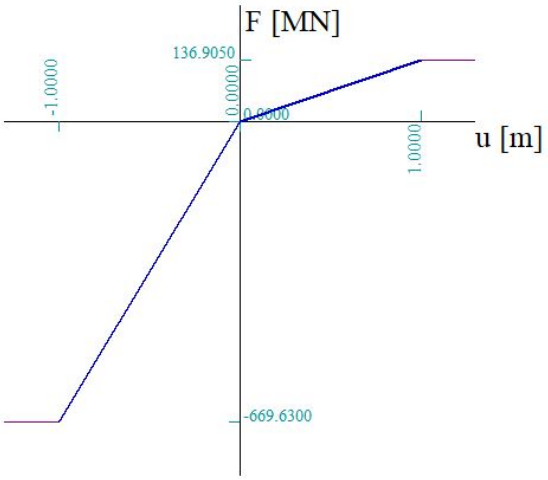
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt.LEKA.BG.	Translation	-1.000000 / -1677778000.000000	Free	Free
		0.000000 / 0.000000		
		1.000000 / 515298000.000000		

Drawing



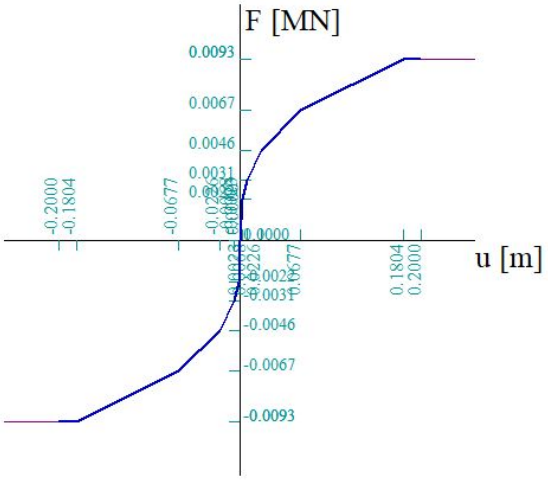
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt-LEKA.OG.	Translation	-1.000000 / -669630000.000000	Free	Free
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Drawing



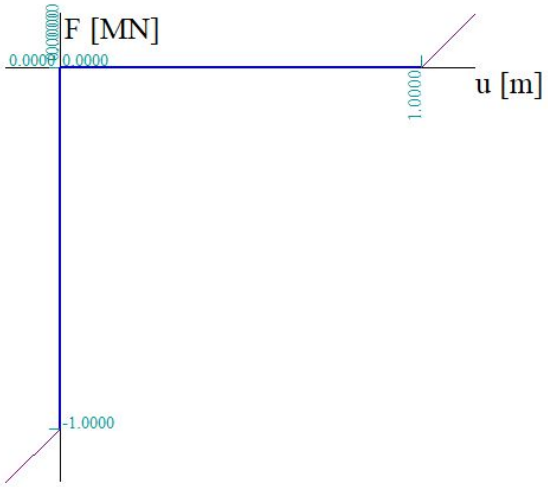
Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen	Translation	-0.200000 / -9265.000000	Free	Free
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		
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		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

Drawing



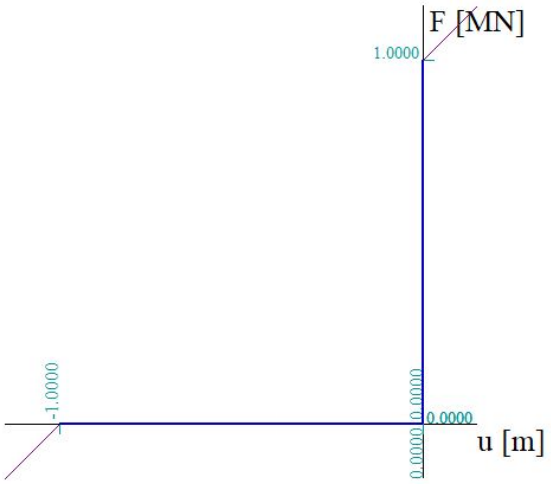
Name	Type	u / F	Positive end	Negative end
press only	Translation	-0.000001 / -1000000.000000	Flexible	Flexible
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Drawing



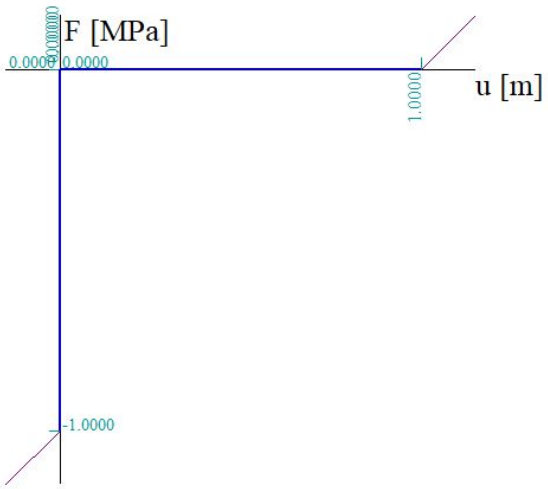
Name	Type	u / F	Positive end	Negative end
tension only	Translation	-1.000000 / 0.000000	Flexible	Flexible
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
soil press only	Nonlinear subsoil		Flexible	Flexible

Drawing

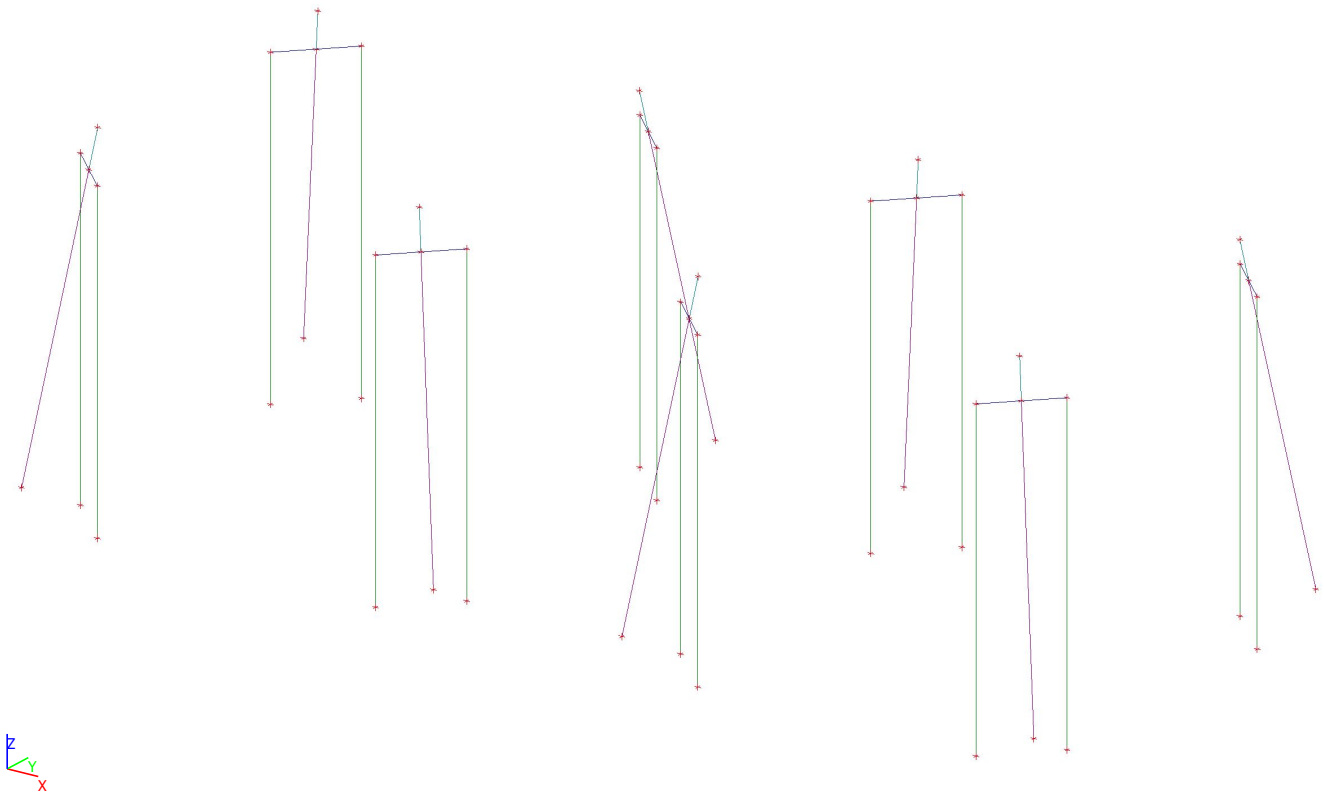

F [MPa]
0.0000
0.0000
u [m]
1.0000
-1.0000

6. Belastingen

6.1. Load cases

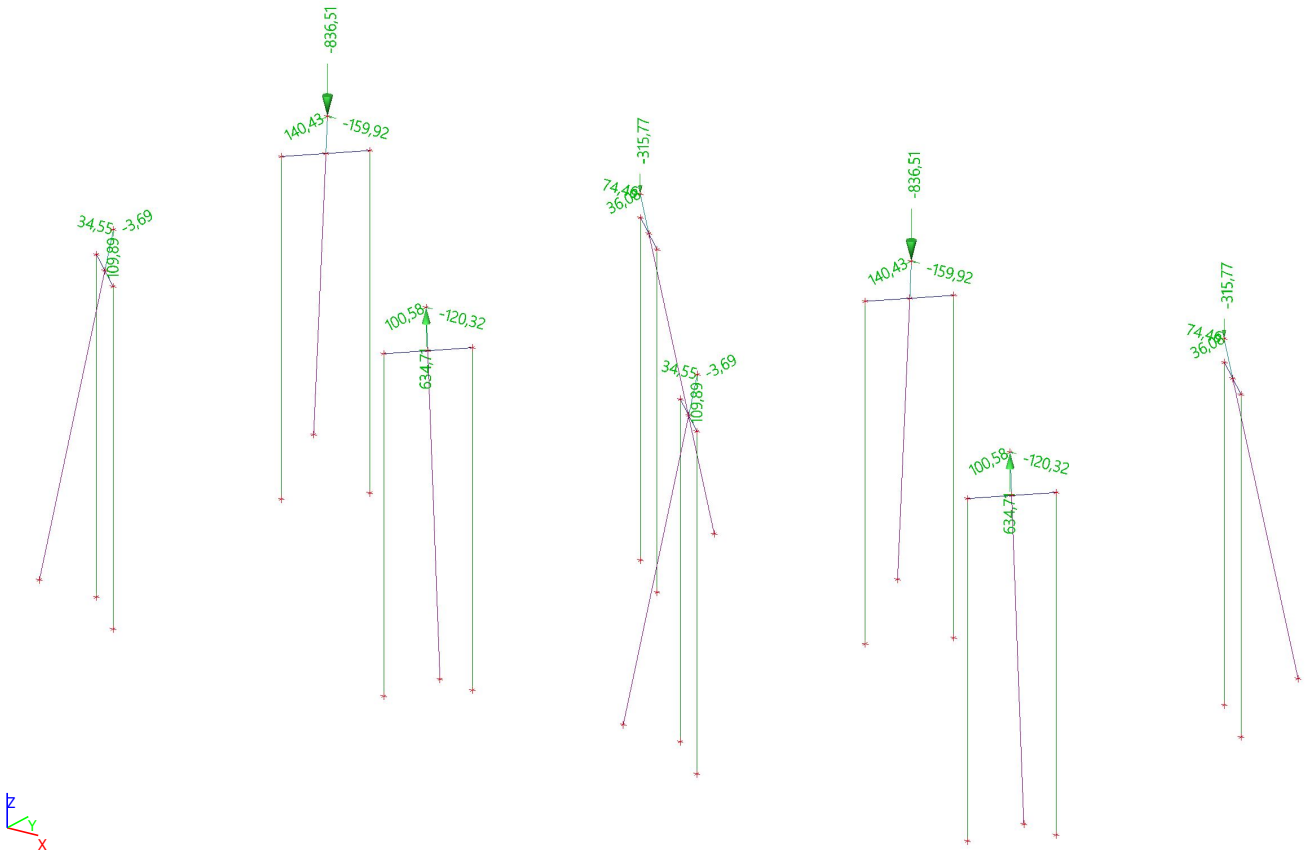
6.1.1. Load cases - EG_Fundering

Name	Description	Action type	Load group	Direction
	Spec	Load type		
EG_Fundering		Permanent	LG1	-Z
		Self weight		



6.1.2. Load cases - high max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



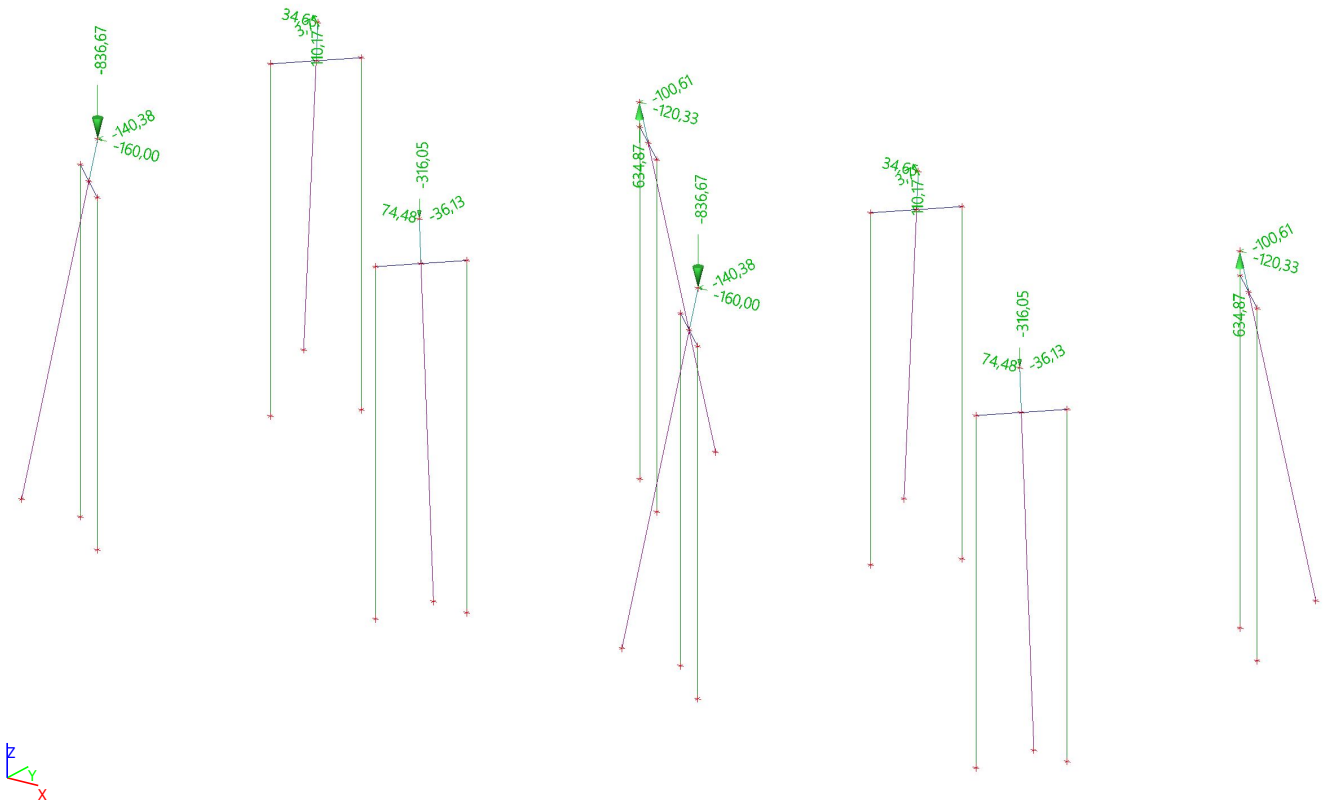
6.1.2.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Force	34,55
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Force	-3,69
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Force	109,89
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Force	-159,92
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Force	140,43
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Force	-836,51
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Force	74,46
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Force	36,08
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Force	-315,77
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Force	-120,32
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Force	100,58
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Force	634,71
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Force	34,55
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Force	-3,69
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Force	109,89

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X2_X	1X2	high max Wnd ;45°	GCS	X	Force	-159,92
high max Wnd ;45°_1X2_Y	1X2	high max Wnd ;45°	GCS	Y	Force	140,43
high max Wnd ;45°_1X2_Z	1X2	high max Wnd ;45°	GCS	Z	Force	-836,51
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Force	74,46
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Force	36,08
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Force	-315,77
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Force	-120,32
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Force	100,58
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Force	634,71

6.1.3. Load cases - high max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;315°		Variable	LG4	Short	None
	Standard	Static			

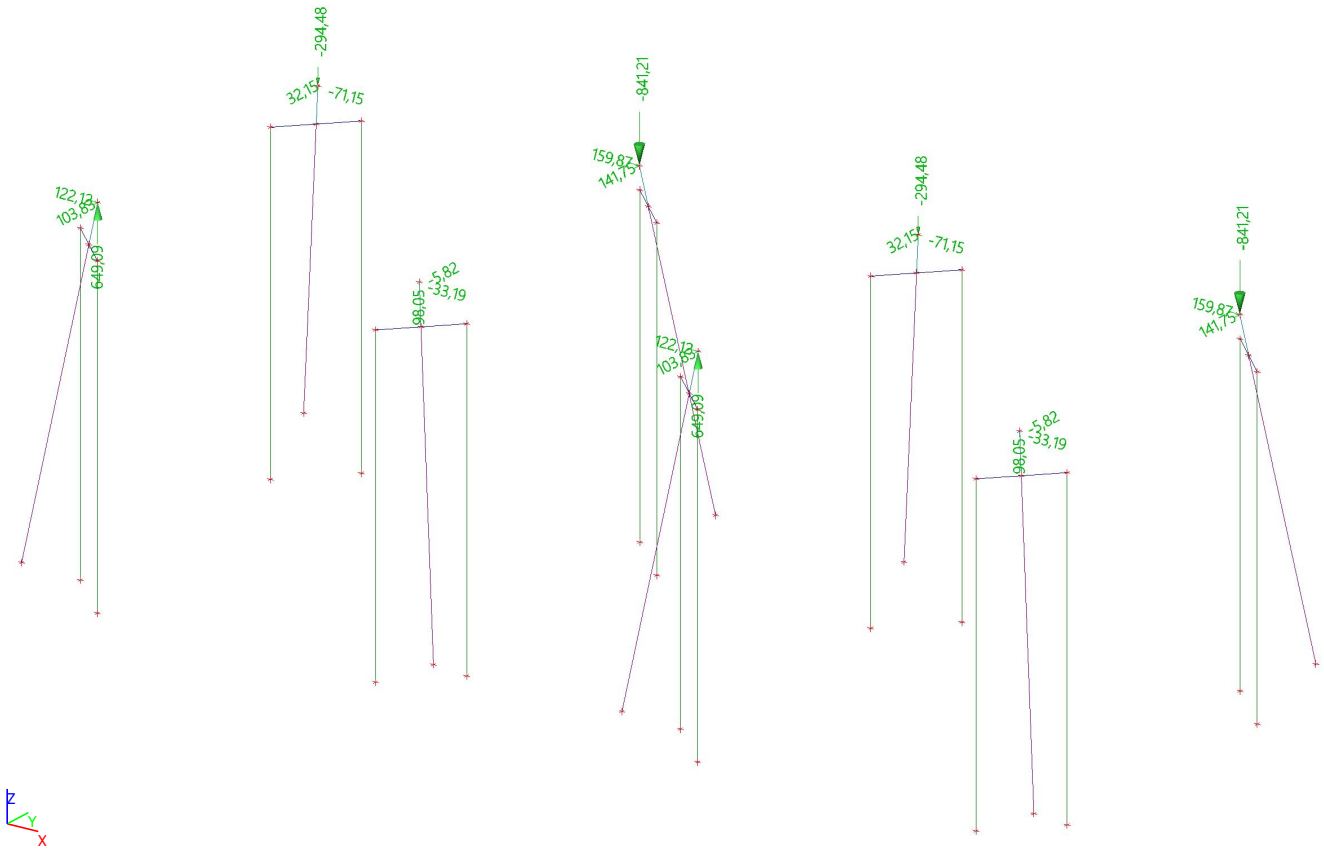


6.1.3.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Force	-160,00
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Force	-140,38
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Force	-836,67
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Force	34,65
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Force	3,71
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Force	110,17
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Force	-120,33
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Force	-100,61
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Force	634,87
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Force	74,48
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Force	-36,13
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Force	-316,05
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Force	-160,00
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Force	-140,38
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Force	-836,67
high max Wnd ;315°_1X2_X	1X2	high max Wnd ;315°	GCS	X	Force	34,65
high max Wnd ;315°_1X2_Y	1X2	high max Wnd ;315°	GCS	Y	Force	3,71
high max Wnd ;315°_1X2_Z	1X2	high max Wnd ;315°	GCS	Z	Force	110,17
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Force	-120,33
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Force	-100,61
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Force	634,87
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Force	74,48
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Force	-36,13
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Force	-316,05

6.1.4. Load cases - high max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



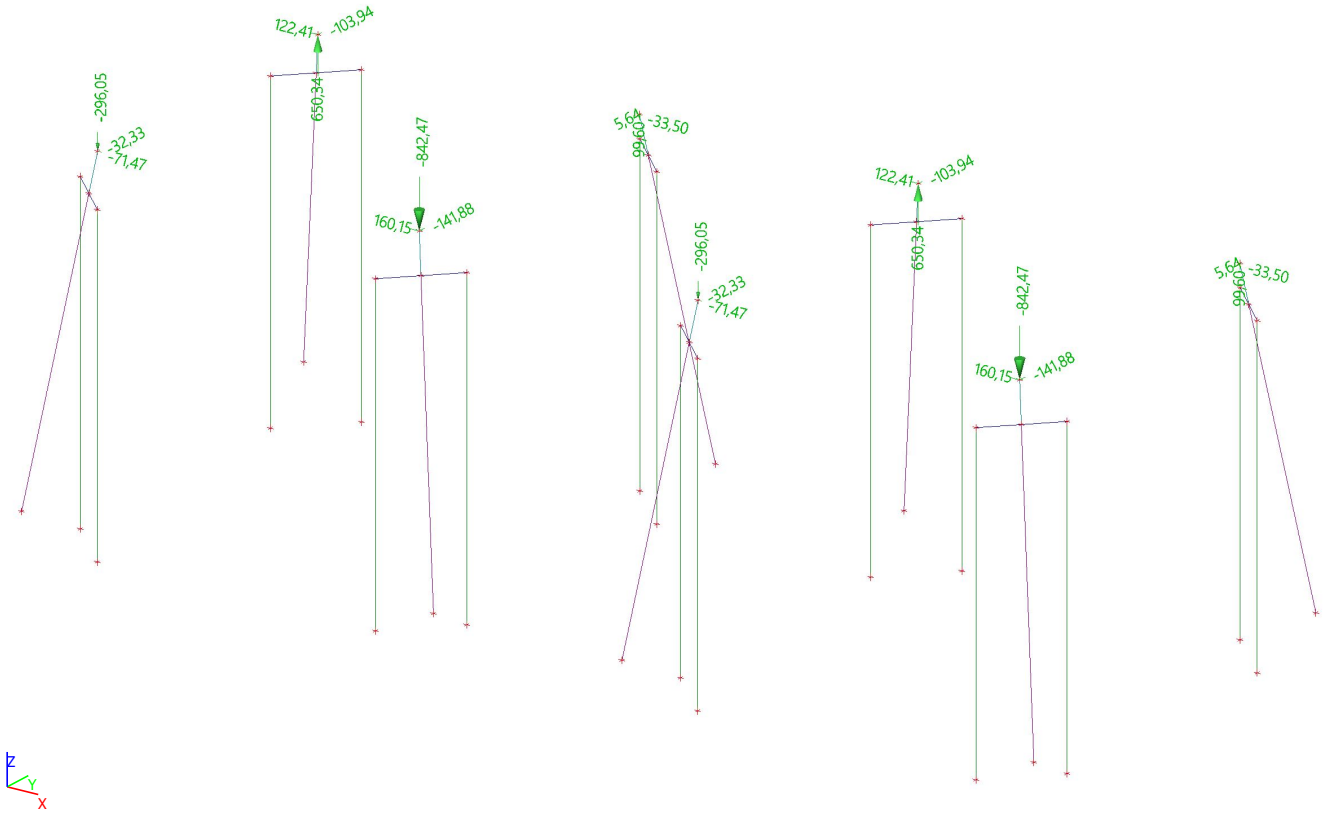
6.1.4.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Force	122,12
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Force	103,83
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Force	649,09
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Force	-71,15
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Force	32,15
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Force	-294,48
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Force	159,87
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Force	141,75
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Force	-841,21
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Force	-33,19
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Force	-5,82
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Force	98,05
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Force	122,12
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Force	103,83
high max Wnd	1P2	high max Wnd ;135°	GCS	Z	Force	649,09

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
high max Wnd ;135°_1X2_X	1X2	high max Wnd ;135°	GCS	X	Force	-71,15
high max Wnd ;135°_1X2_Y	1X2	high max Wnd ;135°	GCS	Y	Force	32,15
high max Wnd ;135°_1X2_Z	1X2	high max Wnd ;135°	GCS	Z	Force	-294,48
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Force	159,87
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Force	141,75
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Force	-841,21
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Force	-33,19
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Force	-5,82
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Force	98,05

6.1.5. Load cases - high max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;225°		Variable	LG4	Short	None
	Standard	Static			



6.1.5.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Force	-71,47
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Force	-32,33
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Force	-296,05
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Force	122,41
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Force	-103,94
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Force	650,34
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Force	-33,50
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Force	5,64
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Force	99,60
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Force	160,15
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Force	-141,88
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Force	-842,47
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Force	-71,47
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Force	-32,33
high max Wnd ;225°_1P2_Z	1P2	high max Wnd ;225°	GCS	Z	Force	-296,05
high max Wnd ;225°_1X2_X	1X2	high max Wnd ;225°	GCS	X	Force	122,41
high max Wnd ;225°_1X2_Y	1X2	high max Wnd ;225°	GCS	Y	Force	-103,94
high max Wnd ;225°_1X2_Z	1X2	high max Wnd ;225°	GCS	Z	Force	650,34
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Force	-33,50
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Force	5,64
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Force	99,60
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Force	160,15
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Force	-141,88
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Force	-842,47

6.1.6. Load cases - low max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



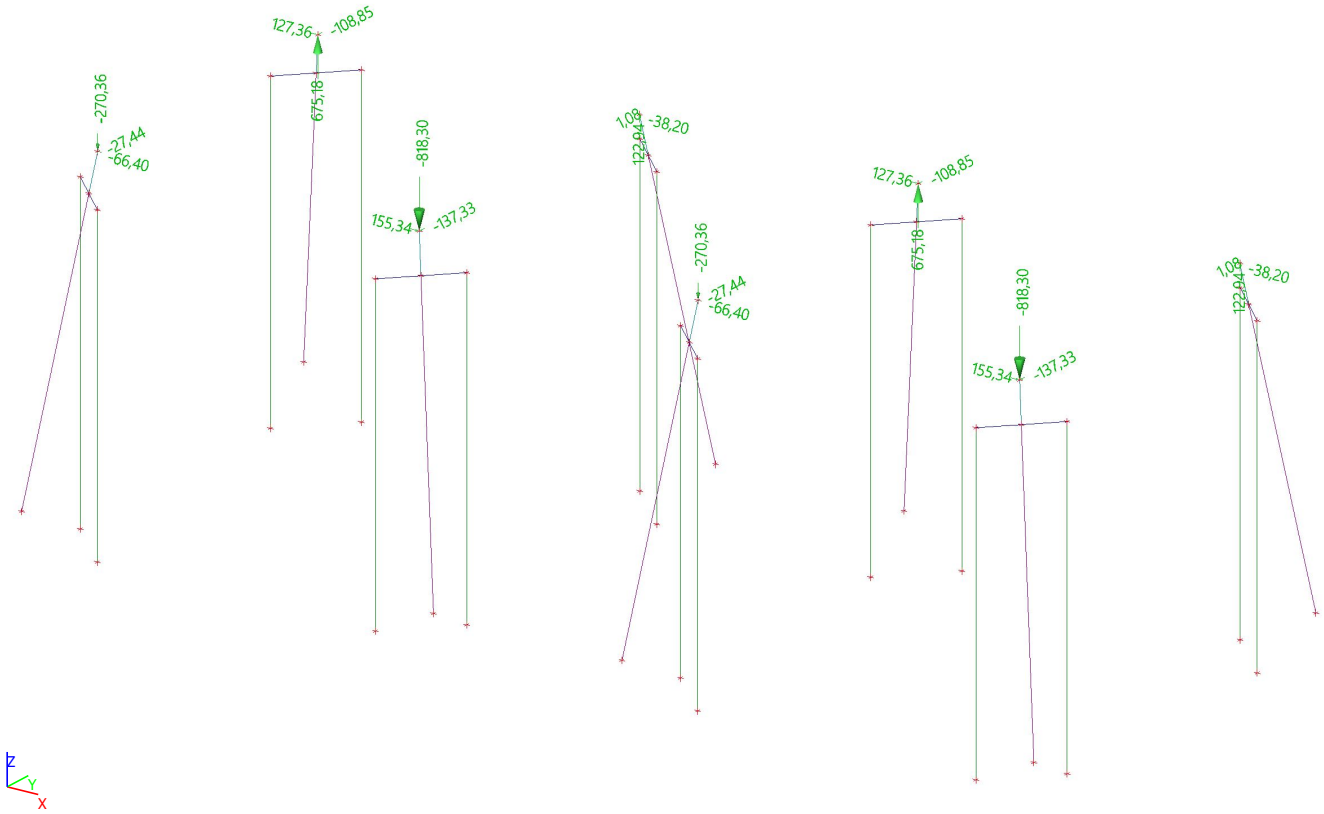
6.1.6.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Force	39,60
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Force	1,32
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Force	135,45
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Force	-154,75
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Force	135,43
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Force	-810,05
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Force	69,36
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Force	31,27
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Force	-290,38
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Force	-125,31
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Force	105,40
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Force	659,16
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Force	39,60
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Force	1,32
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Force	135,45

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X2_X	1X2	low max Wnd ;45°	GCS	X	Force	-154,75
low max Wnd ;45°_1X2_Y	1X2	low max Wnd ;45°	GCS	Y	Force	135,43
low max Wnd ;45°_1X2_Z	1X2	low max Wnd ;45°	GCS	Z	Force	-810,05
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Force	69,36
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Force	31,27
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Force	-290,38
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Force	-125,31
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Force	105,40
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Force	659,16

6.1.7. Load cases - low max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;225°	Standard	Variable Static	LG4	Short	None

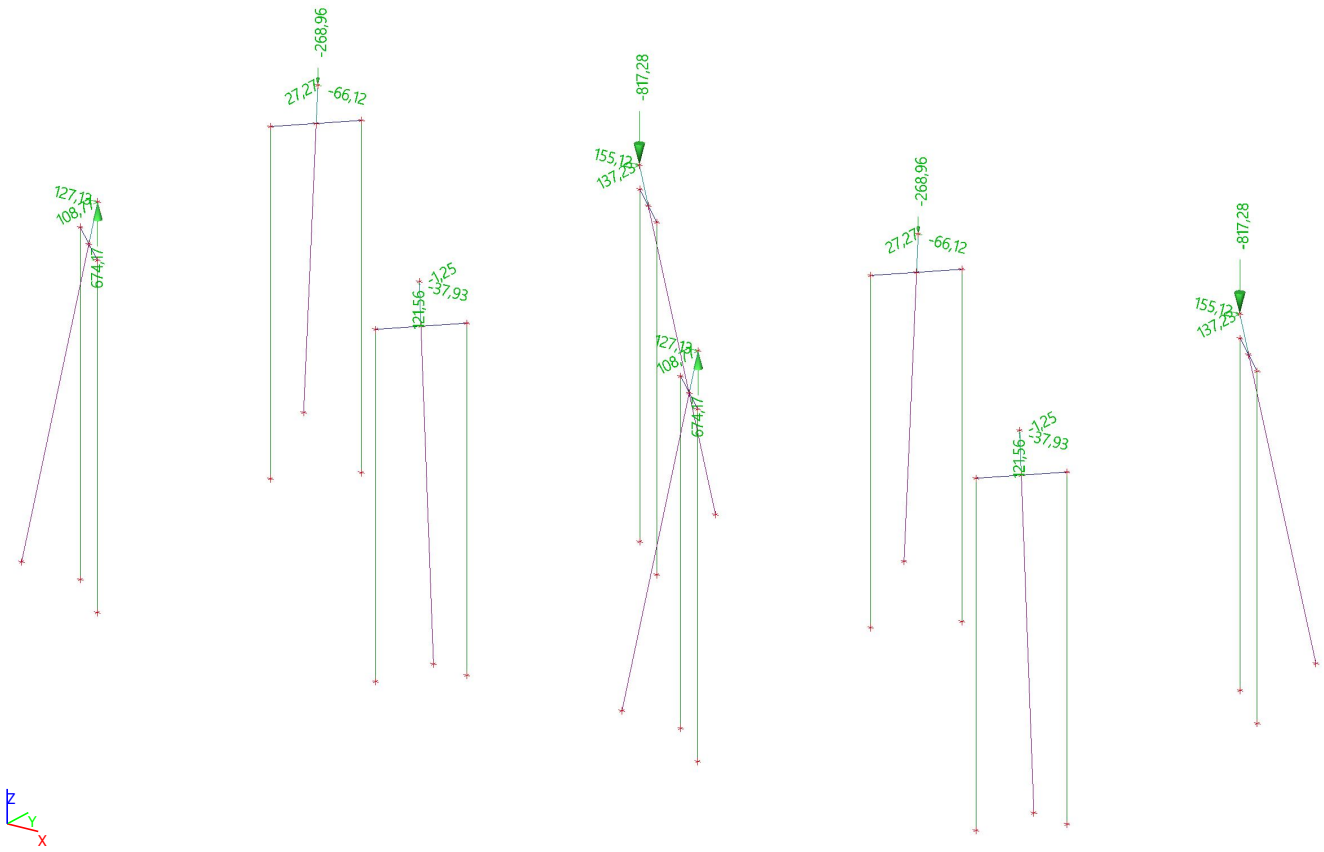


6.1.7.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Force	-66,40
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Force	-27,44
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Force	-270,36
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Force	127,36
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Force	-108,85
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Force	675,18
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Force	-38,20
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Force	1,08
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Force	122,94
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Force	155,34
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Force	-137,33
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Force	-818,30
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Force	-66,40
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Force	-27,44
low max Wnd ;225°_1P2_Z	1P2	low max Wnd ;225°	GCS	Z	Force	-270,36
low max Wnd ;225°_1X2_X	1X2	low max Wnd ;225°	GCS	X	Force	127,36
low max Wnd ;225°_1X2_Y	1X2	low max Wnd ;225°	GCS	Y	Force	-108,85
low max Wnd ;225°_1X2_Z	1X2	low max Wnd ;225°	GCS	Z	Force	675,18
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Force	-38,20
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Force	1,08
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Force	122,94
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Force	155,34
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Force	-137,33
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Force	-818,30

6.1.8. Load cases - low max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



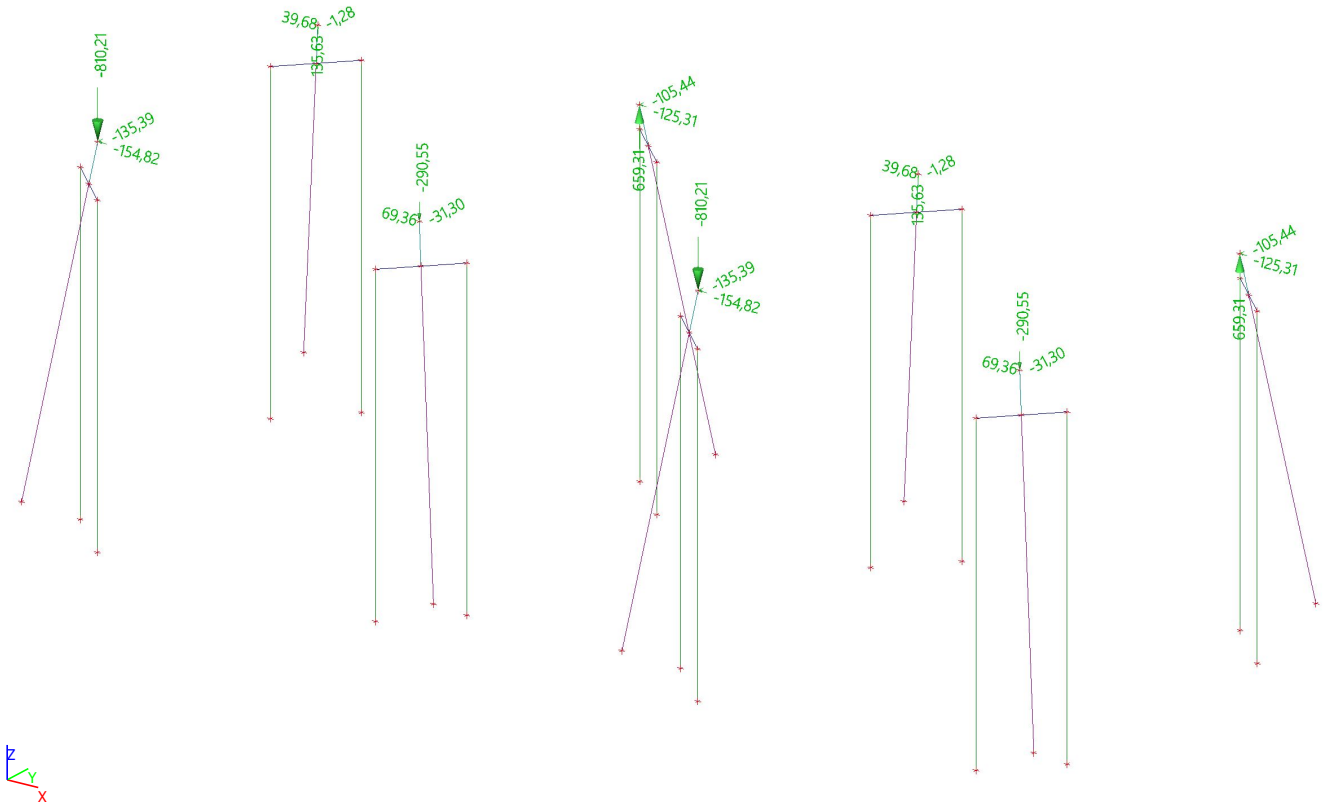
6.1.8.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Force	127,13
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Force	108,77
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Force	674,17
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Force	-66,12
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Force	27,27
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Force	-268,96
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Force	155,12
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Force	137,23
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Force	-817,28
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Force	-37,93
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Force	-1,25
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Force	121,56
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Force	127,13
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Force	108,77
low max Wnd	1P2	low max Wnd ;135°	GCS	Z	Force	674,17

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
low max Wnd ;135°_1X2_X	1X2	low max Wnd ;135°	GCS	X	Force	-66,12
low max Wnd ;135°_1X2_Y	1X2	low max Wnd ;135°	GCS	Y	Force	27,27
low max Wnd ;135°_1X2_Z	1X2	low max Wnd ;135°	GCS	Z	Force	-268,96
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Force	155,12
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Force	137,23
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Force	-817,28
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Force	-37,93
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Force	-1,25
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Force	121,56

6.1.9. Load cases - low max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;315°	Standard	Variable Static	LG4	Short	None



6.1.9.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Force	-154,82
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Force	-135,39
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Force	-810,21
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Force	39,68
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Force	-1,28
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Force	135,63
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Force	-125,31
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Force	-105,44
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Force	659,31
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Force	69,36
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Force	-31,30
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Force	-290,55
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Force	-154,82
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Force	-135,39
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Force	-810,21
low max Wnd ;315°_1X2_X	1X2	low max Wnd ;315°	GCS	X	Force	39,68
low max Wnd ;315°_1X2_Y	1X2	low max Wnd ;315°	GCS	Y	Force	-1,28
low max Wnd ;315°_1X2_Z	1X2	low max Wnd ;315°	GCS	Z	Force	135,63
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Force	-125,31
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Force	-105,44
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Force	659,31
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Force	69,36
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Force	-31,30
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Force	-290,55

6.2. Nonlinear combinations

Name	Type	Load cases	Coeff. [-]
low max Wnd ;45° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;45°	1,000
low max Wnd ;225° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;225°	1,000
low max Wnd ;135° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;135°	1,000
low max Wnd ;315° - EG_Gunstig	Ultimate	EG_Fundering	0,900

Name	Type	Load cases	Coeff. [-]
		low max Wnd ;315°	1,000
high max Wnd ;45° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;45°	1,000
high max Wnd ;225° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;315°	1,000
high max Wnd ;135° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;135°	1,000
high max Wnd ;315° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;225°	1,000

6.3. Result classes

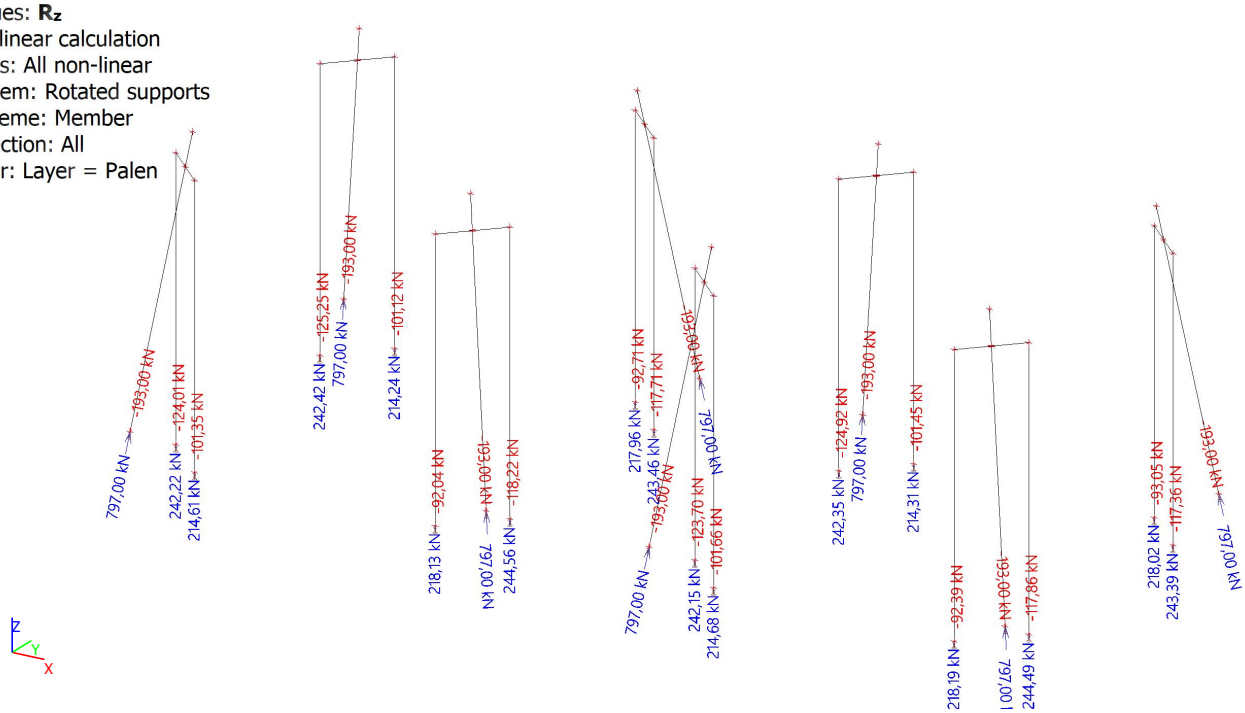
Name	List
All non-linear	low max Wnd ;45° - EG_Gunstig
	low max Wnd ;225° - EG_Gunstig
	low max Wnd ;135° - EG_Gunstig
	low max Wnd ;315° - EG_Gunstig
	high max Wnd ;45° - EG_Ongunstig
	high max Wnd ;225° - EG_Ongunstig
	high max Wnd ;135° - EG_Ongunstig
	high max Wnd ;315° - EG_Ongunstig

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LD1(31-plank) - General cross-section
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn LK/N159	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-125,25**	0,00	0,00	0,00	0,0	0,0
Sn LK6/N175	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**244,56**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY/N148	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	0,00	0,0	0,0
S_XY/N148	low max Wnd ;135° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**-193,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**797,00**	0,00	0,00	**0,00**	0,0	0,0
Sn LK/N159	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-125,25**	0,00	0,00	0,00	0,0	0,0
Sn LK/N159	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**242,42**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK1/N160	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-101,12**	0,00	0,00	0,00	0,0	0,0
Sn LK1/N160	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**214,24**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK2/N167	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-117,71**	0,00	0,00	0,00	0,0	0,0
Sn LK2/N167	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**243,46**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK3/N168	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-92,71**	0,00	0,00	0,00	0,0	0,0
Sn LK3/N168	high max Wnd ;135° -	**0,00**	**0,00**	**217,96**	**0,00**	**0,00**	**0,00**	0,0	0,0

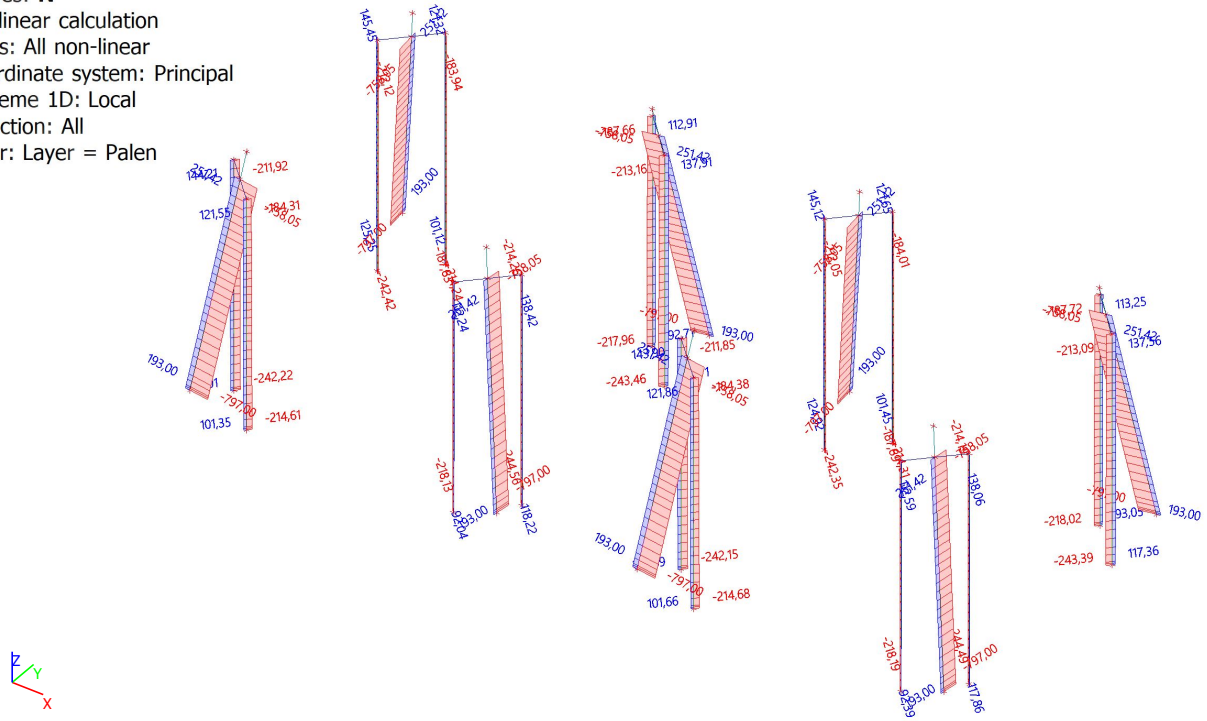
Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK4/N171	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-124,01**	0,00	0,00	0,00	0,0	0,0
Sn LK4/N171	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**242,22**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK5/N172	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-101,35**	0,00	0,00	0,00	0,0	0,0
Sn LK5/N172	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**214,61**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**244,56**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-118,22**	0,00	0,00	**0,00**	0,0	0,0
Sn LK7/N176	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**218,13**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK7/N176	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-92,04**	0,00	0,00	**0,00**	0,0	0,0
S_P2/N203	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	0,00	0,0	0,0
S_P2/N203	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY2/N207	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-193,00**	0,00	0,00	0,00	0,0	0,0
S_XY2/N207	low max Wnd ;135° - EG_Gunstig	**0,00**	**0,00**	**797,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N209	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**-193,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N209	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**797,00**	0,00	0,00	**0,00**	0,0	0,0
Sn LK16/N212	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-124,92**	0,00	0,00	0,00	0,0	0,0
Sn LK16/N212	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**242,35**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK17/N213	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-101,45**	0,00	0,00	0,00	0,0	0,0
Sn LK17/N213	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**214,31**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK18/N216	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-117,36**	0,00	0,00	0,00	0,0	0,0
Sn LK18/N216	high max Wnd ;135° -	**0,00**	**0,00**	**243,39**	**0,00**	**0,00**	**0,00**	0,0	0,0

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK19/N217	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-93,05**	0,00	0,00	0,00	0,0	0,0
Sn LK19/N217	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**218,02**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK20/N220	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-123,69**	0,00	0,00	0,00	0,0	0,0
Sn LK20/N220	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**242,15**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK21/N221	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-101,66**	0,00	0,00	0,00	0,0	0,0
Sn LK21/N221	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**214,68**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**244,49**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-117,86**	0,00	0,00	**0,00**	0,0	0,0
Sn LK23/N225	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**218,19**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK23/N225	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-92,39**	0,00	0,00	**0,00**	0,0	0,0

7.2. Krachten van de Funderingspalen

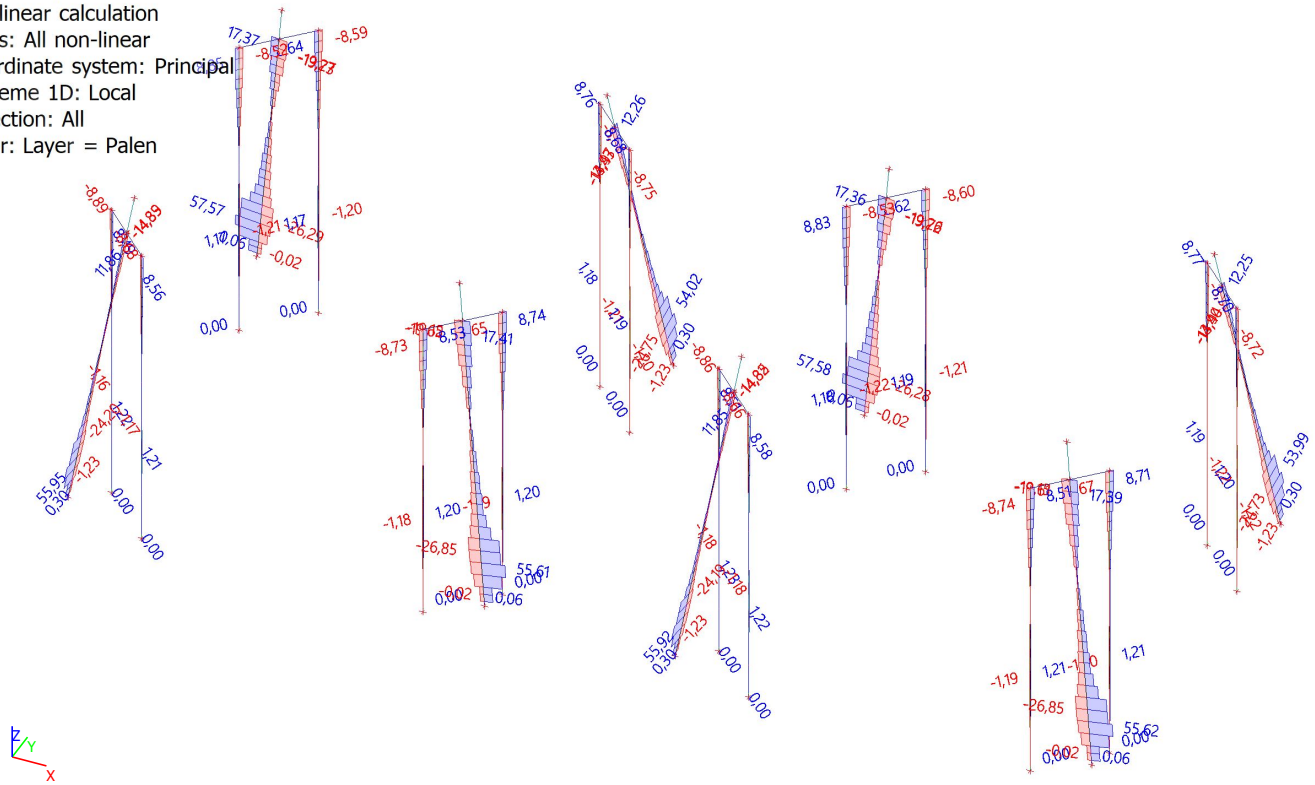
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



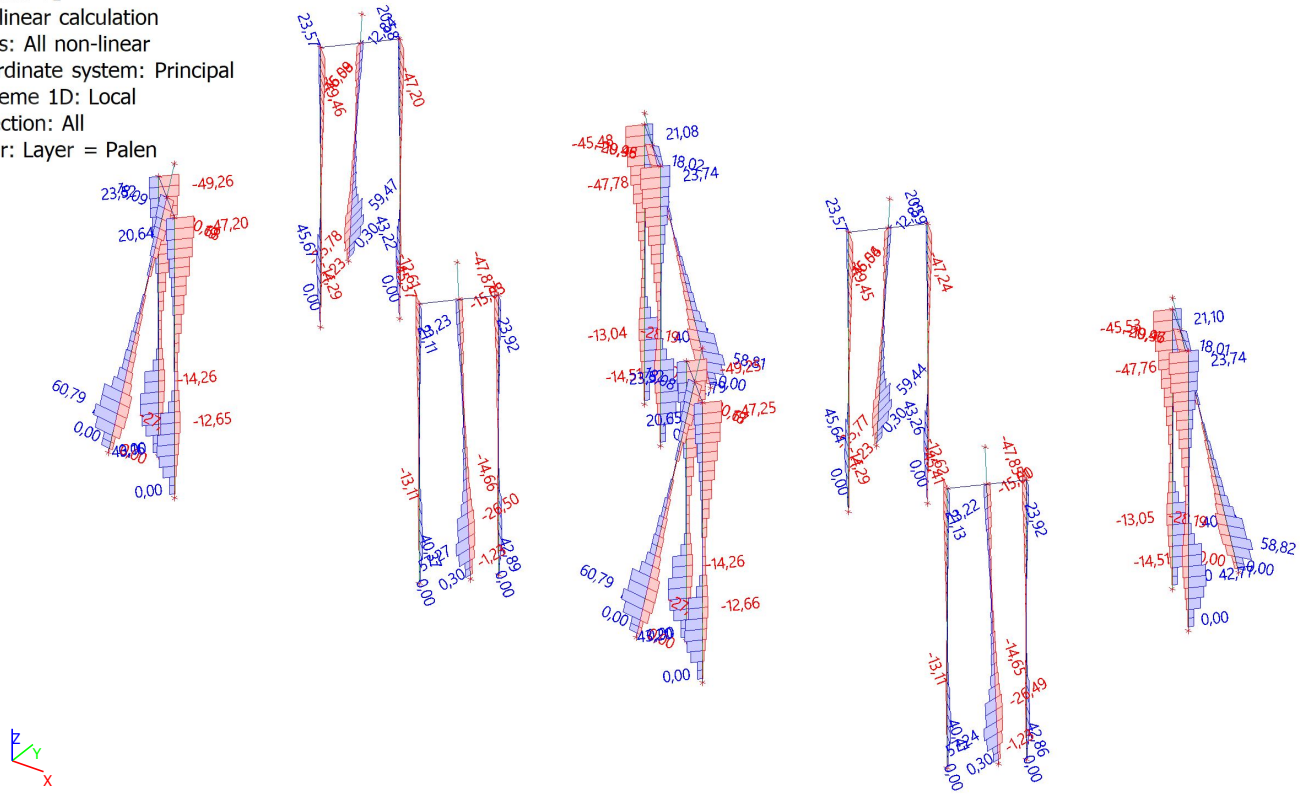
7.2.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



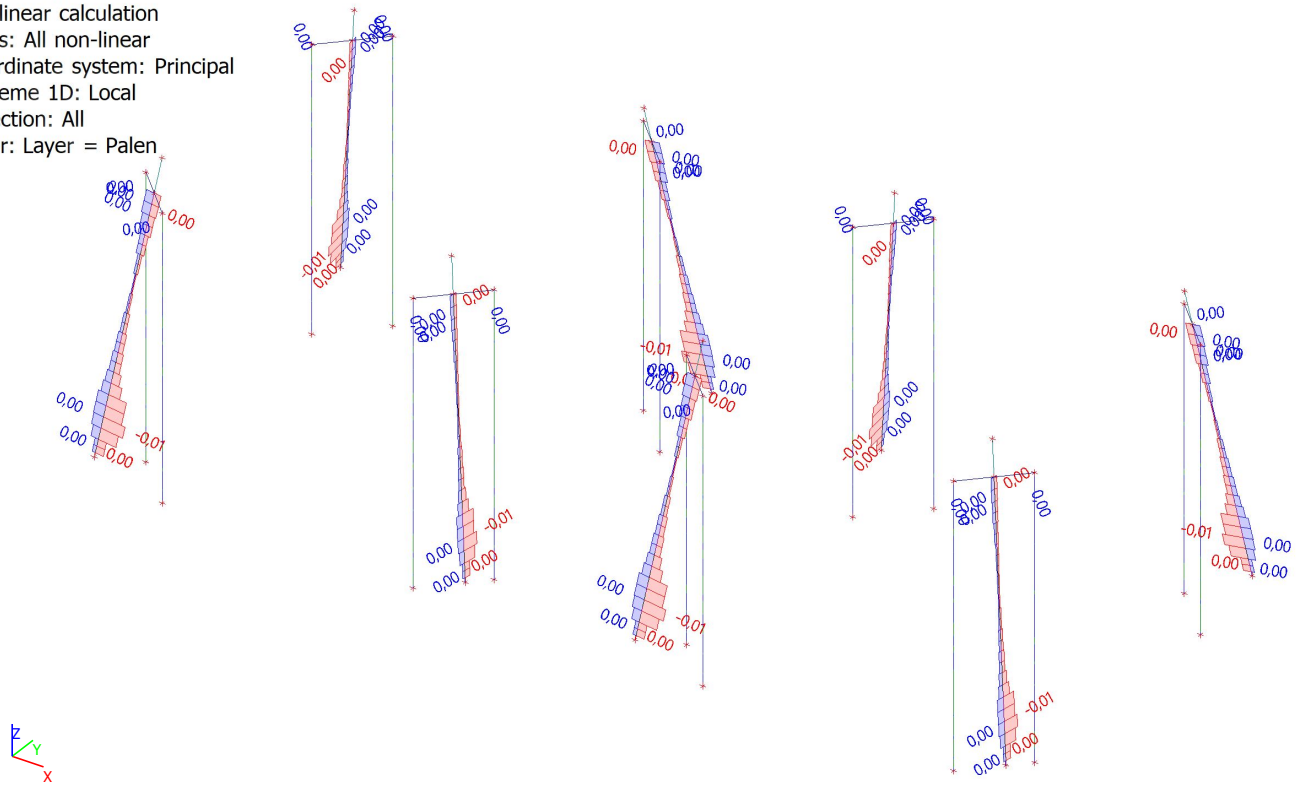
7.2.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



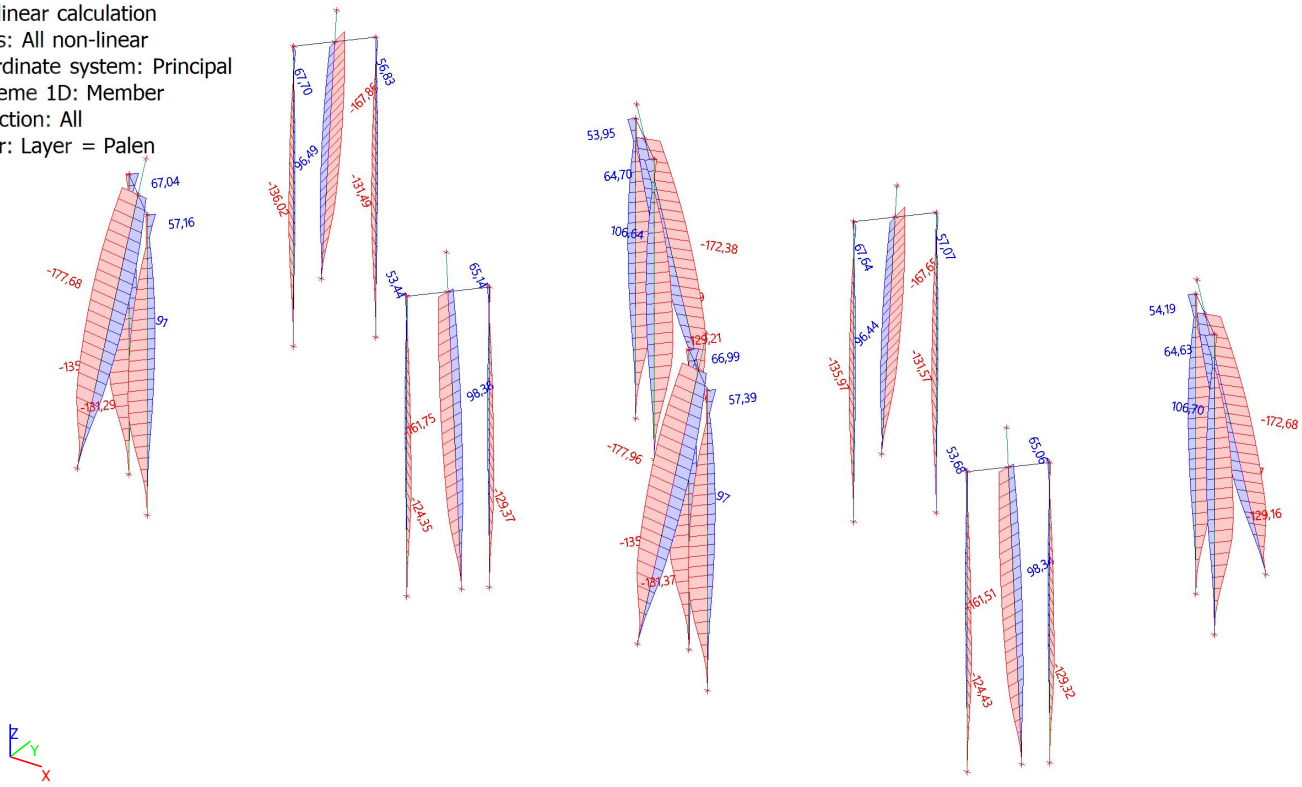
7.2.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



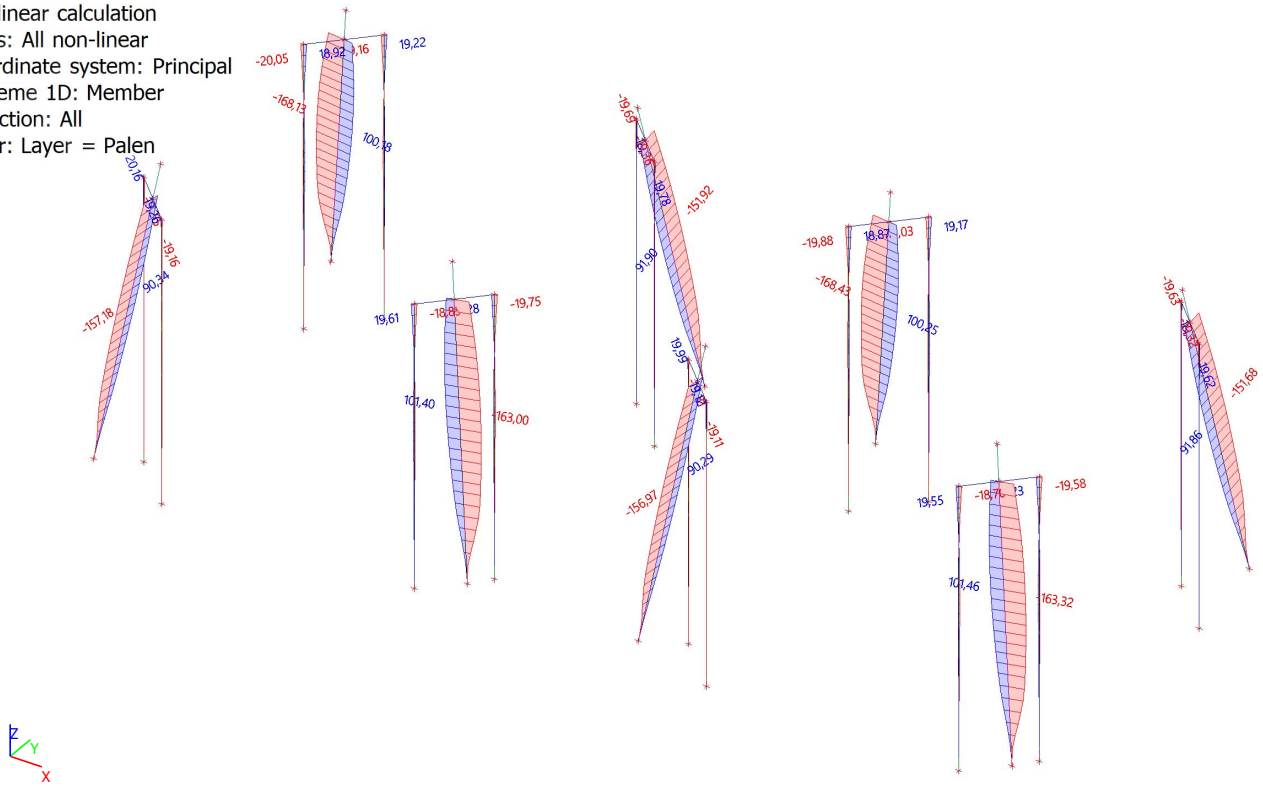
7.2.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Nothing in selection to display.

7.2.8. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_X7	12,980	high max Wnd ;315° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	**-244,56**	0,00	0,00	0,00	0,00	0,00
Paal_X5	0,000	high max Wnd ;315° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-184,14	**-8,89**	8,75	0,00	-10,35	**20,16**
Paal_X1	0,000	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	**145,45**	-5,15	**-49,46**	0,00	**67,70**	10,97
Paal_X1	10,500+	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	128,72	0,29	**45,67**	**0,00**	-70,49	-0,28
Paal_X1	8,000-	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	133,68	0,52	-2,65	0,00	**-136,02**	-1,60
Paal_X1	0,000	high max Wnd ;135° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-183,97	**8,85**	8,73	0,00	-10,35	**-20,05**

7.3. Krachten van de Poeren

7.3.1. 1D internal forces

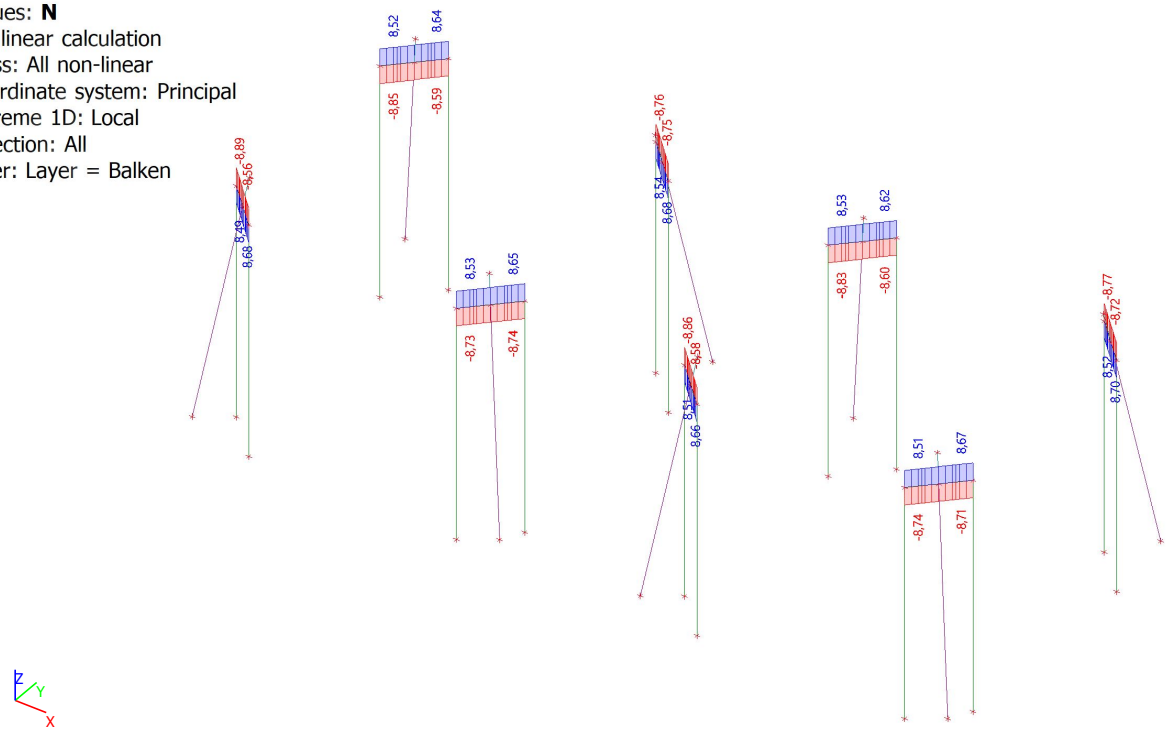
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = Poer800 - Circle (800,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer_P	0,000	high max Wnd ;315° - EG_Ongunstig	Poer800 - Circle (800,00)	**-893,53**	36,65	14,10	0,00	-21,98	-61,20
Poer_XY	1,560	low max Wnd ;225° - EG_Gunstig	Poer800 - Circle (800,00)	**694,89**	-29,45	-14,01	**0,00**	0,00	0,00
Poer_XY	0,000	low max Wnd ;225° - EG_Gunstig	Poer800 - Circle (800,00)	677,93	**-32,89**	-13,99	0,00	21,84	**48,63**
Poer_XY	1,560	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	-862,02	**41,83**	14,92	0,00	0,00	0,00
Poer_X	0,000	high max Wnd ;315° - EG_Ongunstig	Poer800 - Circle (800,00)	-330,13	7,91	**-28,11**	0,00	**43,83**	-16,37
Poer_XY	0,000	high max Wnd ;135° - EG_Ongunstig	Poer800 - Circle (800,00)	-328,52	7,88	**28,01**	0,00	**-43,68**	-16,32
Poer_XY	0,000	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	-887,45	36,67	14,96	0,00	-23,31	**-61,23**

7.4. Krachten van de Funderingsbalken

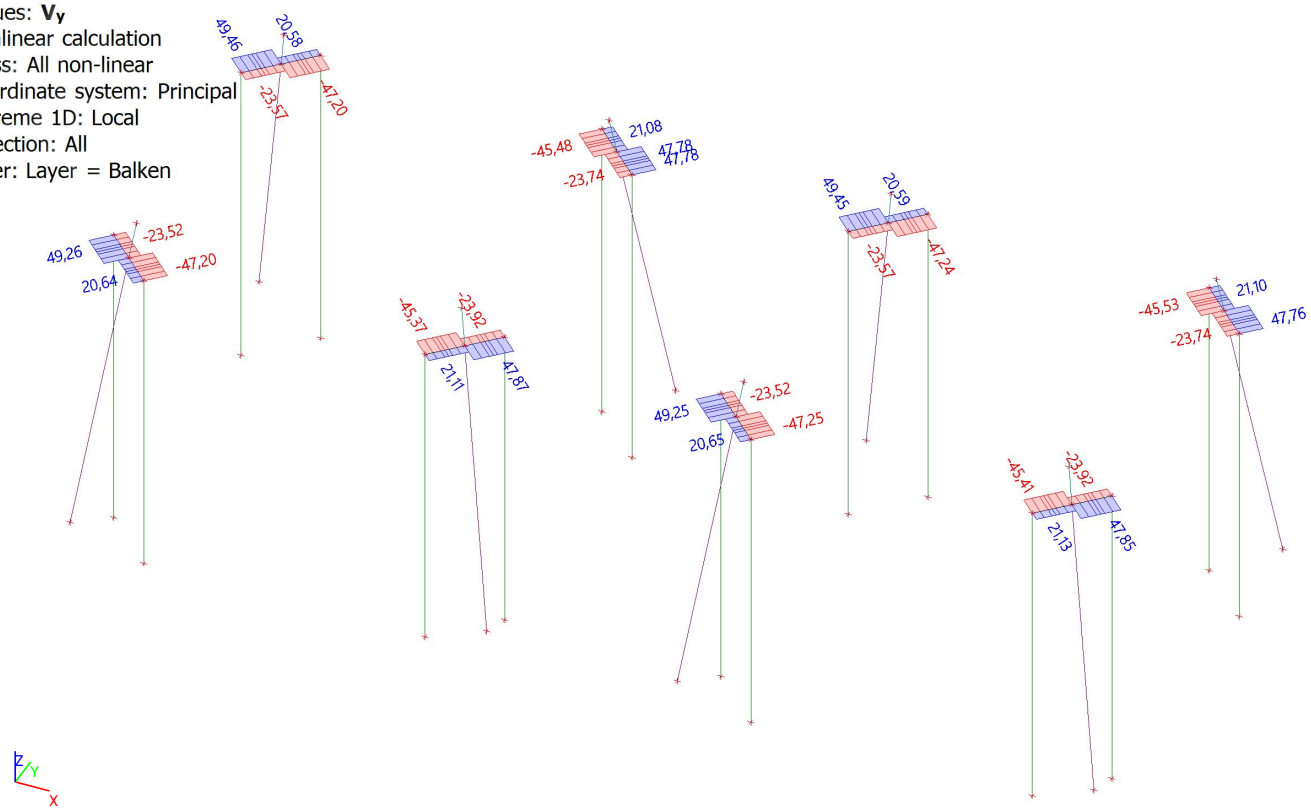
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



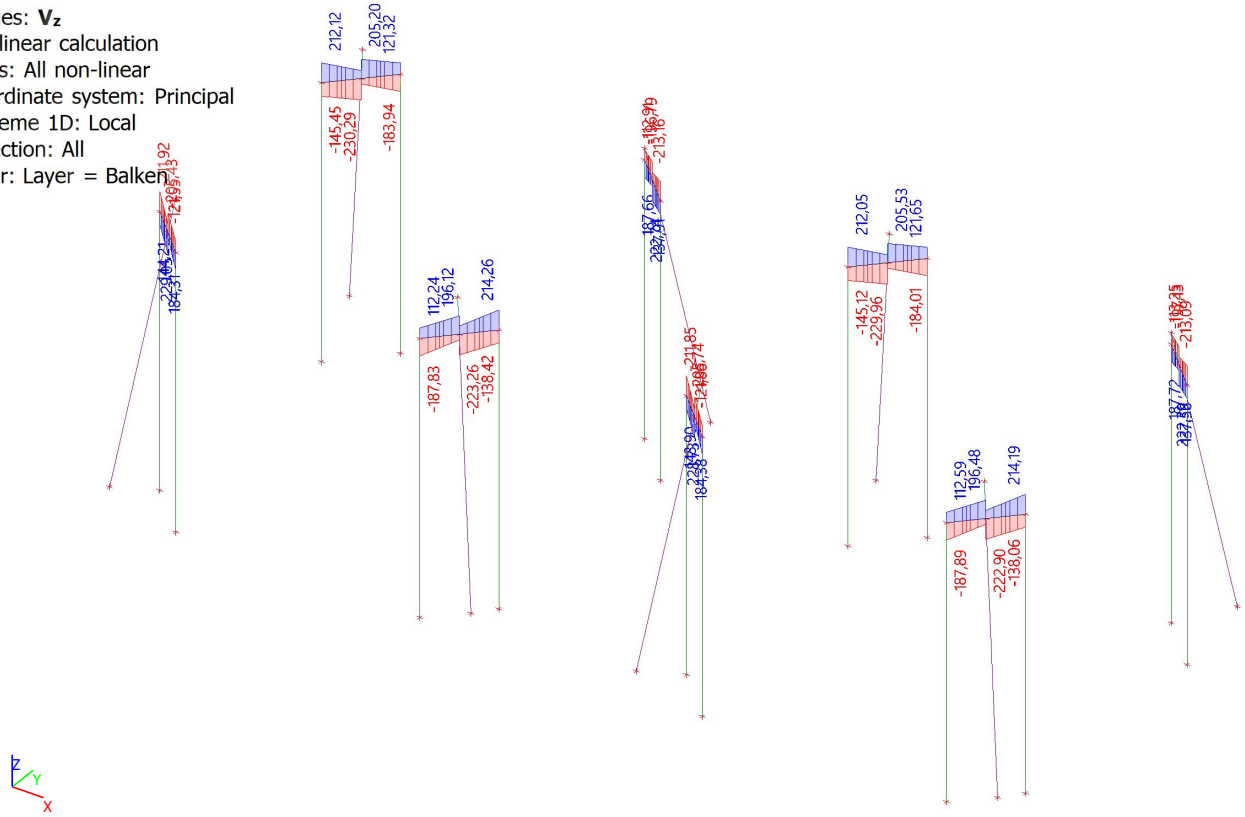
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



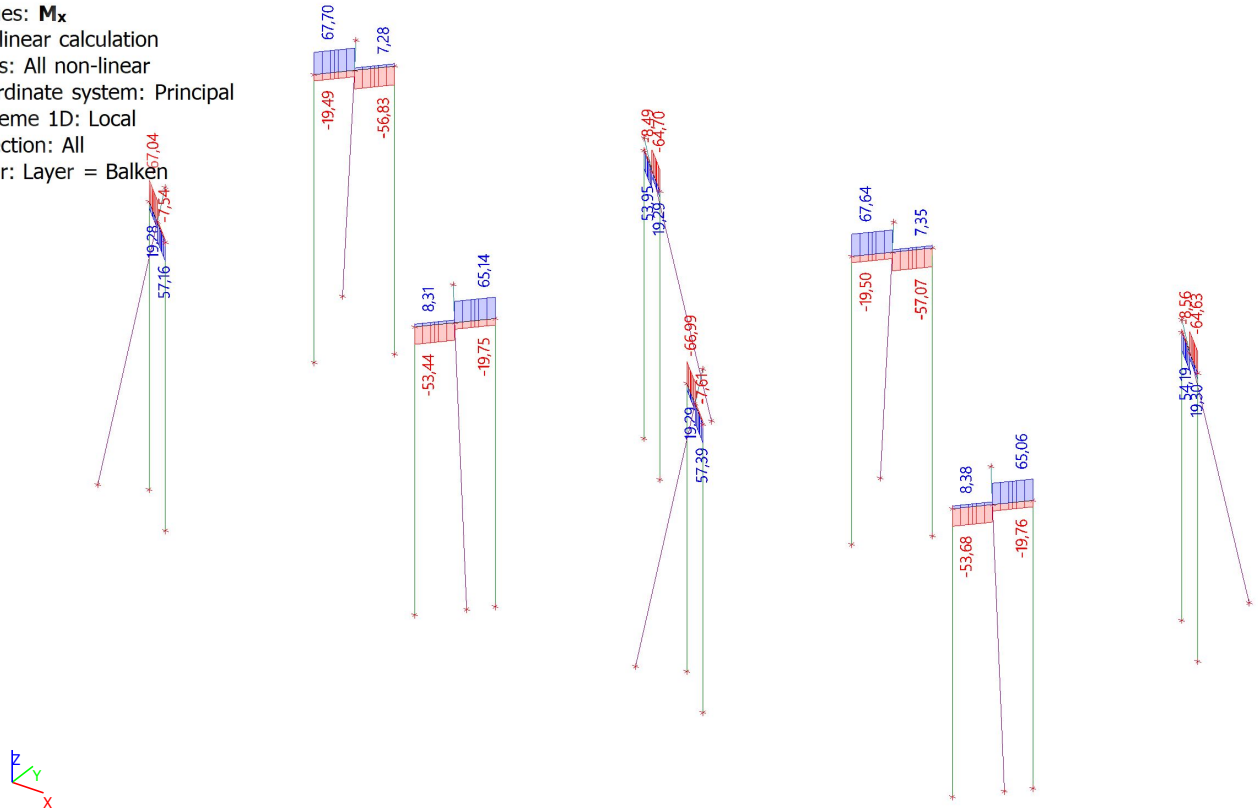
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



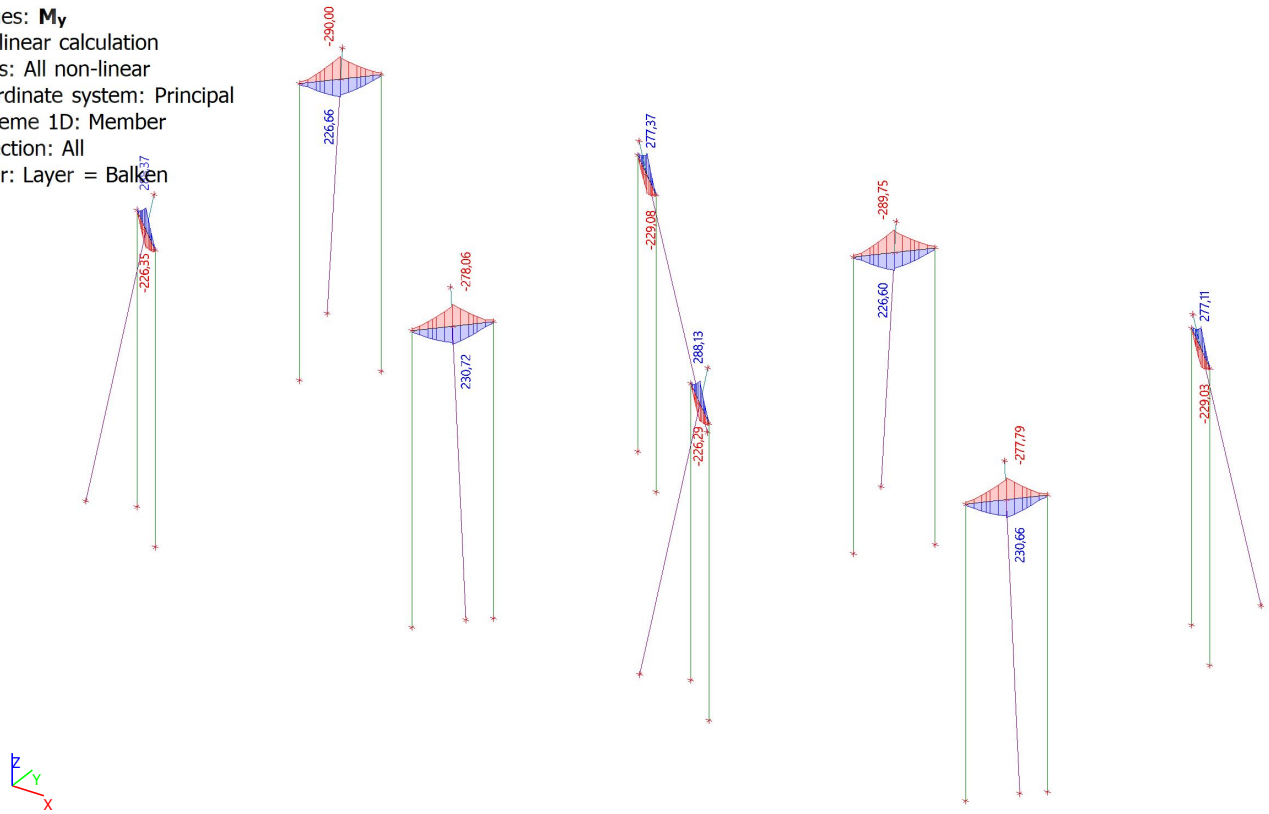
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



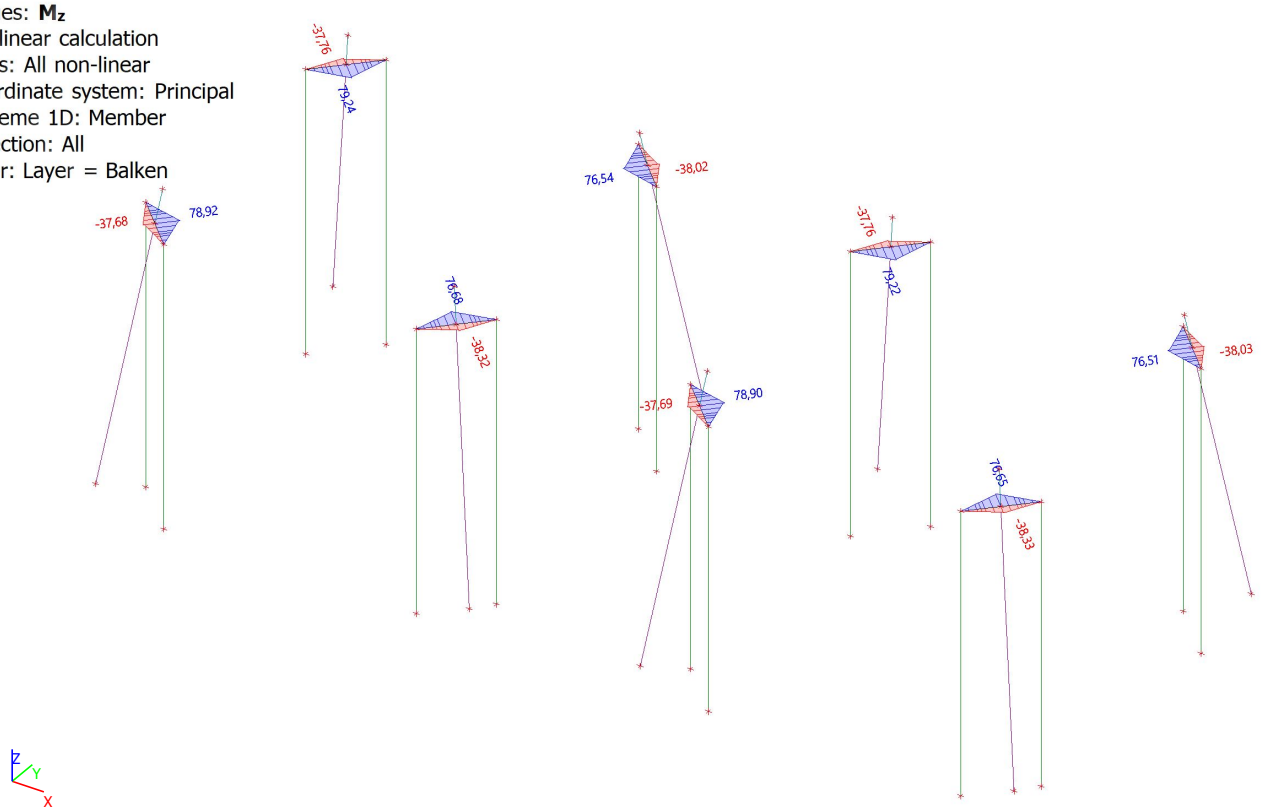
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. 1D internal forces

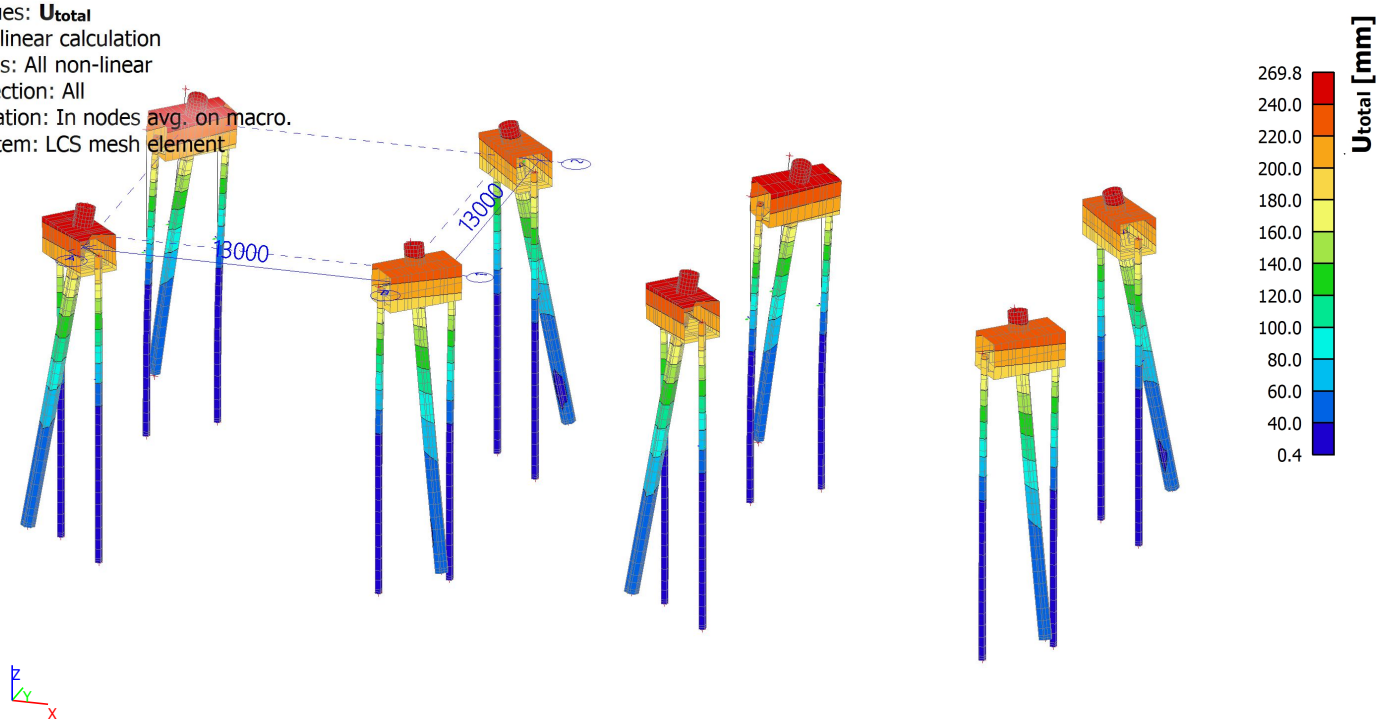
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = lijnpoer - Rectangle (1500,00; 1600,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
DIN38	0,000	high max Wnd ;315° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**-8,89**	-8,75	-184,14	10,35	20,16	0,00
DIN45	0,000	low max Wnd ;225° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**8,70**	8,80	-34,45	-14,00	-19,32	0,00
DIN46	1,602+	low max Wnd ;135° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-4,56	**-47,25**	-205,74	57,39	268,34	74,84
DIN34	1,602-	low max Wnd ;225° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	5,15	**49,46**	**-230,29**	**67,70**	**-290,00**	**79,24**
DIN38	1,602-	low max Wnd ;135° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	4,97	49,26	**229,05**	**-67,04**	**288,37**	78,92
DIN47	1,602-	high max Wnd ;315° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-4,95	-23,92	86,94	-19,76	230,66	**-38,33**

7.5. Vervormingen

7.5.1. 3D displacement; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro.
System: LCS mesh element



7.5.2. 3D displacement

Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro. System: LCS mesh element
Results on 1D member:
Extreme 1D: Member

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Poer_X	0,000	19	high max Wnd ;45° - EG_Ongunstig	0,3	3,9	-4,2	-1,4	0,4	0,9	**5,7**
Poer_X	1,560	15	low max Wnd ;135° - EG_Gunstig	56,8	262,9	-2,3	-1,9	0,5	30,8	**269,0**
Paal_P	11,787	20	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	0,0	1,4	-0,2	0,0	**0,1**
Paal_P	0,000	28	low max Wnd ;135° - EG_Gunstig	-53,2	-146,8	-156,9	1,9	-22,5	20,8	**221,3**
Poer_P	0,000	13	high max Wnd ;135° - EG_Ongunstig	0,1	3,5	4,3	1,4	-0,4	0,8	**5,5**
Poer_P	1,560	17	low max Wnd ;45° - EG_Gunstig	53,9	249,4	2,5	2,2	-0,6	29,4	**255,2**
Paal_Y	9,000-	2	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	-1,4	0,1	0,3	**0,1**
Paal_Y	0,000	28	low max Wnd ;45° - EG_Gunstig	-50,4	-141,4	-146,0	-2,2	-20,8	20,5	**209,4**
Poer_Y	0,000	19	high max Wnd ;315° -	0,2	3,6	-4,3	-1,4	0,4	0,8	**5,6**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_Y	1,560	15	low max Wnd ;315° - EG_Gunstig	53,9	249,5	-2,5	-2,0	0,6	29,4	**255,2**
Paal_XY	11,787	20	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	0,0	1,4	-0,2	0,0	**0,0**
Paal_XY	0,000	28	low max Wnd ;315° - EG_Gunstig	-50,4	-139,0	-148,8	2,0	-21,5	19,8	**209,8**
Poer_XY	0,000	13	high max Wnd ;225° - EG_Ongunstig	0,3	3,9	4,2	1,4	-0,4	0,9	**5,7**
Poer_XY	1,560	17	low max Wnd ;225° - EG_Gunstig	57,0	263,7	2,4	2,1	-0,6	30,9	**269,8**
Paal_X	9,000-	2	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	-0,1	-1,4	0,0	0,3	**0,1**
Paal_X	0,000	28	low max Wnd ;225° - EG_Gunstig	-53,3	-149,6	-154,8	-2,1	-21,9	21,5	**221,8**
DIN34	3,186	1	high max Wnd ;225° - EG_Ongunstig	3,3	-1,3	-0,1	0,9	0,1	1,5	**3,6**
DIN34	0,000	3	low max Wnd ;225° - EG_Gunstig	0,6	-246,7	25,1	30,7	0,0	2,1	**248,0**
Paal_X1	7,563	7	low max Wnd ;315° - EG_Gunstig	0,1	0,1	-0,1	-1,6	-0,2	0,2	**0,2**
Paal_X1	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,8	-2,3	-223,6	-2,1	-30,7	0,0	**223,6**
Paal_X2	11,500-	6	low max Wnd ;45° - EG_Gunstig	0,1	0,0	0,1	1,8	-0,1	0,0	**0,2**
Paal_X2	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,7	-2,3	-216,8	-2,2	-30,7	0,1	**216,8**
DIN37	3,186	3	high max Wnd ;315° - EG_Ongunstig	3,4	-1,0	0,2	-0,8	-0,1	1,5	**3,6**
DIN37	0,000	1	low max Wnd ;315° - EG_Gunstig	0,8	-233,2	-23,9	-29,2	0,0	2,1	**234,5**
Paal_X3	7,563	7	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	-0,1	1,6	-0,2	-0,2	**0,1**
Paal_X3	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,8	2,4	-211,3	2,1	-29,2	0,0	**211,3**
Paal_X4	10,500-	8	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	2,1	-1,6	0,0	**0,1**
Paal_X4	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,7	2,4	-204,7	2,1	-29,2	-0,1	**204,7**
DIN38	3,186	3	high max Wnd ;45° - EG_Ongunstig	3,3	-1,3	0,1	-0,9	-0,1	1,5	**3,5**
DIN38	0,000	1	low max Wnd ;135° - EG_Gunstig	0,7	-245,6	-25,0	-30,6	0,0	1,9	**246,8**
Paal_X5	7,563	7	low max Wnd ;45° -	0,1	-0,1	-0,1	1,6	-0,2	-0,2	**0,2**

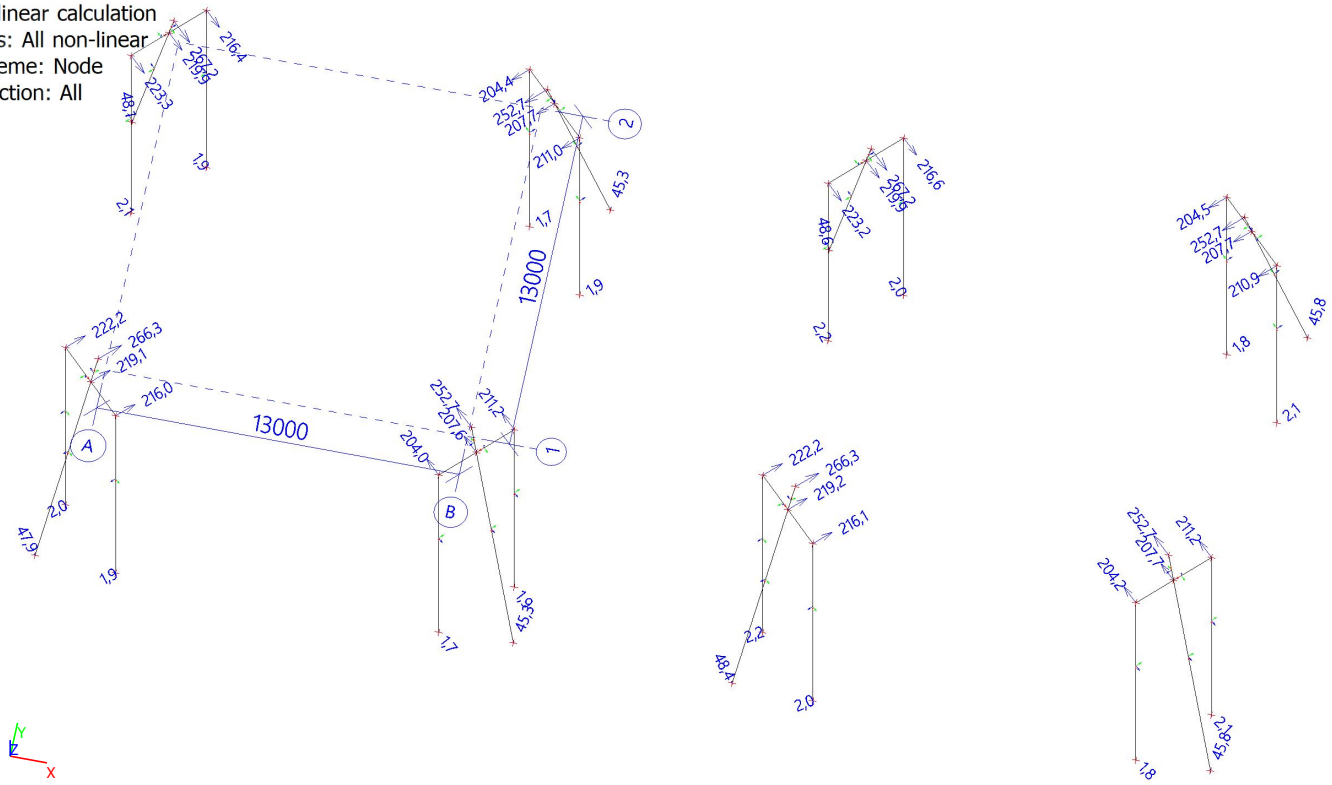
Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_X5	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,8	2,2	-222,5	1,9	-30,6	0,0	**222,6**
Paal_X6	11,500-	8	low max Wnd ;315° - EG_Gunstig	0,1	0,0	0,0	-1,8	-0,1	0,0	**0,2**
Paal_X6	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,7	2,2	-216,3	2,0	-30,6	-0,1	**216,3**
DIN39	3,186	1	high max Wnd ;135° - EG_Ongunstig	3,4	-1,0	-0,2	0,8	0,1	1,4	**3,6**
DIN39	0,000	3	low max Wnd ;45° - EG_Gunstig	0,7	-233,5	23,9	29,2	0,0	2,2	**234,7**
Paal_X7	7,563	7	low max Wnd ;135° - EG_Gunstig	0,1	0,1	-0,1	-1,6	-0,2	0,2	**0,1**
Paal_X7	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,8	-2,4	-211,6	-2,2	-29,2	0,0	**211,6**
Paal_X8	11,500-	6	low max Wnd ;225° - EG_Gunstig	0,2	0,0	0,0	1,7	-0,1	0,0	**0,2**
Paal_X8	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,6	-2,4	-204,4	-2,3	-29,2	0,1	**204,4**
Poer_X2	0,000	19	high max Wnd ;45° - EG_Ongunstig	0,2	4,3	-4,2	-1,4	0,4	1,0	**6,0**
Poer_X2	1,560	15	low max Wnd ;135° - EG_Gunstig	57,4	262,8	-2,4	-1,8	0,6	30,8	**269,0**
Paal_P2	11,694-	6	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	0,0	1,4	-0,2	0,0	**0,0**
Paal_P2	0,000	28	low max Wnd ;135° - EG_Gunstig	-53,8	-146,6	-156,8	1,8	-22,5	20,7	**221,3**
Poer_P2	0,000	13	high max Wnd ;135° - EG_Ongunstig	0,1	3,9	4,3	1,4	-0,4	0,9	**5,9**
Poer_P2	1,560	17	low max Wnd ;45° - EG_Gunstig	54,5	249,3	2,7	2,1	-0,6	29,4	**255,2**
Paal_Y2	9,000-	2	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	-1,4	0,0	0,3	**0,1**
Paal_Y2	0,000	28	low max Wnd ;45° - EG_Gunstig	-50,9	-141,4	-145,9	-2,1	-20,8	20,5	**209,5**
Poer_Y2	0,000	19	high max Wnd ;315° - EG_Ongunstig	0,1	4,0	-4,4	-1,4	0,4	0,9	**5,9**
Poer_Y2	1,560	15	low max Wnd ;315° - EG_Gunstig	54,5	249,4	-2,7	-1,9	0,6	29,4	**255,2**
Paal_XY2	11,694-	6	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	0,0	1,4	-0,2	0,0	**0,0**
Paal_XY2	0,000	28	low max Wnd ;315° - EG_Gunstig	-51,0	-138,9	-148,8	2,0	-21,5	19,7	**209,8**
Poer_XY2	0,000	13	high max Wnd ;225° -	0,2	4,3	4,2	1,5	-0,4	1,0	**6,0**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_XY2	1,560	17	low max Wnd ;225° - EG_Gunstig	57,6	263,6	2,5	2,0	-0,6	30,9	**269,8**
Paal_X19	9,000-	2	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	-1,5	0,0	0,3	**0,1**
Paal_X19	0,000	28	low max Wnd ;225° - EG_Gunstig	-53,9	-149,6	-154,7	-2,0	-21,9	21,5	**221,8**
DIN44	3,186	1	high max Wnd ;225° - EG_Ongunstig	3,3	-1,5	-0,2	1,0	0,1	1,5	**3,7**
DIN44	0,000	3	low max Wnd ;225° - EG_Gunstig	0,8	-246,6	25,7	30,7	0,0	2,1	**247,9**
Paal_X20	7,563	7	low max Wnd ;315° - EG_Gunstig	0,1	0,1	-0,1	-1,7	-0,2	0,2	**0,2**
Paal_X20	0,000	2	low max Wnd ;225° - EG_Gunstig	-1,5	-2,3	-223,5	-2,1	-30,7	0,0	**223,5**
Paal_X21	12,980	8	low max Wnd ;135° - EG_Gunstig	0,1	0,0	-0,2	1,7	0,0	0,0	**0,3**
Paal_X21	0,000	2	low max Wnd ;225° - EG_Gunstig	-1,3	-2,3	-216,9	-2,1	-30,7	0,1	**216,9**
DIN45	3,186	3	high max Wnd ;315° - EG_Ongunstig	3,5	-1,3	0,3	-0,9	-0,1	1,5	**3,7**
DIN45	0,000	1	low max Wnd ;315° - EG_Gunstig	0,9	-233,2	-24,5	-29,2	-0,1	2,0	**234,4**
Paal_X22	7,563	7	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	-0,1	1,6	-0,2	-0,2	**0,2**
Paal_X22	0,000	4	low max Wnd ;315° - EG_Gunstig	-1,4	2,5	-211,2	2,0	-29,2	-0,1	**211,3**
Paal_X23	10,500-	8	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	-0,1	2,0	-1,6	0,0	**0,2**
Paal_X23	0,000	4	low max Wnd ;315° - EG_Gunstig	-1,2	2,5	-204,8	2,0	-29,2	-0,1	**204,8**
DIN46	3,186	3	high max Wnd ;45° - EG_Ongunstig	3,3	-1,5	0,2	-1,0	-0,1	1,5	**3,7**
DIN46	0,000	1	low max Wnd ;135° - EG_Gunstig	0,8	-245,5	-25,6	-30,6	0,0	1,9	**246,8**
Paal_X24	7,563	7	low max Wnd ;45° - EG_Gunstig	0,1	-0,1	-0,1	1,6	-0,2	-0,2	**0,2**
Paal_X24	0,000	4	low max Wnd ;135° - EG_Gunstig	-1,5	2,3	-222,5	1,9	-30,6	0,0	**222,5**
Paal_X25	10,500-	8	high max Wnd ;135° - EG_Ongunstig	-0,2	0,0	-0,2	1,9	-1,7	0,0	**0,3**
Paal_X25	0,000	4	low max Wnd ;135° - EG_Gunstig	-1,3	2,3	-216,4	1,9	-30,6	-0,1	**216,4**
DIN47	3,186	1	high max Wnd ;135° -	3,4	-1,3	-0,3	0,9	0,1	1,5	**3,7**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
DIN47	0,000	3	low max Wnd ;45° - EG_Gunstig	0,9	-233,4	24,5	29,2	0,1	2,2	**234,7**
Paal_X26	7,563	7	low max Wnd ;135° - EG_Gunstig	0,1	0,1	-0,1	-1,6	-0,2	0,2	**0,2**
Paal_X26	0,000	2	low max Wnd ;45° - EG_Gunstig	-1,4	-2,5	-211,5	-2,2	-29,2	0,1	**211,5**
Paal_X27	10,500-	6	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	-0,1	-2,2	-1,5	0,0	**0,2**
Paal_X27	0,000	2	low max Wnd ;45° - EG_Gunstig	-1,2	-2,5	-204,5	-2,2	-29,2	0,1	**204,5**

7.5.3. Displacement of nodes; U_total

Values: $\mathbf{U_{total}}$
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Displacement of nodes

Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N123	high max Wnd ;225° - EG_Ongunstig	**-50,8**	**-47,5**	**-1,2**	**8,5**	**-8,6**	**1,9**	69,6
N123	low max Wnd ;135° - EG_Gunstig	**156,5**	**153,4**	**0,9**	**-21,6**	**21,7**	**-1,9**	**219,1**
1P	high max Wnd ;225° - EG_Ongunstig	**-64,7**	**-60,4**	**2,4**	**8,7**	**-8,9**	**1,9**	88,5
1P	low max Wnd ;135° - EG_Gunstig	**190,3**	**186,1**	**-8,5**	**-21,7**	**21,9**	**-2,0**	**266,3**
N139	high max Wnd ;225° - EG_Ongunstig	**1,0**	**0,8**	**-13,4**	**1,6**	**-1,2**	**1,8**	13,5
N139	low max Wnd ;135° - EG_Gunstig	**-7,0**	**-6,9**	**46,9**	**-8,8**	**8,3**	**-1,9**	**47,9**
N141	low max Wnd ;45° - EG_Gunstig	**-148,5**	**145,1**	**0,8**	**-20,6**	**-20,7**	**2,3**	**207,6**
N141	high max Wnd ;315° - EG_Ongunstig	**52,1**	**-49,1**	**-1,2**	**8,7**	**8,8**	**-1,8**	71,6
1Y	high max Wnd ;315° - EG_Ongunstig	**66,4**	**-62,3**	**2,4**	**8,9**	**9,1**	-1,8	91,0
1Y	low max Wnd ;45° - EG_Gunstig	**-180,9**	**176,2**	**-8,1**	**-20,7**	**-20,9**	**2,3**	**252,7**
1Y	high max Wnd ;225° - EG_Ongunstig	11,5	-3,6	-0,4	1,2	1,6	**-1,8**	12,0
N143	high max Wnd ;315° - EG_Ongunstig	**-1,1**	**0,9**	**-13,9**	**1,7**	**1,2**	-1,7	13,9
N143	low max Wnd ;45° - EG_Gunstig	**6,5**	**-6,4**	**44,3**	**-8,2**	**-7,6**	**2,2**	**45,3**
N143	high max Wnd ;225° - EG_Ongunstig	-0,1	-0,3	-1,5	0,1	-0,2	**-1,7**	1,5
N146	high max Wnd ;135° - EG_Ongunstig	**51,7**	**48,7**	**-1,2**	**-8,7**	**8,8**	1,7	71,1
N146	low max Wnd ;315° - EG_Gunstig	**-148,5**	**-145,2**	**0,8**	**20,6**	**-20,7**	**-2,1**	**207,7**
N146	high max Wnd ;45° - EG_Ongunstig	8,6	2,0	-0,9	-1,3	1,4	**1,8**	8,9
1XY	high max Wnd ;135° - EG_Ongunstig	**65,9**	**61,8**	**2,4**	**-8,8**	**9,0**	1,7	90,4
1XY	low max Wnd ;315° - EG_Gunstig	**-180,9**	**-176,3**	**-8,1**	**20,7**	**-20,9**	**-2,1**	**252,7**
1XY	high max Wnd ;45° - EG_Ongunstig	11,5	3,6	-0,4	-1,2	1,6	**1,8**	12,0
N148	high max Wnd ;135° - EG_Ongunstig	**-1,1**	**-0,8**	**-13,7**	**-1,6**	**1,2**	1,6	13,8
N148	low max Wnd ;315° - EG_Gunstig	**6,5**	**6,3**	**44,3**	**8,2**	**-7,7**	**-2,0**	**45,3**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N148	high max Wnd ;45° - EG_Ongunstig	-0,1	0,3	-1,5	-0,1	-0,2	**1,7**	1,5
N151	low max Wnd ;225° - EG_Gunstig	**157,1**	**-153,9**	**0,9**	**21,7**	**21,7**	**2,1**	**219,9**
N151	high max Wnd ;45° - EG_Ongunstig	**-50,8**	**47,5**	**-1,2**	**-8,5**	**-8,6**	**-1,9**	69,5
1X	low max Wnd ;225° - EG_Gunstig	**191,0**	**-186,6**	**-8,5**	**21,7**	**21,9**	**2,2**	**267,2**
1X	high max Wnd ;45° - EG_Ongunstig	**-64,7**	**60,3**	**2,4**	**-8,7**	**-8,9**	**-1,9**	88,5
N153	low max Wnd ;225° - EG_Gunstig	**-7,0**	**6,9**	**47,0**	**8,8**	**8,3**	**2,1**	**48,1**
N153	high max Wnd ;45° - EG_Ongunstig	**1,0**	**-0,8**	**-13,4**	**-1,6**	**-1,1**	**-1,8**	13,5
N155	low max Wnd ;225° - EG_Gunstig	**154,6**	**-151,4**	**0,7**	**21,6**	**21,8**	**2,2**	**216,4**
N155	high max Wnd ;45° - EG_Ongunstig	**-48,6**	**45,4**	**-1,0**	**-8,5**	**-8,6**	**-1,9**	66,5
N156	low max Wnd ;225° - EG_Gunstig	**159,5**	**-156,3**	**0,9**	**21,7**	**21,7**	**2,1**	**223,3**
N156	high max Wnd ;45° - EG_Ongunstig	**-52,9**	**49,7**	**-1,2**	**-8,6**	**-8,6**	**-1,9**	72,6
N159	low max Wnd ;225° - EG_Gunstig	**-1,5**	**1,5**	**0,2**	**0,3**	**0,3**	**2,1**	**2,1**
N159	low max Wnd ;315° - EG_Gunstig	0,0	0,0	0,0	**0,0**	**0,0**	1,6	0,0
N159	high max Wnd ;45° - EG_Ongunstig	**0,1**	**-0,1**	**-0,1**	0,1	0,1	**-1,9**	0,2
N160	low max Wnd ;225° - EG_Gunstig	**-1,3**	**1,3**	**0,2**	**0,2**	**0,2**	**2,2**	**1,9**
N160	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	-1,7	0,1
N160	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	0,0	**0,0**	1,6	0,1
N160	high max Wnd ;45° - EG_Ongunstig	**0,1**	**-0,1**	**-0,1**	0,1	0,1	**-1,9**	0,2
N165	high max Wnd ;135° - EG_Ongunstig	**49,8**	**46,8**	**-1,1**	**-8,7**	**8,8**	1,7	68,4
N165	low max Wnd ;315° - EG_Gunstig	**-146,2**	**-142,8**	**0,6**	**20,6**	**-20,7**	**-2,1**	**204,4**
N165	high max Wnd ;45° - EG_Ongunstig	6,6	0,0	-0,7	-1,3	1,5	**1,8**	6,7
N166	high max Wnd ;135° - EG_Ongunstig	**53,7**	**50,7**	**-1,2**	**-8,7**	**8,7**	1,7	73,8

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N166	low max Wnd ;315° - EG_Gunstig	**-150,9**	**-147,5**	**0,8**	**20,6**	**-20,7**	**-2,1**	**211,0**
N166	high max Wnd ;45° - EG_Ongunstig	10,7	4,1	-1,0	-1,3	1,4	**1,8**	11,5
N167	high max Wnd ;135° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,1**	0,1	-0,1	1,7	0,2
N167	low max Wnd ;225° - EG_Gunstig	0,0	0,0	0,0	**0,0**	**0,0**	-1,6	0,0
N167	low max Wnd ;315° - EG_Gunstig	**1,3**	**1,3**	**0,2**	**0,2**	**-0,2**	**-2,1**	**1,9**
N167	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**1,8**	0,1
N168	high max Wnd ;135° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,1**	0,1	-0,1	1,7	0,2
N168	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	0,0	**0,0**	-1,6	0,1
N168	low max Wnd ;315° - EG_Gunstig	**1,2**	**1,2**	**0,2**	**0,2**	**-0,2**	**-2,1**	**1,7**
N168	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,1	**0,0**	0,0	**1,8**	0,1
N169	high max Wnd ;225° - EG_Ongunstig	**-48,7**	**-45,5**	**-1,0**	**8,5**	**-8,6**	**1,9**	66,6
N169	low max Wnd ;135° - EG_Gunstig	**154,3**	**151,2**	**0,7**	**-21,6**	**21,7**	**-2,0**	**216,0**
N170	high max Wnd ;225° - EG_Ongunstig	**-52,9**	**-49,6**	**-1,2**	**8,6**	**-8,6**	**1,8**	72,5
N170	low max Wnd ;135° - EG_Gunstig	**158,7**	**155,6**	**0,8**	**-21,6**	**21,7**	**-1,9**	**222,2**
N171	high max Wnd ;225° - EG_Ongunstig	**0,1**	**0,1**	**-0,1**	-0,1	0,1	**1,8**	0,2
N171	low max Wnd ;45° - EG_Gunstig	0,0	0,0	0,0	**0,0**	**0,0**	-1,6	0,0
N171	low max Wnd ;135° - EG_Gunstig	**-1,4**	**-1,4**	**0,2**	**-0,3**	**0,3**	**-1,9**	**2,0**
N172	high max Wnd ;225° - EG_Ongunstig	**0,1**	**0,1**	**-0,1**	-0,1	0,1	**1,9**	0,2
N172	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	1,7	0,1
N172	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	0,0	**0,0**	-1,6	0,1
N172	low max Wnd ;135° - EG_Gunstig	**-1,3**	**-1,3**	**0,2**	**-0,2**	**0,2**	**-2,0**	**1,9**
N173	low max Wnd ;45° - EG_Gunstig	**-146,0**	**142,6**	**0,6**	**-20,6**	**-20,7**	**2,3**	**204,0**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N173	high max Wnd ;315° - EG_Ongunstig	**50,1**	**-47,1**	**-1,1**	**8,7**	**8,8**	**-1,8**	68,7
N174	low max Wnd ;45° - EG_Gunstig	**-151,1**	**147,6**	**0,8**	**-20,6**	**-20,7**	**2,2**	**211,2**
N174	high max Wnd ;315° - EG_Ongunstig	**54,2**	**-51,1**	**-1,2**	**8,8**	**8,8**	**-1,8**	74,5
N175	low max Wnd ;45° - EG_Gunstig	**1,3**	**-1,3**	**0,2**	**-0,2**	**-0,2**	**2,2**	**1,9**
N175	low max Wnd ;135° - EG_Gunstig	0,0	0,0	0,0	**0,0**	**0,0**	1,6	0,0
N175	high max Wnd ;315° - EG_Ongunstig	**-0,1**	**0,1**	**-0,1**	-0,1	-0,1	**-1,8**	0,2
N176	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	-1,8	0,1
N176	low max Wnd ;45° - EG_Gunstig	**1,2**	**-1,2**	**0,2**	**-0,2**	**-0,2**	**2,3**	**1,7**
N176	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	0,0	**0,0**	1,6	0,1
N176	high max Wnd ;315° - EG_Ongunstig	**-0,1**	**0,1**	**-0,1**	-0,1	-0,1	**-1,8**	0,2
N202	high max Wnd ;225° - EG_Ongunstig	**-50,8**	**-47,5**	**-1,4**	**8,5**	**-8,6**	**1,8**	69,6
N202	low max Wnd ;135° - EG_Gunstig	**156,5**	**153,4**	**1,5**	**-21,6**	**21,7**	**-1,9**	**219,2**
1P2	high max Wnd ;225° - EG_Ongunstig	**-64,7**	**-60,4**	**2,2**	**8,7**	**-8,9**	**1,9**	88,5
1P2	low max Wnd ;135° - EG_Gunstig	**190,4**	**186,1**	**-7,8**	**-21,7**	**21,9**	**-1,9**	**266,3**
N203	high max Wnd ;225° - EG_Ongunstig	**1,0**	**0,7**	**-13,6**	**1,6**	**-1,2**	**1,8**	13,7
N203	low max Wnd ;135° - EG_Gunstig	**-7,0**	**-6,8**	**47,5**	**-8,7**	**8,3**	**-1,8**	**48,4**
N204	low max Wnd ;45° - EG_Gunstig	**-148,6**	**145,0**	**1,4**	**-20,6**	**-20,7**	**2,2**	**207,7**
N204	high max Wnd ;315° - EG_Ongunstig	**52,2**	**-49,1**	**-1,4**	**8,7**	**8,8**	**-1,8**	71,6
1Y2	low max Wnd ;45° - EG_Gunstig	**-181,0**	**176,1**	**-7,5**	**-20,6**	**-20,9**	**2,2**	**252,7**
1Y2	high max Wnd ;315° - EG_Ongunstig	**66,4**	**-62,2**	**2,2**	**8,9**	**9,1**	**-1,8**	91,0
N205	low max Wnd ;45° - EG_Gunstig	**6,4**	**-6,3**	**44,9**	**-8,2**	**-7,6**	**2,1**	**45,8**
N205	high max Wnd ;315° - EG_Ongunstig	**-1,0**	**0,8**	**-14,1**	**1,7**	**1,2**	**-1,7**	14,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N206	high max Wnd ;135° - EG_Ongunstig	**51,8**	**48,7**	**-1,4**	**-8,7**	**8,8**	1,7	71,1
N206	low max Wnd ;315° - EG_Gunstig	**-148,6**	**-145,1**	**1,4**	**20,6**	**-20,7**	**-2,0**	**207,7**
N206	high max Wnd ;45° - EG_Ongunstig	8,3	1,6	-1,1	-1,2	1,4	**1,7**	8,5
1XY2	high max Wnd ;135° - EG_Ongunstig	**65,9**	**61,8**	**2,2**	**-8,8**	**9,0**	1,7	90,4
1XY2	low max Wnd ;315° - EG_Gunstig	**-181,0**	**-176,2**	**-7,5**	**20,6**	**-20,9**	**-2,0**	**252,7**
1XY2	high max Wnd ;45° - EG_Ongunstig	11,0	3,0	-0,6	-1,1	1,6	**1,8**	11,4
N207	high max Wnd ;135° - EG_Ongunstig	**-1,0**	**-0,8**	**-13,9**	**-1,6**	**1,2**	1,6	14,0
N207	low max Wnd ;315° - EG_Gunstig	**6,4**	**6,3**	**44,9**	**8,2**	**-7,7**	**-1,9**	**45,8**
N207	high max Wnd ;45° - EG_Ongunstig	-0,1	0,3	-1,5	0,0	-0,2	**1,7**	1,6
N208	low max Wnd ;225° - EG_Gunstig	**157,1**	**-153,8**	**1,5**	**21,6**	**21,8**	**2,1**	**219,9**
N208	high max Wnd ;45° - EG_Ongunstig	**-50,8**	**47,5**	**-1,4**	**-8,5**	**-8,6**	**-1,9**	69,6
1X2	low max Wnd ;225° - EG_Gunstig	**191,1**	**-186,6**	**-7,9**	**21,7**	**22,0**	**2,1**	**267,2**
1X2	high max Wnd ;45° - EG_Ongunstig	**-64,7**	**60,3**	**2,2**	**-8,7**	**-8,9**	**-1,9**	88,5
N209	low max Wnd ;225° - EG_Gunstig	**-6,9**	**6,8**	**47,6**	**8,8**	**8,3**	**2,0**	**48,6**
N209	high max Wnd ;45° - EG_Ongunstig	**1,0**	**-0,8**	**-13,6**	**-1,6**	**-1,1**	**-1,8**	13,6
N210	low max Wnd ;225° - EG_Gunstig	**154,8**	**-151,5**	**1,2**	**21,6**	**21,8**	**2,1**	**216,6**
N210	high max Wnd ;45° - EG_Ongunstig	**-48,6**	**45,4**	**-1,2**	**-8,5**	**-8,6**	**-1,9**	66,5
N211	low max Wnd ;225° - EG_Gunstig	**159,5**	**-156,2**	**1,5**	**21,7**	**21,7**	**2,1**	**223,2**
N211	high max Wnd ;45° - EG_Ongunstig	**-53,0**	**49,7**	**-1,4**	**-8,6**	**-8,6**	**-1,9**	72,6
N212	low max Wnd ;225° - EG_Gunstig	**-1,5**	**1,5**	**0,9**	**0,3**	**0,3**	**2,1**	**2,2**
N212	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	**0,0**	1,7	0,1
N212	high max Wnd ;45° - EG_Ongunstig	**0,1**	**-0,1**	**-0,4**	0,1	0,1	**-1,9**	0,4

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N213	low max Wnd ;225° - EG_Gunstig	**-1,3**	**1,3**	**0,7**	**0,2**	**0,2**	**2,1**	**2,0**
N213	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	-1,7	0,1
N213	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,2	0,0	**0,0**	1,7	0,2
N213	high max Wnd ;45° - EG_Ongunstig	**0,1**	**-0,1**	**-0,3**	0,1	0,1	**-1,9**	0,3
N214	high max Wnd ;135° - EG_Ongunstig	**49,9**	**46,8**	**-1,2**	**-8,7**	**8,8**	1,7	68,4
N214	low max Wnd ;315° - EG_Gunstig	**-146,3**	**-142,9**	**1,1**	**20,6**	**-20,7**	**-2,0**	**204,5**
N214	high max Wnd ;45° - EG_Ongunstig	6,4	-0,3	-0,8	-1,2	1,4	**1,7**	6,4
N215	high max Wnd ;135° - EG_Ongunstig	**53,7**	**50,6**	**-1,4**	**-8,7**	**8,7**	1,7	73,8
N215	low max Wnd ;315° - EG_Gunstig	**-150,9**	**-147,4**	**1,4**	**20,6**	**-20,7**	**-2,0**	**210,9**
N215	high max Wnd ;45° - EG_Ongunstig	10,2	3,6	-1,2	-1,2	1,4	**1,7**	10,9
N216	high max Wnd ;135° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,4**	0,1	-0,1	1,7	0,4
N216	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	**0,0**	-1,6	0,1
N216	low max Wnd ;315° - EG_Gunstig	**1,3**	**1,3**	**0,9**	**0,2**	**-0,2**	**-2,0**	**2,1**
N216	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,3	0,0	0,0	**1,7**	0,3
N217	high max Wnd ;135° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,3**	0,1	-0,1	1,7	0,3
N217	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,2	0,0	**0,0**	-1,6	0,2
N217	low max Wnd ;315° - EG_Gunstig	**1,2**	**1,2**	**0,7**	**0,2**	**-0,2**	**-2,0**	**1,8**
N217	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,2	**0,0**	0,0	**1,7**	0,2
N218	high max Wnd ;225° - EG_Ongunstig	**-48,7**	**-45,5**	**-1,2**	**8,5**	**-8,6**	**1,8**	66,7
N218	low max Wnd ;135° - EG_Gunstig	**154,4**	**151,2**	**1,2**	**-21,6**	**21,7**	**-1,9**	**216,1**
N219	high max Wnd ;225° - EG_Ongunstig	**-52,9**	**-49,6**	**-1,4**	**8,6**	**-8,6**	**1,8**	72,5
N219	low max Wnd ;135° - EG_Gunstig	**158,7**	**155,5**	**1,5**	**-21,6**	**21,7**	**-1,9**	**222,2**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N220	high max Wnd ;225° - EG_Ongunstig	**0,1**	**0,1**	**-0,4**	-0,1	0,1	**1,8**	0,4
N220	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	**0,0**	-1,6	0,1
N220	low max Wnd ;135° - EG_Gunstig	**-1,4**	**-1,4**	**0,9**	**-0,3**	**0,3**	**-1,9**	**2,2**
N221	high max Wnd ;225° - EG_Ongunstig	**0,1**	**0,1**	**-0,3**	-0,1	0,1	**1,8**	0,3
N221	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	1,7	0,1
N221	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,2	0,0	**0,0**	-1,6	0,2
N221	low max Wnd ;135° - EG_Gunstig	**-1,3**	**-1,3**	**0,7**	**-0,2**	**0,2**	**-1,9**	**2,0**
N222	low max Wnd ;45° - EG_Gunstig	**-146,1**	**142,6**	**1,1**	**-20,5**	**-20,7**	**2,2**	**204,2**
N222	high max Wnd ;315° - EG_Ongunstig	**50,1**	**-47,1**	**-1,2**	**8,7**	**8,8**	**-1,8**	68,8
N223	low max Wnd ;45° - EG_Gunstig	**-151,1**	**147,5**	**1,4**	**-20,6**	**-20,7**	**2,2**	**211,2**
N223	high max Wnd ;315° - EG_Ongunstig	**54,2**	**-51,1**	**-1,4**	**8,8**	**8,8**	**-1,8**	74,5
N224	low max Wnd ;45° - EG_Gunstig	**1,3**	**-1,3**	**0,9**	**-0,2**	**-0,2**	**2,2**	**2,1**
N224	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	**0,0**	1,6	0,1
N224	high max Wnd ;315° - EG_Ongunstig	**-0,1**	**0,1**	**-0,4**	-0,1	-0,1	**-1,8**	0,4
N225	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	**0,0**	0,0	-1,7	0,1
N225	low max Wnd ;45° - EG_Gunstig	**1,2**	**-1,2**	**0,7**	**-0,2**	**-0,2**	**2,2**	**1,8**
N225	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,2	0,0	**0,0**	1,6	0,2
N225	high max Wnd ;315° - EG_Ongunstig	**-0,1**	**0,1**	**-0,3**	-0,1	-0,1	**-1,8**	0,3

1. Table of contents

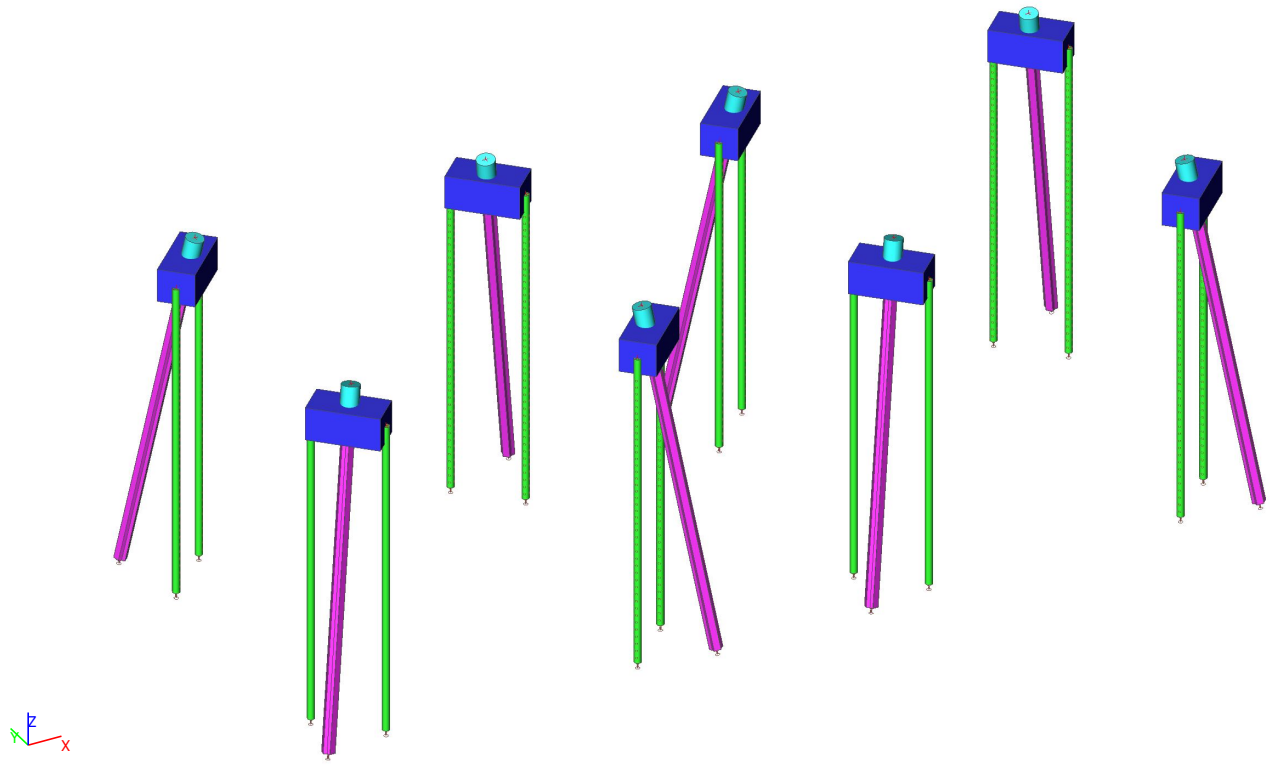
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2. Project

Licence user	[redacted]
Project	De Ronde Venen 380kV
Part	Cilinder 75 + palen S+6
Author	[redacted]
Date	11-05-2026
Structure	General XYZ
No. of nodes :	56
No. of beams :	40
No. of slabs :	0
No. of solids :	0
No. of used profiles :	4
No. of load cases :	9
No. of used materials :	8
Acceleration of gravity [m/s^2]	9,807
National code	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materials

Steel EC3

Name	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Colour
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	

Name	Type	ρ [kg/m³]	Density in fresh state [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Colour
C12/15 Gescheurd	Concrete	2500,00	2600,00	9,0000e+03	0,23	0,01e-003	12,00	
C30/37 Gescheurd	Concrete	2500,00	2600,00	1,1000e+04	0,20	0,01e-003	30,00	
C30/37	Concrete	1500,00	2600,00	1,0900e+04	0,20	0,01e-003	30,00	
C12/15 Gescheurd	Concrete	1500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	

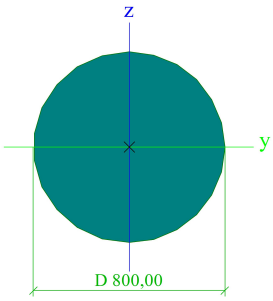
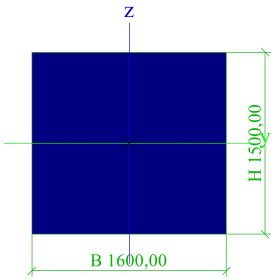
Explanations of symbols	
Density in fresh state	The value in the density in fresh state property is used only in case a composite deck is input and its self-weight load is taken into account.

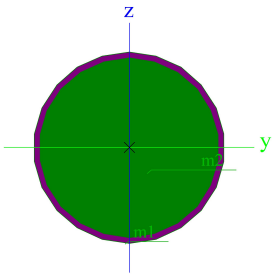
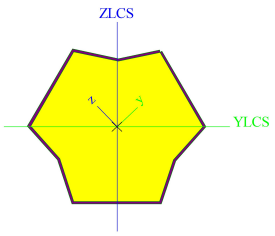
Reinforcement EC2

Name	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 400A	Reinforcement steel	7850,00	2,0000e+05	8,3333e+04	0,01e-003	400,0

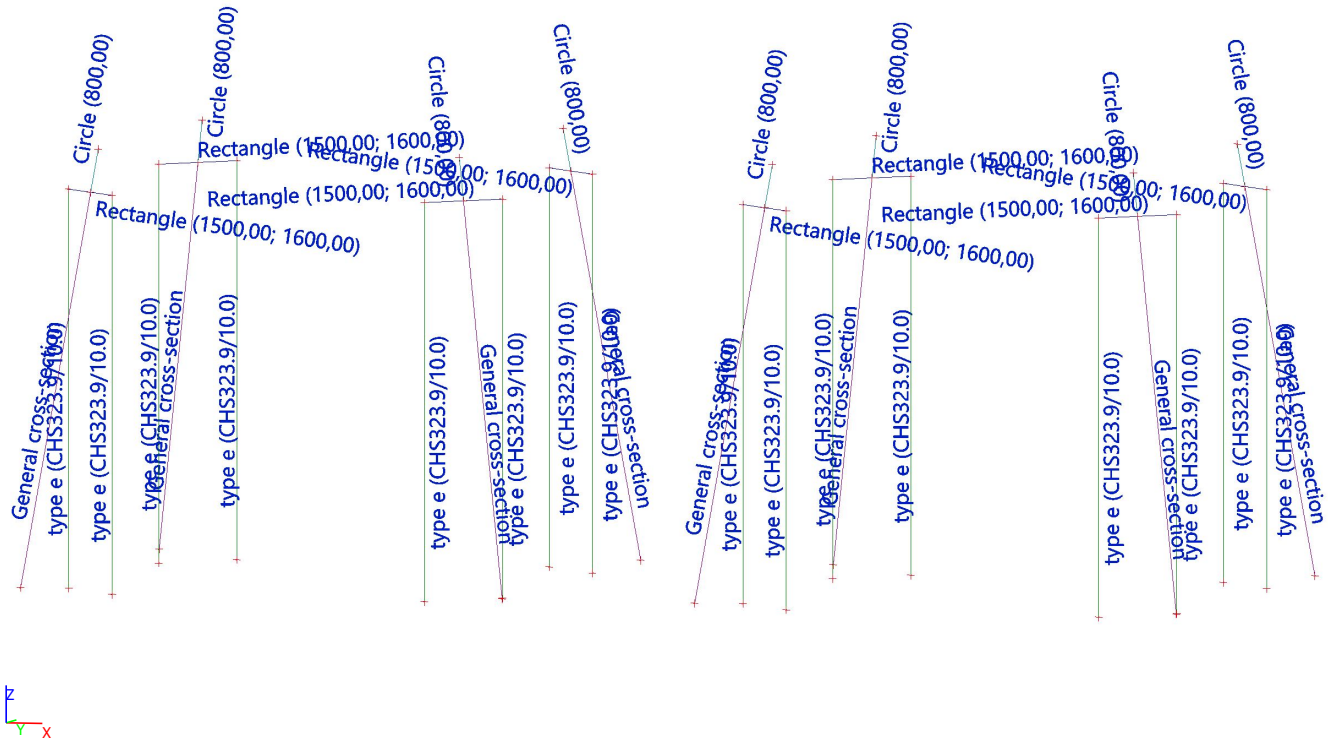
4.2. Cross-sections

Poer800		
Type	Circle	
Detailed	800,00	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
Fabrication	general	
Colour		
A [mm²]	5,0265e+05	
A_y [mm²], A_z [mm²]	4,5239e+05	4,5239e+05
A_L [m²/m], A_D [m²/m]	2,5131e+00	2,5131e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	400,00	400,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	2,0106e+10	2,0106e+10
i_y [mm], i_z [mm]	199,98	199,98
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,0265e+07	5,0265e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	8,5333e+07	8,5333e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	4,0212e+10	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00

Picture		
lijnpoer		
Type	Rectangle	
Detailed	1500,00; 1600,00	
Shape type	Thick-walled	
Item material	C30/37 Gescheurd	
Fabrication	concrete	
Colour		
A [mm²]	2,4000e+06	
A_y [mm²], A_z [mm²]	2,0007e+06	2,0008e+06
A_L [m²/m], A_D [m²/m]	6,2000e+00	6,2000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	800,00	750,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	4,5000e+11	5,1200e+11
i_y [mm], i_z [mm]	433,01	461,88
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	6,0000e+08	6,4000e+08
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	8,0849e+11	2,2447e+15
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LEKA Paal		
Type	type e	
Detailed	CHS323.9/10.0	
Shape type	Thick-walled	
Item material	S 235	
	C30/37	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	a	a
A [mm²]	1,3624e+04	
A_y [mm²], A_z [mm²]	9,1187e+03	9,1187e+03
A_L [m²/m], A_D [m²/m]	1,0175e+00	1,0175e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	161,95	161,95
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	1,4326e+08	1,4326e+08
i_y [mm], i_z [mm]	102,54	102,54
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	8,8458e+05	8,8458e+05
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	1,1479e+06	1,1479e+06
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	269749430,18	269749430,18

$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	269749430,18	269749430,18
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	2,9003e+08	2,9935e+04
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LD1(31-plank)		
Type	General cross-section	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
	S 235	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	d	d
A [mm²]	6,0572e+05	
A_y [mm²], A_z [mm²]	3,6248e+05	3,6314e+05
A_L [m²/m], A_D [m²/m]	1,7651e+00	3,4664e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	553,25	9,99
$I_{Y.LCS}$ [mm⁴], $I_{Z.LCS}$ [mm⁴]	1,6274e+10	1,6264e+10
$I_{YZ.LCS}$ [mm⁴]	-1,0231e+08	
α [deg]	43,55	
I_y [mm⁴], I_z [mm⁴]	1,6372e+10	1,6167e+10
i_y [mm], i_z [mm]	164,40	163,37
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,7898e+07	5,8163e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	4,9594e+07	4,9245e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	601215312,58	595125922,92
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	597037111,16	590937542,96
d_y [mm], d_z [mm]	0,12	0,03
I_t [mm⁴], I_w [mm⁶]	2,6243e+10	1,7700e+12
β_y [mm], β_z [mm]	0,09	0,21
Picture		

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Mesh setup

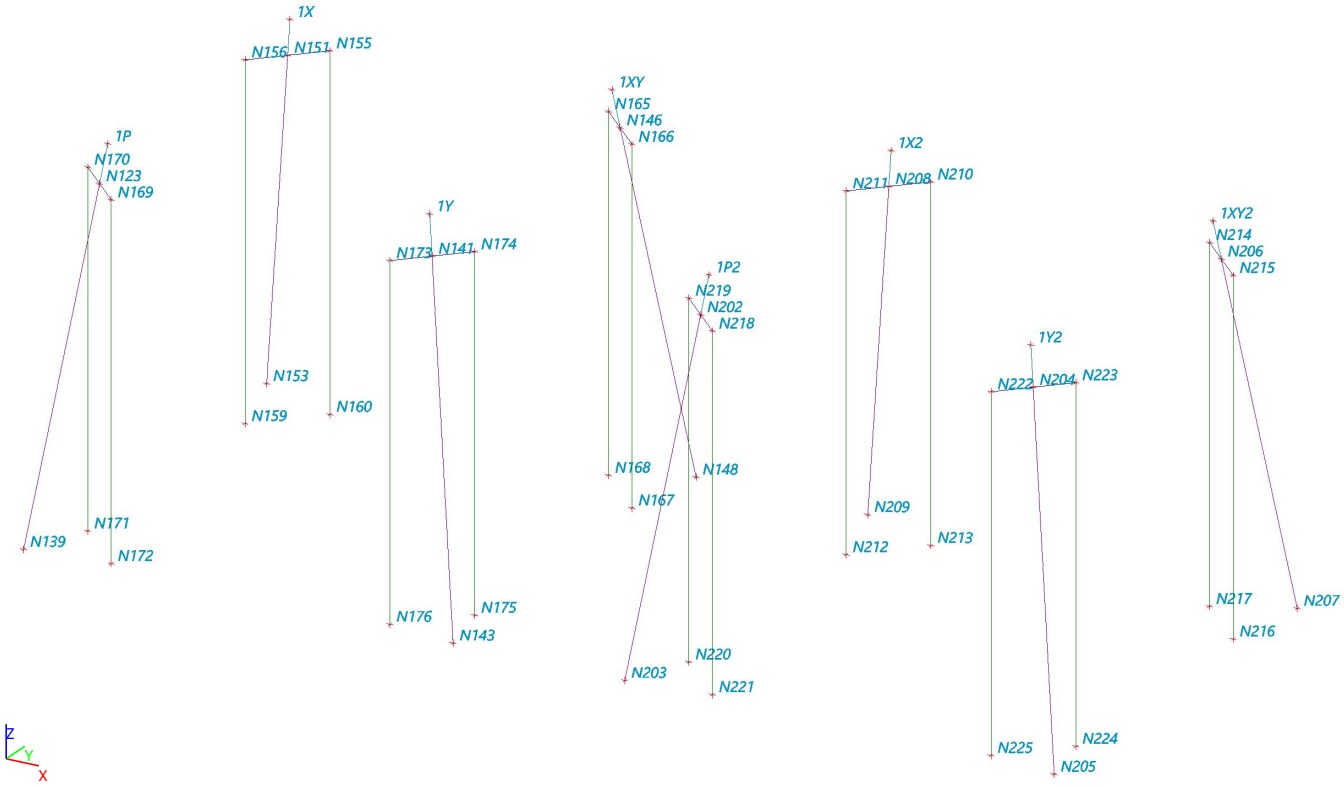
Name	MeshSetup1
Generation of variable eccentricities on members instead of constant ones	×
Generation of nodes in connections of beam elements	×
Elastic mesh	✓
Use automatic mesh refinement	×
Connect members/nodes	✓
Division on haunches and arbitrary members	5
Division for integration strip and 2D-1D upgrade	50
Average number of 1D mesh elements on straight 1D members	1
Average size of 2D mesh element [m]	0,200
Average size of 1D mesh element on curved 1D members [m]	0,100
Minimal length of beam element [m]	0,100
Maximal length of beam element [m]	1000,000
Average size of tendons, elements on subsoil, nonlinear soil spring [m]	1,000
Maximal out of plane angle of a quadrilateral [mrad]	30,0
Minimal distance between definition point and line [m]	0,001
Average size of panel element [m]	1,000
Mesh refinement following the beam type	None
Definition of mesh element size for panels	Manual

5. Geometrie

5.1. Nodes

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N123	-0,427	-0,433	-0,250
1P	-0,209	-0,212	1,279
N139	-2,444	-2,452	-14,263
N141	13,399	-0,433	-0,250
1Y	13,181	-0,212	1,279
N143	15,416	-2,452	-14,263
N146	13,399	13,405	-0,250
1XY	13,181	13,184	1,279
N148	15,416	15,424	-14,263
N151	-0,427	13,405	-0,250
1X	-0,209	13,184	1,279
N153	-2,444	15,424	-14,263
N155	0,693	14,525	-0,250
N156	-1,560	12,272	-0,250
N159	-1,560	12,272	-14,500
N160	0,693	14,525	-14,500
N165	12,279	14,525	-0,250
N166	14,532	12,272	-0,250
N167	14,532	12,272	-14,500
N168	12,279	14,525	-14,500
N169	0,693	-1,553	-0,250
N170	-1,560	0,700	-0,250
N171	-1,560	0,700	-14,500
N172	0,693	-1,553	-14,500
N173	12,279	-1,553	-0,250
N174	14,532	0,700	-0,250
N175	14,532	0,700	-14,500
N176	12,279	-1,553	-14,500
N202	24,573	-0,433	-0,250
1P2	24,791	-0,212	1,279
N203	22,556	-2,452	-14,263
N204	38,399	-0,433	-0,250
1Y2	38,181	-0,212	1,279
N205	40,416	-2,452	-14,263
N206	38,399	13,405	-0,250
1XY2	38,181	13,184	1,279
N207	40,416	15,424	-14,263
N208	24,573	13,405	-0,250
1X2	24,791	13,184	1,279
N209	22,556	15,424	-14,263
N210	25,693	14,525	-0,250
N211	23,440	12,272	-0,250
N212	23,440	12,272	-14,500
N213	25,693	14,525	-14,500
N214	37,279	14,525	-0,250
N215	39,532	12,272	-0,250
N216	39,532	12,272	-14,500
N217	37,279	14,525	-14,500
N218	25,693	-1,553	-0,250
N219	23,440	0,700	-0,250
N220	23,440	0,700	-14,500
N221	25,693	-1,553	-14,500
N222	37,279	-1,553	-0,250
N223	39,532	0,700	-0,250
N224	39,532	0,700	-14,500
N225	37,279	-1,553	-14,500

5.2. Analyse model met knopen

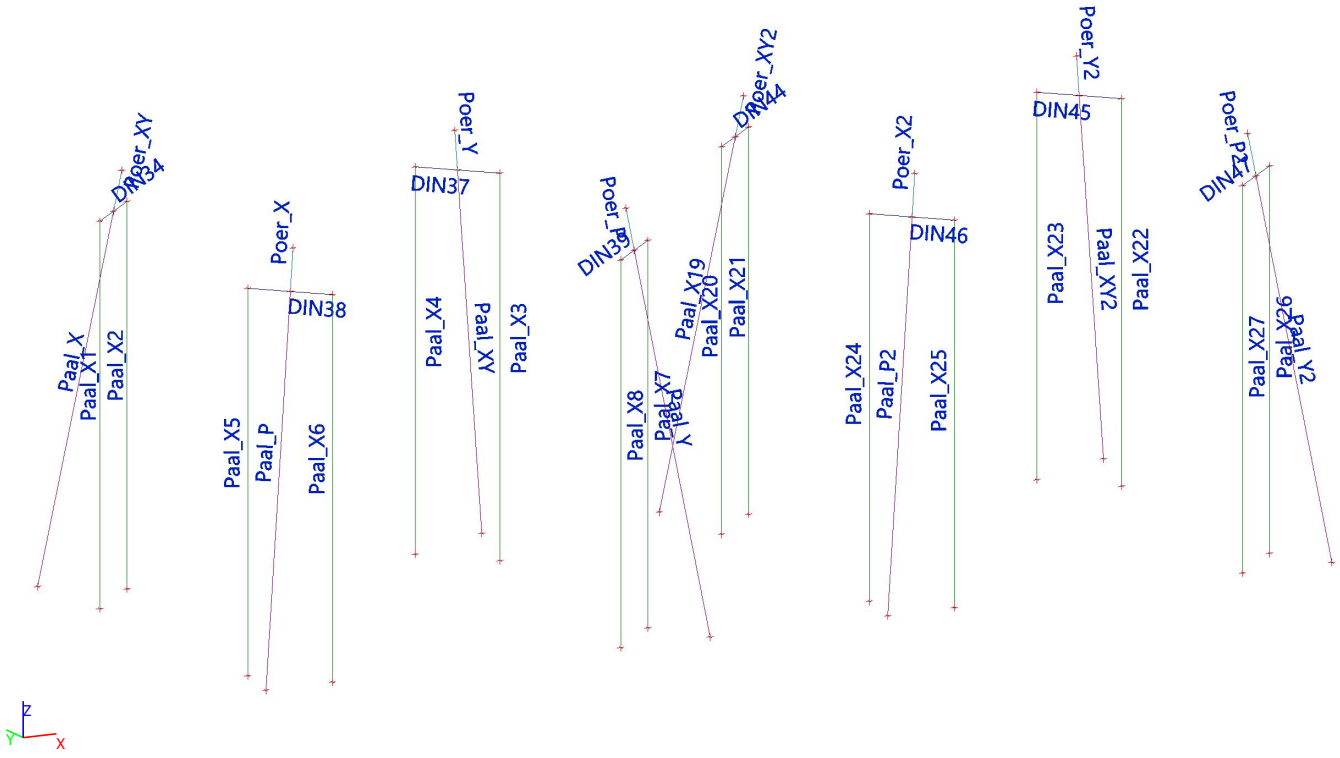


5.3. Members

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
DIN34	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N156	N155	beam (80)
DIN37	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N166	N165	beam (80)
DIN38	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N170	N169	beam (80)
DIN39	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N174	N173	beam (80)
DIN44	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N211	N210	beam (80)
DIN45	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N215	N214	beam (80)
DIN46	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N219	N218	beam (80)
DIN47	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N223	N222	beam (80)
Paal_P	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N123	N139	column (100)
Paal_P2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N202	N203	column (100)
Paal_X	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N151	N153	column (100)
Paal_X1	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N156	N159	column (100)
Paal_X2	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N155	N160	column (100)
Paal_X3	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N166	N167	column (100)
Paal_X4	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N165	N168	column (100)
Paal_X5	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N170	N171	column (100)
Paal_X6	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N169	N172	column (100)
Paal_X7	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N174	N175	column (100)
Paal_X8	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N173	N176	column (100)
Paal_X19	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N208	N209	column (100)
Paal_X20	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N211	N212	column (100)
Paal_X21	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N210	N213	column (100)
Paal_X22	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N215	N216	column (100)
Paal_X23	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N214	N217	column (100)
Paal_X24	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N219	N220	column (100)
Paal_X25	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N218	N221	column (100)
Paal_X26	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N223	N224	column (100)
Paal_X27	LEKA Paal - type e (CHS323.9/10.0)	S 235	14,250	N222	N225	column (100)
Paal_XY	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N146	N148	column (100)

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
Paal_XY2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N206	N207	column (100)
Paal_Y	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N141	N143	column (100)
Paal_Y2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	14,300	N204	N205	column (100)
Poer_P	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N141	1Y	column (100)
Poer_P2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N204	1Y2	column (100)
Poer_X	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N123	1P	column (100)
Poer_X2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N202	1P2	column (100)
Poer_XY	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N151	1X	column (100)
Poer_XY2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N208	1X2	column (100)
Poer_Y	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N146	1XY	column (100)
Poer_Y2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N206	1XY2	column (100)

5.4. Analyse model met Staven

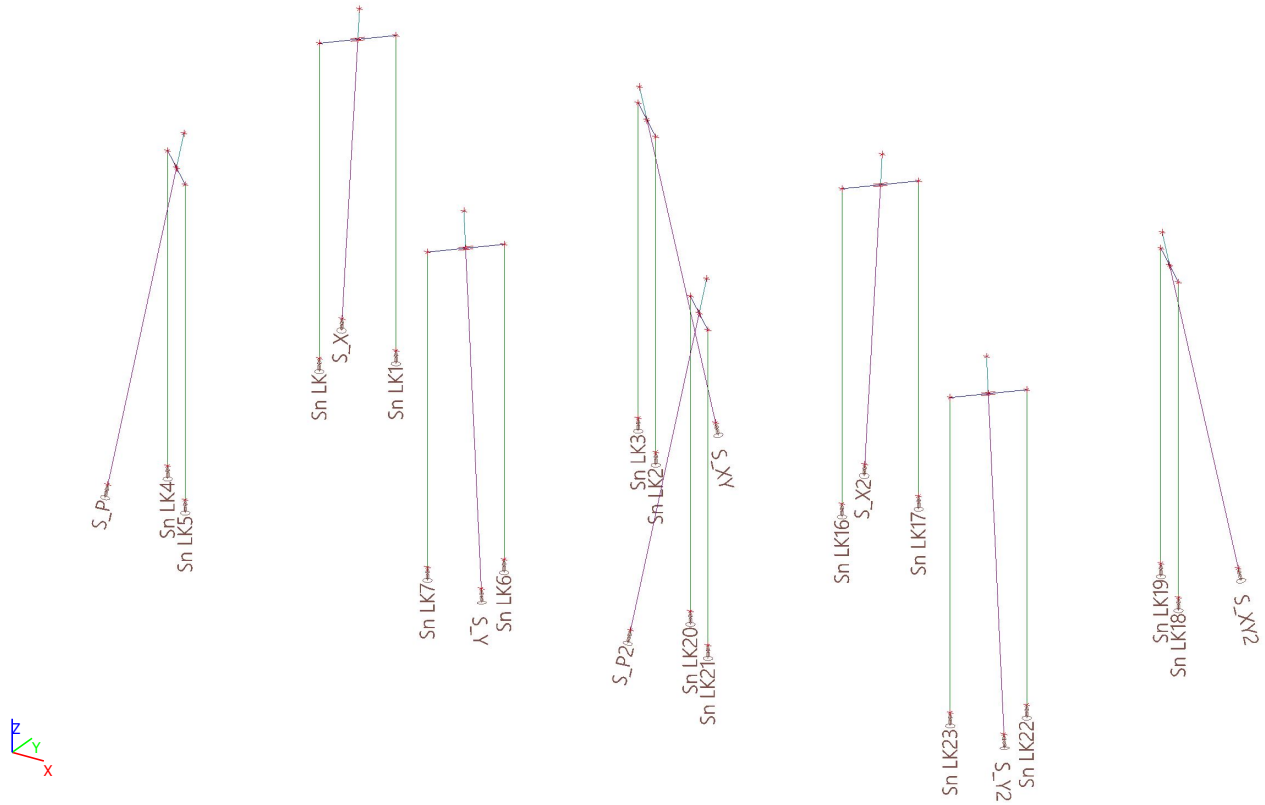


5.5. Nodal supports

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
S_P	N139	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y	N143	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY	N148	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X	N153	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11
Sn [redacted]	N159	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK1	N160	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK2	N167	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK3	N168	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK4	N171	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK5	N172	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK6	N175	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK7	N176	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
S_P2	N203	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y2	N205	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY2	N207	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X2	N209	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
Sn LK16	N212	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK17	N213	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK18	N216	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK19	N217	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK20	N220	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK21	N221	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK22	N224	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK23	N225	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	

5.6. Analyse model met Knoopondersteuningen



5.7. Line supports on member

Name	Type	Member	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
Veen10	Line	Paal_X6	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen23	Line	Paal_Y2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen3	Line	Paal_XY2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Line	Paal_X27	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen2	Line	Paal_XY	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Line	Paal_X	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen1	Line	Paal_P2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen6	Line	Paal_X2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Line	Paal_X8	1,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			8,000								
Veen13	Line	Paal_X19	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Line	Paal_X1	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen14	Line	Paal_X20	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen7	Line	Paal_X3	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Line	Paal_X25	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Line	Paal_X7	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Line	Paal_X22	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen17	Line	Paal_X23	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen18	Line	Paal_X24	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Line	Paal_X5	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen22	Line	Paal_Y	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Line	Paal_X4	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen	Line	Paal_P	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Line	Paal_X21	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen20	Line	Paal_X26	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
(PY-curve-2_V1)6	Line	Paal_X2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)4	Line	Paal_X	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)17	Line	Paal_X23	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)9	Line	Paal_X5	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)14	Line	Paal_X20	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)15	Line	Paal_X21	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)22	Line	Paal_Y	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)21	Line	Paal_X27	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)8	Line	Paal_X4	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)20	Line	Paal_X26	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)13	Line	Paal_X19	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)7	Line	Paal_X3	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)	Line	Paal_P	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)23	Line	Paal_Y2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)11	Line	Paal_X7	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)18	Line	Paal_X24	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)3	Line	Paal_XY2	8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			9,000								
(PY-curve-2_V1)1	Line	Paal_P2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)2	Line	Paal_XY	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)12	Line	Paal_X8	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)19	Line	Paal_X25	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)16	Line	Paal_X22	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)5	Line	Paal_X1	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)10	Line	Paal_X6	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V2)11	Line	Paal_X7	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)21	Line	Paal_X27	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)18	Line	Paal_X24	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)16	Line	Paal_X22	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)22	Line	Paal_Y	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)5	Line	Paal_X1	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)15	Line	Paal_X21	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)9	Line	Paal_X5	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)14	Line	Paal_X20	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)13	Line	Paal_X19	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)8	Line	Paal_X4	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)3	Line	Paal_XY2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)12	Line	Paal_X8	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)	Line	Paal_P	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)4	Line	Paal_X	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)23	Line	Paal_Y2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)7	Line	Paal_X3	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)1	Line	Paal_P2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)17	Line	Paal_X23	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)10	Line	Paal_X6	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)2	Line	Paal_XY	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)20	Line	Paal_X26	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)6	Line	Paal_X2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)19	Line	Paal_X25	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V3)18	Line	Paal_X24	10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3

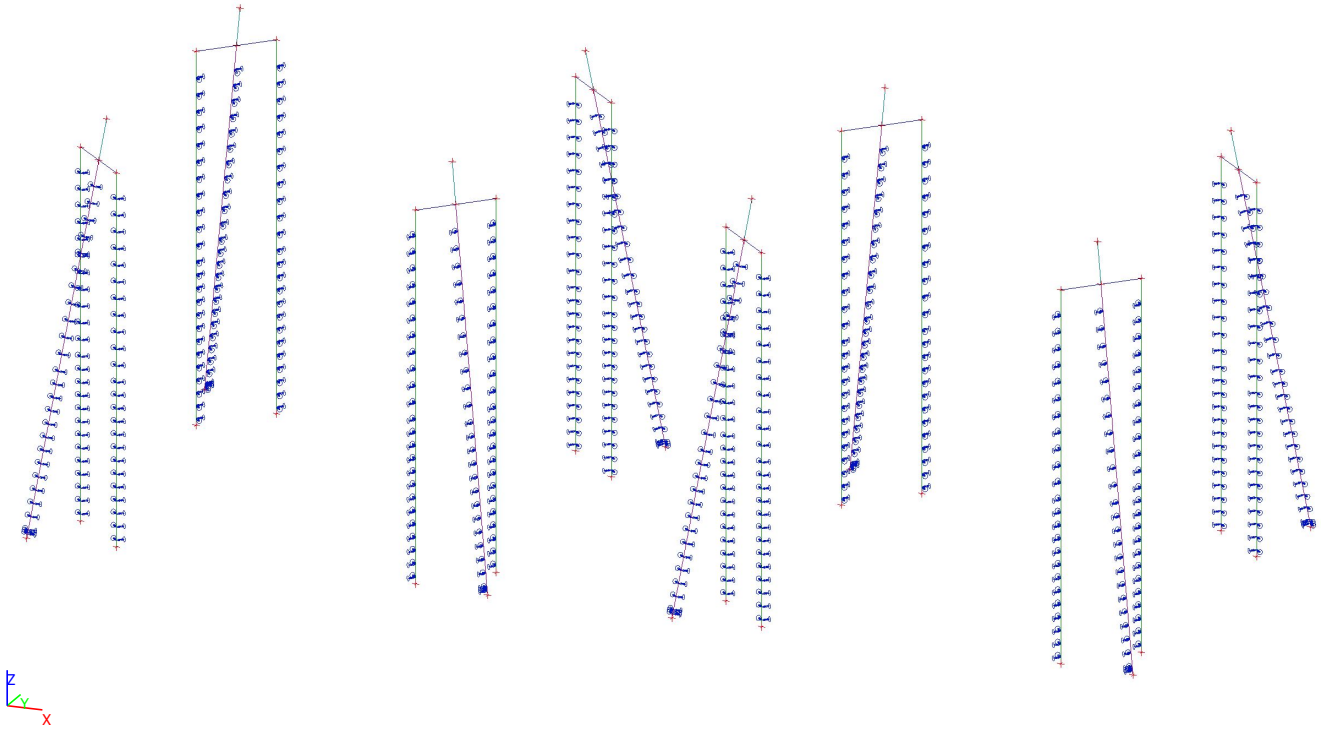
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			11,000								
(PY-curve-2_V3)10	Line	Paal_X6	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)5	Line	Paal_X1	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)22	Line	Paal_Y	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)16	Line	Paal_X22	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)15	Line	Paal_X21	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)9	Line	Paal_X5	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)14	Line	Paal_X20	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)13	Line	Paal_X19	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)8	Line	Paal_X4	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)4	Line	Paal_X	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)3	Line	Paal_XY2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)	Line	Paal_P	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)7	Line	Paal_X3	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)21	Line	Paal_X27	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)1	Line	Paal_P2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)2	Line	Paal_XY	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)17	Line	Paal_X23	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)12	Line	Paal_X8	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)6	Line	Paal_X2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)20	Line	Paal_X26	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)23	Line	Paal_Y2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)19	Line	Paal_X25	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)11	Line	Paal_X7	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V4)18	Line	Paal_X24	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)5	Line	Paal_X1	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)10	Line	Paal_X6	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)17	Line	Paal_X23	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)16	Line	Paal_X22	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)9	Line	Paal_X5	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)15	Line	Paal_X21	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)14	Line	Paal_X20	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)4	Line	Paal_X	11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			12,000								
(PY-curve-2_V4)8	Line	Paal_X4	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)13	Line	Paal_X19	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)6	Line	Paal_X2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)7	Line	Paal_X3	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)12	Line	Paal_X8	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)21	Line	Paal_X27	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)20	Line	Paal_X26	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)11	Line	Paal_X7	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)19	Line	Paal_X25	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)22	Line	Paal_Y	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)	Line	Paal_P	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)3	Line	Paal_XY2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)1	Line	Paal_P2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)2	Line	Paal_XY	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)23	Line	Paal_Y2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V5)	Line	Paal_P	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)23	Line	Paal_Y2	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)1	Line	Paal_P2	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)22	Line	Paal_Y	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)18	Line	Paal_X24	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)5	Line	Paal_X1	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)10	Line	Paal_X6	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)17	Line	Paal_X23	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)16	Line	Paal_X22	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)9	Line	Paal_X5	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)15	Line	Paal_X21	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)14	Line	Paal_X20	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)4	Line	Paal_X	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)8	Line	Paal_X4	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)13	Line	Paal_X19	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)3	Line	Paal_XY2	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)7	Line	Paal_X3	12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5

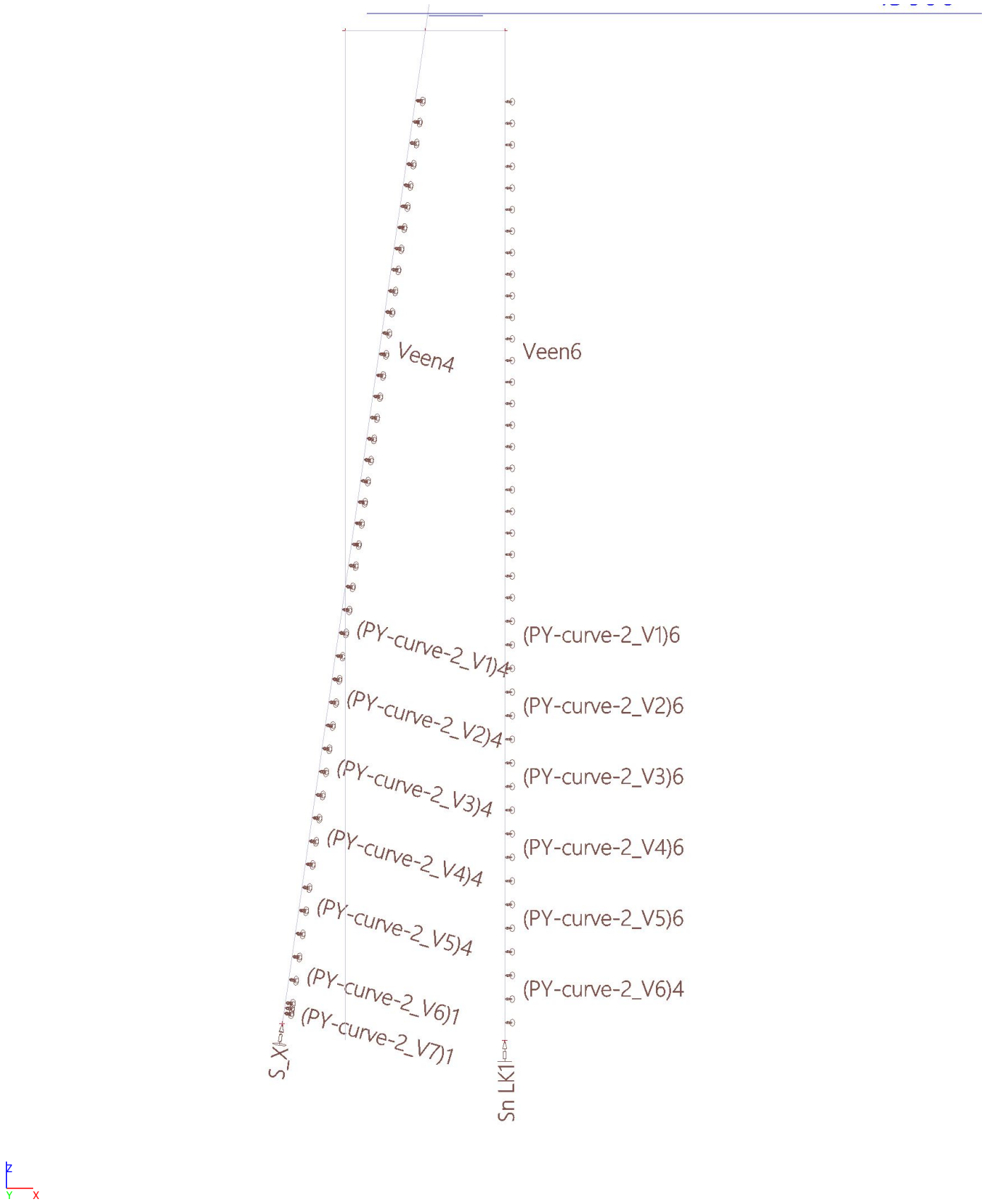
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			13,000								
(PY-curve-2_V5)2	Line	Paal_XY	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)12	Line	Paal_X8	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)6	Line	Paal_X2	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)21	Line	Paal_X27	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)20	Line	Paal_X26	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)11	Line	Paal_X7	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)19	Line	Paal_X25	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V6)23	Line	Paal_XY2	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)21	Line	Paal_X26	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)20	Line	Paal_X22	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)19	Line	Paal_X27	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)18	Line	Paal_X23	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)17	Line	Paal_X25	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)16	Line	Paal_X21	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)15	Line	Paal_X24	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)14	Line	Paal_X20	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)13	Line	Paal_X19	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)12	Line	Paal_P2	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)11	Line	Paal_XY	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)10	Line	Paal_Y	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)9	Line	Paal_X7	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)8	Line	Paal_X3	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)7	Line	Paal_X8	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)22	Line	Paal_Y2	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)6	Line	Paal_X4	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)5	Line	Paal_X6	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)4	Line	Paal_X2	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)3	Line	Paal_X5	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)2	Line	Paal_X1	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)1	Line	Paal_X	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)	Line	Paal_P	13,000 14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V7)19	Line	Paal_XY2	14,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			14,150								
(PY-curve-2_V7)18	Line	Paal_Y2	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)13	Line	Paal_X19	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)12	Line	Paal_P2	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)7	Line	Paal_XY	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)6	Line	Paal_Y	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)1	Line	Paal_X	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7
(PY-curve-2_V7)	Line	Paal_P	14,000 14,150	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V7	PY-curve-2_V7

5.8. Analyse model met Lijnondersteuningen



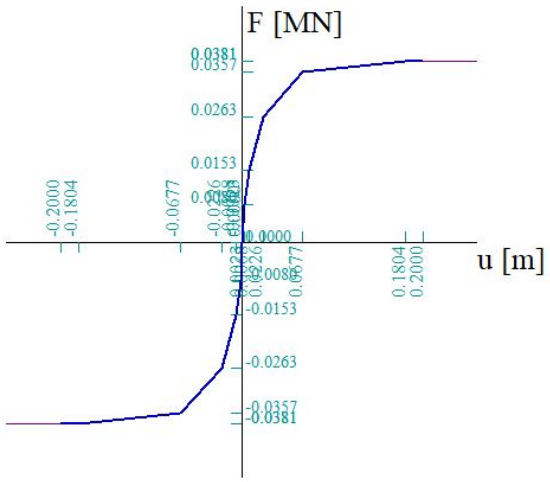
5.9. Analyse model met Lijnondersteuningen



5.10. Nonlinear functions

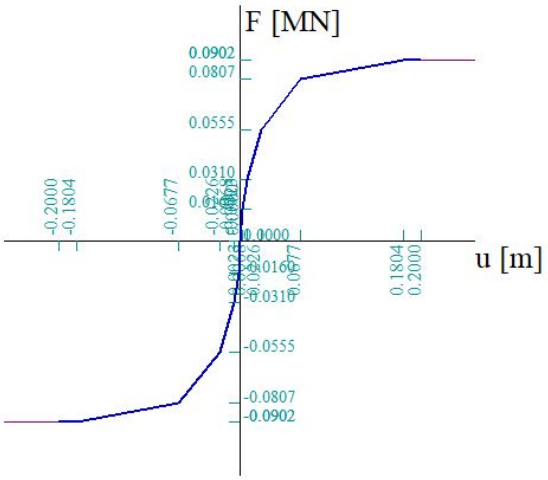
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V1	Translation	-0.200000 / -38100.000000	Free	Free
		-0.180400 / -38100.000000		
		-0.067650 / -35700.000000		
		-0.022550 / -26300.000000		
		-0.006765 / -15300.000000		
		-0.002255 / -8000.000000		
		0.000000 / 0.000000		
		0.002255 / 8000.000000		
		0.006765 / 15300.000000		
		0.022550 / 26300.000000		
		0.067650 / 35700.000000		
		0.180400 / 38100.000000		
		0.200000 / 38100.000000		

Drawing



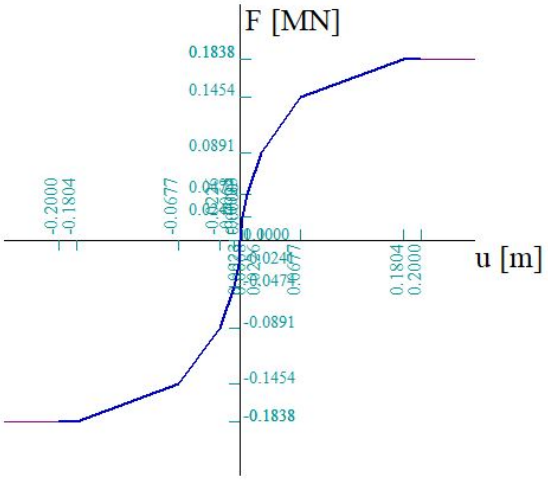
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V2	Translation	-0.200000 / -90200.000000	Free	Free
		-0.180400 / -90200.000000		
		-0.067650 / -80700.000000		
		-0.022550 / -55500.000000		
		-0.006765 / -31000.000000		
		-0.002255 / -16000.000000		
		0.000000 / 0.000000		
		0.002255 / 16000.000000		
		0.006765 / 31000.000000		
		0.022550 / 55500.000000		
		0.067650 / 80700.000000		
		0.180400 / 90200.000000		
		0.200000 / 90200.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V3	Translation	-0.200000 / -183800.000000	Free	Free
		-0.180400 / -183800.000000		
		-0.067650 / -145400.000000		
		-0.022550 / -89100.000000		
		-0.006765 / -47400.000000		
		-0.002255 / -24100.000000		
		0.000000 / 0.000000		
		0.002255 / 24100.000000		
		0.006765 / 47400.000000		
		0.022550 / 89100.000000		
		0.067650 / 145400.000000		
		0.180400 / 183800.000000		
		0.200000 / 183800.000000		

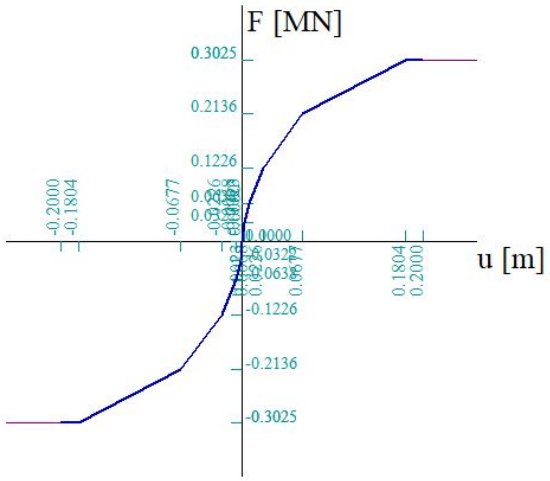
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V4	Translation	-0.200000 / -302500.000000	Free	Free
		-0.180400 / -302500.000000		
		-0.067650 / -213600.000000		
		-0.022550 / -122600.000000		
		-0.006765 / -63800.000000		
		-0.002255 / -32200.000000		
		0.000000 / 0.000000		
		0.002255 / 32200.000000		
		0.006765 / 63800.000000		
		0.022550 / 122600.000000		

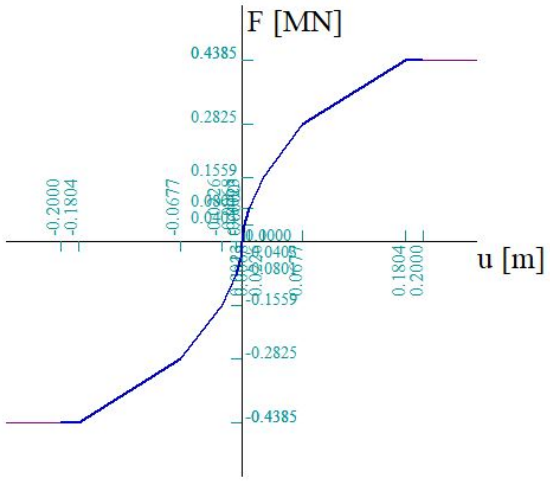
Name	Type	u / F	Positive end	Negative end
		0.067650 / 213600.000000		
		0.180400 / 302500.000000		
		0.200000 / 302500.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V5	Translation	-0.200000 / -438500.000000	Free	Free
		-0.180400 / -438500.000000		
		-0.067650 / -282500.000000		
		-0.022550 / -155900.000000		
		-0.006765 / -80100.000000		
		-0.002255 / -40300.000000		
		0.000000 / 0.000000		
		0.002255 / 40300.000000		
		0.006765 / 80100.000000		
		0.022550 / 155900.000000		
		0.067650 / 282500.000000		
		0.180400 / 438500.000000		
		0.200000 / 438500.000000		

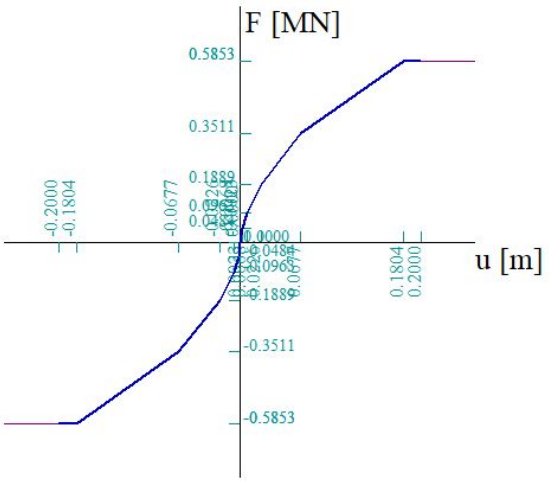
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V6	Translation	-0.200000 / -585300.000000	Free	Free
		-0.180400 / -585300.000000		
		-0.067650 / -351100.000000		
		-0.022550 / -188900.000000		

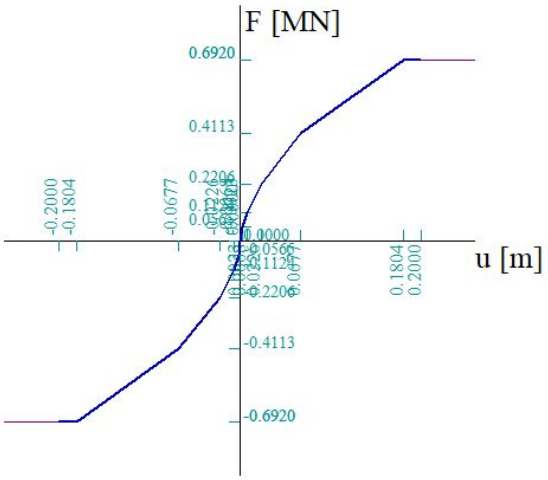
Name	Type	u / F	Positive end	Negative end
		-0.006765 / -96300.000000		
		-0.002255 / -48400.000000		
		0.000000 / 0.000000		
		0.002255 / 48400.000000		
		0.006765 / 96300.000000		
		0.022550 / 188900.000000		
		0.067650 / 351100.000000		
		0.180400 / 585300.000000		
		0.200000 / 585300.000000		

Drawing



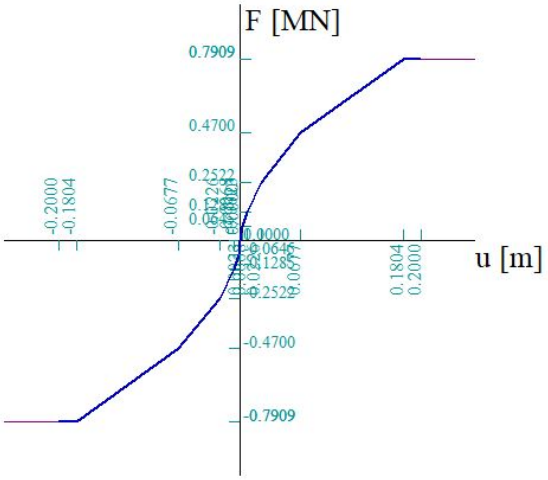
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V7	Translation	-0.200000 / -692000.000000	Free	Free
		-0.180400 / -692000.000000		
		-0.067650 / -411300.000000		
		-0.022550 / -220600.000000		
		-0.006765 / -112400.000000		
		-0.002255 / -56500.000000		
		0.000000 / 0.000000		
		0.002255 / 56500.000000		
		0.006765 / 112400.000000		
		0.022550 / 220600.000000		
		0.067650 / 411300.000000		
		0.180400 / 692000.000000		
		0.200000 / 692000.000000		

Drawing



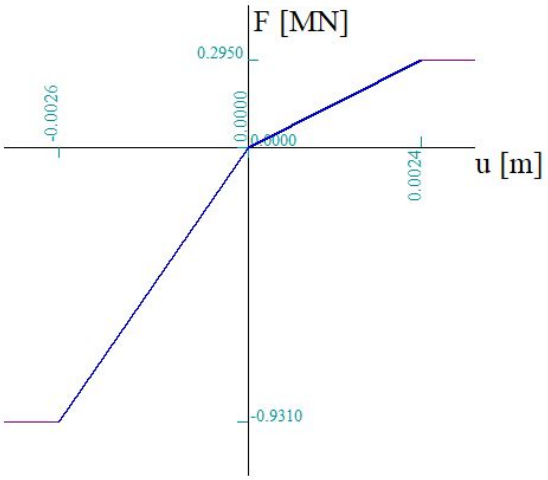
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V8	Translation	-0.200000 / -790900.000000	Free	Free
		-0.180400 / -790900.000000		
		-0.067650 / -470000.000000		
		-0.022550 / -252200.000000		
		-0.006765 / -128500.000000		
		-0.002255 / -64500.000000		
		0.000000 / 0.000000		
		0.002255 / 64500.000000		
		0.006765 / 128500.000000		
		0.022550 / 252200.000000		
		0.067650 / 470000.000000		
		0.180400 / 790900.000000		
		0.200000 / 790900.000000		

Drawing



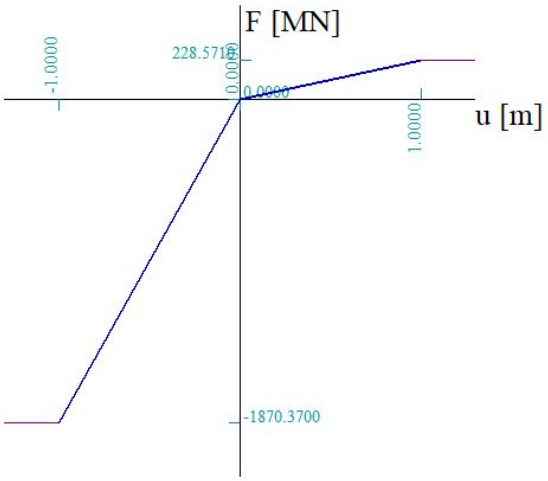
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt_B	Translation	-0.002570 / -931000.000000	Free	Free
		0.000000 / 0.000000		
		0.002350 / 295000.000000		

Drawing



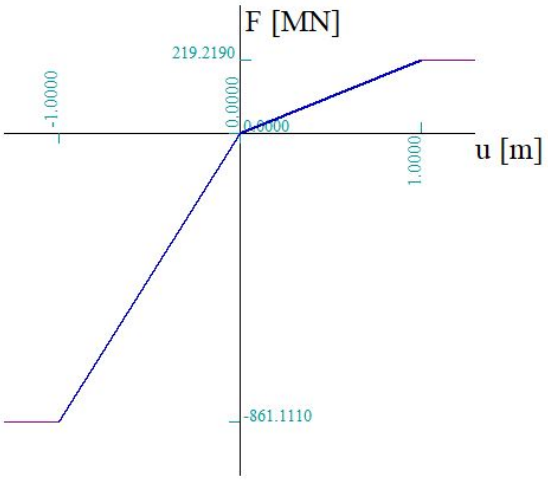
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt.LEKA.BG.	Translation	-1.000000 / -1870370000.000000	Free	Free
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Drawing



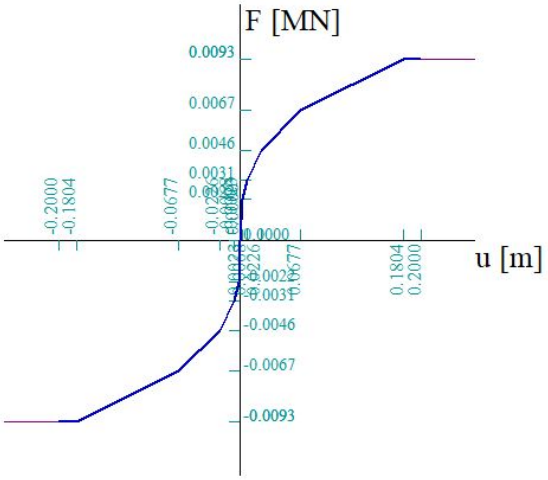
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt-LEKA.OG.	Translation	-1.000000 / -861111000.000000	Free	Free
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Drawing



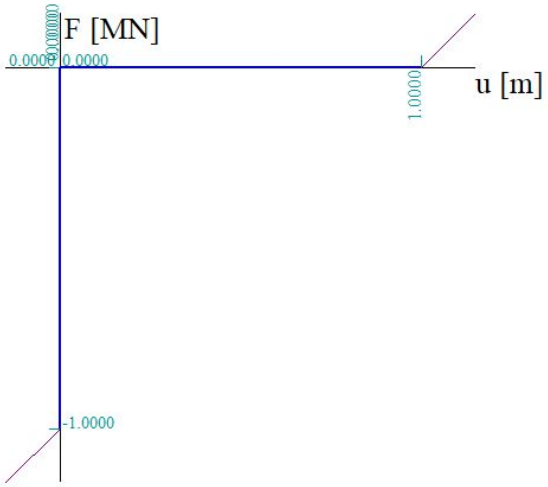
Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen	Translation	-0.200000 / -9265.000000	Free	Free
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		
		0.067650 / 6681.000000		
		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

Drawing



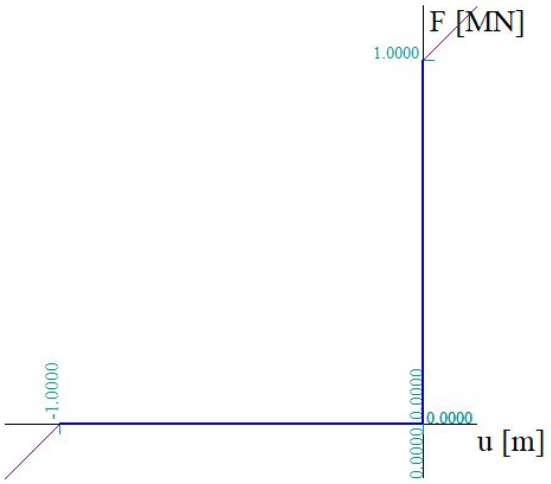
Name	Type	u / F	Positive end	Negative end
press only	Translation	-0.000001 / -1000000.000000	Flexible	Flexible
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Drawing



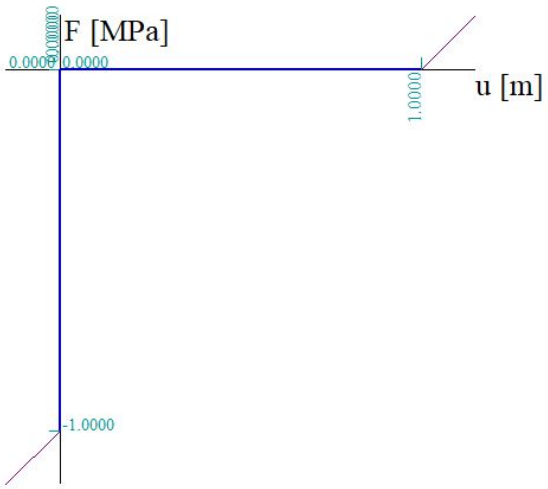
Name	Type	u / F	Positive end	Negative end
tension only	Translation	-1.000000 / 0.000000	Flexible	Flexible
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
soil press only	Nonlinear subsoil		Flexible	Flexible

Drawing

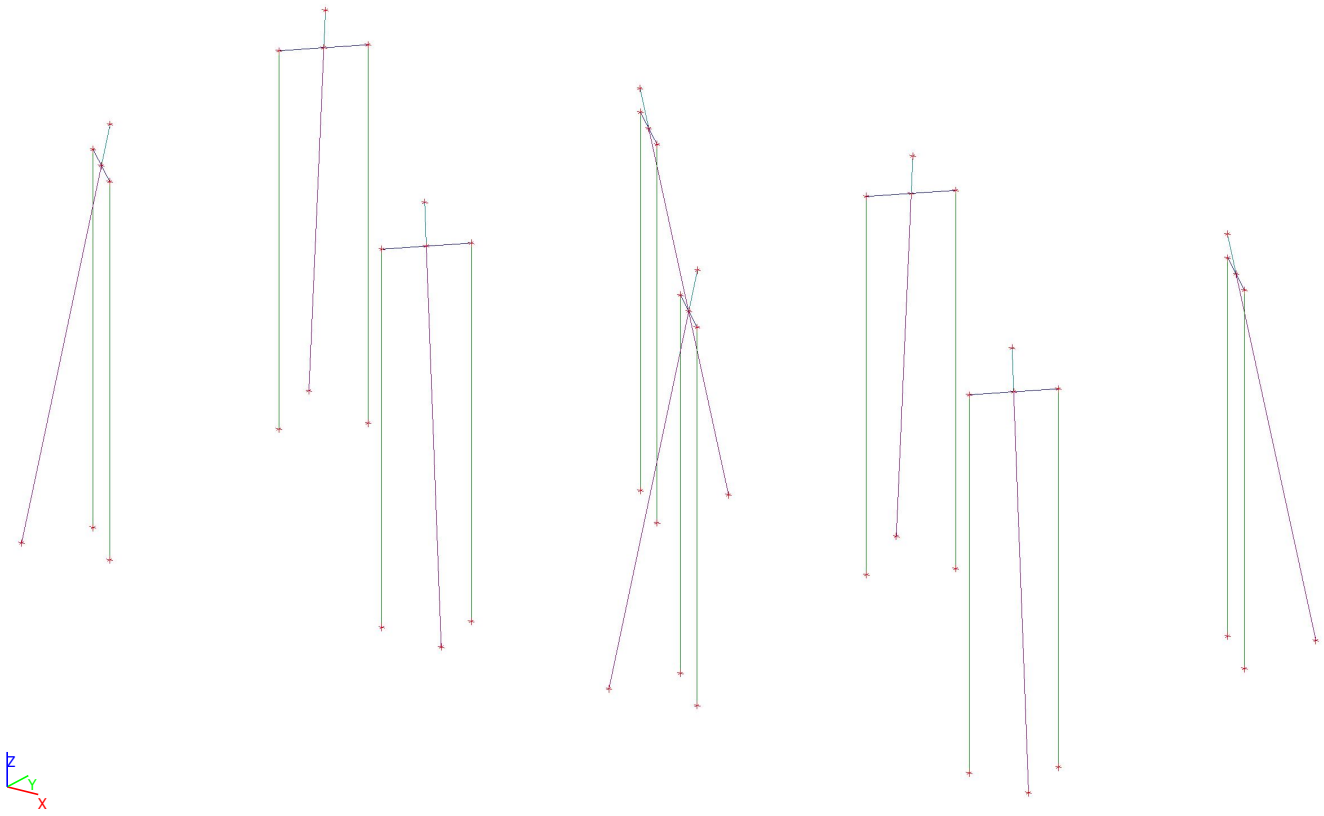

F [MPa]
1.0000
0.0000
0.0000
u [m]
1.0000
-1.0000

6. Belastingen

6.1. Load cases

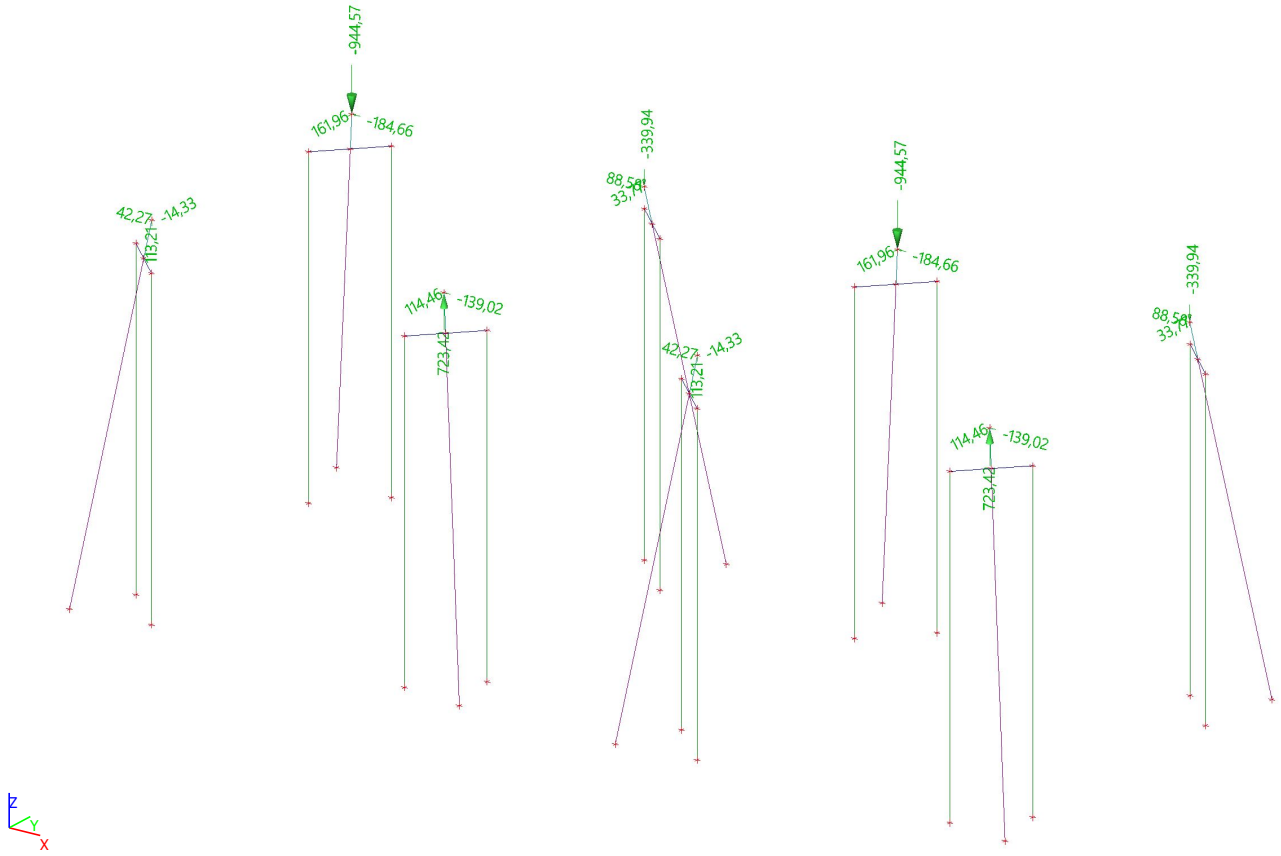
6.1.1. Load cases - EG_Fundering

Name	Description	Action type	Load group	Direction
	Spec	Load type		
EG_Fundering		Permanent	LG1	-Z
		Self weight		



6.1.2. Load cases - high max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



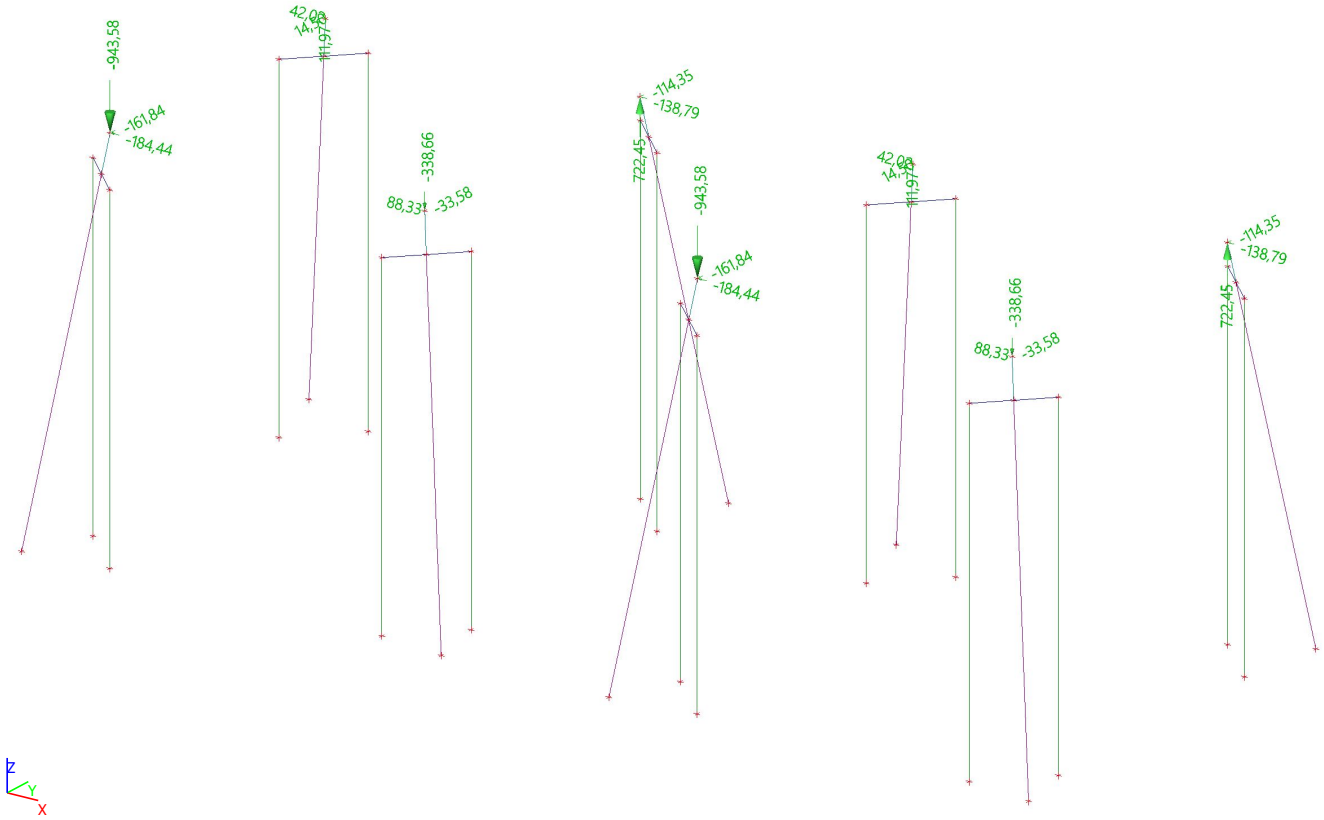
6.1.2.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Force	42,27
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Force	-14,33
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Force	113,21
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Force	-184,66
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Force	161,96
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Force	-944,57
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Force	88,58
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Force	33,77
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Force	-339,94
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Force	-139,02
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Force	114,46
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Force	723,42
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Force	42,27
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Force	-14,33
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Force	113,21

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X2_X	1X2	high max Wnd ;45°	GCS	X	Force	-184,66
high max Wnd ;45°_1X2_Y	1X2	high max Wnd ;45°	GCS	Y	Force	161,96
high max Wnd ;45°_1X2_Z	1X2	high max Wnd ;45°	GCS	Z	Force	-944,57
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Force	88,58
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Force	33,77
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Force	-339,94
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Force	-139,02
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Force	114,46
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Force	723,42

6.1.3. Load cases - high max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;315°		Variable	LG4	Short	None
	Standard	Static			

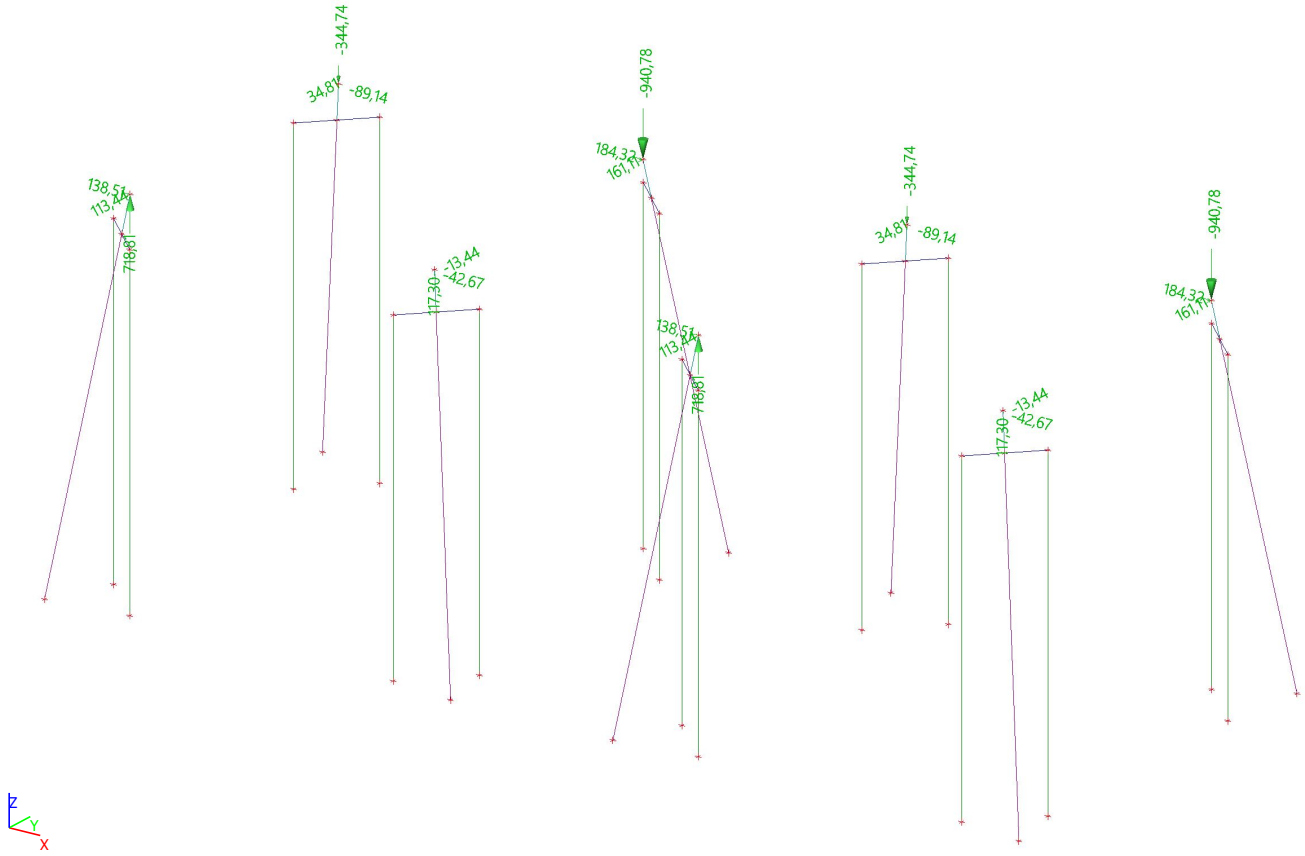


6.1.3.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Force	-184,44
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Force	-161,84
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Force	-943,58
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Force	42,02
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Force	14,50
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Force	111,97
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Force	-138,79
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Force	-114,35
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Force	722,45
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Force	88,33
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Force	-33,58
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Force	-338,66
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Force	-184,44
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Force	-161,84
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Force	-943,58
high max Wnd ;315°_1X2_X	1X2	high max Wnd ;315°	GCS	X	Force	42,02
high max Wnd ;315°_1X2_Y	1X2	high max Wnd ;315°	GCS	Y	Force	14,50
high max Wnd ;315°_1X2_Z	1X2	high max Wnd ;315°	GCS	Z	Force	111,97
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Force	-138,79
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Force	-114,35
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Force	722,45
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Force	88,33
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Force	-33,58
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Force	-338,66

6.1.4. Load cases - high max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



6.1.4.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Force	138,51
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Force	113,44
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Force	718,81
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Force	-89,14
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Force	34,81
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Force	-344,74
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Force	184,32
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Force	161,11
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Force	-940,78
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Force	-42,67
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Force	-13,44
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Force	117,30
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Force	138,51
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Force	113,44
high max Wnd	1P2	high max Wnd ;135°	GCS	Z	Force	718,81

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
high max Wnd ;135°_1X2_X	1X2	high max Wnd ;135°	GCS	X	Force	-89,14
high max Wnd ;135°_1X2_Y	1X2	high max Wnd ;135°	GCS	Y	Force	34,81
high max Wnd ;135°_1X2_Z	1X2	high max Wnd ;135°	GCS	Z	Force	-344,74
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Force	184,32
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Force	161,11
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Force	-940,78
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Force	-42,67
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Force	-13,44
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Force	117,30

6.1.5. Load cases - high max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;225°		Variable	LG4	Short	None
	Standard	Static			

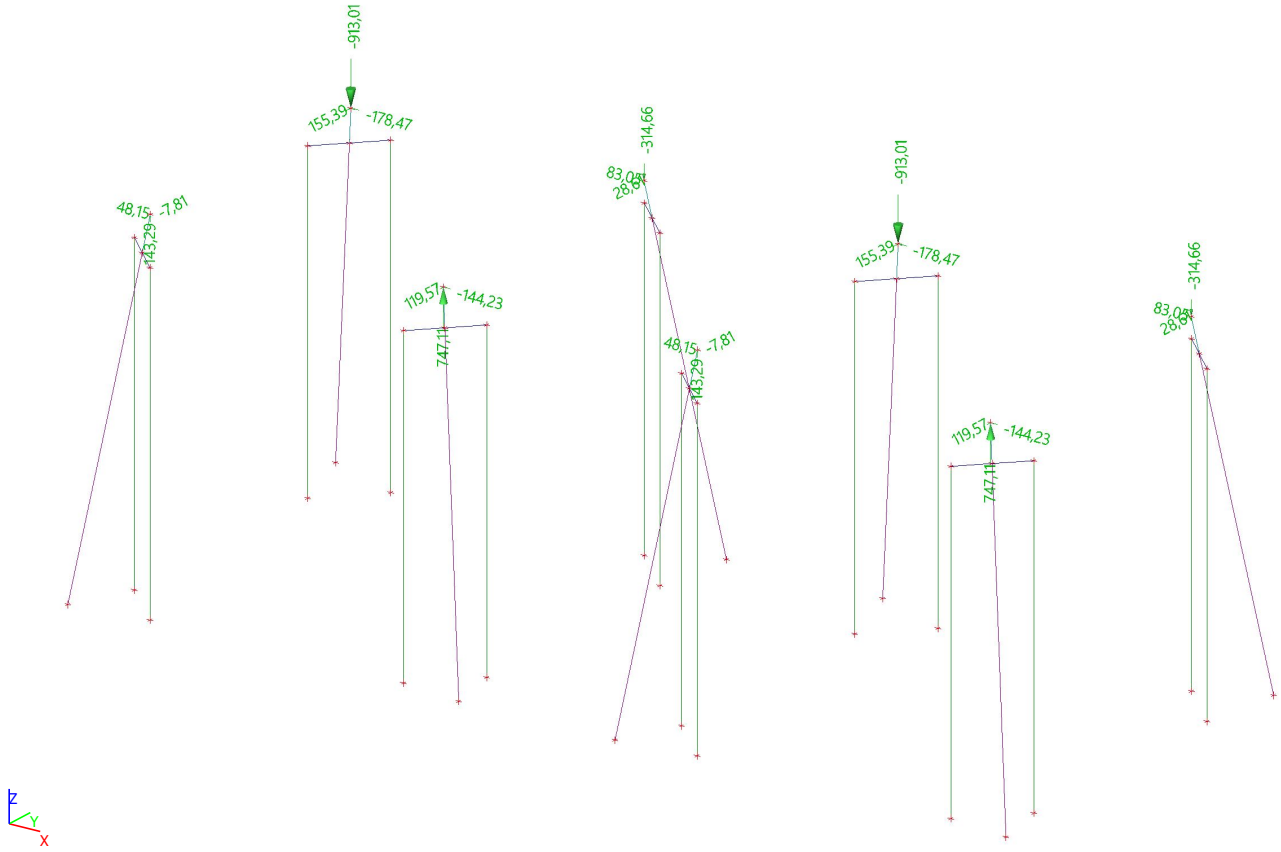


6.1.5.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Force	-88,88
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Force	-34,62
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Force	-343,43
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Force	138,28
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Force	-113,32
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Force	717,80
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Force	-42,41
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Force	13,62
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Force	116,02
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Force	184,08
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Force	-160,98
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Force	-939,76
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Force	-88,88
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Force	-34,62
high max Wnd ;225°_1P2_Z	1P2	high max Wnd ;225°	GCS	Z	Force	-343,43
high max Wnd ;225°_1X2_X	1X2	high max Wnd ;225°	GCS	X	Force	138,28
high max Wnd ;225°_1X2_Y	1X2	high max Wnd ;225°	GCS	Y	Force	-113,32
high max Wnd ;225°_1X2_Z	1X2	high max Wnd ;225°	GCS	Z	Force	717,80
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Force	-42,41
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Force	13,62
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Force	116,02
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Force	184,08
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Force	-160,98
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Force	-939,76

6.1.6. Load cases - low max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



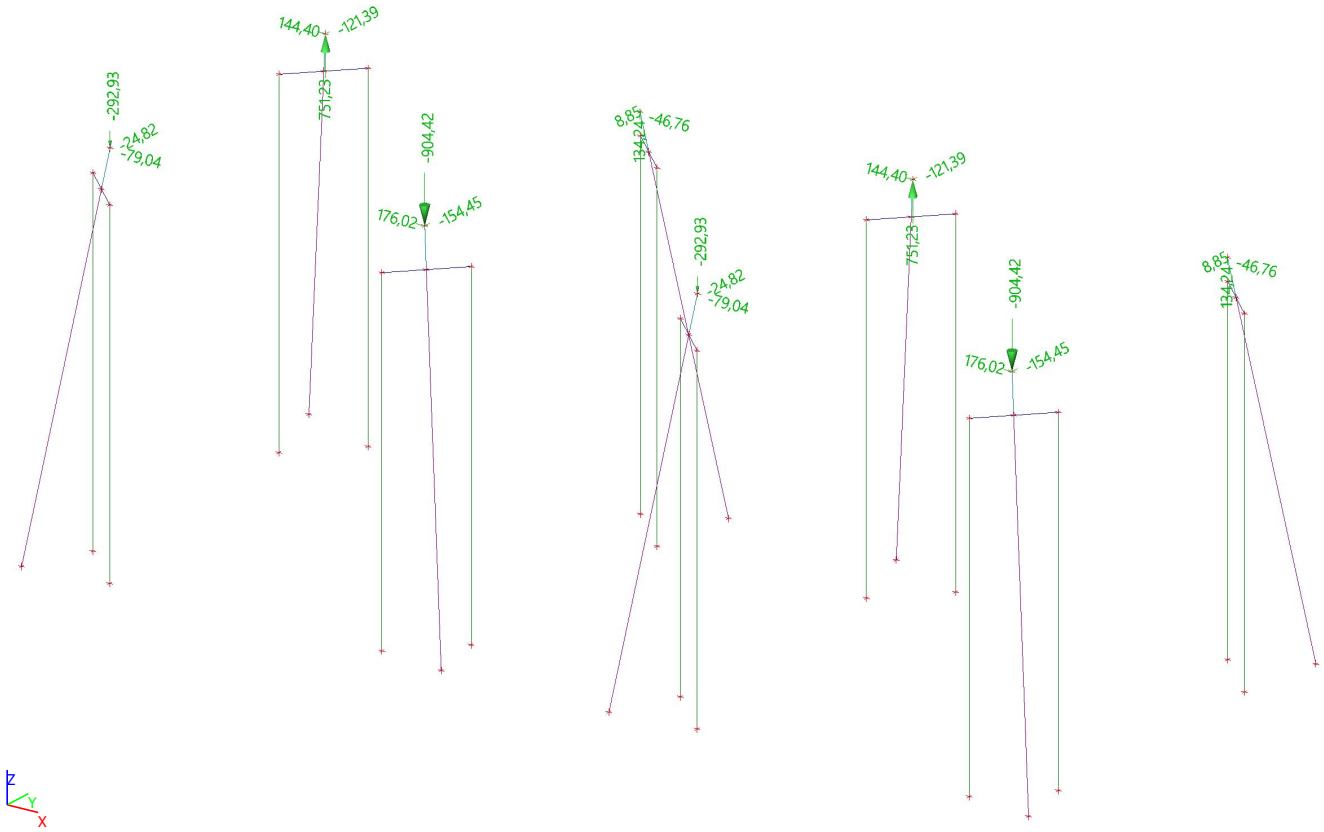
6.1.6.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Force	48,15
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Force	-7,81
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Force	143,29
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Force	-178,47
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Force	155,39
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Force	-913,01
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Force	83,05
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Force	28,61
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Force	-314,66
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Force	-144,23
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Force	119,57
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Force	747,11
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Force	48,15
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Force	-7,81
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Force	143,29

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X2_X	1X2	low max Wnd ;45°	GCS	X	Force	-178,47
low max Wnd ;45°_1X2_Y	1X2	low max Wnd ;45°	GCS	Y	Force	155,39
low max Wnd ;45°_1X2_Z	1X2	low max Wnd ;45°	GCS	Z	Force	-913,01
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Force	83,05
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Force	28,61
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Force	-314,66
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Force	-144,23
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Force	119,57
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Force	747,11

6.1.7. Load cases - low max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;225°	Standard	Variable Static	LG4	Short	None

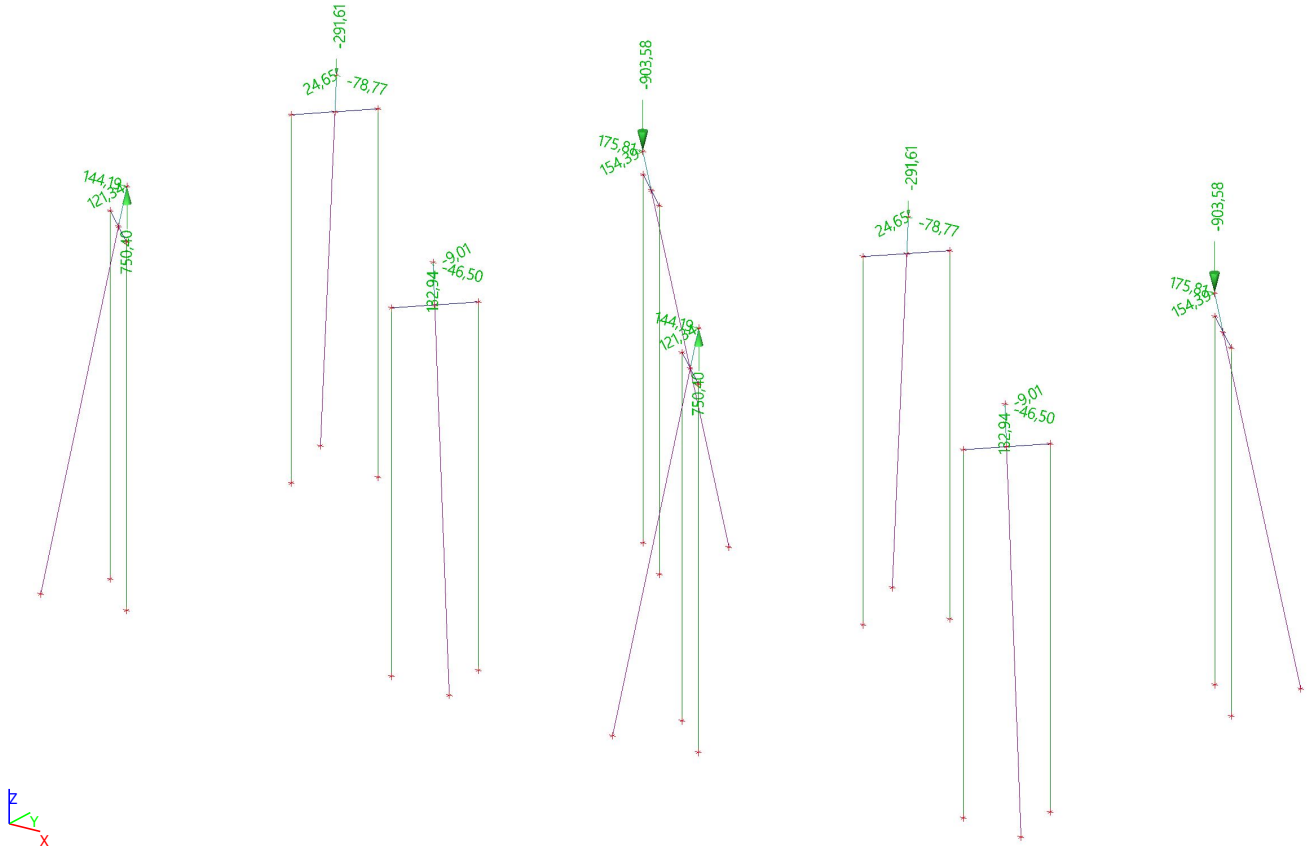


6.1.7.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Force	-79,04
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Force	-24,82
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Force	-292,93
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Force	144,40
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Force	-121,39
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Force	751,23
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Force	-46,76
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Force	8,85
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Force	134,24
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Force	176,02
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Force	-154,45
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Force	-904,42
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Force	-79,04
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Force	-24,82
low max Wnd ;225°_1P2_Z	1P2	low max Wnd ;225°	GCS	Z	Force	-292,93
low max Wnd ;225°_1X2_X	1X2	low max Wnd ;225°	GCS	X	Force	144,40
low max Wnd ;225°_1X2_Y	1X2	low max Wnd ;225°	GCS	Y	Force	-121,39
low max Wnd ;225°_1X2_Z	1X2	low max Wnd ;225°	GCS	Z	Force	751,23
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Force	-46,76
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Force	8,85
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Force	134,24
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Force	176,02
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Force	-154,45
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Force	-904,42

6.1.8. Load cases - low max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



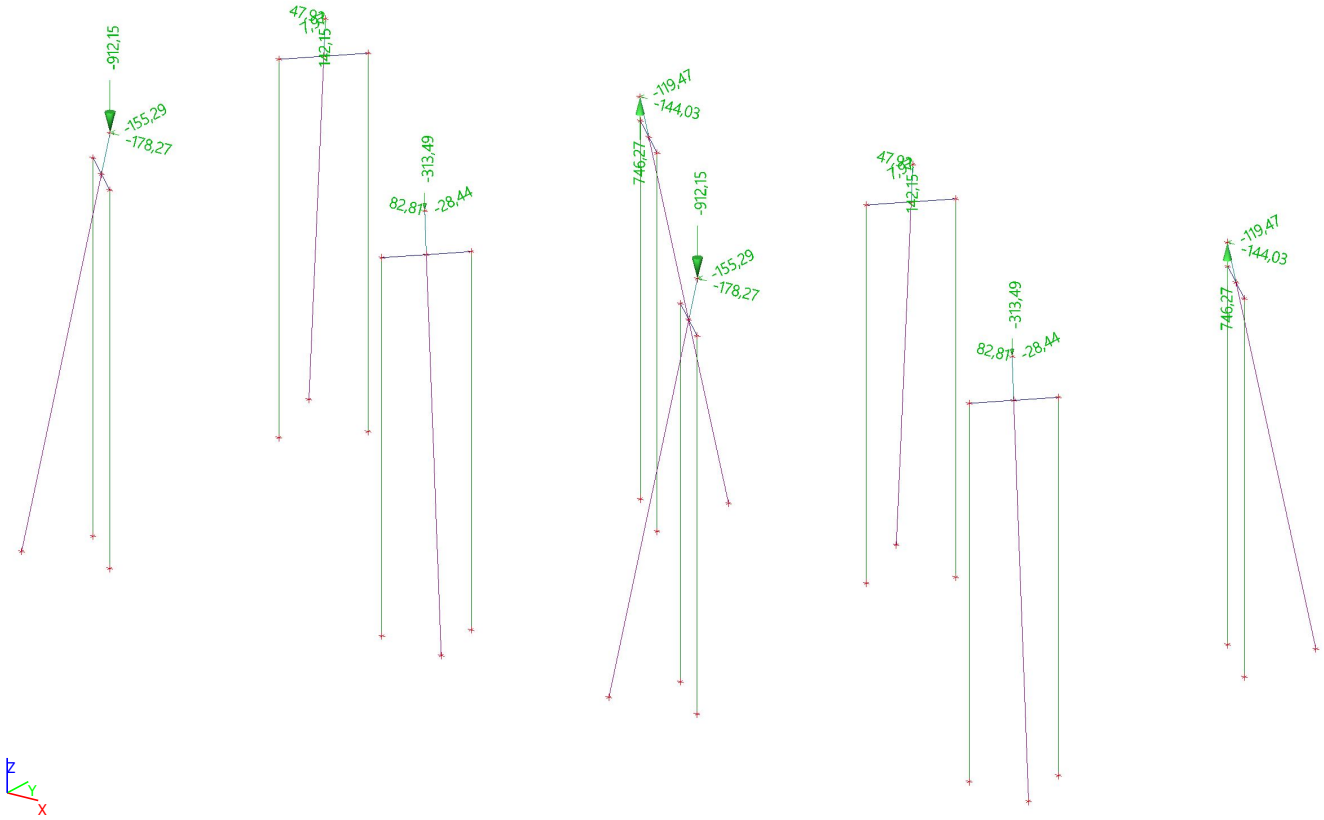
6.1.8.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Force	144,19
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Force	121,34
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Force	750,40
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Force	-78,77
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Force	24,65
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Force	-291,61
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Force	175,81
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Force	154,39
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Force	-903,58
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Force	-46,50
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Force	-9,01
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Force	132,94
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Force	144,19
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Force	121,34
low max Wnd	1P2	low max Wnd ;135°	GCS	Z	Force	750,40

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
low max Wnd ;135°_1X2_X	1X2	low max Wnd ;135°	GCS	X	Force	-78,77
low max Wnd ;135°_1X2_Y	1X2	low max Wnd ;135°	GCS	Y	Force	24,65
low max Wnd ;135°_1X2_Z	1X2	low max Wnd ;135°	GCS	Z	Force	-291,61
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Force	175,81
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Force	154,39
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Force	-903,58
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Force	-46,50
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Force	-9,01
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Force	132,94

6.1.9. Load cases - low max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;315°	Standard	Variable Static	LG4	Short	None



6.1.9.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Force	-178,27
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Force	-155,29
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Force	-912,15
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Force	47,92
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Force	7,97
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Force	142,15
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Force	-144,03
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Force	-119,47
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Force	746,27
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Force	82,81
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Force	-28,44
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Force	-313,49
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Force	-178,27
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Force	-155,29
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Force	-912,15
low max Wnd ;315°_1X2_X	1X2	low max Wnd ;315°	GCS	X	Force	47,92
low max Wnd ;315°_1X2_Y	1X2	low max Wnd ;315°	GCS	Y	Force	7,97
low max Wnd ;315°_1X2_Z	1X2	low max Wnd ;315°	GCS	Z	Force	142,15
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Force	-144,03
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Force	-119,47
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Force	746,27
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Force	82,81
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Force	-28,44
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Force	-313,49

6.2. Nonlinear combinations

Name	Type	Load cases	Coeff. [-]
low max Wnd ;45° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;45°	1,000
low max Wnd ;225° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;225°	1,000
low max Wnd ;135° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;135°	1,000
low max Wnd ;315° - EG_Gunstig	Ultimate	EG_Fundering	0,900

Name	Type	Load cases	Coeff. [-]
		low max Wnd ;315°	1,000
high max Wnd ;45° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;45°	1,000
high max Wnd ;225° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;315°	1,000
high max Wnd ;135° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;135°	1,000
high max Wnd ;315° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;225°	1,000

6.3. Result classes

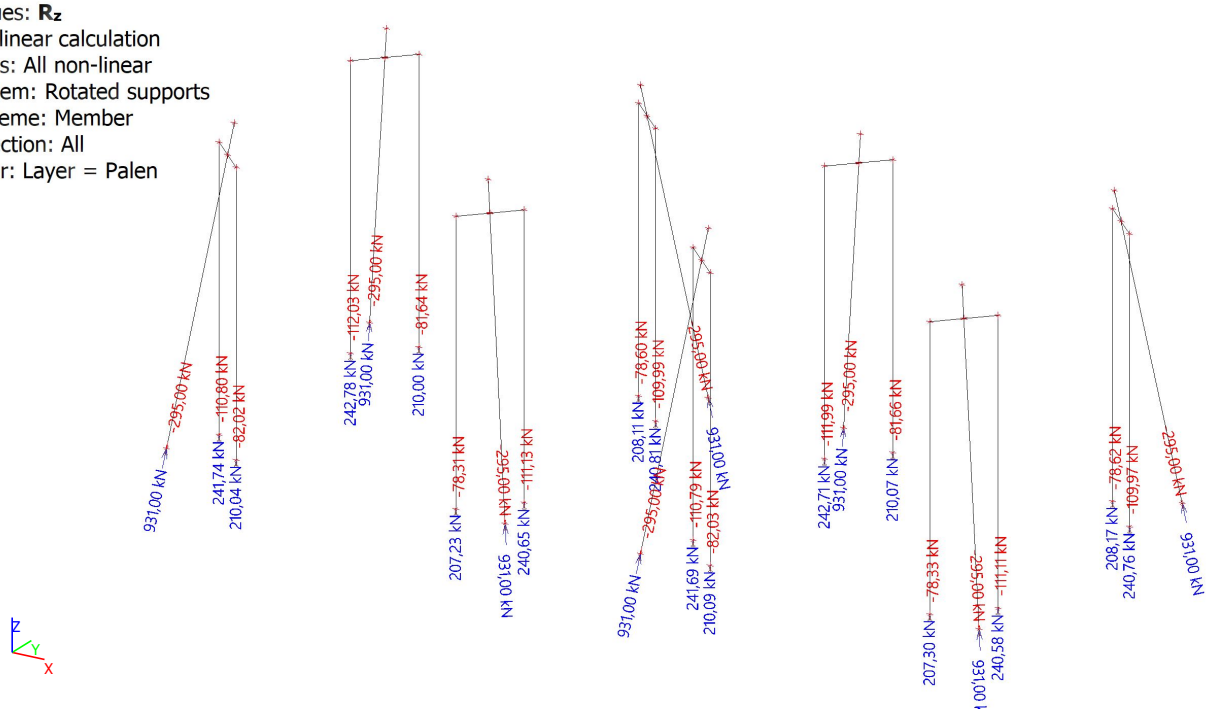
Name	List
All non-linear	low max Wnd ;45° - EG_Gunstig
	low max Wnd ;225° - EG_Gunstig
	low max Wnd ;135° - EG_Gunstig
	low max Wnd ;315° - EG_Gunstig
	high max Wnd ;45° - EG_Ongunstig
	high max Wnd ;225° - EG_Ongunstig
	high max Wnd ;135° - EG_Ongunstig
	high max Wnd ;315° - EG_Ongunstig

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LD1(31-plank) - General cross-section
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn LK/N159	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-112,03**	0,00	0,00	0,00	0,0	0,0
Sn LK/N159	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**242,78**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY/N148	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	0,00	0,0	0,0
S_XY/N148	low max Wnd ;135° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**-295,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**931,00**	0,00	0,00	**0,00**	0,0	0,0
Sn LK/N159	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-112,03**	0,00	0,00	0,00	0,0	0,0
Sn LK/N159	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**242,78**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK1/N160	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-81,64**	0,00	0,00	0,00	0,0	0,0
Sn LK1/N160	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**210,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK2/N167	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-109,99**	0,00	0,00	0,00	0,0	0,0
Sn LK2/N167	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**240,81**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK3/N168	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-78,60**	0,00	0,00	0,00	0,0	0,0
Sn LK3/N168	high max Wnd ;135° -	**0,00**	**0,00**	**208,11**	**0,00**	**0,00**	**0,00**	0,0	0,0

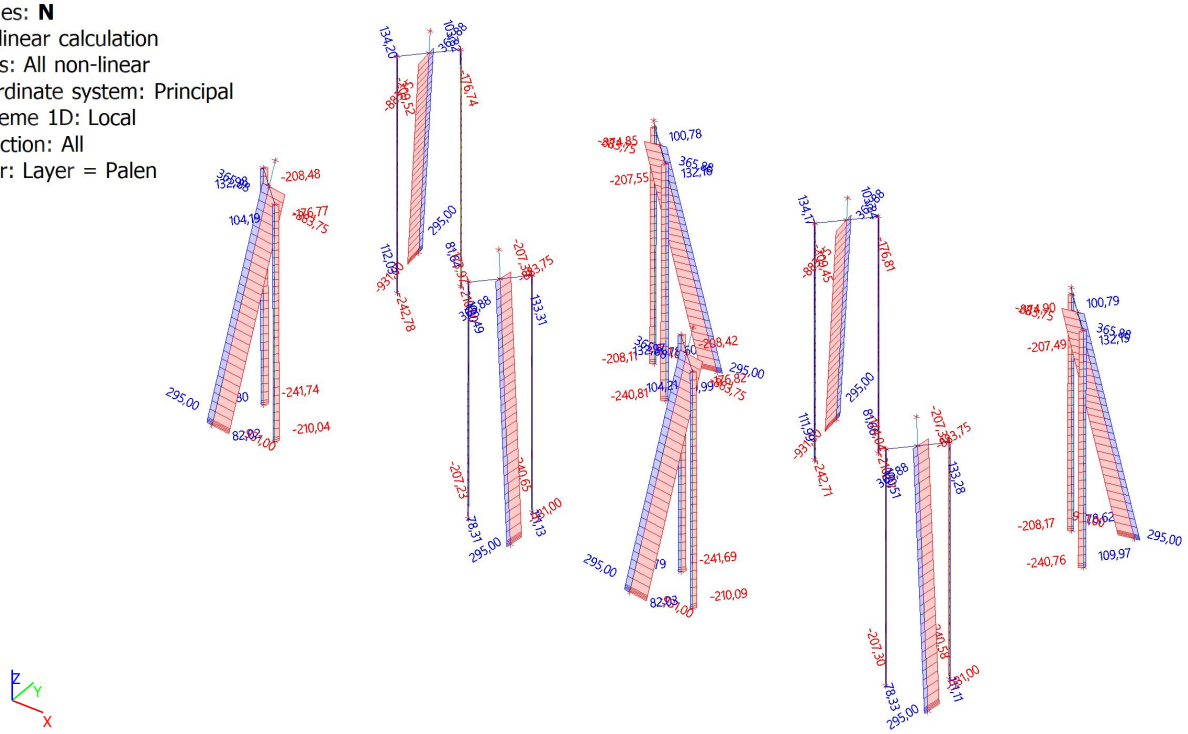
Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK4/N171	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-110,80**	0,00	0,00	0,00	0,0	0,0
Sn LK4/N171	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**241,74**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK5/N172	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-82,02**	0,00	0,00	0,00	0,0	0,0
Sn LK5/N172	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**210,04**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**240,65**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-111,13**	0,00	0,00	**0,00**	0,0	0,0
Sn LK7/N176	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**207,23**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK7/N176	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-78,31**	0,00	0,00	**0,00**	0,0	0,0
S_P2/N203	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	0,00	0,0	0,0
S_P2/N203	low max Wnd ;315° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY2/N207	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-295,00**	0,00	0,00	0,00	0,0	0,0
S_XY2/N207	low max Wnd ;135° - EG_Gunstig	**0,00**	**0,00**	**931,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N209	low max Wnd ;225° - EG_Gunstig	**0,00**	**0,00**	**-295,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N209	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**931,00**	0,00	0,00	**0,00**	0,0	0,0
Sn LK16/N212	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-111,99**	0,00	0,00	0,00	0,0	0,0
Sn LK16/N212	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**242,71**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK17/N213	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-81,66**	0,00	0,00	0,00	0,0	0,0
Sn LK17/N213	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**210,07**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK18/N216	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-109,97**	0,00	0,00	0,00	0,0	0,0
Sn LK18/N216	high max Wnd ;135° -	**0,00**	**0,00**	**240,76**	**0,00**	**0,00**	**0,00**	0,0	0,0

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK19/N217	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-78,62**	0,00	0,00	0,00	0,0	0,0
Sn LK19/N217	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**208,17**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK20/N220	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-110,79**	0,00	0,00	0,00	0,0	0,0
Sn LK20/N220	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**241,69**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK21/N221	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-82,03**	0,00	0,00	0,00	0,0	0,0
Sn LK21/N221	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**210,09**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**240,58**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-111,11**	0,00	0,00	**0,00**	0,0	0,0
Sn LK23/N225	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**207,30**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK23/N225	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-78,33**	0,00	0,00	**0,00**	0,0	0,0

7.2. Krachten van de Funderingspalen

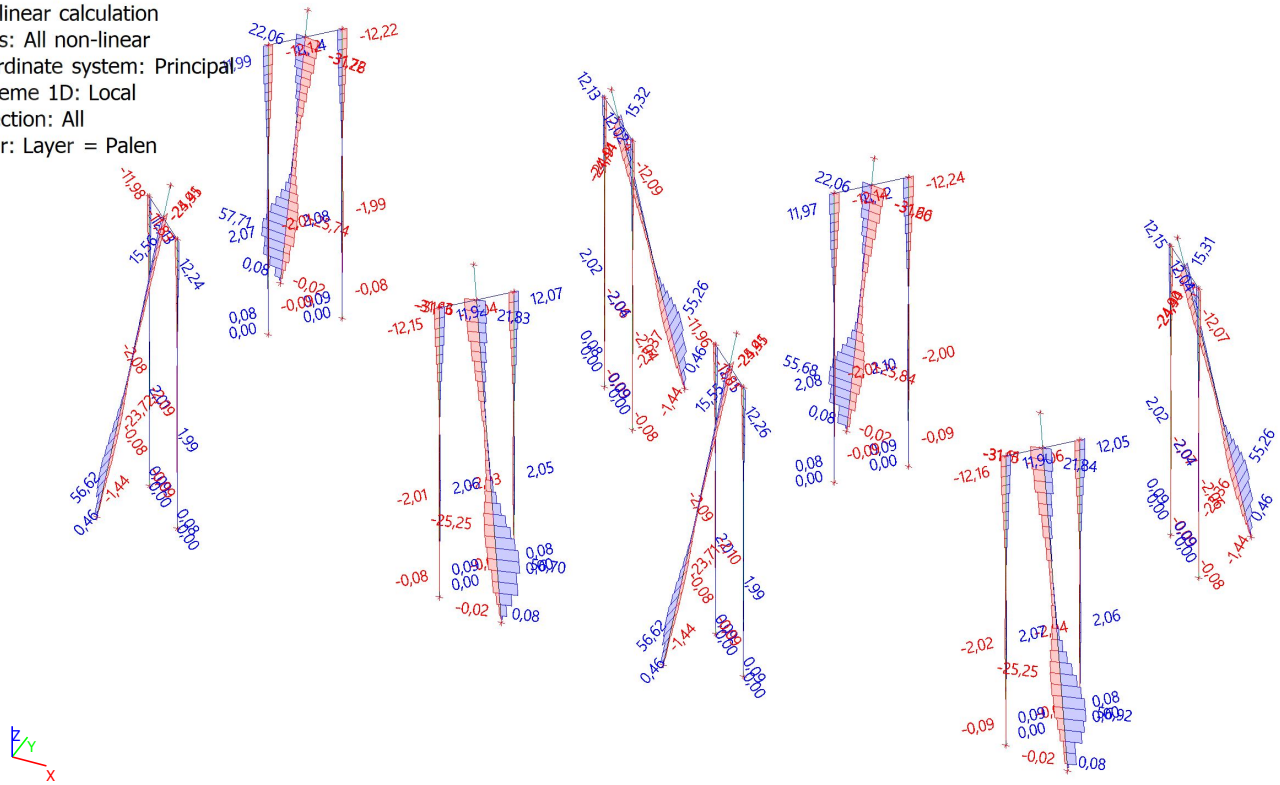
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



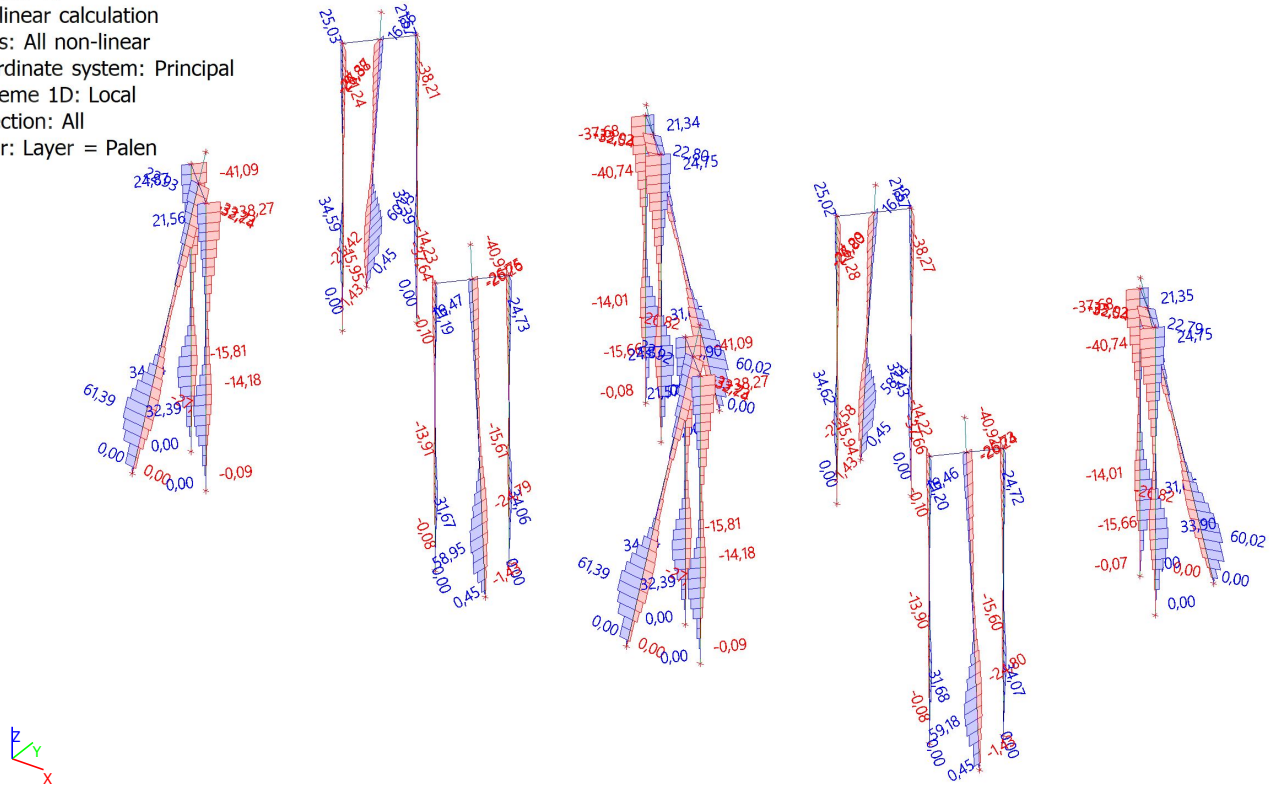
7.2.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



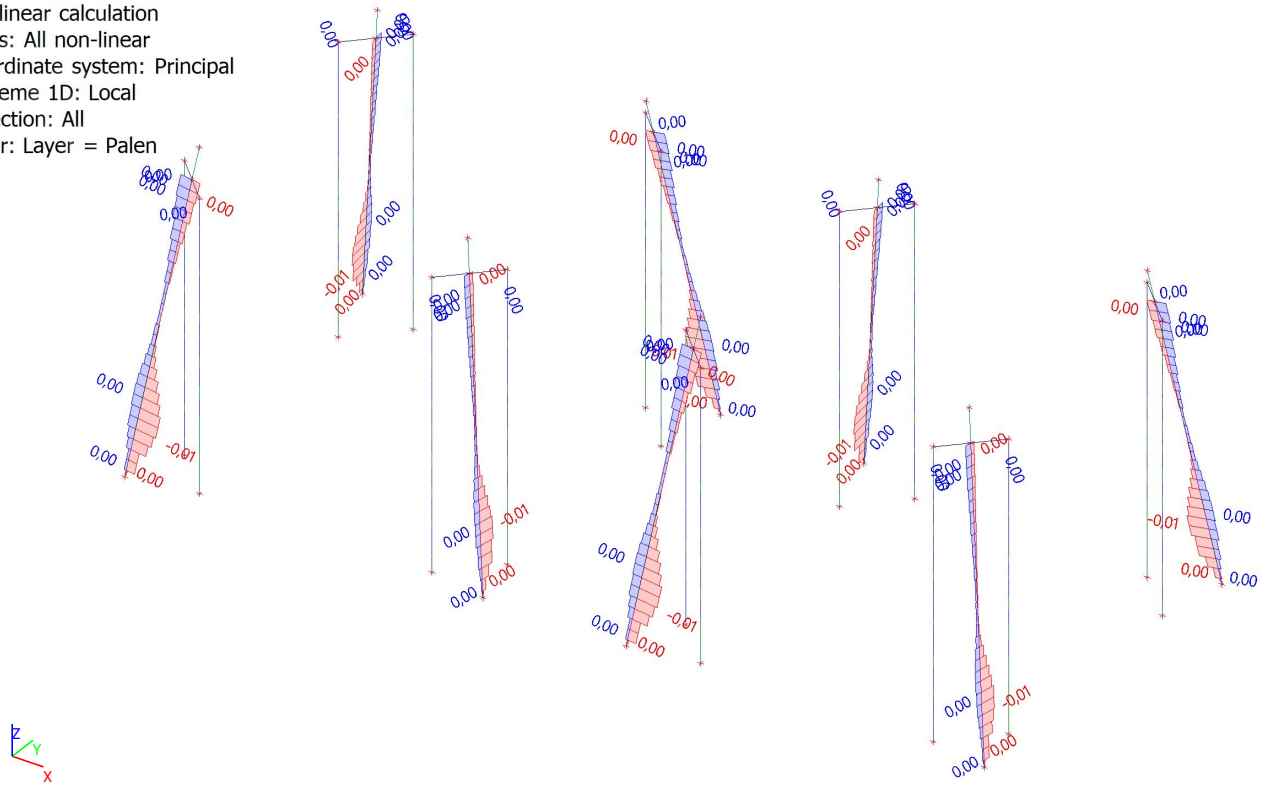
7.2.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



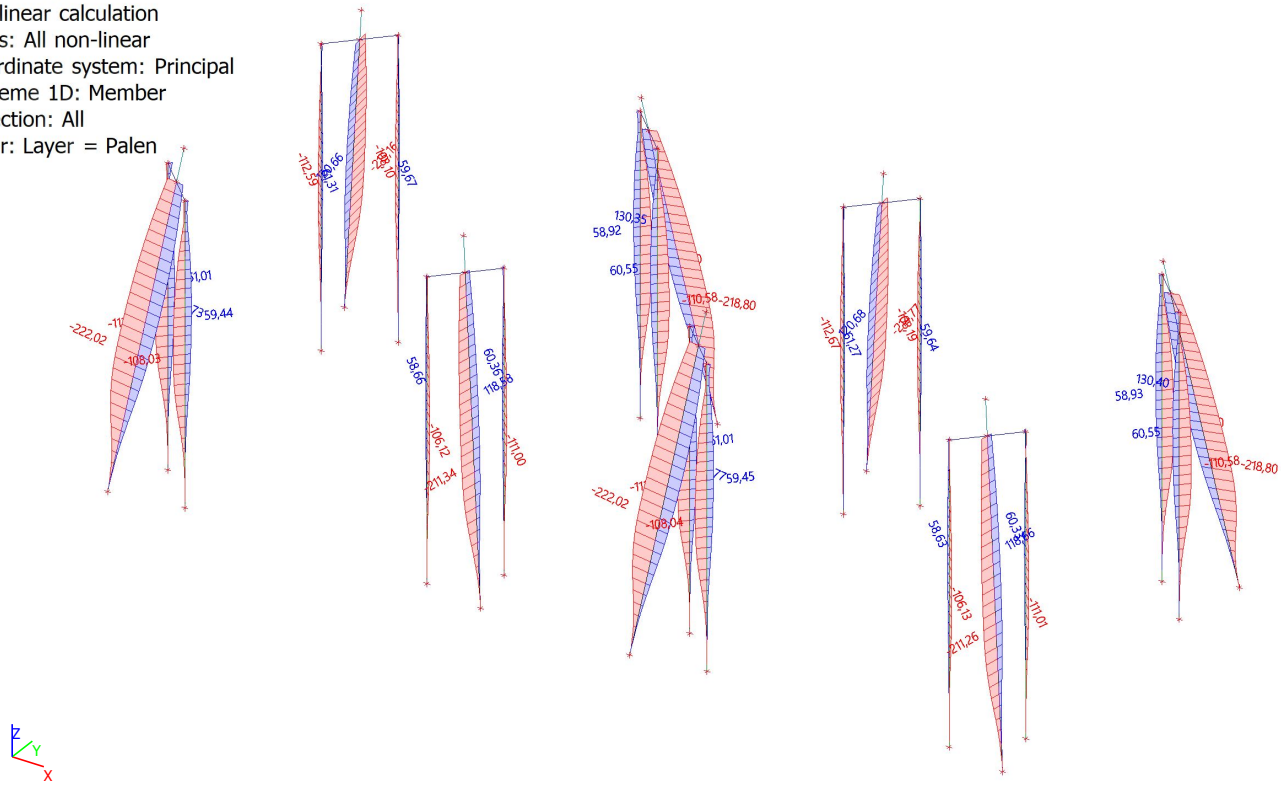
7.2.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



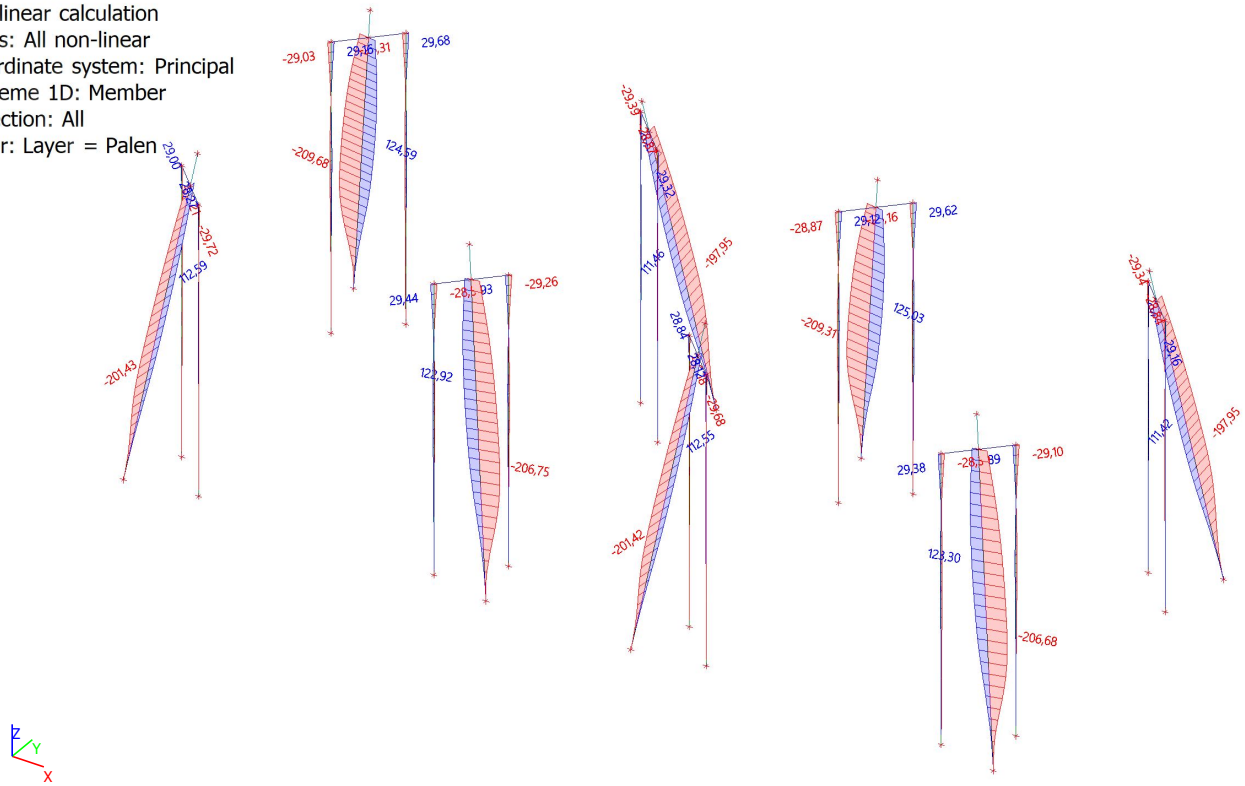
7.2.5. Interne 1D- krachten; M_y

Values: **My**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: **Mz**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Nothing in selection to display.

7.2.8. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_X1	14,250	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	**-242,78**	0,00	0,00	0,00	0,00	0,00
Paal_X1	0,000	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	**134,20**	-6,27	-41,24	**0,00**	42,37	13,21
Paal_X21	0,000	high max Wnd ;225° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-159,97	**-12,24**	2,79	0,00	-11,64	29,62
Paal_X25	0,000	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-159,95	**12,26**	2,79	0,00	-11,70	-29,68
Paal_X20	0,000	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	134,17	-6,26	**-41,28**	0,00	42,57	13,19
Paal_X20	10,000+	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	118,22	0,51	**34,62**	0,00	-71,62	-0,56
Paal_X20	7,125-	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	123,76	0,56	-2,35	0,00	**-112,67**	-2,57
Paal_X1	5,375-	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-221,04	0,19	2,87	0,00	**61,31**	3,14
Paal_X6	0,000	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-161,81	12,24	3,04	0,00	-11,79	**-29,72**
Paal_X2	0,000	high max Wnd ;225° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-161,85	-12,22	3,04	0,00	-11,74	**29,68**

7.3. Krachten van de Poeren

7.3.1. 1D internal forces

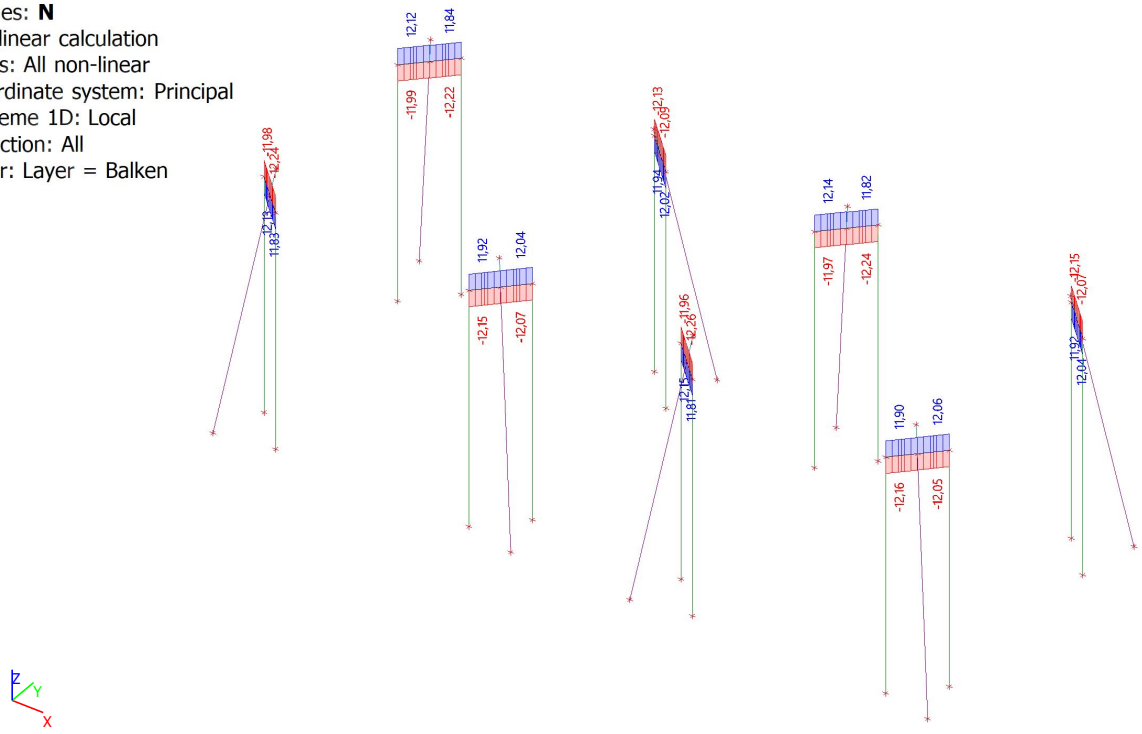
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = Poer800 - Circle (800,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer_XY	1,560	low max Wnd ;225° - EG_Gunstig	Poer800 - Circle (800,00)	**773,58**	-34,83	-17,30	**0,00**	0,00	0,00
Poer_XY	0,000	low max Wnd ;225° - EG_Gunstig	Poer800 - Circle (800,00)	756,62	**-38,27**	-17,27	0,00	26,97	**57,03**
Poer_XY	1,560	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	-974,42	**52,41**	17,34	0,00	0,00	0,00
Poer_XY	1,560	high max Wnd ;225° - EG_Ongunstig	Poer800 - Circle (800,00)	113,55	3,19	**-40,12**	0,00	0,00	0,00
Poer_X	1,560	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	114,82	3,15	**40,17**	0,00	0,00	0,00
Poer_X	0,000	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	89,39	-2,01	40,14	0,00	**-62,65**	-0,88
Poer_XY	0,000	high max Wnd ;225° - EG_Ongunstig	Poer800 - Circle (800,00)	88,11	-1,97	-40,08	0,00	**62,56**	-0,95
Poer_XY	0,000	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	**-999,86**	47,25	17,38	0,00	-27,08	**-77,74**

7.4. Krachten van de Funderingsbalken

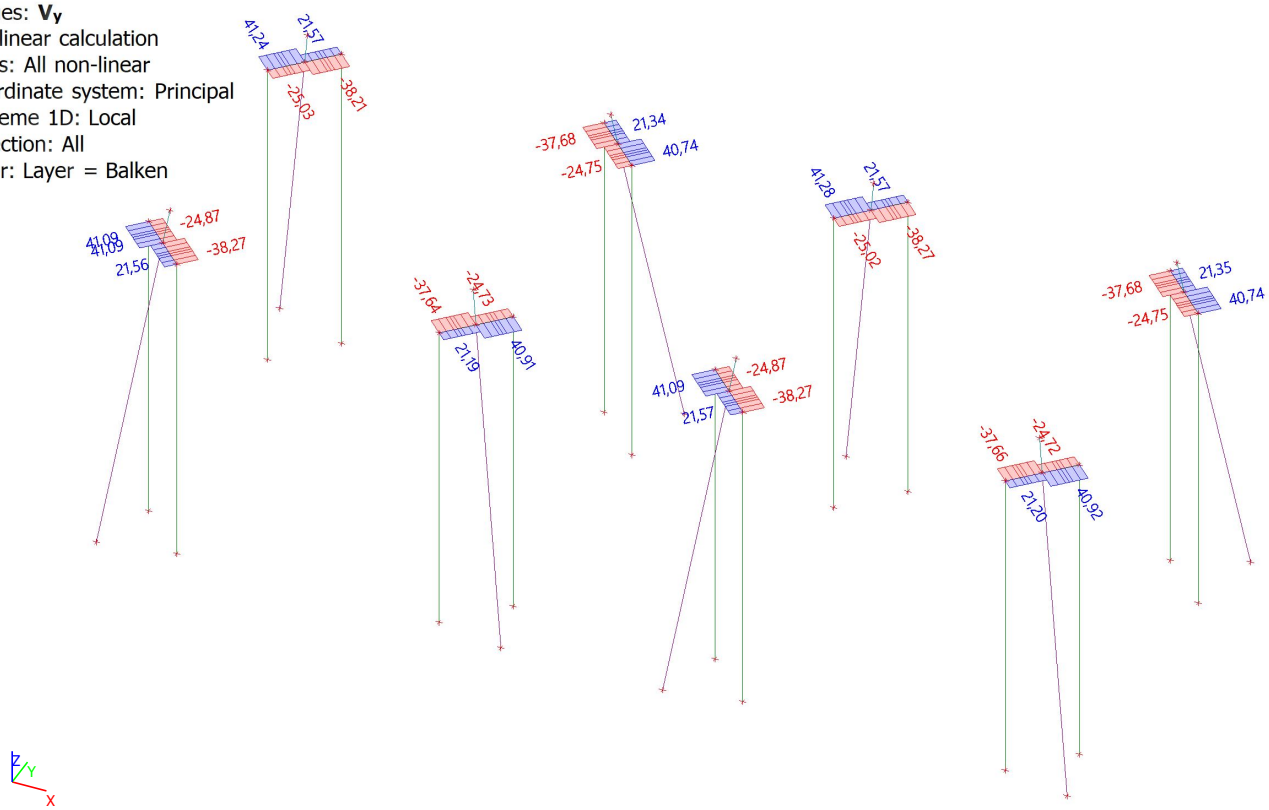
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



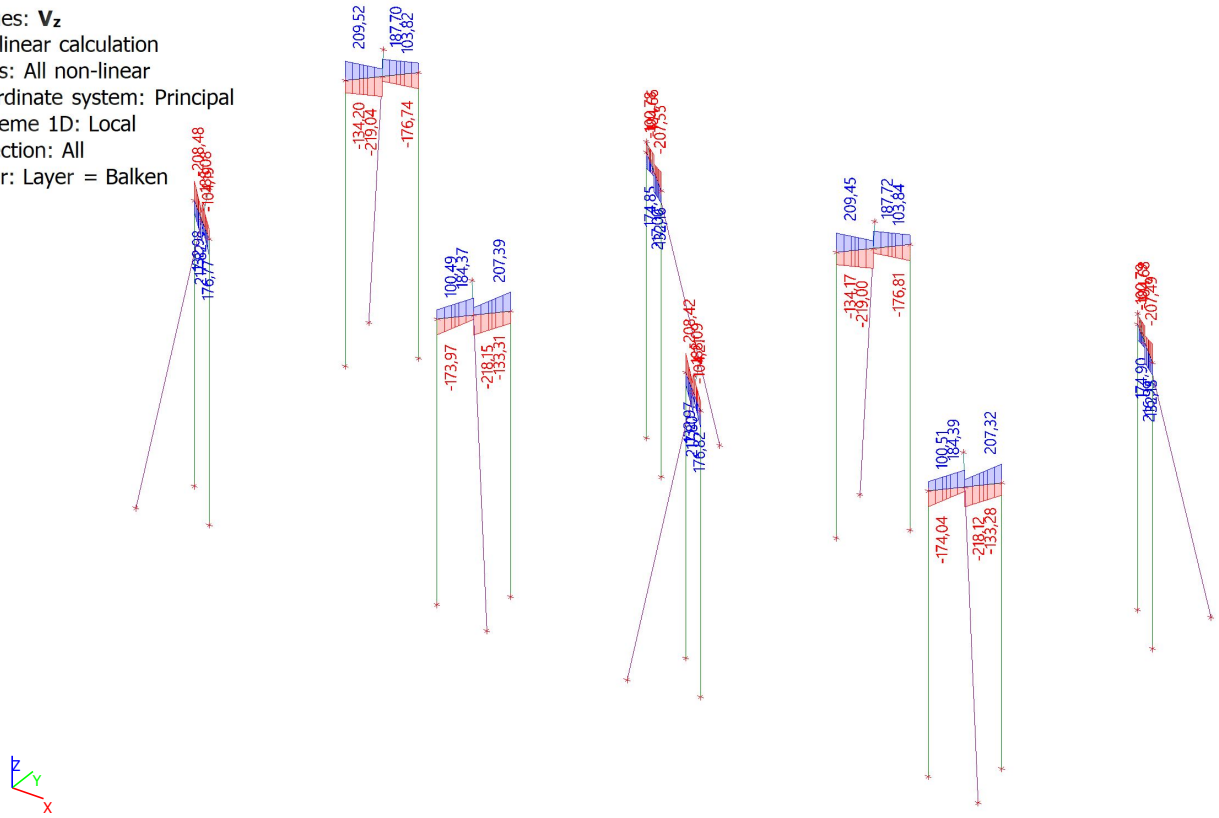
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



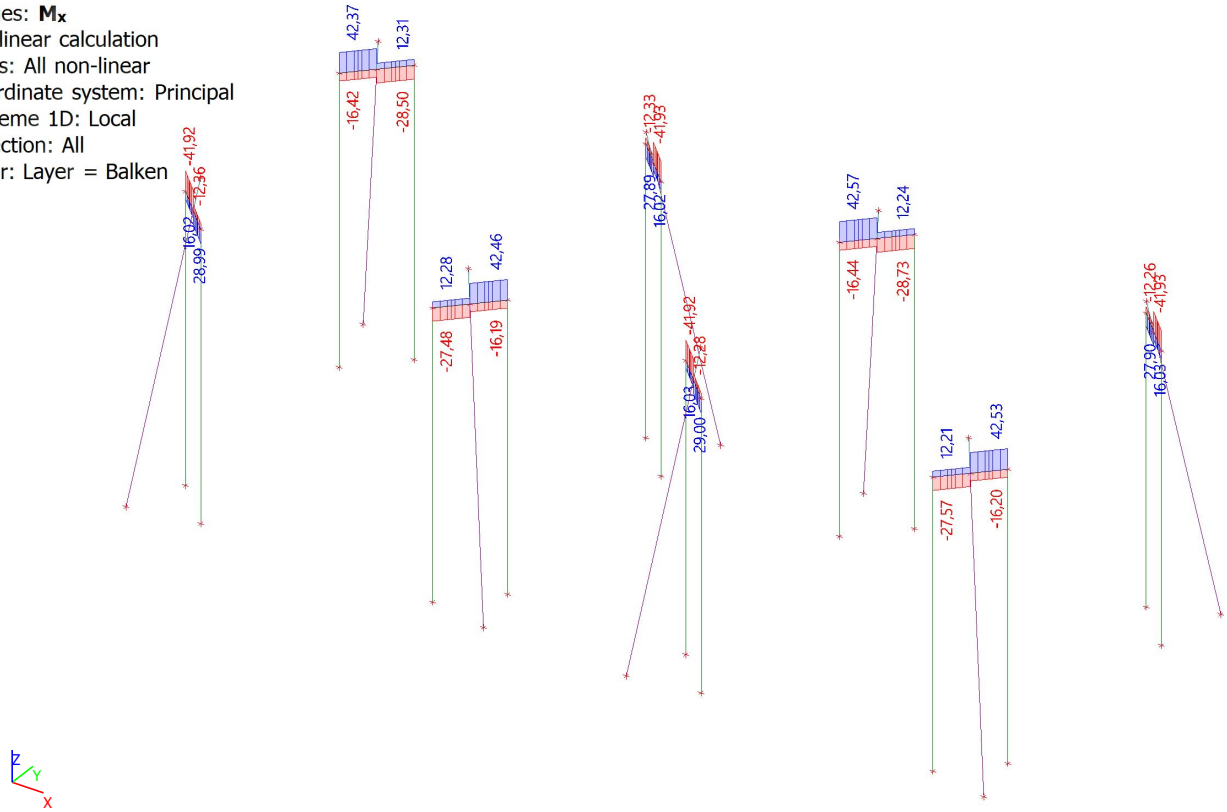
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



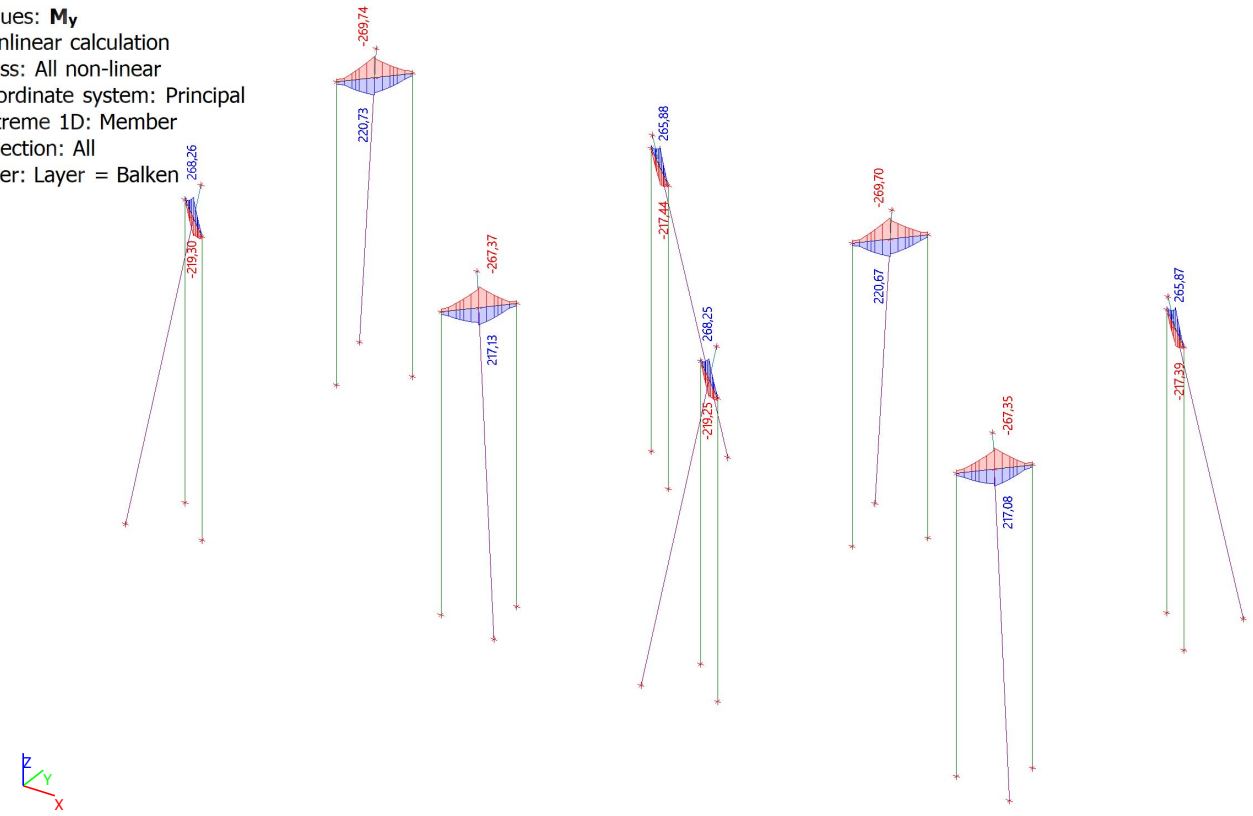
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



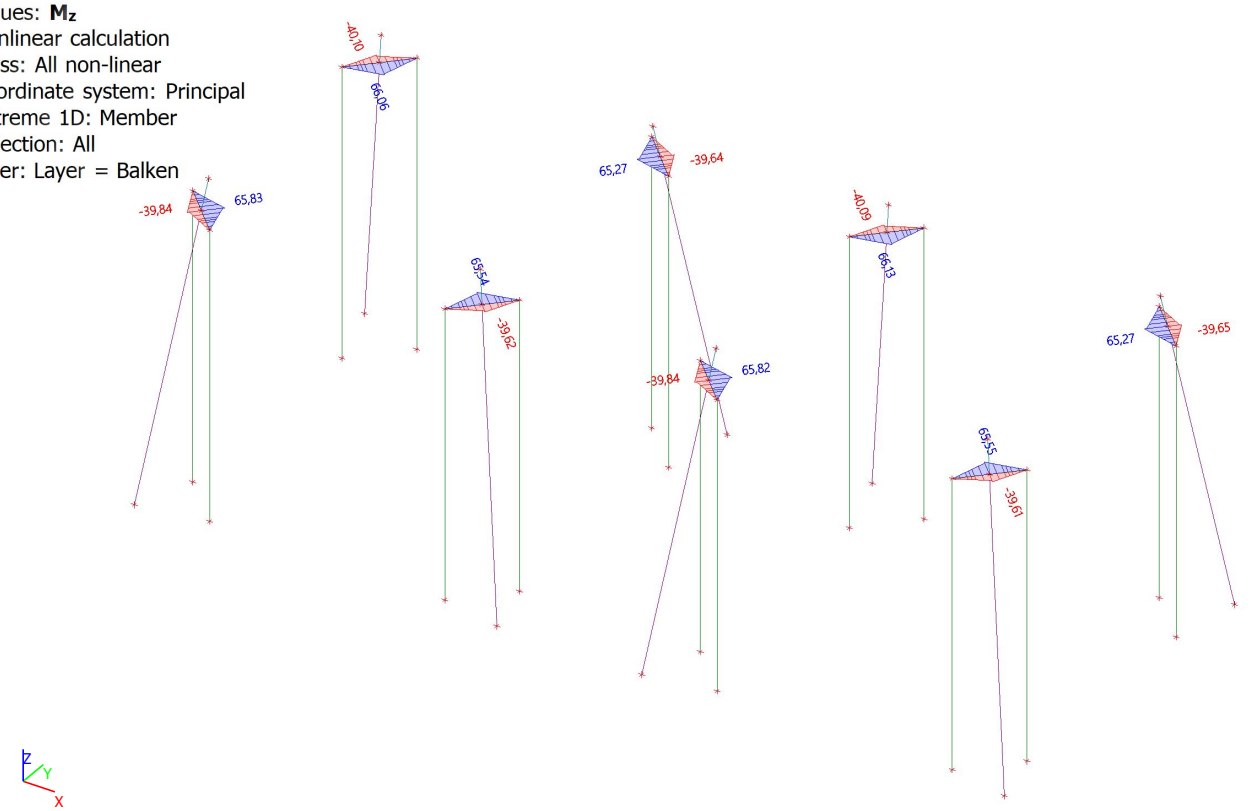
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



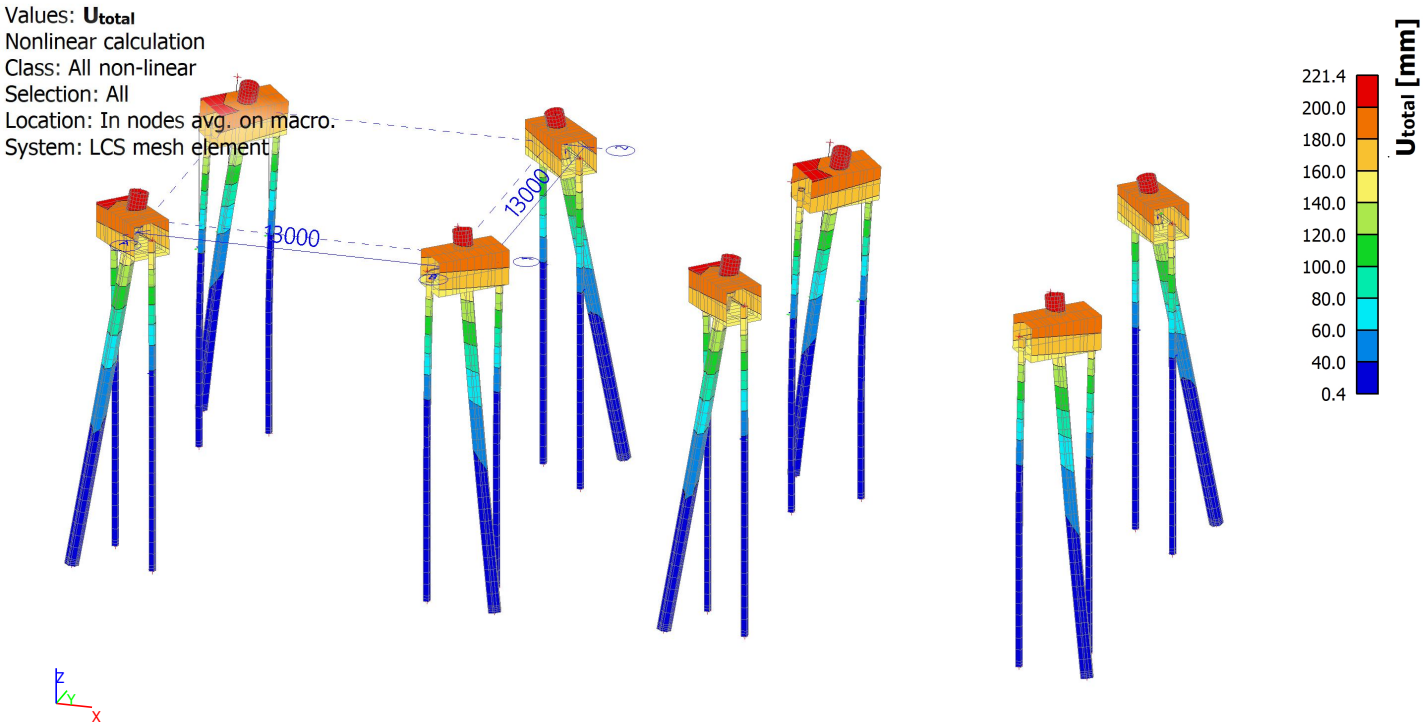
7.4.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = lijnpoer - Rectangle (1500,00; 1600,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
DIN46	1,602+	high max Wnd ;45° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**-12,26**	2,79	34,13	-11,70	-124,03	-4,42
DIN46	0,000	high max Wnd ;45° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**12,15**	9,97	-60,19	-19,27	-29,18	0,00
DIN46	1,602+	low max Wnd ;135° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-5,70	**-38,27**	-188,09	29,00	242,90	60,62
DIN37	0,000	low max Wnd ;315° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,51	40,74	132,16	**-41,93**	-13,79	0,00
DIN34	1,602-	low max Wnd ;225° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,27	41,24	**-219,04**	42,37	**-269,74**	66,06
DIN38	1,602-	low max Wnd ;135° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,05	41,09	**217,82**	-41,92	**268,26**	65,83
DIN34	1,602-	high max Wnd ;45° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-6,08	-25,03	82,26	-16,42	220,73	**-40,10**
DIN44	1,602-	low max Wnd ;225° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,26	**41,28**	-219,00	**42,57**	-269,70	**66,13**

7.5. Vervormingen

7.5.1. 3D displacement; U_total



7.5.2. 3D displacement

Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro. System: LCS mesh element
Results on 1D member:
Extreme 1D: Member

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Poer_X	0,000	18	high max Wnd ;45° - EG_Ongunstig	0,2	3,5	-7,4	-2,2	0,6	0,7	**8,2**
Poer_X	1,560	14	low max Wnd ;135° - EG_Gunstig	45,9	215,8	-3,0	-2,3	0,7	27,1	**220,7**
Paal_P	9,000-	12	high max Wnd ;45° - EG_Ongunstig	0,1	0,1	0,2	2,2	-0,3	-0,2	**0,2**
Paal_P	0,000	15	low max Wnd ;135° - EG_Gunstig	-43,8	-117,9	-127,1	2,3	-19,8	18,1	**178,8**
Poer_P	0,000	14	high max Wnd ;135° - EG_Ongunstig	0,2	3,6	7,3	2,2	-0,6	0,8	**8,2**
Poer_P	1,560	18	low max Wnd ;45° - EG_Gunstig	45,2	212,5	3,4	2,7	-0,8	26,7	**217,3**
Paal_Y	9,000-	2	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	0,1	-2,2	0,1	0,3	**0,1**
Paal_Y	0,000	26	low max Wnd ;45° - EG_Gunstig	-41,1	-119,7	-122,0	-2,7	-18,7	18,7	**175,8**
Poer_Y	0,000	18	high max Wnd ;315° -	0,2	3,6	-7,3	-2,2	0,6	0,8	**8,1**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_Y	1,560	14	low max Wnd ;315° - EG_Gunstig	45,1	211,9	-3,3	-2,5	0,7	26,6	**216,7**
Paal_XY	9,000-	12	high max Wnd ;315° - EG_Ongunstig	0,1	0,1	0,2	2,2	-0,3	-0,2	**0,2**
Paal_XY	0,000	15	low max Wnd ;315° - EG_Gunstig	-43,0	-115,5	-124,9	2,5	-19,5	17,7	**175,5**
Poer_XY	0,000	14	high max Wnd ;225° - EG_Ongunstig	0,2	3,5	7,4	2,2	-0,6	0,7	**8,2**
Poer_XY	1,560	18	low max Wnd ;225° - EG_Gunstig	46,0	216,3	3,2	2,5	-0,7	27,1	**221,2**
Paal_X	9,000-	2	high max Wnd ;225° - EG_Ongunstig	0,1	0,0	0,1	-2,2	0,1	0,3	**0,1**
Paal_X	0,000	26	low max Wnd ;225° - EG_Gunstig	-41,9	-121,7	-124,4	-2,5	-19,1	19,0	**179,0**
DIN34	3,186	1	low max Wnd ;315° - EG_Gunstig	6,0	-0,4	0,1	1,0	0,2	2,4	**6,0**
DIN34	0,000	3	low max Wnd ;225° - EG_Gunstig	0,9	-201,8	22,4	26,9	0,1	2,6	**203,0**
Paal_X1	13,000-	6	high max Wnd ;315° - EG_Ongunstig	-0,1	0,0	0,0	-2,8	0,4	0,0	**0,1**
Paal_X1	0,000	2	low max Wnd ;225° - EG_Gunstig	-1,1	-2,9	-181,7	-2,6	-26,9	0,1	**181,8**
Paal_X2	10,500-	2	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	0,0	-2,8	-0,8	0,0	**0,0**
Paal_X2	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,8	-2,9	-173,6	-2,6	-26,9	0,1	**173,6**
DIN37	3,186	3	low max Wnd ;225° - EG_Gunstig	6,0	-0,3	-0,1	-1,0	-0,2	2,3	**6,0**
DIN37	0,000	1	low max Wnd ;315° - EG_Gunstig	1,1	-197,7	-21,9	-26,4	-0,1	2,6	**198,9**
Paal_X3	13,000-	4	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	0,0	2,6	0,4	0,0	**0,1**
Paal_X3	0,000	4	low max Wnd ;315° - EG_Gunstig	-1,1	3,0	-178,1	2,6	-26,4	-0,1	**178,1**
Paal_X4	10,500-	4	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	0,0	2,6	-0,8	0,0	**0,0**
Paal_X4	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,8	3,0	-169,8	2,6	-26,4	-0,1	**169,8**
DIN38	3,186	3	low max Wnd ;45° - EG_Gunstig	6,0	-0,4	-0,1	-1,0	-0,2	2,4	**6,1**
DIN38	0,000	1	low max Wnd ;135° - EG_Gunstig	1,0	-201,1	-22,3	-26,8	0,0	2,4	**202,3**
Paal_X5	13,000-	8	high max Wnd ;135° -	-0,1	0,0	0,0	2,6	0,4	0,0	**0,1**

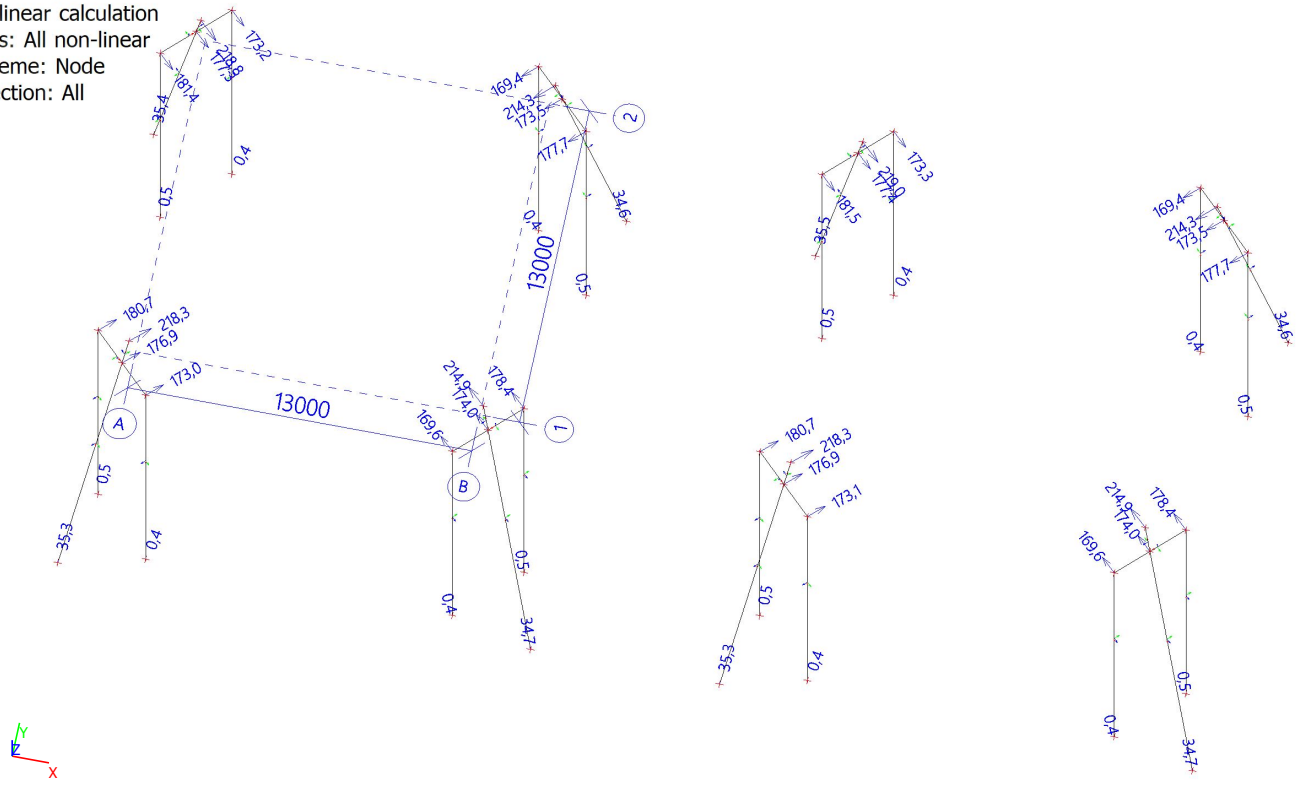
Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Paal_X5	0,000	4	low max Wnd ;135° - EG_Gunstig	-1,1	2,8	-181,0	2,4	-26,8	0,0	**181,1**
Paal_X6	10,500-	4	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	0,0	2,7	-0,8	0,0	**0,0**
Paal_X6	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,8	2,8	-173,4	2,4	-26,8	-0,1	**173,4**
DIN39	3,186	1	low max Wnd ;135° - EG_Gunstig	6,0	-0,2	0,1	1,0	0,2	2,3	**6,0**
DIN39	0,000	3	low max Wnd ;45° - EG_Gunstig	1,0	-198,5	22,0	26,5	0,1	2,8	**199,7**
Paal_X7	13,000-	6	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	0,0	-2,7	0,4	0,0	**0,1**
Paal_X7	0,000	2	low max Wnd ;45° - EG_Gunstig	-1,1	-3,1	-178,8	-2,8	-26,5	0,1	**178,9**
Paal_X8	10,500-	2	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	0,0	-2,7	-0,8	0,0	**0,0**
Paal_X8	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,8	-3,1	-170,0	-2,8	-26,4	0,1	**170,1**
Poer_X2	0,000	18	high max Wnd ;45° - EG_Ongunstig	0,2	3,8	-7,5	-2,2	0,7	0,8	**8,4**
Poer_X2	1,560	14	low max Wnd ;135° - EG_Gunstig	45,9	215,8	-3,0	-2,3	0,7	27,1	**220,7**
Paal_P2	8,500-	12	high max Wnd ;45° - EG_Ongunstig	0,1	0,2	0,0	2,2	-0,4	-0,2	**0,2**
Paal_P2	0,000	15	low max Wnd ;135° - EG_Gunstig	-43,8	-117,9	-127,1	2,3	-19,8	18,1	**178,8**
Poer_P2	0,000	14	high max Wnd ;135° - EG_Ongunstig	0,2	3,9	7,4	2,2	-0,7	0,8	**8,4**
Poer_P2	1,560	18	low max Wnd ;45° - EG_Gunstig	45,2	212,5	3,4	2,7	-0,8	26,7	**217,3**
Paal_Y2	9,000-	2	high max Wnd ;135° - EG_Ongunstig	0,1	0,0	0,1	-2,2	0,1	0,3	**0,1**
Paal_Y2	0,000	26	low max Wnd ;45° - EG_Gunstig	-41,1	-119,7	-122,0	-2,7	-18,7	18,7	**175,8**
Poer_Y2	0,000	18	high max Wnd ;315° - EG_Ongunstig	0,2	3,9	-7,4	-2,2	0,7	0,8	**8,3**
Poer_Y2	1,560	14	low max Wnd ;315° - EG_Gunstig	45,1	211,9	-3,3	-2,5	0,7	26,6	**216,7**
Paal_XY2	8,500-	12	high max Wnd ;315° - EG_Ongunstig	0,1	0,2	0,0	2,2	-0,4	-0,2	**0,2**
Paal_XY2	0,000	15	low max Wnd ;315° - EG_Gunstig	-43,0	-115,5	-124,9	2,5	-19,5	17,7	**175,5**
Poer_XY2	0,000	14	high max Wnd ;225° -	0,2	3,8	7,5	2,2	-0,7	0,8	**8,4**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_XY2	1,560	18	low max Wnd ;225° - EG_Gunstig	46,1	216,5	3,2	2,5	-0,7	27,1	**221,4**
Paal_X19	9,000-	2	high max Wnd ;225° - EG_Ongunstig	0,1	0,0	0,1	-2,2	0,1	0,3	**0,1**
Paal_X19	0,000	26	low max Wnd ;225° - EG_Gunstig	-41,9	-121,8	-124,6	-2,5	-19,1	19,0	**179,2**
DIN44	3,186	1	low max Wnd ;315° - EG_Gunstig	6,1	-0,5	0,1	1,0	0,2	2,4	**6,1**
DIN44	0,000	3	low max Wnd ;225° - EG_Gunstig	0,9	-202,0	22,4	26,9	0,1	2,6	**203,2**
Paal_X20	13,000-	6	high max Wnd ;315° - EG_Ongunstig	-0,1	0,0	0,0	-2,8	0,4	0,0	**0,1**
Paal_X20	0,000	2	low max Wnd ;225° - EG_Gunstig	-1,1	-2,9	-181,9	-2,6	-26,9	0,1	**181,9**
Paal_X21	10,500-	2	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	0,0	-2,8	-0,8	0,0	**0,0**
Paal_X21	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,8	-2,9	-173,7	-2,6	-26,9	0,1	**173,8**
DIN45	3,186	3	low max Wnd ;225° - EG_Gunstig	6,0	-0,4	0,0	-1,0	-0,2	2,4	**6,1**
DIN45	0,000	1	low max Wnd ;315° - EG_Gunstig	1,1	-197,7	-22,0	-26,4	-0,1	2,6	**198,9**
Paal_X22	13,000-	4	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	0,0	2,6	0,4	0,0	**0,1**
Paal_X22	0,000	4	low max Wnd ;315° - EG_Gunstig	-1,1	3,1	-178,1	2,6	-26,4	-0,1	**178,1**
Paal_X23	10,500-	4	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	0,0	2,6	-0,8	0,0	**0,0**
Paal_X23	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,8	3,1	-169,8	2,6	-26,4	-0,1	**169,8**
DIN46	3,186	3	low max Wnd ;45° - EG_Gunstig	6,1	-0,5	-0,1	-1,1	-0,2	2,4	**6,1**
DIN46	0,000	1	low max Wnd ;135° - EG_Gunstig	1,0	-201,1	-22,3	-26,8	-0,1	2,4	**202,3**
Paal_X24	13,000-	8	high max Wnd ;135° - EG_Ongunstig	-0,1	0,0	0,0	2,6	0,4	0,0	**0,1**
Paal_X24	0,000	4	low max Wnd ;135° - EG_Gunstig	-1,1	2,8	-181,0	2,4	-26,8	-0,1	**181,1**
Paal_X25	10,500-	4	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	0,0	2,7	-0,8	0,0	**0,0**
Paal_X25	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,8	2,8	-173,4	2,4	-26,8	-0,1	**173,4**
DIN47	3,186	1	low max Wnd ;135° -	6,0	-0,3	0,0	1,0	0,2	2,3	**6,0**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
DIN47	0,000	3	low max Wnd ;45° - EG_Gunstig	1,0	-198,5	22,0	26,5	0,1	2,8	**199,8**
Paal_X26	13,000-	6	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	0,0	-2,7	0,4	0,0	**0,1**
Paal_X26	0,000	2	low max Wnd ;45° - EG_Gunstig	-1,1	-3,1	-178,9	-2,8	-26,5	0,1	**178,9**
Paal_X27	10,500-	2	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	0,0	-2,7	-0,8	0,0	**0,0**
Paal_X27	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,8	-3,1	-170,1	-2,8	-26,4	0,1	**170,1**

7.5.3. Displacement of nodes; U_total

Values: $\mathbf{U_{total}}$
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Displacement of nodes

Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N123	low max Wnd ;135° - EG_Gunstig	**127,0**	**123,1**	**1,0**	**-18,9**	**19,0**	-2,4	**176,9**
N123	high max Wnd ;225° - EG_Ongunstig	**-59,2**	**-55,4**	**-1,2**	**10,1**	**-10,2**	2,2	81,0
N123	high max Wnd ;135° - EG_Ongunstig	107,4	103,0	0,2	-16,2	16,3	**-2,7**	148,8
N123	high max Wnd ;315° - EG_Ongunstig	-11,1	0,0	-0,9	1,3	-1,6	**2,7**	11,2
1P	low max Wnd ;135° - EG_Gunstig	**157,0**	**151,6**	**-7,1**	**-19,0**	**19,3**	-2,4	**218,3**
1P	high max Wnd ;225° - EG_Ongunstig	**-75,6**	**-70,6**	**3,0**	**10,3**	**-10,5**	2,2	103,5
1P	high max Wnd ;135° - EG_Ongunstig	133,2	127,3	-6,7	-16,2	16,5	**-2,7**	184,4
1P	high max Wnd ;315° - EG_Ongunstig	-14,4	-1,4	-0,4	1,2	-1,8	**2,7**	14,5
N139	high max Wnd ;225° - EG_Ongunstig	**-1,6**	**-1,7**	**-14,2**	0,2	0,4	2,1	14,4
N139	low max Wnd ;135° - EG_Gunstig	**3,1**	**3,2**	**35,0**	**-0,8**	0,2	-2,3	**35,3**
N139	low max Wnd ;45° - EG_Gunstig	0,0	0,1	0,3	-0,3	**-0,3**	-2,3	0,4
N139	high max Wnd ;135° - EG_Ongunstig	2,6	2,7	28,6	-0,7	0,0	**-2,5**	28,9
N139	high max Wnd ;315° - EG_Ongunstig	-0,1	-0,3	-1,1	**0,3**	**0,4**	**2,5**	1,2
N141	high max Wnd ;315° - EG_Ongunstig	**58,3**	**-54,4**	**-1,2**	**10,0**	**10,0**	-2,4	79,7
N141	low max Wnd ;45° - EG_Gunstig	**-125,2**	**120,8**	**1,0**	**-18,6**	**-18,8**	**2,8**	**174,0**
N141	high max Wnd ;225° - EG_Ongunstig	11,1	0,1	-0,9	1,3	1,5	**-2,7**	11,2
1Y	high max Wnd ;315° - EG_Ongunstig	**74,6**	**-69,3**	**2,9**	**10,1**	**10,4**	-2,4	101,9
1Y	low max Wnd ;45° - EG_Gunstig	**-154,9**	**148,8**	**-7,0**	**-18,7**	**-19,0**	**2,8**	**214,9**
1Y	high max Wnd ;225° - EG_Ongunstig	14,4	-1,2	-0,4	1,2	1,8	**-2,7**	14,4
N143	high max Wnd ;315° - EG_Ongunstig	**1,6**	**-1,6**	**-13,9**	0,2	-0,4	-2,3	14,1
N143	low max Wnd ;45° - EG_Gunstig	**-3,1**	**3,1**	**34,4**	**-0,9**	-0,1	**2,6**	**34,7**
N143	low max Wnd ;315° - EG_Gunstig	0,1	-0,2	-1,0	**0,3**	-0,4	-2,5	1,0

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N143	low max Wnd ;135° - EG_Gunstig	0,0	0,1	0,3	-0,3	**0,3**	2,2	0,3
N143	high max Wnd ;225° - EG_Ongunstig	0,1	-0,3	-1,1	0,3	**-0,4**	**-2,5**	1,2
N146	high max Wnd ;135° - EG_Ongunstig	**58,6**	**54,7**	**-1,2**	**-10,0**	**10,1**	2,3	80,1
N146	low max Wnd ;315° - EG_Gunstig	**-124,8**	**-120,5**	**1,0**	**18,6**	**-18,7**	**-2,6**	**173,5**
N146	high max Wnd ;45° - EG_Ongunstig	11,2	-0,1	-0,9	-1,3	1,6	**2,7**	11,2
1XY	high max Wnd ;135° - EG_Ongunstig	**74,9**	**69,7**	**2,9**	**-10,2**	**10,4**	2,3	102,4
1XY	low max Wnd ;315° - EG_Gunstig	**-154,4**	**-148,5**	**-7,0**	**18,7**	**-19,0**	**-2,6**	**214,3**
1XY	high max Wnd ;45° - EG_Ongunstig	14,4	1,2	-0,4	-1,2	1,8	**2,7**	14,5
N148	high max Wnd ;135° - EG_Ongunstig	**1,5**	**1,6**	**-14,0**	-0,2	-0,4	2,2	14,2
N148	low max Wnd ;45° - EG_Gunstig	0,1	0,2	-1,0	**-0,3**	-0,4	2,5	1,0
N148	high max Wnd ;45° - EG_Ongunstig	0,1	0,3	-1,1	-0,3	**-0,4**	**2,5**	1,2
N148	low max Wnd ;225° - EG_Gunstig	0,0	-0,1	0,3	0,3	**0,3**	-2,2	0,3
N148	low max Wnd ;315° - EG_Gunstig	**-3,1**	**-3,1**	**34,3**	**0,8**	-0,1	**-2,5**	**34,6**
N151	low max Wnd ;225° - EG_Gunstig	**127,4**	**-123,3**	**1,0**	**18,9**	**19,1**	2,6	**177,3**
N151	high max Wnd ;45° - EG_Ongunstig	**-59,5**	**55,7**	**-1,2**	**-10,1**	**-10,2**	-2,3	81,5
N151	high max Wnd ;135° - EG_Ongunstig	-11,2	0,1	-0,9	-1,3	-1,6	**-2,7**	11,2
N151	high max Wnd ;315° - EG_Ongunstig	107,1	-102,7	0,2	16,1	16,3	**2,8**	148,4
1X	low max Wnd ;225° - EG_Gunstig	**157,4**	**-151,8**	**-7,1**	**19,0**	**19,3**	2,6	**218,8**
1X	high max Wnd ;45° - EG_Ongunstig	**-76,1**	**70,9**	**3,0**	**-10,3**	**-10,6**	-2,4	104,1
1X	high max Wnd ;135° - EG_Ongunstig	-14,5	1,4	-0,4	-1,2	-1,8	**-2,7**	14,6
1X	high max Wnd ;315° - EG_Ongunstig	132,9	-126,8	-6,7	16,2	16,5	**2,8**	183,9
N153	low max Wnd ;225° - EG_Gunstig	**3,1**	**-3,1**	**35,1**	**0,8**	0,1	2,4	**35,4**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N153	high max Wnd ;45° - EG_Ongunstig	**-1,6**	**1,7**	**-14,3**	-0,2	0,4	-2,2	14,5
N153	low max Wnd ;315° - EG_Gunstig	0,0	-0,1	0,3	0,3	**-0,3**	2,3	0,3
N153	high max Wnd ;135° - EG_Ongunstig	-0,1	0,3	-1,1	**-0,3**	**0,4**	**-2,5**	1,2
N153	high max Wnd ;315° - EG_Ongunstig	2,6	-2,6	28,5	0,7	-0,1	**2,6**	28,8
N155	low max Wnd ;225° - EG_Gunstig	**124,5**	**-120,4**	**0,8**	**18,9**	**19,1**	2,6	**173,2**
N155	high max Wnd ;45° - EG_Ongunstig	**-56,9**	**53,1**	**-1,1**	**-10,1**	**-10,3**	-2,3	77,8
N155	high max Wnd ;135° - EG_Ongunstig	-8,2	-3,0	-0,6	-1,3	-1,6	**-2,7**	8,7
N155	high max Wnd ;315° - EG_Ongunstig	104,0	-99,5	0,0	16,1	16,3	**2,8**	144,0
N156	low max Wnd ;225° - EG_Gunstig	**130,3**	**-126,2**	**1,1**	**19,0**	**19,1**	2,6	**181,4**
N156	high max Wnd ;45° - EG_Ongunstig	**-62,2**	**58,3**	**-1,3**	**-10,2**	**-10,2**	-2,3	85,3
N156	high max Wnd ;135° - EG_Ongunstig	-14,2	3,1	-1,1	-1,4	-1,6	**-2,7**	14,6
N156	high max Wnd ;315° - EG_Ongunstig	110,3	-105,8	0,3	16,2	16,3	**2,8**	152,8
N159	high max Wnd ;315° - EG_Ongunstig	**0,1**	**0,0**	0,1	-0,3	-0,3	**2,8**	0,1
N159	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	**-0,1**	**0,1**	**0,2**	-2,3	0,2
N159	low max Wnd ;225° - EG_Gunstig	0,0	0,0	**0,5**	**-0,3**	**-0,3**	2,6	**0,5**
N159	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,7**	0,1
N160	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	0,0	-0,2	-0,3	**2,8**	0,1
N160	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	**-0,1**	**0,1**	**0,1**	-2,3	0,2
N160	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	**0,4**	**-0,3**	**-0,3**	2,6	**0,4**
N160	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,7**	0,1
N165	high max Wnd ;135° - EG_Ongunstig	**56,0**	**52,1**	**-1,1**	**-10,0**	**10,1**	2,3	76,5
N165	low max Wnd ;315° - EG_Gunstig	**-121,9**	**-117,6**	**0,8**	**18,6**	**-18,7**	**-2,6**	**169,4**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N165	high max Wnd ;45° - EG_Ongunstig	8,2	-3,1	-0,6	-1,3	1,6	**2,7**	8,8
N166	high max Wnd ;135° - EG_Ongunstig	**61,2**	**57,3**	**-1,2**	**-10,0**	**10,1**	2,3	83,8
N166	low max Wnd ;315° - EG_Gunstig	**-127,8**	**-123,5**	**1,1**	**18,6**	**-18,7**	**-2,6**	**177,7**
N166	high max Wnd ;45° - EG_Ongunstig	14,2	2,9	-1,1	-1,3	1,5	**2,7**	14,5
N167	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**0,0**	0,1	-0,3	0,3	-2,6	0,1
N167	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	**-0,1**	**0,1**	**-0,2**	2,3	0,2
N167	low max Wnd ;315° - EG_Gunstig	0,0	0,0	**0,5**	**-0,3**	**0,3**	**-2,6**	**0,5**
N167	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,7**	0,1
N168	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	0,0	-0,3	0,3	-2,6	0,1
N168	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	**-0,1**	**0,1**	**-0,1**	2,3	0,2
N168	low max Wnd ;315° - EG_Gunstig	-0,1	-0,1	**0,3**	**-0,3**	**0,3**	**-2,6**	**0,4**
N168	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,7**	0,1
N169	low max Wnd ;135° - EG_Gunstig	**124,3**	**120,4**	**0,8**	**-18,9**	**19,1**	-2,4	**173,0**
N169	high max Wnd ;225° - EG_Ongunstig	**-56,7**	**-52,9**	**-1,1**	**10,1**	**-10,2**	2,2	77,5
N169	high max Wnd ;135° - EG_Ongunstig	104,4	100,0	0,1	-16,2	16,3	**-2,7**	144,6
N169	high max Wnd ;315° - EG_Ongunstig	-8,2	3,0	-0,6	1,3	-1,6	**2,7**	8,7
N170	low max Wnd ;135° - EG_Gunstig	**129,7**	**125,8**	**1,1**	**-18,9**	**19,0**	-2,4	**180,7**
N170	high max Wnd ;225° - EG_Ongunstig	**-61,7**	**-57,9**	**-1,3**	**10,1**	**-10,2**	2,2	84,6
N170	high max Wnd ;135° - EG_Ongunstig	110,4	106,0	0,3	-16,2	16,3	**-2,6**	153,1
N170	high max Wnd ;315° - EG_Ongunstig	-14,1	-3,0	-1,1	1,3	-1,6	**2,7**	14,5
N171	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,1**	**-0,1**	**0,2**	2,2	0,2
N171	low max Wnd ;135° - EG_Gunstig	0,0	0,0	**0,5**	**0,3**	**-0,3**	-2,4	**0,5**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N171	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	0,1	0,3	-0,3	**-2,6**	0,1
N171	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,7**	0,1
N172	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,1**	**-0,1**	**0,1**	2,2	0,2
N172	low max Wnd ;135° - EG_Gunstig	0,1	0,1	**0,4**	**0,3**	**-0,3**	-2,4	**0,4**
N172	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	0,0	0,3	-0,3	**-2,7**	0,1
N172	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,7**	0,1
N173	high max Wnd ;315° - EG_Ongunstig	**55,6**	**-51,7**	**-1,1**	**9,9**	**10,1**	-2,4	76,0
N173	low max Wnd ;45° - EG_Gunstig	**-122,1**	**117,7**	**0,8**	**-18,6**	**-18,8**	**2,8**	**169,6**
N173	high max Wnd ;225° - EG_Ongunstig	8,1	3,1	-0,6	1,3	1,6	**-2,7**	8,7
N174	high max Wnd ;315° - EG_Ongunstig	**61,0**	**-57,1**	**-1,2**	**10,0**	**10,0**	-2,4	83,5
N174	low max Wnd ;45° - EG_Gunstig	**-128,4**	**123,9**	**1,1**	**-18,7**	**-18,8**	**2,8**	**178,4**
N174	high max Wnd ;225° - EG_Ongunstig	14,2	-2,9	-1,1	1,3	1,5	**-2,7**	14,5
N175	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,0**	0,1	0,3	0,3	2,7	0,2
N175	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	**-0,1**	**-0,1**	**-0,1**	-2,4	0,2
N175	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,7**	0,1
N175	low max Wnd ;45° - EG_Gunstig	0,0	0,0	**0,5**	**0,3**	**0,3**	**2,8**	**0,5**
N176	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	0,0	0,3	0,3	2,7	0,1
N176	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	**-0,1**	**-0,1**	**-0,1**	-2,4	0,2
N176	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,7**	0,1
N176	low max Wnd ;45° - EG_Gunstig	-0,1	0,1	**0,3**	**0,3**	**0,3**	**2,8**	**0,4**
N202	low max Wnd ;135° - EG_Gunstig	**127,0**	**123,1**	**1,0**	**-18,9**	**19,0**	-2,4	**176,9**
N202	high max Wnd ;225° - EG_Ongunstig	**-59,2**	**-55,4**	**-1,4**	**10,1**	**-10,2**	2,2	81,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N202	high max Wnd ;135° - EG_Ongunstig	107,4	103,0	0,2	-16,2	16,3	**-2,7**	148,8
N202	high max Wnd ;315° - EG_Ongunstig	-10,9	0,3	-1,0	1,3	-1,5	**2,6**	10,9
1P2	low max Wnd ;135° - EG_Gunstig	**157,0**	**151,6**	**-7,1**	**-19,0**	**19,3**	-2,4	**218,3**
1P2	high max Wnd ;225° - EG_Ongunstig	**-75,6**	**-70,6**	**2,8**	**10,3**	**-10,5**	2,2	103,5
1P2	high max Wnd ;135° - EG_Ongunstig	133,3	127,3	-6,7	-16,2	16,5	**-2,7**	184,4
1P2	high max Wnd ;315° - EG_Ongunstig	-14,1	-1,0	-0,5	1,2	-1,8	**2,6**	14,2
N203	high max Wnd ;225° - EG_Ongunstig	**-1,6**	**-1,7**	**-14,3**	0,2	0,4	2,1	14,5
N203	low max Wnd ;135° - EG_Gunstig	**3,1**	**3,2**	**35,1**	**-0,8**	0,2	-2,3	**35,3**
N203	low max Wnd ;45° - EG_Gunstig	0,0	0,1	0,3	-0,3	**-0,3**	-2,3	0,3
N203	high max Wnd ;135° - EG_Ongunstig	2,6	2,7	28,6	-0,7	0,0	**-2,5**	28,9
N203	high max Wnd ;315° - EG_Ongunstig	-0,1	-0,3	-1,1	**0,3**	**0,4**	**2,5**	1,2
N204	high max Wnd ;315° - EG_Ongunstig	**58,3**	**-54,3**	**-1,4**	**9,9**	**10,0**	-2,4	79,7
N204	low max Wnd ;45° - EG_Gunstig	**-125,3**	**120,8**	**1,0**	**-18,6**	**-18,8**	**2,8**	**174,0**
N204	high max Wnd ;225° - EG_Ongunstig	10,9	0,4	-1,0	1,2	1,5	**-2,6**	10,9
1Y2	high max Wnd ;315° - EG_Ongunstig	**74,6**	**-69,3**	**2,8**	**10,1**	**10,4**	-2,4	101,8
1Y2	low max Wnd ;45° - EG_Gunstig	**-154,9**	**148,8**	**-7,0**	**-18,7**	**-19,0**	**2,8**	**214,9**
1Y2	high max Wnd ;225° - EG_Ongunstig	14,1	-0,8	-0,5	1,1	1,8	**-2,7**	14,1
N205	high max Wnd ;315° - EG_Ongunstig	**1,6**	**-1,6**	**-14,0**	0,2	-0,4	-2,2	14,2
N205	low max Wnd ;45° - EG_Gunstig	**-3,1**	**3,1**	**34,5**	**-0,8**	-0,1	**2,6**	**34,7**
N205	low max Wnd ;315° - EG_Gunstig	0,1	-0,3	-1,0	**0,3**	-0,4	-2,5	1,0
N205	low max Wnd ;135° - EG_Gunstig	0,0	0,1	0,3	-0,3	**0,3**	2,2	0,3
N205	high max Wnd ;225° - EG_Ongunstig	0,1	-0,3	-1,1	0,3	**-0,4**	**-2,5**	1,2

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N206	high max Wnd ;135° - EG_Ongunstig	**58,6**	**54,7**	**-1,4**	**-10,0**	**10,1**	2,3	80,2
N206	low max Wnd ;315° - EG_Gunstig	**-124,8**	**-120,5**	**1,0**	**18,6**	**-18,7**	**-2,6**	**173,5**
N206	high max Wnd ;45° - EG_Ongunstig	10,9	-0,4	-1,0	-1,2	1,5	**2,6**	11,0
1XY2	high max Wnd ;135° - EG_Ongunstig	**75,0**	**69,7**	**2,8**	**-10,2**	**10,4**	2,3	102,4
1XY2	low max Wnd ;315° - EG_Gunstig	**-154,4**	**-148,5**	**-7,0**	**18,7**	**-19,0**	**-2,6**	**214,3**
1XY2	high max Wnd ;45° - EG_Ongunstig	14,1	0,8	-0,5	-1,1	1,8	**2,7**	14,2
N207	high max Wnd ;135° - EG_Ongunstig	**1,6**	**1,7**	**-14,1**	-0,2	-0,4	2,2	14,3
N207	low max Wnd ;45° - EG_Gunstig	0,1	0,3	-1,0	**-0,3**	-0,4	2,5	1,0
N207	high max Wnd ;45° - EG_Ongunstig	0,1	0,3	-1,1	-0,3	**-0,4**	**2,5**	1,2
N207	low max Wnd ;225° - EG_Gunstig	0,0	-0,1	0,3	0,3	**0,3**	-2,2	0,3
N207	low max Wnd ;315° - EG_Gunstig	**-3,1**	**-3,1**	**34,4**	**0,8**	-0,1	**-2,5**	**34,6**
N208	low max Wnd ;225° - EG_Gunstig	**127,5**	**-123,4**	**1,0**	**18,9**	**19,1**	2,6	**177,4**
N208	high max Wnd ;45° - EG_Ongunstig	**-59,5**	**55,6**	**-1,4**	**-10,1**	**-10,2**	-2,3	81,5
N208	high max Wnd ;135° - EG_Ongunstig	-10,9	-0,2	-1,0	-1,3	-1,5	**-2,6**	11,0
N208	high max Wnd ;315° - EG_Ongunstig	107,2	-102,7	0,2	16,1	16,3	**2,8**	148,4
1X2	low max Wnd ;225° - EG_Gunstig	**157,6**	**-151,9**	**-7,1**	**19,0**	**19,3**	2,6	**219,0**
1X2	high max Wnd ;45° - EG_Ongunstig	**-76,1**	**70,9**	**2,8**	**-10,3**	**-10,5**	-2,4	104,0
1X2	high max Wnd ;135° - EG_Ongunstig	-14,2	1,0	-0,5	-1,2	-1,8	**-2,7**	14,2
1X2	high max Wnd ;315° - EG_Ongunstig	133,0	-126,9	-6,7	16,2	16,5	**2,8**	183,9
N209	low max Wnd ;225° - EG_Gunstig	**3,1**	**-3,1**	**35,2**	**0,8**	0,1	2,4	**35,5**
N209	high max Wnd ;45° - EG_Ongunstig	**-1,6**	**1,7**	**-14,4**	-0,2	0,4	-2,2	14,6
N209	low max Wnd ;315° - EG_Gunstig	0,0	-0,1	0,3	0,3	**-0,3**	2,3	0,3

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N209	high max Wnd ;135° - EG_Ongunstig	-0,1	0,3	-1,1	**-0,3**	**0,4**	**-2,5**	1,2
N209	high max Wnd ;315° - EG_Ongunstig	2,6	-2,7	28,6	0,7	-0,1	**2,6**	28,8
N210	low max Wnd ;225° - EG_Gunstig	**124,6**	**-120,5**	**0,8**	**18,9**	**19,1**	2,6	**173,3**
N210	high max Wnd ;45° - EG_Ongunstig	**-56,9**	**53,0**	**-1,2**	**-10,1**	**-10,3**	-2,3	77,8
N210	high max Wnd ;135° - EG_Ongunstig	-8,0	-3,2	-0,7	-1,2	-1,5	**-2,6**	8,6
N210	high max Wnd ;315° - EG_Ongunstig	104,1	-99,6	0,0	16,1	16,3	**2,8**	144,0
N211	low max Wnd ;225° - EG_Gunstig	**130,4**	**-126,3**	**1,1**	**19,0**	**19,1**	2,6	**181,5**
N211	high max Wnd ;45° - EG_Ongunstig	**-62,1**	**58,3**	**-1,4**	**-10,2**	**-10,2**	-2,3	85,2
N211	high max Wnd ;135° - EG_Ongunstig	-13,9	2,7	-1,3	-1,3	-1,5	**-2,6**	14,2
N211	high max Wnd ;315° - EG_Ongunstig	110,3	-105,8	0,3	16,2	16,3	**2,8**	152,9
N212	high max Wnd ;315° - EG_Ongunstig	**0,1**	**0,0**	0,1	-0,3	-0,3	**2,8**	0,1
N212	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	**-0,3**	**0,1**	**0,2**	-2,3	0,3
N212	low max Wnd ;225° - EG_Gunstig	0,0	0,0	**0,5**	**-0,3**	**-0,3**	2,6	**0,5**
N212	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,3	0,0	0,0	**-2,6**	0,3
N213	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	0,0	-0,2	-0,3	**2,8**	0,1
N213	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	**-0,2**	**0,1**	**0,1**	-2,3	0,3
N213	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	**0,4**	**-0,3**	**-0,3**	2,6	**0,4**
N213	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,6**	0,1
N214	high max Wnd ;135° - EG_Ongunstig	**56,0**	**52,1**	**-1,2**	**-10,0**	**10,1**	2,3	76,6
N214	low max Wnd ;315° - EG_Gunstig	**-121,9**	**-117,6**	**0,8**	**18,6**	**-18,7**	**-2,6**	**169,4**
N214	high max Wnd ;45° - EG_Ongunstig	8,0	-3,3	-0,7	-1,2	1,5	**2,6**	8,7
N215	high max Wnd ;135° - EG_Ongunstig	**61,2**	**57,3**	**-1,4**	**-10,0**	**10,1**	2,3	83,8

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N215	low max Wnd ;315° - EG_Gunstig	**-127,8**	**-123,4**	**1,1**	**18,6**	**-18,7**	**-2,6**	**177,7**
N215	high max Wnd ;45° - EG_Ongunstig	13,9	2,5	-1,3	-1,3	1,5	**2,6**	14,2
N216	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**0,0**	0,1	-0,3	0,3	-2,6	0,2
N216	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	**-0,3**	**0,1**	**-0,2**	2,3	0,3
N216	low max Wnd ;315° - EG_Gunstig	0,0	0,0	**0,5**	**-0,3**	**0,3**	**-2,6**	**0,5**
N216	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,3	0,0	0,0	**2,6**	0,3
N217	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	0,0	-0,3	0,3	-2,6	0,1
N217	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	**-0,2**	**0,1**	**-0,1**	2,3	0,3
N217	low max Wnd ;315° - EG_Gunstig	-0,1	-0,1	**0,4**	**-0,3**	**0,3**	**-2,6**	**0,4**
N217	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,6**	0,1
N218	low max Wnd ;135° - EG_Gunstig	**124,3**	**120,4**	**0,8**	**-18,9**	**19,1**	-2,4	**173,1**
N218	high max Wnd ;225° - EG_Ongunstig	**-56,7**	**-52,9**	**-1,2**	**10,1**	**-10,2**	2,2	77,5
N218	high max Wnd ;135° - EG_Ongunstig	104,4	100,0	0,0	-16,2	16,3	**-2,7**	144,6
N218	high max Wnd ;315° - EG_Ongunstig	-8,0	3,2	-0,7	1,2	-1,5	**2,6**	8,6
N219	low max Wnd ;135° - EG_Gunstig	**129,7**	**125,8**	**1,1**	**-18,9**	**19,0**	-2,4	**180,7**
N219	high max Wnd ;225° - EG_Ongunstig	**-61,7**	**-57,9**	**-1,4**	**10,1**	**-10,2**	2,2	84,6
N219	high max Wnd ;135° - EG_Ongunstig	110,4	106,0	0,3	-16,2	16,3	**-2,6**	153,1
N219	high max Wnd ;315° - EG_Ongunstig	-13,8	-2,7	-1,3	1,3	-1,5	**2,6**	14,1
N220	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,3**	**-0,1**	**0,2**	2,2	0,3
N220	low max Wnd ;135° - EG_Gunstig	0,0	0,0	**0,5**	**0,3**	**-0,3**	-2,4	**0,5**
N220	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	0,1	0,3	-0,3	**-2,6**	0,1
N220	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,3	0,0	0,0	**2,6**	0,3

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N221	high max Wnd ;225° - EG_Ongunstig	**-0,1**	**-0,1**	**-0,2**	**-0,1**	**0,1**	2,2	0,3
N221	low max Wnd ;135° - EG_Gunstig	0,1	0,1	**0,4**	**0,3**	**-0,3**	-2,4	**0,4**
N221	high max Wnd ;135° - EG_Ongunstig	**0,1**	**0,1**	0,0	0,3	-0,3	**-2,7**	0,1
N221	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**2,6**	0,1
N222	high max Wnd ;315° - EG_Ongunstig	**55,6**	**-51,7**	**-1,2**	**9,9**	**10,1**	-2,4	76,0
N222	low max Wnd ;45° - EG_Gunstig	**-122,2**	**117,7**	**0,8**	**-18,6**	**-18,8**	**2,8**	**169,6**
N222	high max Wnd ;225° - EG_Ongunstig	8,0	3,3	-0,7	1,2	1,5	**-2,6**	8,7
N223	high max Wnd ;315° - EG_Ongunstig	**60,9**	**-57,0**	**-1,4**	**10,0**	**10,0**	-2,3	83,5
N223	low max Wnd ;45° - EG_Gunstig	**-128,4**	**123,9**	**1,1**	**-18,7**	**-18,7**	**2,8**	**178,4**
N223	high max Wnd ;225° - EG_Ongunstig	13,8	-2,5	-1,3	1,3	1,5	**-2,6**	14,1
N224	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,0**	0,1	0,3	0,3	2,7	0,2
N224	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	**-0,3**	**-0,1**	**-0,1**	-2,3	0,3
N224	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,3	0,0	0,0	**-2,6**	0,3
N224	low max Wnd ;45° - EG_Gunstig	0,0	0,0	**0,5**	**0,3**	**0,3**	**2,8**	**0,5**
N225	high max Wnd ;45° - EG_Ongunstig	**-0,1**	**0,1**	0,0	0,3	0,3	2,7	0,1
N225	high max Wnd ;315° - EG_Ongunstig	**0,1**	**-0,1**	**-0,2**	**-0,1**	**-0,1**	-2,4	0,3
N225	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-2,6**	0,1
N225	low max Wnd ;45° - EG_Gunstig	-0,1	0,1	**0,4**	**0,3**	**0,3**	**2,8**	**0,4**

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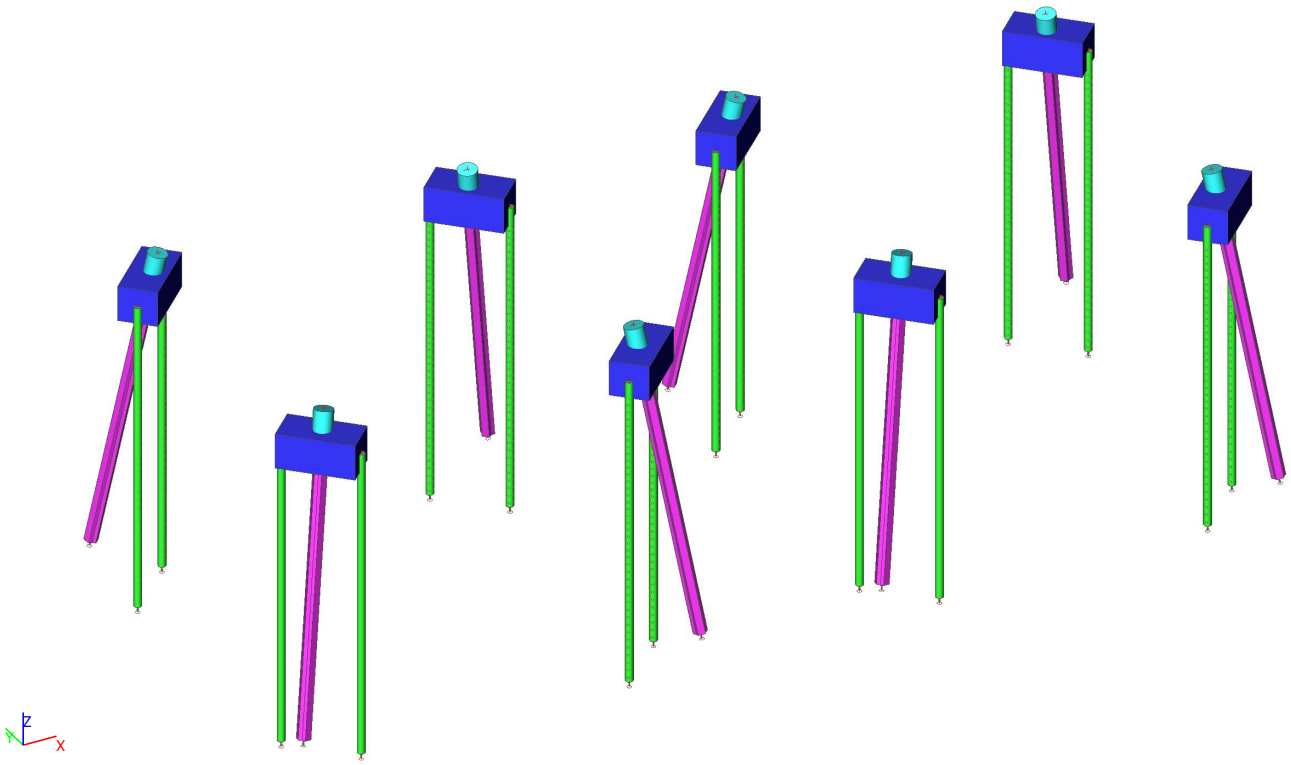
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2. Project

Licence user	[redacted]
Project	De Ronde Venen 380kV
Part	Cilinder 75 + palen S +0 mast 134
Author	[redacted]
Date	11-05-2026
Structure	General XYZ
No. of nodes :	56
No. of beams :	40
No. of slabs :	0
No. of solids :	0
No. of used profiles :	4
No. of load cases :	9
No. of used materials :	8
Acceleration of gravity [m/s^2]	9,807
National code	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materials

Steel EC3

Name	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Colour
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	

Name	Type	ρ [kg/m³]	Density in fresh state [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Colour
C12/15 Gescheurd	Concrete	2500,00	2600,00	9,0000e+03	0,23	0,01e-003	12,00	
C30/37 Gescheurd	Concrete	2500,00	2600,00	1,1000e+04	0,20	0,01e-003	30,00	
C30/37	Concrete	1500,00	2600,00	1,0900e+04	0,20	0,01e-003	30,00	
C12/15 Gescheurd	Concrete	1500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	

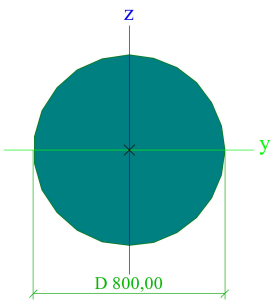
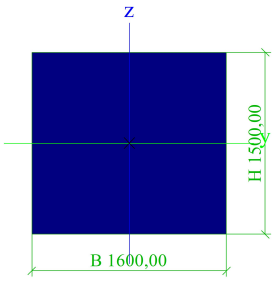
Explanations of symbols	
Density in fresh state	The value in the density in fresh state property is used only in case a composite deck is input and its self-weight load is taken into account.

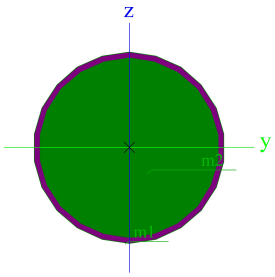
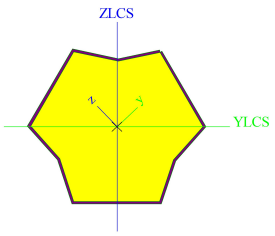
Reinforcement EC2

Name	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 400A	Reinforcement steel	7850,00	2,0000e+05	8,3333e+04	0,01e-003	400,0

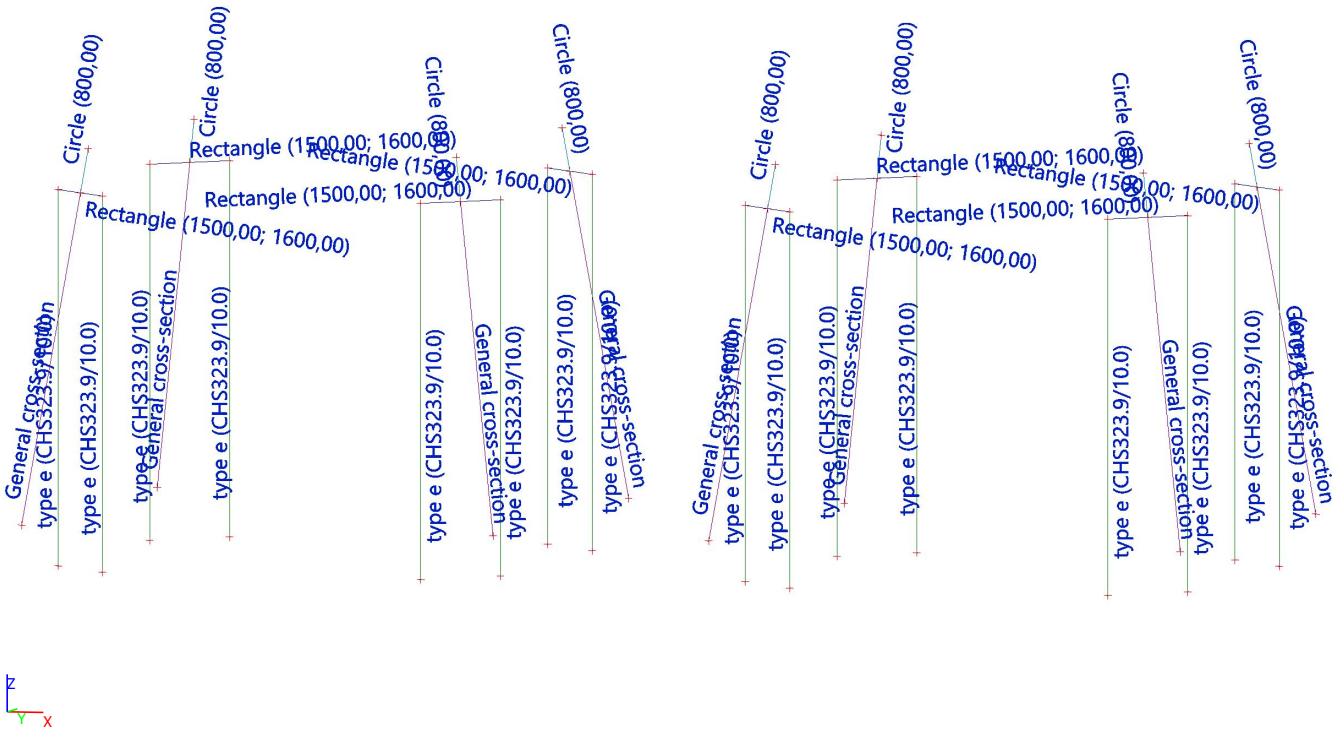
4.2. Cross-sections

Poer800		
Type	Circle	
Detailed	800,00	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
Fabrication	general	
Colour		
A [mm²]	5,0265e+05	
A_y [mm²], A_z [mm²]	4,5239e+05	4,5239e+05
A_L [m²/m], A_D [m²/m]	2,5131e+00	2,5131e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	400,00	400,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	2,0106e+10	2,0106e+10
i_y [mm], i_z [mm]	199,98	199,98
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,0265e+07	5,0265e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	8,5333e+07	8,5333e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	4,0212e+10	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00

Picture		
lijnpoer		
Type	Rectangle	
Detailed	1500,00; 1600,00	
Shape type	Thick-walled	
Item material	C30/37 Gescheurd	
Fabrication	concrete	
Colour		
A [mm²]	2,4000e+06	
A_y [mm²], A_z [mm²]	2,0007e+06	2,0008e+06
A_L [m²/m], A_D [m²/m]	6,2000e+00	6,2000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	800,00	750,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	4,5000e+11	5,1200e+11
i_y [mm], i_z [mm]	433,01	461,88
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	6,0000e+08	6,4000e+08
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	8,0849e+11	2,2447e+15
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LEKA Paal		
Type	type e	
Detailed	CHS323.9/10.0	
Shape type	Thick-walled	
Item material	S 235	
	C30/37	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	a	a
A [mm²]	1,3624e+04	
A_y [mm²], A_z [mm²]	9,1187e+03	9,1187e+03
A_L [m²/m], A_D [m²/m]	1,0175e+00	1,0175e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	161,95	161,95
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	1,4326e+08	1,4326e+08
i_y [mm], i_z [mm]	102,54	102,54
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	8,8458e+05	8,8458e+05
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	1,1479e+06	1,1479e+06
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	269749430,18	269749430,18

$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	269749430,18	269749430,18
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	2,9003e+08	2,9935e+04
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LD1(31-plank)		
Type	General cross-section	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
	S 235	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	d	d
A [mm²]	6,0572e+05	
A_y [mm²], A_z [mm²]	3,6248e+05	3,6314e+05
A_L [m²/m], A_D [m²/m]	1,7651e+00	3,4664e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	553,25	9,99
$I_{Y.LCS}$ [mm⁴], $I_{Z.LCS}$ [mm⁴]	1,6274e+10	1,6264e+10
$I_{YZ.LCS}$ [mm⁴]	-1,0231e+08	
α [deg]	43,55	
I_y [mm⁴], I_z [mm⁴]	1,6372e+10	1,6167e+10
i_y [mm], i_z [mm]	164,40	163,37
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,7898e+07	5,8163e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	4,9594e+07	4,9245e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	601215312,58	595125922,92
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	597037111,16	590937542,96
d_y [mm], d_z [mm]	0,12	0,03
I_t [mm⁴], I_w [mm⁶]	2,6243e+10	1,7700e+12
β_y [mm], β_z [mm]	0,09	0,21
Picture		

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Mesh setup

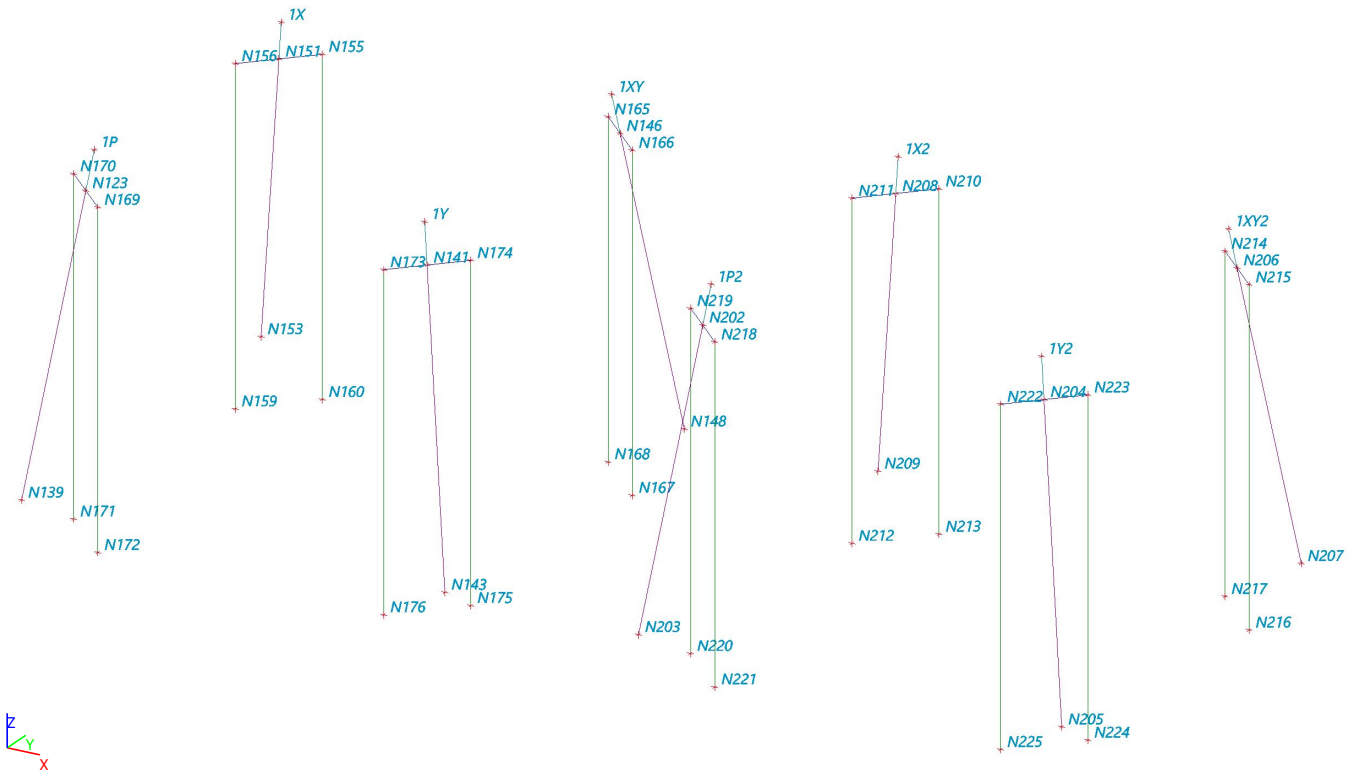
Name	MeshSetup1
Generation of variable eccentricities on members instead of constant ones	×
Generation of nodes in connections of beam elements	×
Elastic mesh	✓
Use automatic mesh refinement	×
Connect members/nodes	✓
Division on haunches and arbitrary members	5
Division for integration strip and 2D-1D upgrade	50
Average number of 1D mesh elements on straight 1D members	1
Average size of 2D mesh element [m]	0,200
Average size of 1D mesh element on curved 1D members [m]	0,100
Minimal length of beam element [m]	0,100
Maximal length of beam element [m]	1000,000
Average size of tendons, elements on subsoil, nonlinear soil spring [m]	1,000
Maximal out of plane angle of a quadrilateral [mrad]	30,0
Minimal distance between definition point and line [m]	0,001
Average size of panel element [m]	1,000
Mesh refinement following the beam type	None
Definition of mesh element size for panels	Manual

5. Geometrie

5.1. Nodes

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N123	-0,427	-0,433	-0,250
1P	-0,209	-0,212	1,279
N139	-2,089	-2,097	-11,800
N141	13,399	-0,433	-0,250
1Y	13,181	-0,212	1,279
N143	15,061	-2,097	-11,800
N146	13,399	13,405	-0,250
1XY	13,181	13,184	1,279
N148	15,061	15,069	-11,800
N151	-0,427	13,405	-0,250
1X	-0,209	13,184	1,279
N153	-2,089	15,069	-11,800
N155	0,693	14,525	-0,250
N156	-1,560	12,272	-0,250
N159	-1,560	12,272	-13,430
N160	0,693	14,525	-13,430
N165	12,279	14,525	-0,250
N166	14,532	12,272	-0,250
N167	14,532	12,272	-13,430
N168	12,279	14,525	-13,430
N169	0,693	-1,553	-0,250
N170	-1,560	0,700	-0,250
N171	-1,560	0,700	-13,430
N172	0,693	-1,553	-13,430
N173	12,279	-1,553	-0,250
N174	14,532	0,700	-0,250
N175	14,532	0,700	-13,430
N176	12,279	-1,553	-13,430
N202	24,573	-0,433	-0,250
1P2	24,791	-0,212	1,279
N203	22,911	-2,097	-11,800
N204	38,399	-0,433	-0,250
1Y2	38,181	-0,212	1,279
N205	40,061	-2,097	-11,800
N206	38,399	13,405	-0,250
1XY2	38,181	13,184	1,279
N207	40,061	15,069	-11,800
N208	24,573	13,405	-0,250
1X2	24,791	13,184	1,279
N209	22,911	15,069	-11,800
N210	25,693	14,525	-0,250
N211	23,440	12,272	-0,250
N212	23,440	12,272	-13,430
N213	25,693	14,525	-13,430
N214	37,279	14,525	-0,250
N215	39,532	12,272	-0,250
N216	39,532	12,272	-13,430
N217	37,279	14,525	-13,430
N218	25,693	-1,553	-0,250
N219	23,440	0,700	-0,250
N220	23,440	0,700	-13,430
N221	25,693	-1,553	-13,430
N222	37,279	-1,553	-0,250
N223	39,532	0,700	-0,250
N224	39,532	0,700	-13,430
N225	37,279	-1,553	-13,430

5.2. Analyse model met knopen

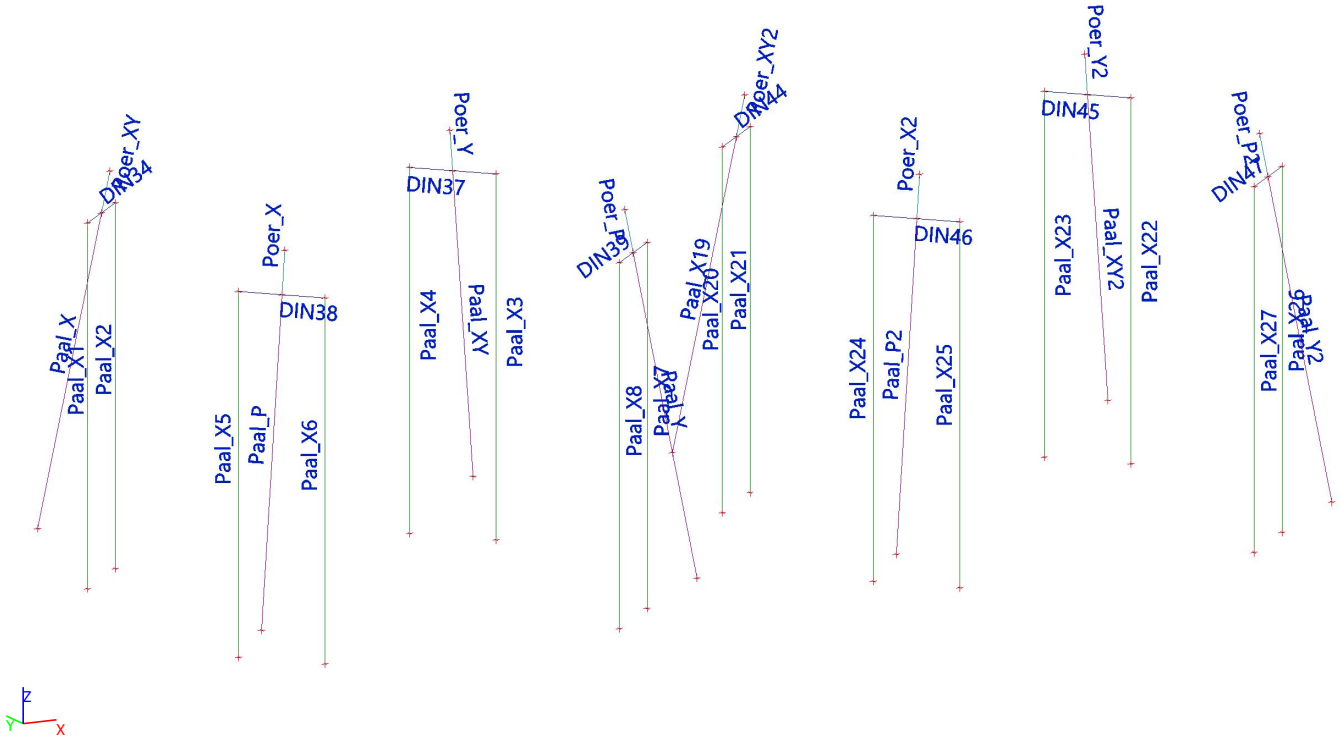


5.3. Members

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
DIN34	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N156	N155	beam (80)
DIN37	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N166	N165	beam (80)
DIN38	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N170	N169	beam (80)
DIN39	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N174	N173	beam (80)
DIN44	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N211	N210	beam (80)
DIN45	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N215	N214	beam (80)
DIN46	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N219	N218	beam (80)
DIN47	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N223	N222	beam (80)
Paal_P	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N123	N139	column (100)
Paal_P2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N202	N203	column (100)
Paal_X	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N151	N153	column (100)
Paal_X1	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N156	N159	column (100)
Paal_X2	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N155	N160	column (100)
Paal_X3	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N166	N167	column (100)
Paal_X4	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N165	N168	column (100)
Paal_X5	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N170	N171	column (100)
Paal_X6	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N169	N172	column (100)
Paal_X7	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N174	N175	column (100)
Paal_X8	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N173	N176	column (100)
Paal_X19	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N208	N209	column (100)
Paal_X20	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N211	N212	column (100)
Paal_X21	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N210	N213	column (100)
Paal_X22	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N215	N216	column (100)
Paal_X23	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N214	N217	column (100)
Paal_X24	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N219	N220	column (100)
Paal_X25	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N218	N221	column (100)
Paal_X26	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N223	N224	column (100)
Paal_X27	LEKA Paal - type e (CHS323.9/10.0)	S 235	13,180	N222	N225	column (100)
Paal_XY	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N146	N148	column (100)

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
Paal_XY2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N206	N207	column (100)
Paal_Y	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N141	N143	column (100)
Paal_Y2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	11,787	N204	N205	column (100)
Poer_P	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N141	1Y	column (100)
Poer_P2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N204	1Y2	column (100)
Poer_X	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N123	1P	column (100)
Poer_X2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N202	1P2	column (100)
Poer_XY	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N151	1X	column (100)
Poer_XY2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N208	1X2	column (100)
Poer_Y	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N146	1XY	column (100)
Poer_Y2	Poer800 - Circle (800,00)	C12/15 Gescheurd	1,560	N206	1XY2	column (100)

5.4. Analyse model met Staven

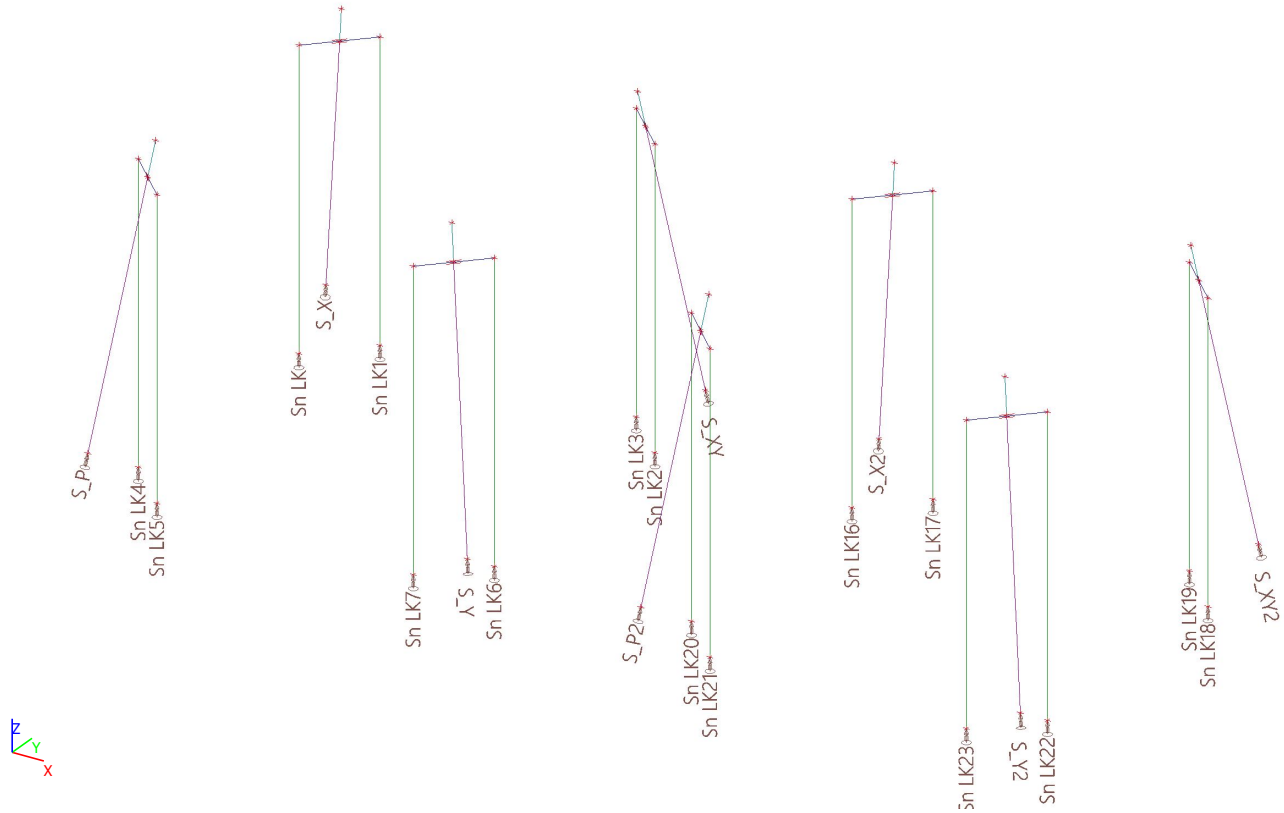


5.5. Nodal supports

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
S_P	N139	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y	N143	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY	N148	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X	N153	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11
Sn [redacted]	N159	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK1	N160	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK2	N167	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK3	N168	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK4	N171	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK5	N172	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK6	N175	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK7	N176	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
S_P2	N203	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y2	N205	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY2	N207	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X2	N209	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
Sn LK16	N212	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK17	N213	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK18	N216	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK19	N217	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK20	N220	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK21	N221	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK22	N224	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK23	N225	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	

5.6. Analyse model met Knoopondersteuningen



5.7. Line supports on member

Name	Type	Member	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
Veen3	Line	Paal_XY2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen18	Line	Paal_X24	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen7	Line	Paal_X3	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen17	Line	Paal_X23	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Line	Paal_X25	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen13	Line	Paal_X19	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Line	Paal_X5	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen6	Line	Paal_X2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen2	Line	Paal_XY	1,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen

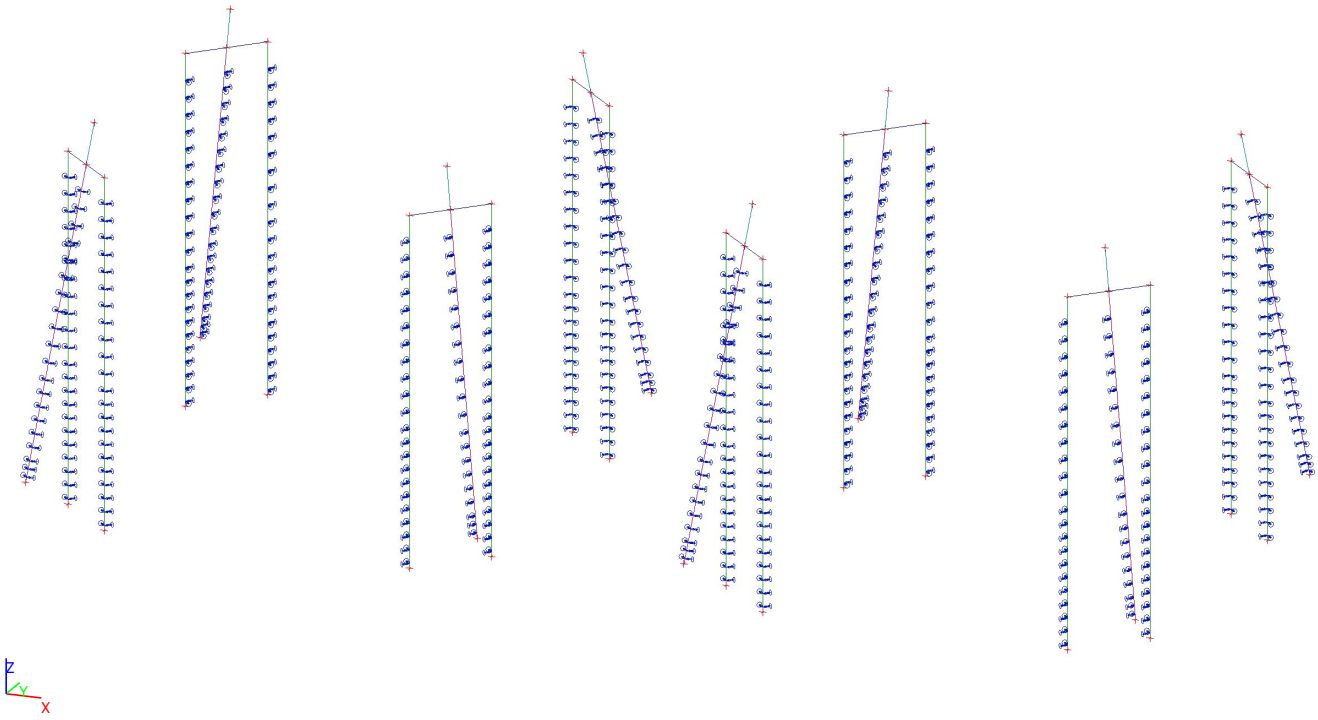
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			8,000								
Veen14	Line	Paal_X20	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen23	Line	Paal_Y2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen22	Line	Paal_Y	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Line	Paal_X1	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Line	Paal_X21	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen1	Line	Paal_P2	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen20	Line	Paal_X26	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Line	Paal_X8	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen	Line	Paal_P	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Line	Paal_X4	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Line	Paal_X27	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen10	Line	Paal_X6	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Line	Paal_X22	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Line	Paal_X	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Line	Paal_X7	1,000 8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_Veen	PY-curve-2_Veen
(PY-curve-2_V1)12	Line	Paal_X8	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)11	Line	Paal_X7	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)6	Line	Paal_X2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)17	Line	Paal_X23	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)18	Line	Paal_X24	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)10	Line	Paal_X6	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)22	Line	Paal_Y	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)8	Line	Paal_X4	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)21	Line	Paal_X27	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)15	Line	Paal_X21	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)	Line	Paal_P	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)5	Line	Paal_X1	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)13	Line	Paal_X19	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)14	Line	Paal_X20	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)16	Line	Paal_X22	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)2	Line	Paal_XY	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)3	Line	Paal_XY2	8,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			9,000								
(PY-curve-2_V1)9	Line	Paal_X5	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)23	Line	Paal_Y2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)20	Line	Paal_X26	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)1	Line	Paal_P2	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)7	Line	Paal_X3	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)19	Line	Paal_X25	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)4	Line	Paal_X	8,000 9,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V2)20	Line	Paal_X26	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)2	Line	Paal_XY	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)11	Line	Paal_X7	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)18	Line	Paal_X24	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)10	Line	Paal_X6	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)12	Line	Paal_X8	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)16	Line	Paal_X22	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)22	Line	Paal_Y	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)17	Line	Paal_X23	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)15	Line	Paal_X21	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)9	Line	Paal_X5	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)14	Line	Paal_X20	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)21	Line	Paal_X27	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)13	Line	Paal_X19	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)8	Line	Paal_X4	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)6	Line	Paal_X2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)3	Line	Paal_XY2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)	Line	Paal_P	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)5	Line	Paal_X1	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)23	Line	Paal_Y2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)19	Line	Paal_X25	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)4	Line	Paal_X	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)7	Line	Paal_X3	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)1	Line	Paal_P2	9,000 10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V3)19	Line	Paal_X25	10,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3

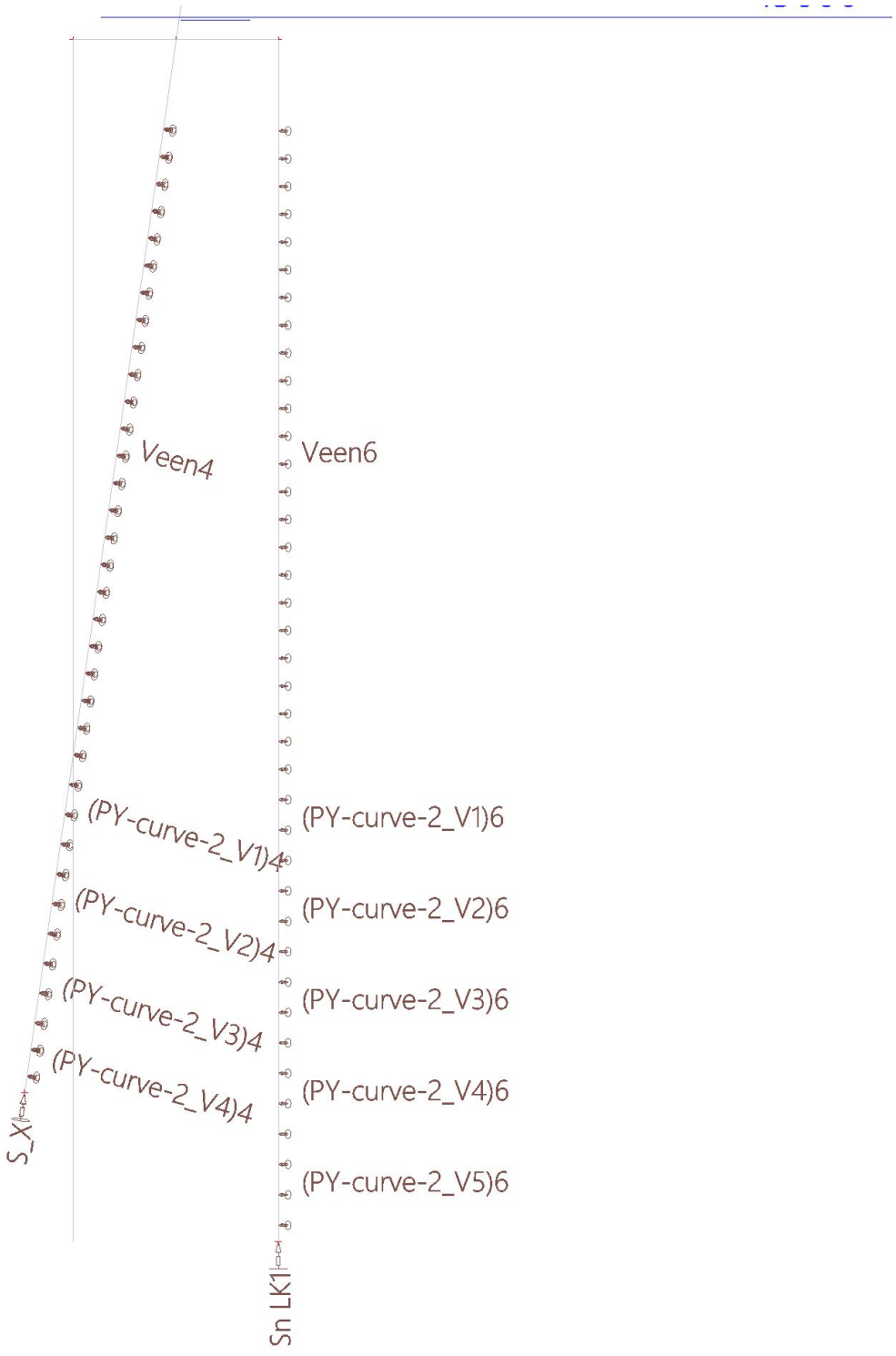
Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			11,000								
(PY-curve-2_V3)11	Line	Paal_X7	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)6	Line	Paal_X2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)18	Line	Paal_X24	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)10	Line	Paal_X6	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)22	Line	Paal_Y	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)16	Line	Paal_X22	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)5	Line	Paal_X1	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)15	Line	Paal_X21	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)9	Line	Paal_X5	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)17	Line	Paal_X23	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)14	Line	Paal_X20	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)13	Line	Paal_X19	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)8	Line	Paal_X4	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)	Line	Paal_P	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)3	Line	Paal_XY2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)4	Line	Paal_X	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)23	Line	Paal_Y2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)7	Line	Paal_X3	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)1	Line	Paal_P2	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)21	Line	Paal_X27	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)12	Line	Paal_X8	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)2	Line	Paal_XY	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)20	Line	Paal_X26	10,000 11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V4)13	Line	Paal_X19	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)4	Line	Paal_X	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)6	Line	Paal_X2	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)11	Line	Paal_X7	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)19	Line	Paal_X25	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)18	Line	Paal_X24	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)10	Line	Paal_X6	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)17	Line	Paal_X23	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)16	Line	Paal_X22	11,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4

Name	Type	Member	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Function Y	Function Z
			12,000								
(PY-curve-2_V4)5	Line	Paal_X1	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)9	Line	Paal_X5	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)15	Line	Paal_X21	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)14	Line	Paal_X20	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)8	Line	Paal_X4	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)7	Line	Paal_X3	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)12	Line	Paal_X8	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)21	Line	Paal_X27	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)20	Line	Paal_X26	11,000 12,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)22	Line	Paal_Y	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)	Line	Paal_P	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)3	Line	Paal_XY2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)23	Line	Paal_Y2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)1	Line	Paal_P2	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)2	Line	Paal_XY	11,000 11,600	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V5)11	Line	Paal_X7	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)19	Line	Paal_X25	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)18	Line	Paal_X24	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)10	Line	Paal_X6	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)17	Line	Paal_X23	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)5	Line	Paal_X1	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)16	Line	Paal_X22	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)9	Line	Paal_X5	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)15	Line	Paal_X21	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)14	Line	Paal_X20	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)8	Line	Paal_X4	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)7	Line	Paal_X3	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)12	Line	Paal_X8	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)21	Line	Paal_X27	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)6	Line	Paal_X2	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)20	Line	Paal_X26	12,000 13,000	Free	Nonlinear	Nonlinear	Free	Free	Free	PY-curve-2_V5	PY-curve-2_V5

5.8. Analyse model met Lijnondersteuningen



5.9. Analyse model met Lijnondersteuningen

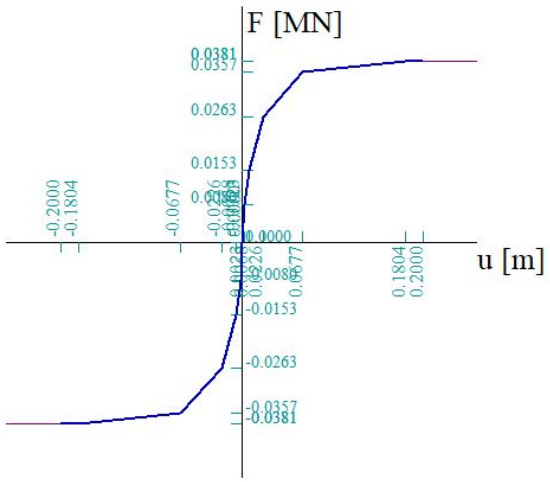




5.10. Nonlinear functions

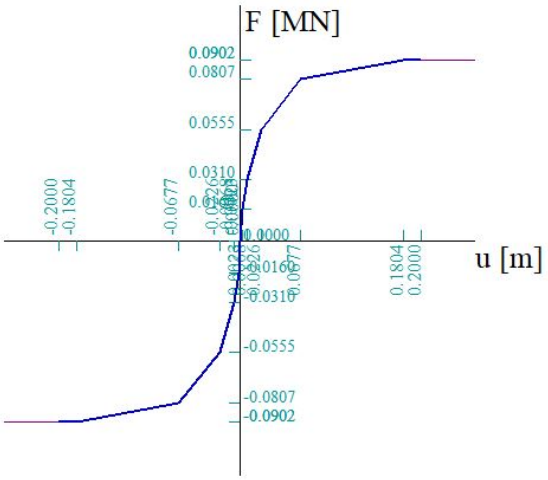
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V1	Translation	-0.200000 / -38100.000000	Free	Free
		-0.180400 / -38100.000000		
		-0.067650 / -35700.000000		
		-0.022550 / -26300.000000		
		-0.006765 / -15300.000000		
		-0.002255 / -8000.000000		
		0.000000 / 0.000000		
		0.002255 / 8000.000000		
		0.006765 / 15300.000000		
		0.022550 / 26300.000000		
		0.067650 / 35700.000000		
		0.180400 / 38100.000000		
		0.200000 / 38100.000000		

Drawing



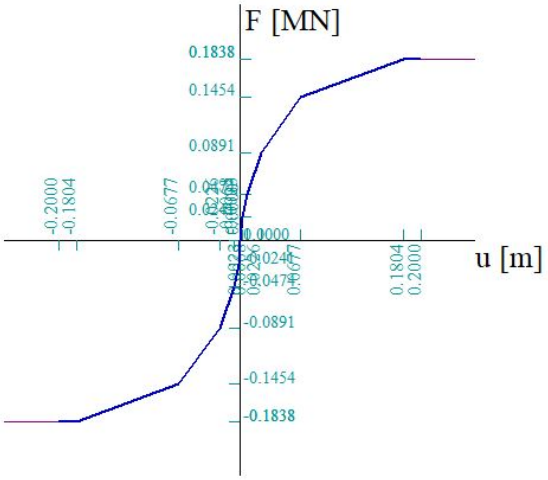
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V2	Translation	-0.200000 / -90200.000000	Free	Free
		-0.180400 / -90200.000000		
		-0.067650 / -80700.000000		
		-0.022550 / -55500.000000		
		-0.006765 / -31000.000000		
		-0.002255 / -16000.000000		
		0.000000 / 0.000000		
		0.002255 / 16000.000000		
		0.006765 / 31000.000000		
		0.022550 / 55500.000000		
		0.067650 / 80700.000000		
		0.180400 / 90200.000000		
		0.200000 / 90200.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V3	Translation	-0.200000 / -183800.000000	Free	Free
		-0.180400 / -183800.000000		
		-0.067650 / -145400.000000		
		-0.022550 / -89100.000000		
		-0.006765 / -47400.000000		
		-0.002255 / -24100.000000		
		0.000000 / 0.000000		
		0.002255 / 24100.000000		
		0.006765 / 47400.000000		
		0.022550 / 89100.000000		
		0.067650 / 145400.000000		
		0.180400 / 183800.000000		
		0.200000 / 183800.000000		

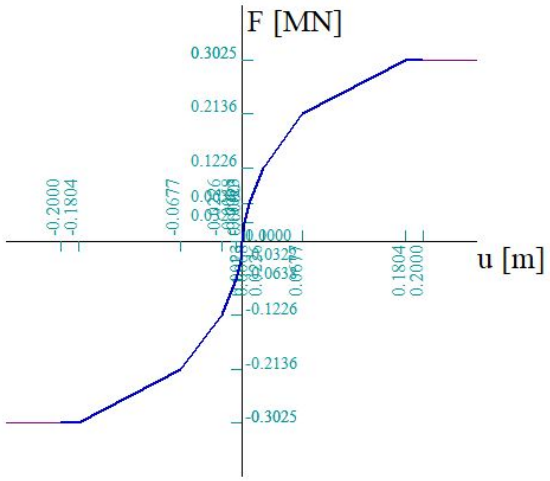
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V4	Translation	-0.200000 / -302500.000000	Free	Free
		-0.180400 / -302500.000000		
		-0.067650 / -213600.000000		
		-0.022550 / -122600.000000		
		-0.006765 / -63800.000000		
		-0.002255 / -32200.000000		
		0.000000 / 0.000000		
		0.002255 / 32200.000000		
		0.006765 / 63800.000000		
		0.022550 / 122600.000000		

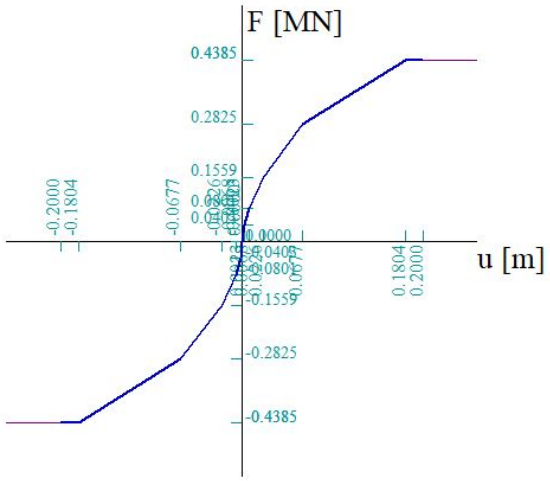
Name	Type	u / F	Positive end	Negative end
		0.067650 / 213600.000000		
		0.180400 / 302500.000000		
		0.200000 / 302500.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V5	Translation	-0.200000 / -438500.000000	Free	Free
		-0.180400 / -438500.000000		
		-0.067650 / -282500.000000		
		-0.022550 / -155900.000000		
		-0.006765 / -80100.000000		
		-0.002255 / -40300.000000		
		0.000000 / 0.000000		
		0.002255 / 40300.000000		
		0.006765 / 80100.000000		
		0.022550 / 155900.000000		
		0.067650 / 282500.000000		
		0.180400 / 438500.000000		
		0.200000 / 438500.000000		

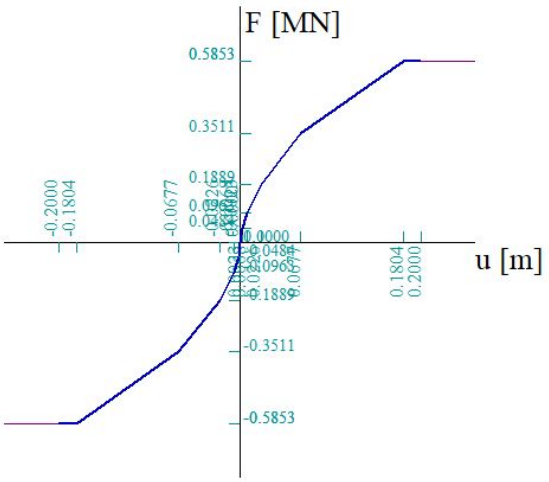
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V6	Translation	-0.200000 / -585300.000000	Free	Free
		-0.180400 / -585300.000000		
		-0.067650 / -351100.000000		
		-0.022550 / -188900.000000		

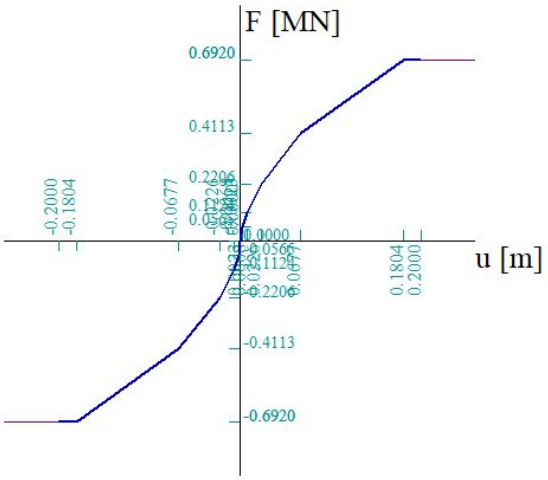
Name	Type	u / F	Positive end	Negative end
		-0.006765 / -96300.000000		
		-0.002255 / -48400.000000		
		0.000000 / 0.000000		
		0.002255 / 48400.000000		
		0.006765 / 96300.000000		
		0.022550 / 188900.000000		
		0.067650 / 351100.000000		
		0.180400 / 585300.000000		
		0.200000 / 585300.000000		

Drawing



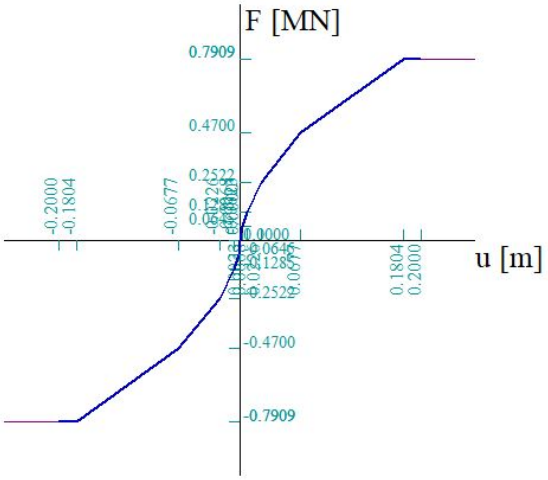
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V7	Translation	-0.200000 / -692000.000000	Free	Free
		-0.180400 / -692000.000000		
		-0.067650 / -411300.000000		
		-0.022550 / -220600.000000		
		-0.006765 / -112400.000000		
		-0.002255 / -56500.000000		
		0.000000 / 0.000000		
		0.002255 / 56500.000000		
		0.006765 / 112400.000000		
		0.022550 / 220600.000000		
		0.067650 / 411300.000000		
		0.180400 / 692000.000000		
		0.200000 / 692000.000000		

Drawing



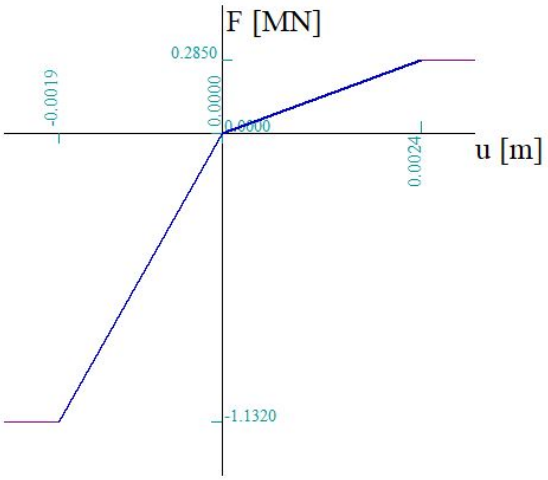
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V8	Translation	-0.200000 / -790900.000000	Free	Free
		-0.180400 / -790900.000000		
		-0.067650 / -470000.000000		
		-0.022550 / -252200.000000		
		-0.006765 / -128500.000000		
		-0.002255 / -64500.000000		
		0.000000 / 0.000000		
		0.002255 / 64500.000000		
		0.006765 / 128500.000000		
		0.022550 / 252200.000000		
		0.067650 / 470000.000000		
		0.180400 / 790900.000000		
		0.200000 / 790900.000000		

Drawing



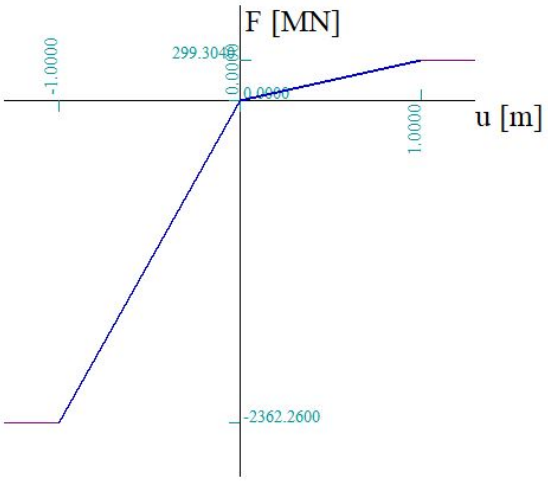
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt_B	Translation	-0.001930 / -1132000.000000	Free	Free
		0.000000 / 0.000000		
		0.002360 / 285000.000000		

Drawing



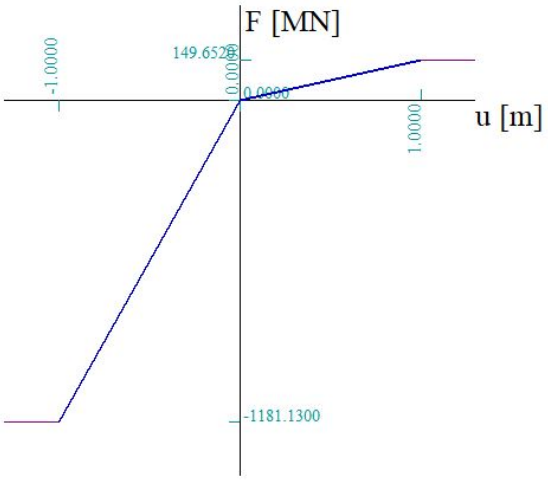
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt.LEKA.BG.	Translation	-1.000000 / -2362260000.000000	Free	Free
		0.000000 / 0.000000		
		1.000000 / 299304000.000000		

Drawing



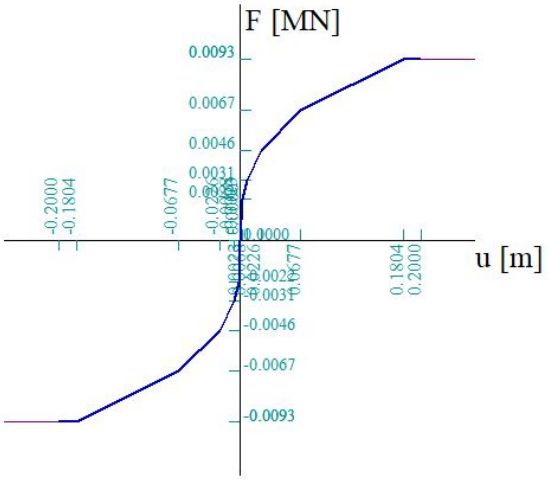
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt-LEKA.OG.	Translation	-1.000000 / -1181130000.000000	Free	Free
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		1.000000 / 149652000.000000		

Drawing



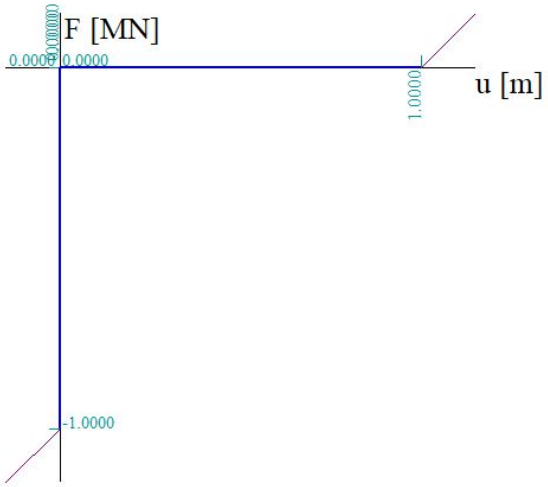
Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen	Translation	-0.200000 / -9265.000000	Free	Free
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		
		0.067650 / 6681.000000		
		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

Drawing



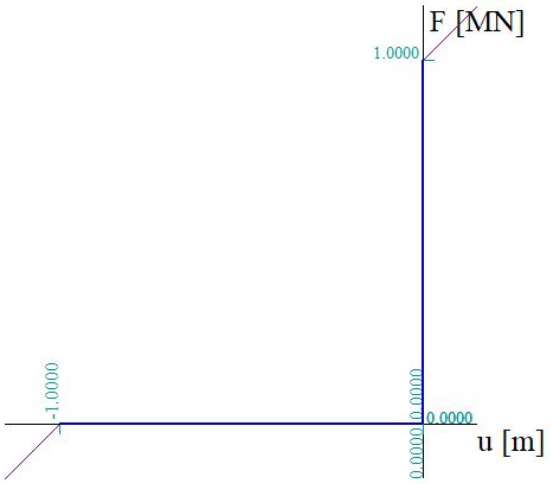
Name	Type	u / F	Positive end	Negative end
press only	Translation	-0.000001 / -1000000.000000	Flexible	Flexible
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Drawing



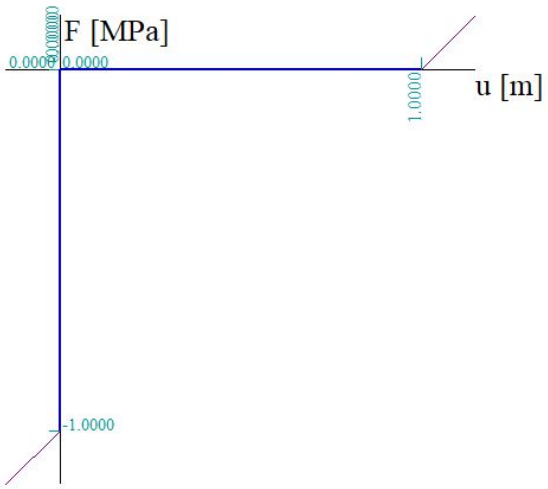
Name	Type	u / F	Positive end	Negative end
tension only	Translation	-1.000000 / 0.000000	Flexible	Flexible
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
soil press only	Nonlinear subsoil		Flexible	Flexible

Drawing

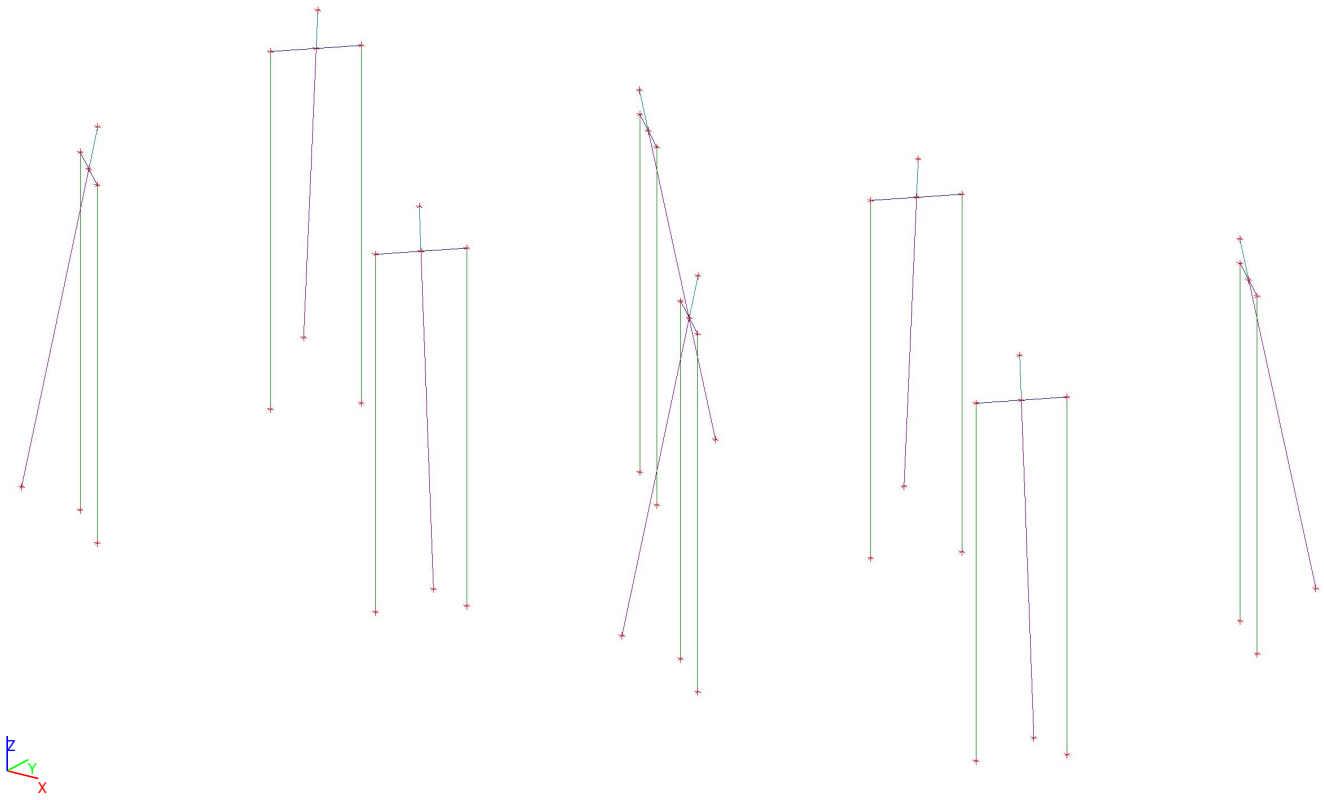

F [MPa]
1.0000
0.0000
0.0000
u [m]
1.0000
-1.0000

6. Belastingen

6.1. Load cases

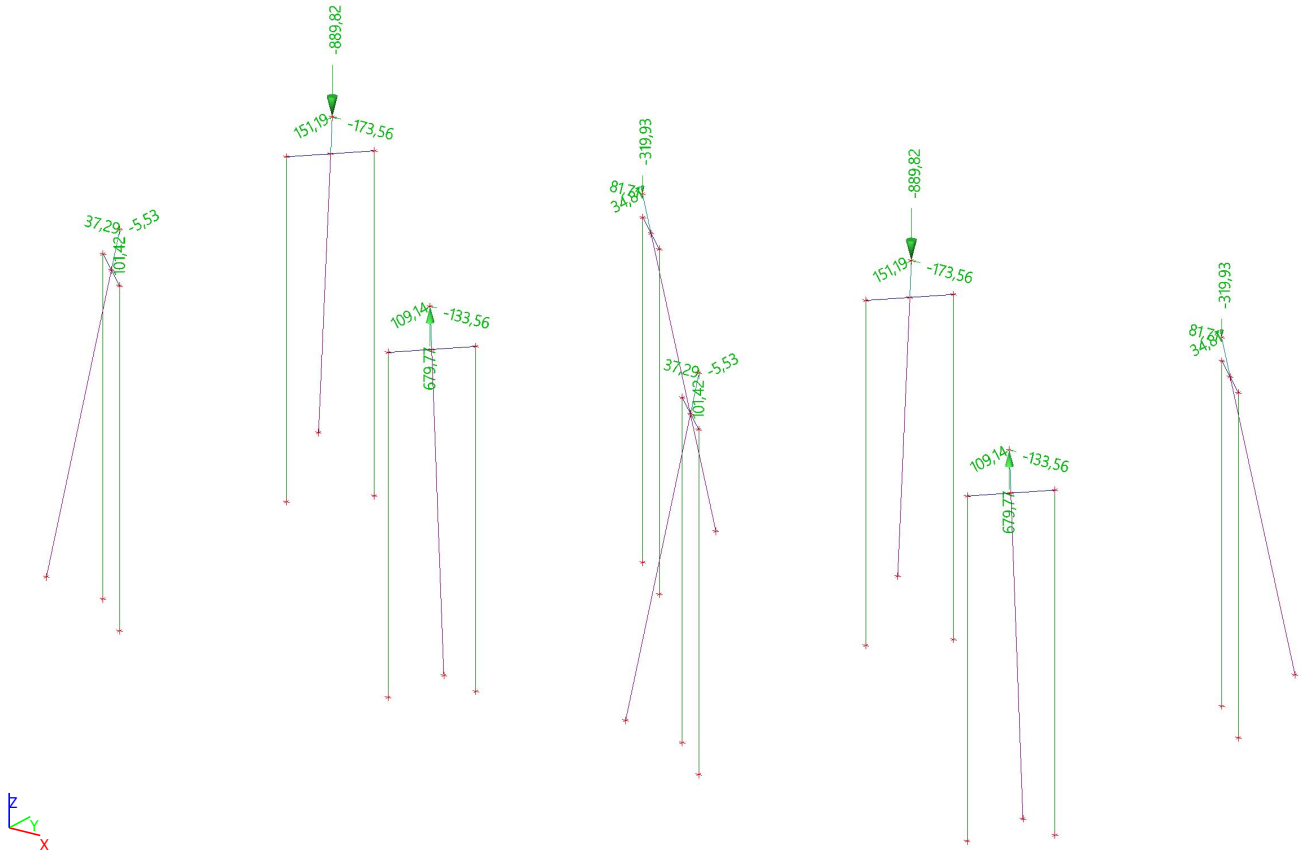
6.1.1. Load cases - EG_Fundering

Name	Description	Action type	Load group	Direction
	Spec	Load type		
EG_Fundering		Permanent	LG1	-Z
		Self weight		



6.1.2. Load cases - high max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



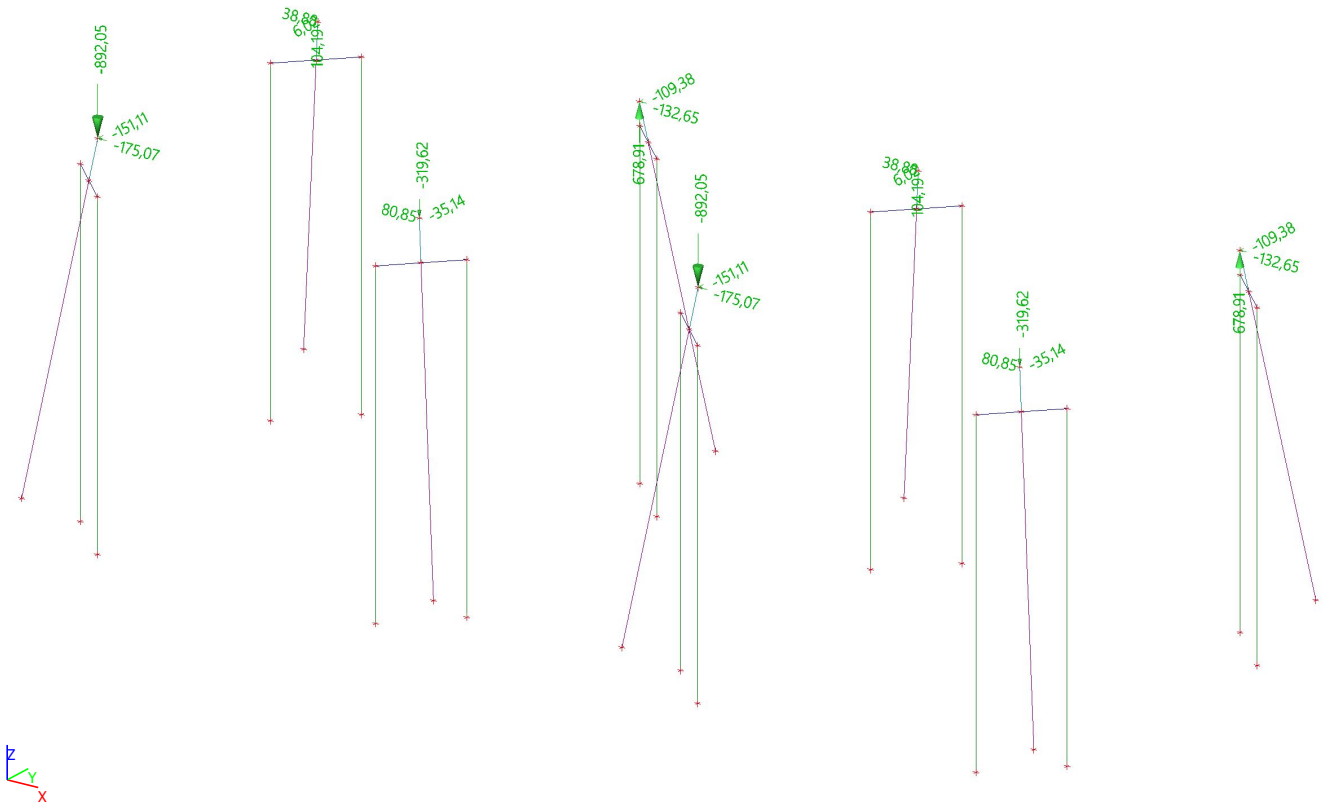
6.1.2.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Force	37,29
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Force	-5,53
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Force	101,42
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Force	-173,56
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Force	151,19
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Force	-889,82
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Force	81,71
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Force	34,81
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Force	-319,93
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Force	-133,56
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Force	109,14
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Force	679,77
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Force	37,29
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Force	-5,53
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Force	101,42

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X_X1	1X2	high max Wnd ;45°	GCS	X	Force	-173,56
high max Wnd ;45°_1X_Y1	1X2	high max Wnd ;45°	GCS	Y	Force	151,19
high max Wnd ;45°_1X_Z1	1X2	high max Wnd ;45°	GCS	Z	Force	-889,82
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Force	81,71
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Force	34,81
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Force	-319,93
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Force	-133,56
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Force	109,14
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Force	679,77

6.1.3. Load cases - high max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;315°		Variable	LG4	Short	None
	Standard	Static			

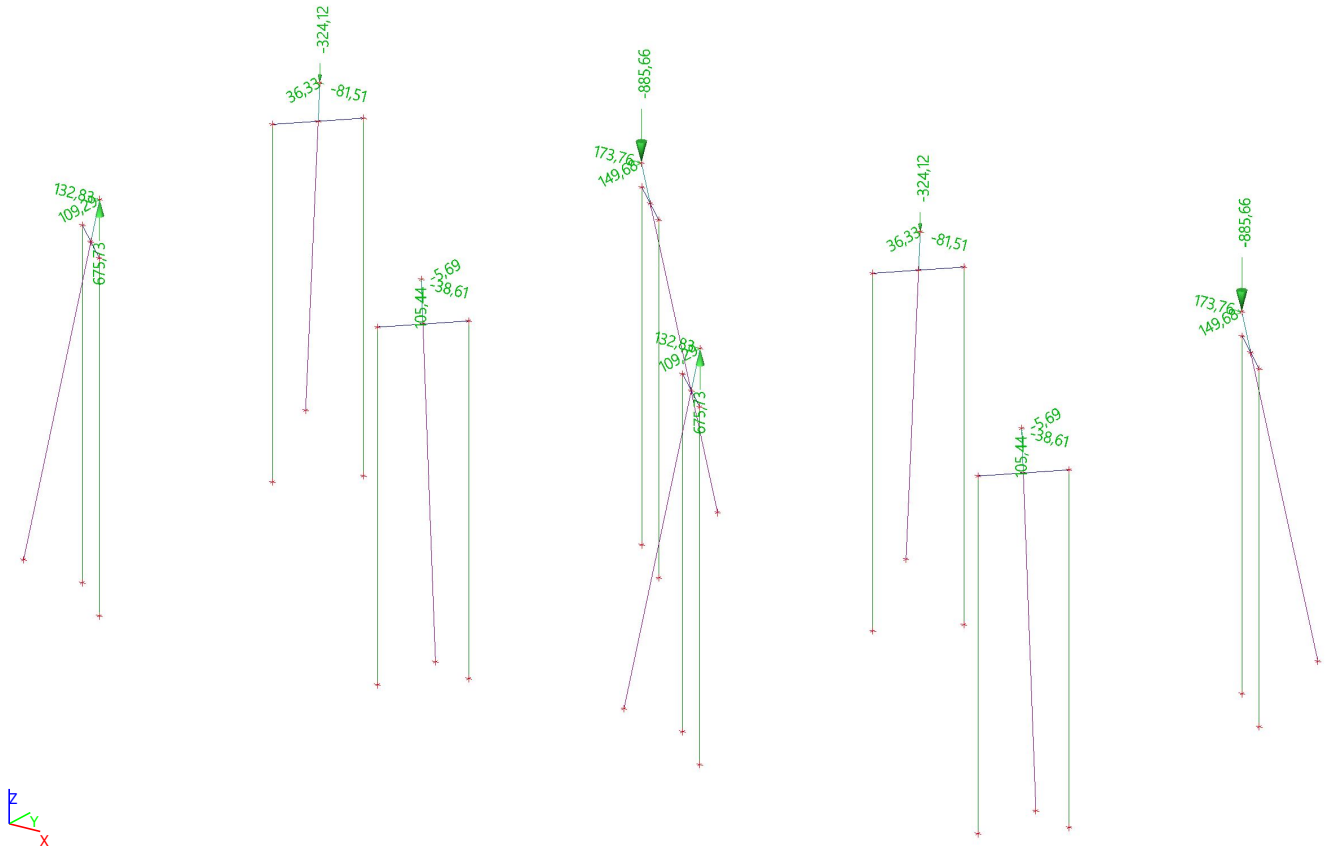


6.1.3.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Force	-175,07
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Force	-151,11
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Force	-892,05
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Force	38,88
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Force	6,02
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Force	104,19
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Force	-132,65
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Force	-109,38
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Force	678,91
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Force	80,85
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Force	-35,14
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Force	-319,62
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Force	-175,07
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Force	-151,11
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Force	-892,05
high max Wnd ;315°_1X_X1	1X2	high max Wnd ;315°	GCS	X	Force	38,88
high max Wnd ;315°_1X_Y1	1X2	high max Wnd ;315°	GCS	Y	Force	6,02
high max Wnd ;315°_1X_Z1	1X2	high max Wnd ;315°	GCS	Z	Force	104,19
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Force	-132,65
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Force	-109,38
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Force	678,91
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Force	80,85
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Force	-35,14
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Force	-319,62

6.1.4. Load cases - high max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



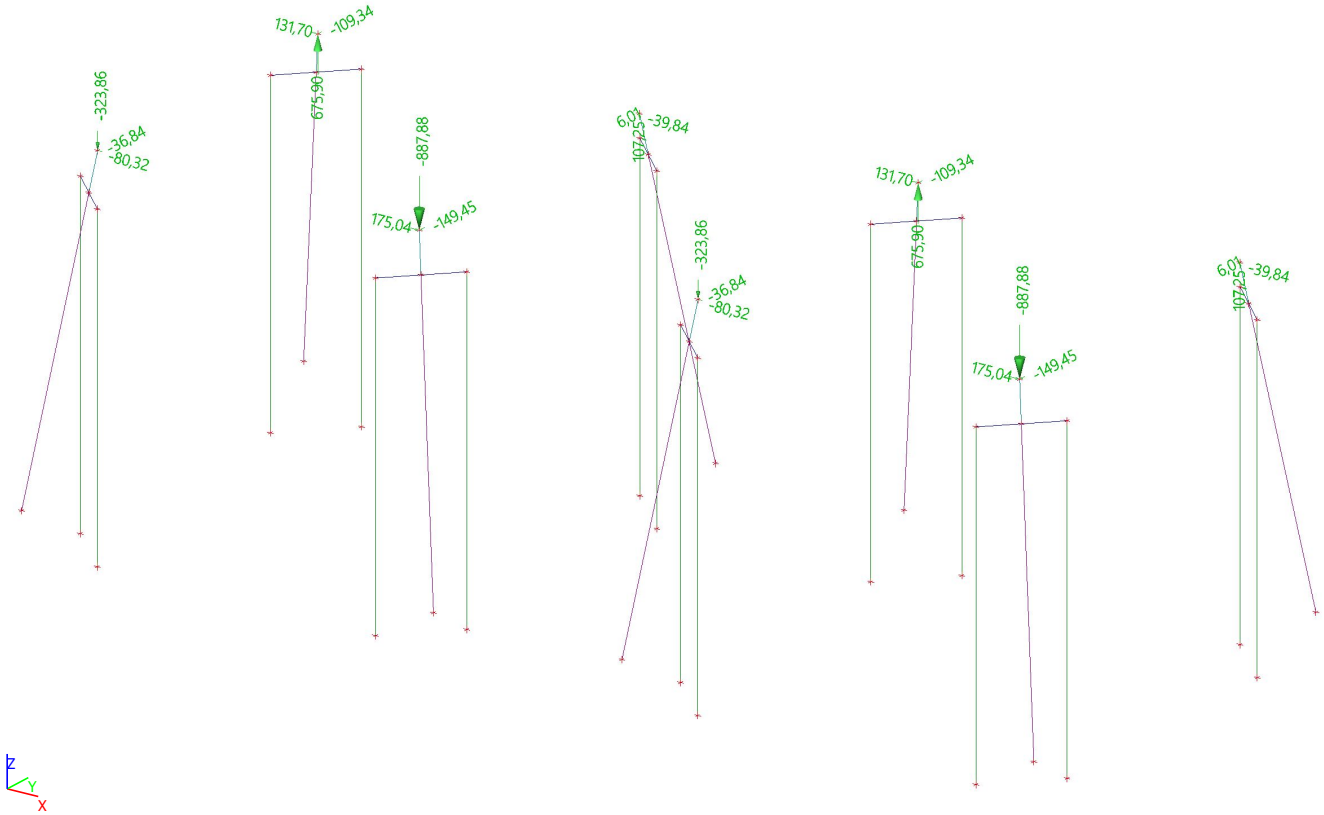
6.1.4.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Force	132,83
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Force	109,29
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Force	675,73
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Force	-81,51
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Force	36,33
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Force	-324,12
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Force	173,76
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Force	149,68
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Force	-885,66
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Force	-38,61
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Force	-5,69
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Force	105,44
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Force	132,83
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Force	109,29
high max Wnd	1P2	high max Wnd ;135°	GCS	Z	Force	675,73

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
high max Wnd ;135°_1X_X1	1X2	high max Wnd ;135°	GCS	X	Force	-81,51
high max Wnd ;135°_1X_Y1	1X2	high max Wnd ;135°	GCS	Y	Force	36,33
high max Wnd ;135°_1X_Z1	1X2	high max Wnd ;135°	GCS	Z	Force	-324,12
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Force	173,76
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Force	149,68
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Force	-885,66
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Force	-38,61
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Force	-5,69
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Force	105,44

6.1.5. Load cases - high max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;225°		Variable	LG4	Short	None
	Standard	Static			



6.1.5.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Force	-80,32
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Force	-36,84
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Force	-323,86
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Force	131,70
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Force	-109,34
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Force	675,90
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Force	-39,84
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Force	6,01
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Force	107,25
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Force	175,04
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Force	-149,45
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Force	-887,88
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Force	-80,32
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Force	-36,84
high max Wnd ;225°_1P2_Z	1P2	high max Wnd ;225°	GCS	Z	Force	-323,86
high max Wnd ;225°_1X_X1	1X2	high max Wnd ;225°	GCS	X	Force	131,70
high max Wnd ;225°_1X_Y1	1X2	high max Wnd ;225°	GCS	Y	Force	-109,34
high max Wnd ;225°_1X_Z1	1X2	high max Wnd ;225°	GCS	Z	Force	675,90
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Force	-39,84
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Force	6,01
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Force	107,25
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Force	175,04
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Force	-149,45
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Force	-887,88

6.1.6. Load cases - low max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



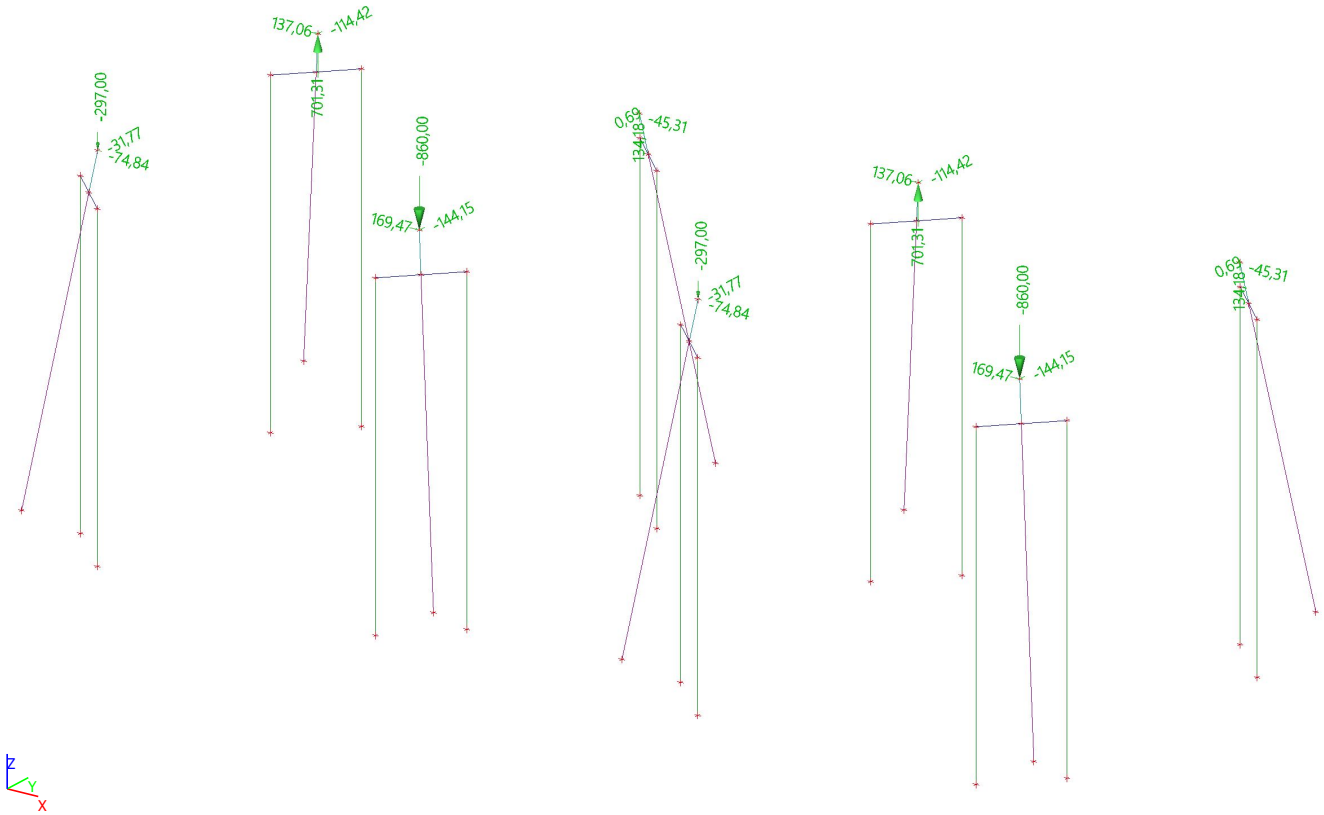
6.1.6.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Force	42,78
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Force	-0,22
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Force	128,52
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Force	-168,07
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Force	145,90
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Force	-862,25
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Force	76,25
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Force	29,72
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Force	-293,24
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Force	-139,00
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Force	114,24
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Force	705,50
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Force	42,78
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Force	-0,22
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Force	128,52

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X_X1	1X2	low max Wnd ;45°	GCS	X	Force	-168,07
low max Wnd ;45°_1X_Y1	1X2	low max Wnd ;45°	GCS	Y	Force	145,90
low max Wnd ;45°_1X_Z1	1X2	low max Wnd ;45°	GCS	Z	Force	-862,25
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Force	76,25
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Force	29,72
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Force	-293,24
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Force	-139,00
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Force	114,24
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Force	705,50

6.1.7. Load cases - low max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;225°	Standard	Variable Static	LG4	Short	None

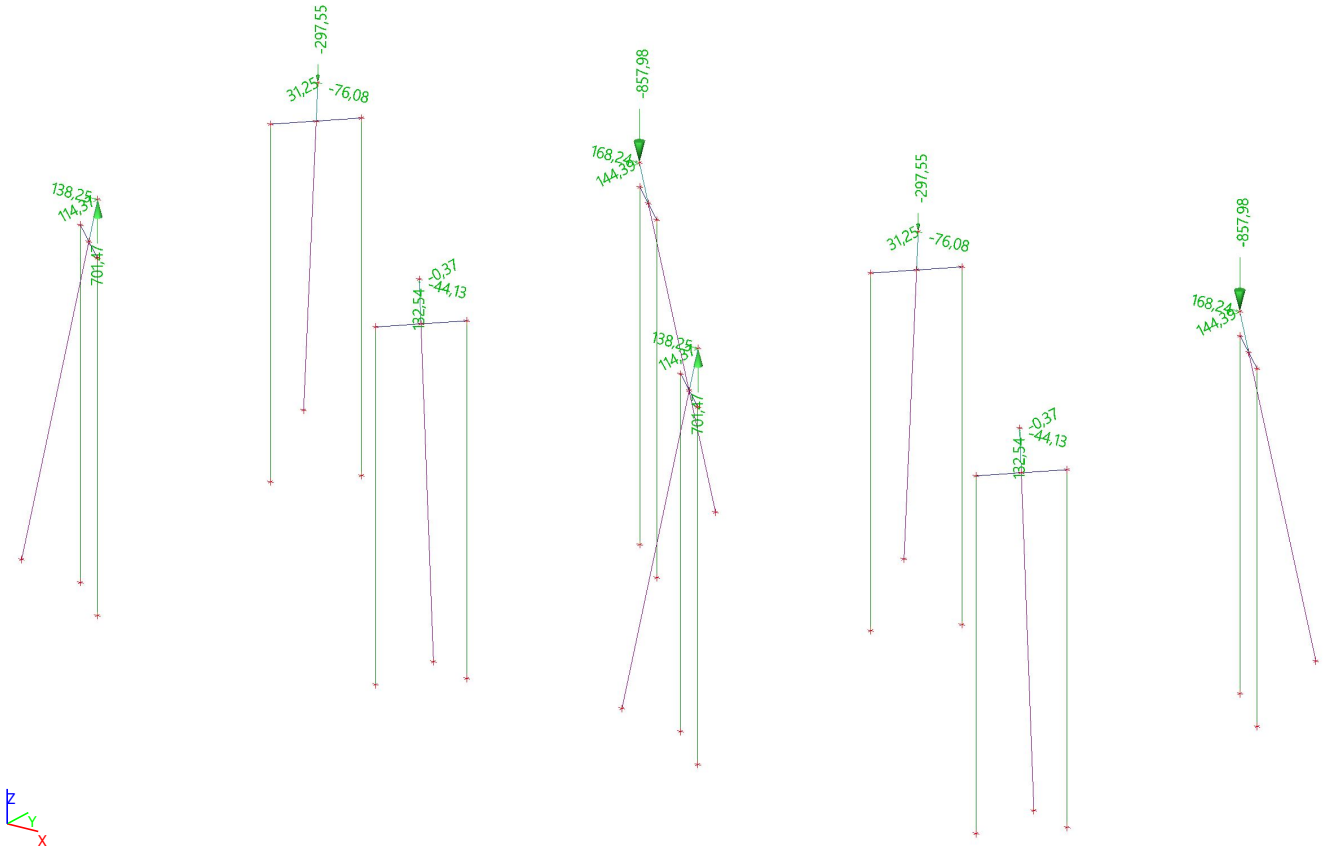


6.1.7.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Force	-74,84
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Force	-31,77
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Force	-297,00
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Force	137,06
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Force	-114,42
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Force	701,31
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Force	-45,31
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Force	0,69
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Force	134,18
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Force	169,47
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Force	-144,15
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Force	-860,00
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Force	-74,84
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Force	-31,77
low max Wnd ;225°_1P2_Z	1P2	low max Wnd ;225°	GCS	Z	Force	-297,00
low max Wnd ;225°_1X_X1	1X2	low max Wnd ;225°	GCS	X	Force	137,06
low max Wnd ;225°_1X_Y1	1X2	low max Wnd ;225°	GCS	Y	Force	-114,42
low max Wnd ;225°_1X_Z1	1X2	low max Wnd ;225°	GCS	Z	Force	701,31
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Force	-45,31
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Force	0,69
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Force	134,18
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Force	169,47
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Force	-144,15
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Force	-860,00

6.1.8. Load cases - low max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



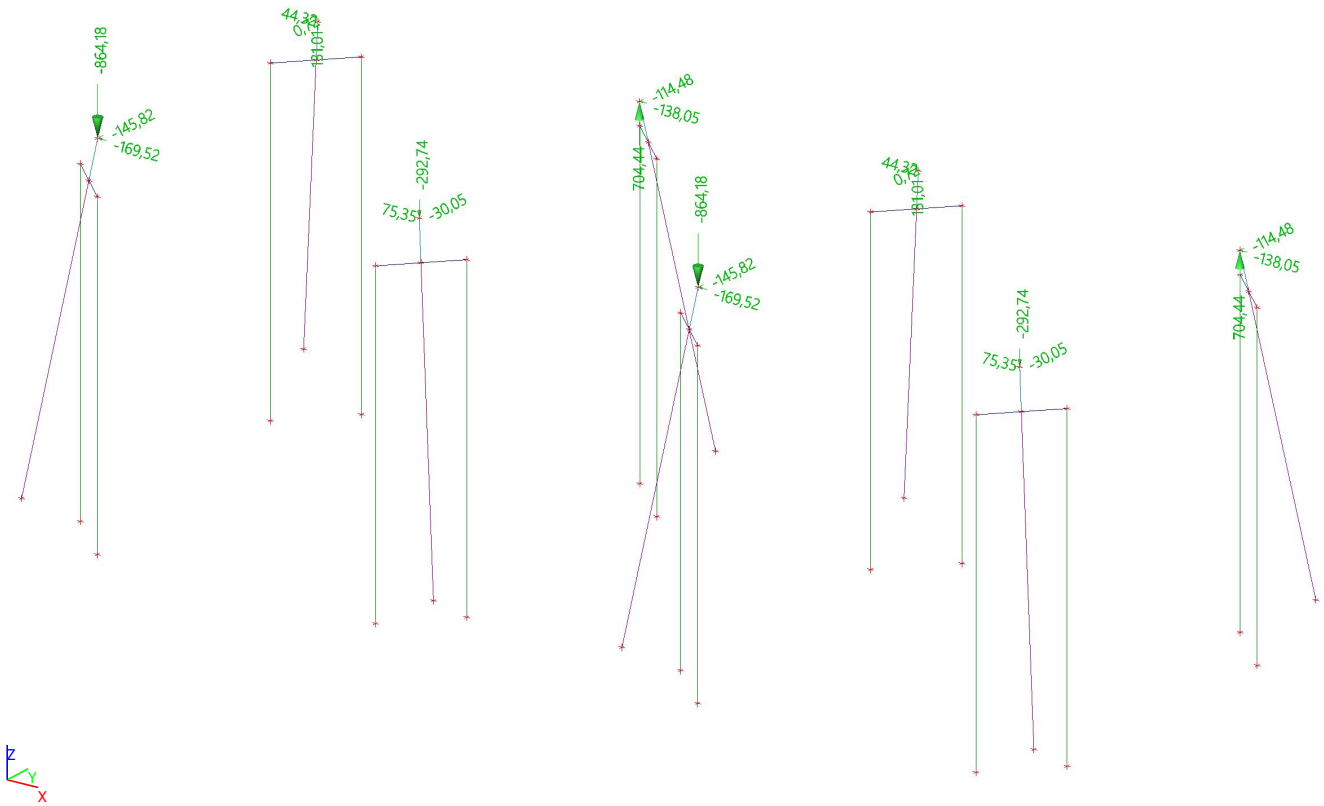
6.1.8.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Force	138,25
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Force	114,37
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Force	701,47
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Force	-76,08
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Force	31,25
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Force	-297,55
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Force	168,24
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Force	144,39
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Force	-857,98
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Force	-44,13
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Force	-0,37
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Force	132,54
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Force	138,25
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Force	114,37
low max Wnd	1P2	low max Wnd ;135°	GCS	Z	Force	701,47

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
low max Wnd ;135°_1X_X1	1X2	low max Wnd ;135°	GCS	X	Force	-76,08
low max Wnd ;135°_1X_Y1	1X2	low max Wnd ;135°	GCS	Y	Force	31,25
low max Wnd ;135°_1X_Z1	1X2	low max Wnd ;135°	GCS	Z	Force	-297,55
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Force	168,24
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Force	144,39
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Force	-857,98
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Force	-44,13
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Force	-0,37
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Force	132,54

6.1.9. Load cases - low max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;315°	Standard	Variable Static	LG4	Short	None



6.1.9.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Force	-169,52
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Force	-145,82
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Force	-864,18
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Force	44,32
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Force	0,72
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Force	131,01
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Force	-138,05
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Force	-114,48
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Force	704,44
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Force	75,35
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Force	-30,05
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Force	-292,74
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Force	-169,52
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Force	-145,82
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Force	-864,18
low max Wnd ;315°_1X_X1	1X2	low max Wnd ;315°	GCS	X	Force	44,32
low max Wnd ;315°_1X_Y1	1X2	low max Wnd ;315°	GCS	Y	Force	0,72
low max Wnd ;315°_1X_Z1	1X2	low max Wnd ;315°	GCS	Z	Force	131,01
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Force	-138,05
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Force	-114,48
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Force	704,44
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Force	75,35
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Force	-30,05
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Force	-292,74

6.2. Nonlinear combinations

Name	Type	Load cases	Coeff. [-]
low max Wnd ;45° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;45°	1,000
low max Wnd ;225° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;225°	1,000
low max Wnd ;135° - EG_Gunstig	Ultimate	EG_Fundering	0,900
		low max Wnd ;135°	1,000
low max Wnd ;315° - EG_Gunstig	Ultimate	EG_Fundering	0,900

Name	Type	Load cases	Coeff. [-]
		low max Wnd ;315°	1,000
high max Wnd ;45° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;45°	1,000
high max Wnd ;225° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;315°	1,000
high max Wnd ;135° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;135°	1,000
high max Wnd ;315° - EG_Ongunstig	Ultimate	EG_Fundering	1,350
		high max Wnd ;225°	1,000

6.3. Result classes

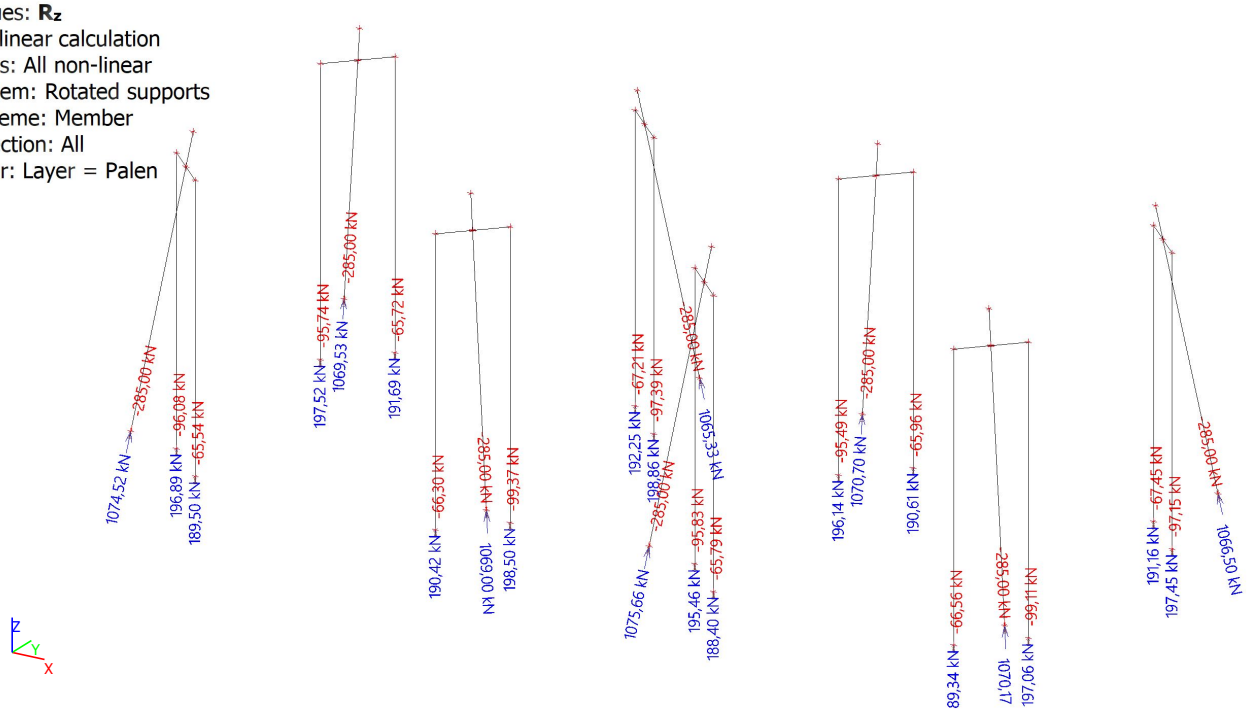
Name	List
All non-linear	low max Wnd ;45° - EG_Gunstig
	low max Wnd ;225° - EG_Gunstig
	low max Wnd ;135° - EG_Gunstig
	low max Wnd ;315° - EG_Gunstig
	high max Wnd ;45° - EG_Ongunstig
	high max Wnd ;225° - EG_Ongunstig
	high max Wnd ;135° - EG_Ongunstig
	high max Wnd ;315° - EG_Ongunstig

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LD1(31-plank) - General cross-section
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_P2/N203	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**1075,66**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn LK6/N175	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-99,37**	0,00	0,00	0,00	0,0	0,0
Sn LK2/N167	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**198,86**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**1074,52**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**1069,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY/N148	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_XY/N148	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**1065,33**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_X/N153	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**1069,53**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK/N159	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-95,74**	0,00	0,00	0,00	0,0	0,0
Sn LK/N159	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**197,52**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK1/N160	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-65,72**	0,00	0,00	0,00	0,0	0,0
Sn LK1/N160	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**191,69**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK2/N167	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-97,39**	0,00	0,00	0,00	0,0	0,0
Sn LK2/N167	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**198,86**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK3/N168	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-67,21**	0,00	0,00	0,00	0,0	0,0
Sn LK3/N168	high max Wnd ;315° -	**0,00**	**0,00**	**192,25**	**0,00**	**0,00**	**0,00**	0,0	0,0

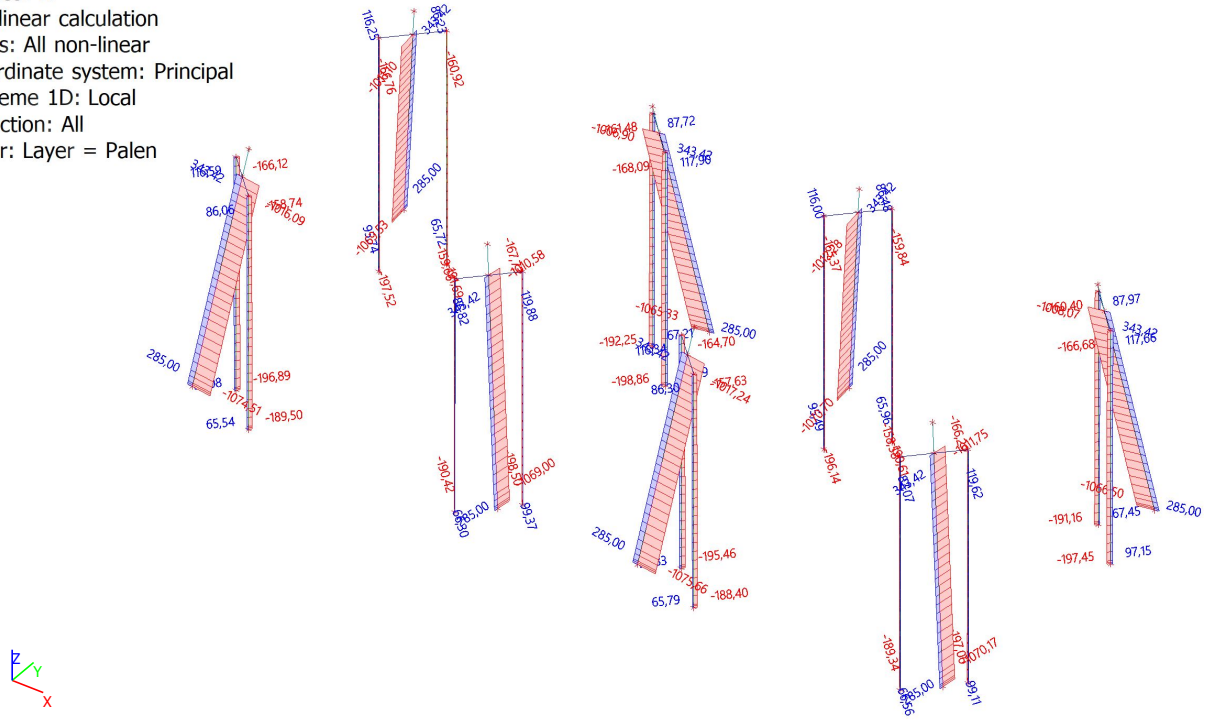
Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK4/N171	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-96,08**	0,00	0,00	0,00	0,0	0,0
Sn LK4/N171	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**196,89**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK5/N172	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-65,54**	0,00	0,00	0,00	0,0	0,0
Sn LK5/N172	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**189,50**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**198,50**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-99,37**	0,00	0,00	**0,00**	0,0	0,0
Sn LK7/N176	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**190,42**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK7/N176	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-66,30**	0,00	0,00	**0,00**	0,0	0,0
S_P2/N203	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_P2/N203	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**1075,66**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**1070,17**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N205	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY2/N207	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_XY2/N207	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**1066,50**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N209	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-285,00**	0,00	0,00	0,00	0,0	0,0
S_X2/N209	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**1070,70**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK16/N212	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-95,49**	0,00	0,00	0,00	0,0	0,0
Sn LK16/N212	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**196,14**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK17/N213	low max Wnd ;225° - EG_Gunstig	0,00	0,00	**-65,96**	0,00	0,00	0,00	0,0	0,0
Sn LK17/N213	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**190,61**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK18/N216	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-97,15**	0,00	0,00	0,00	0,0	0,0
Sn LK18/N216	high max Wnd ;45° -	**0,00**	**0,00**	**197,45**	**0,00**	**0,00**	**0,00**	0,0	0,0

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
Sn LK19/N217	low max Wnd ;315° - EG_Gunstig	0,00	0,00	**-67,45**	0,00	0,00	0,00	0,0	0,0
Sn LK19/N217	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**191,16**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK20/N220	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-95,83**	0,00	0,00	0,00	0,0	0,0
Sn LK20/N220	high max Wnd ;315° - EG_Ongunstig	**0,00**	**0,00**	**195,46**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK21/N221	low max Wnd ;135° - EG_Gunstig	0,00	0,00	**-65,79**	0,00	0,00	0,00	0,0	0,0
Sn LK21/N221	high max Wnd ;45° - EG_Ongunstig	**0,00**	**0,00**	**188,40**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	high max Wnd ;225° - EG_Ongunstig	**0,00**	**0,00**	**197,06**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N224	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-99,11**	0,00	0,00	**0,00**	0,0	0,0
Sn LK23/N225	high max Wnd ;135° - EG_Ongunstig	**0,00**	**0,00**	**189,34**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK23/N225	low max Wnd ;45° - EG_Gunstig	0,00	0,00	**-66,56**	0,00	0,00	**0,00**	0,0	0,0

7.2. Krachten van de Funderingspalen

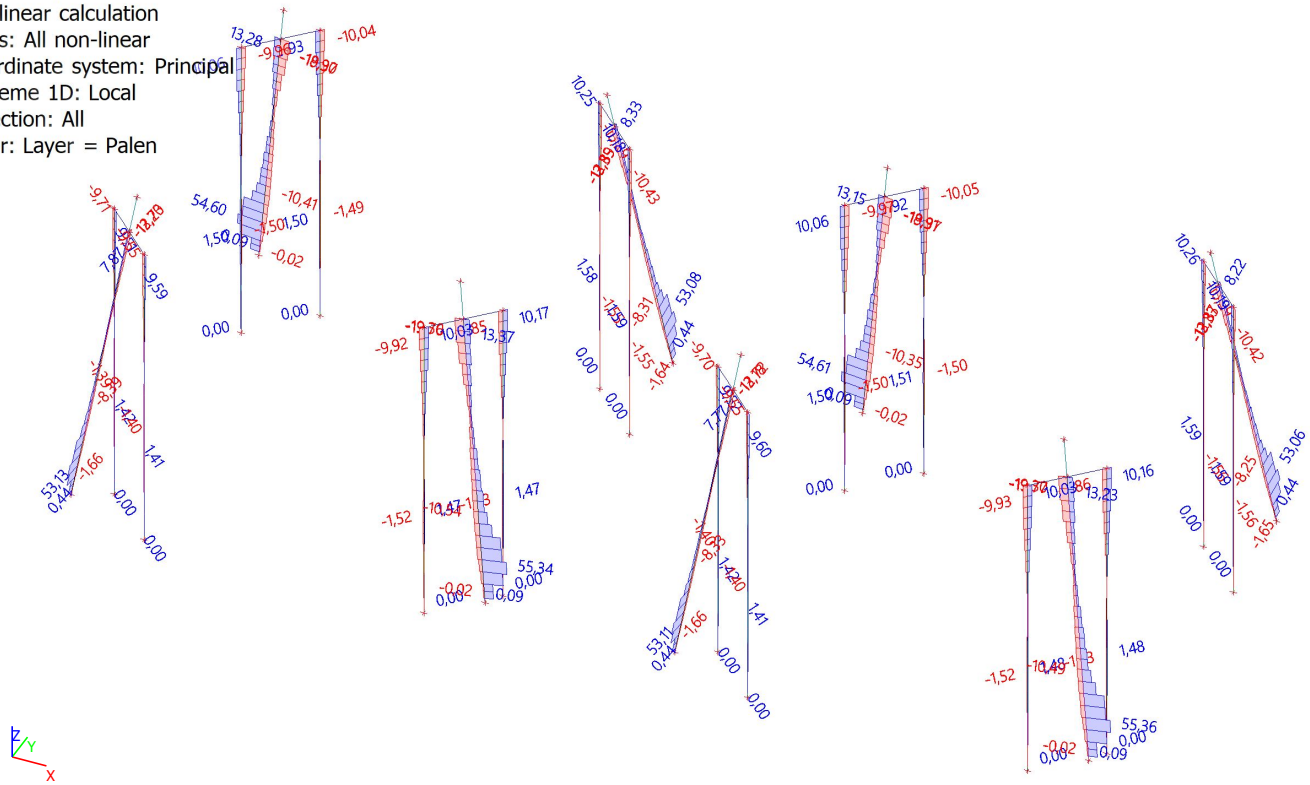
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



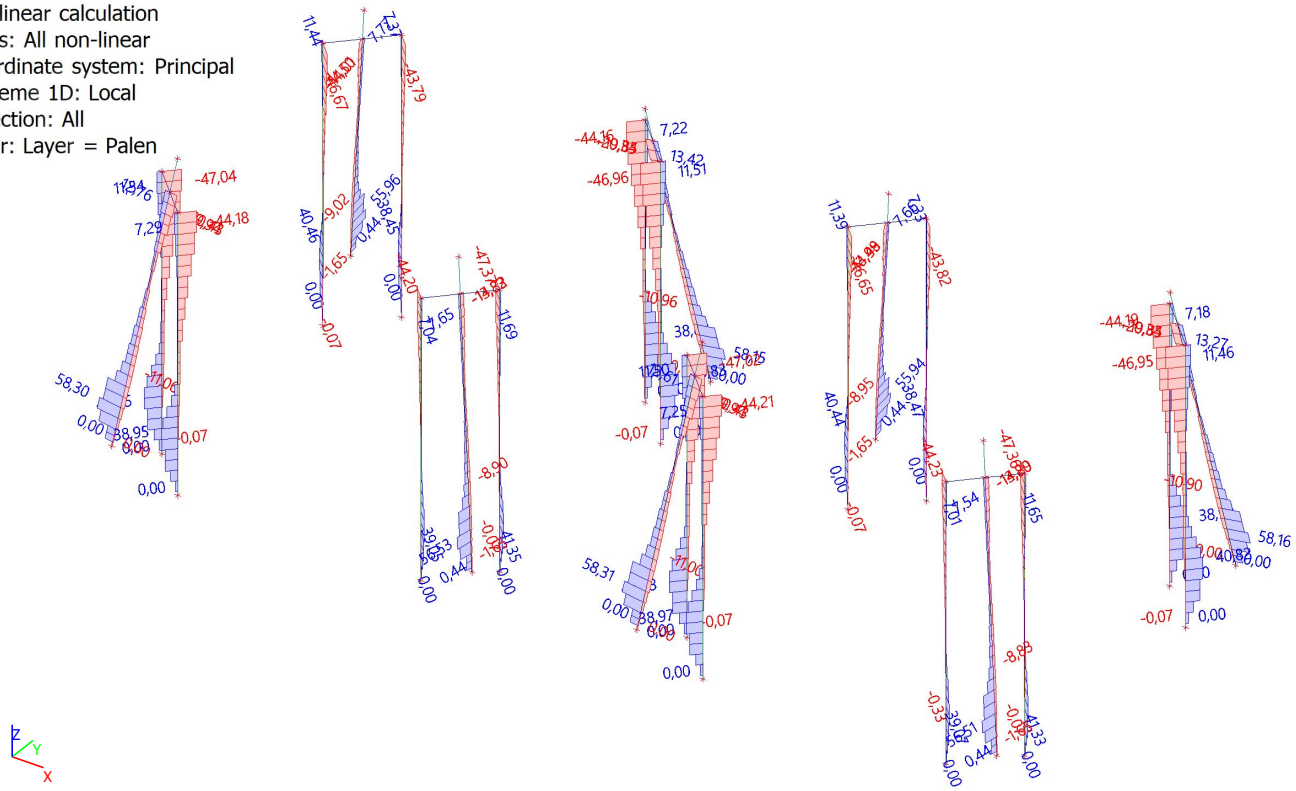
7.2.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



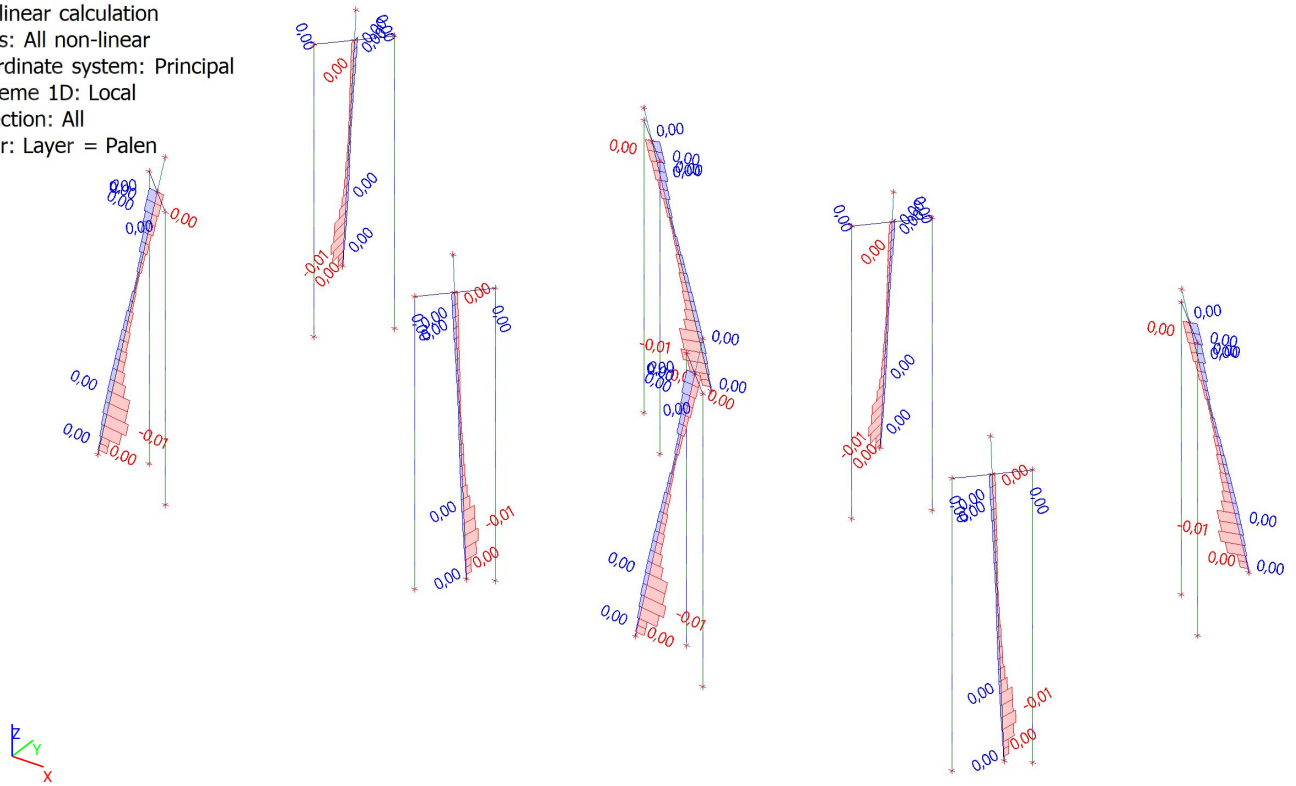
7.2.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



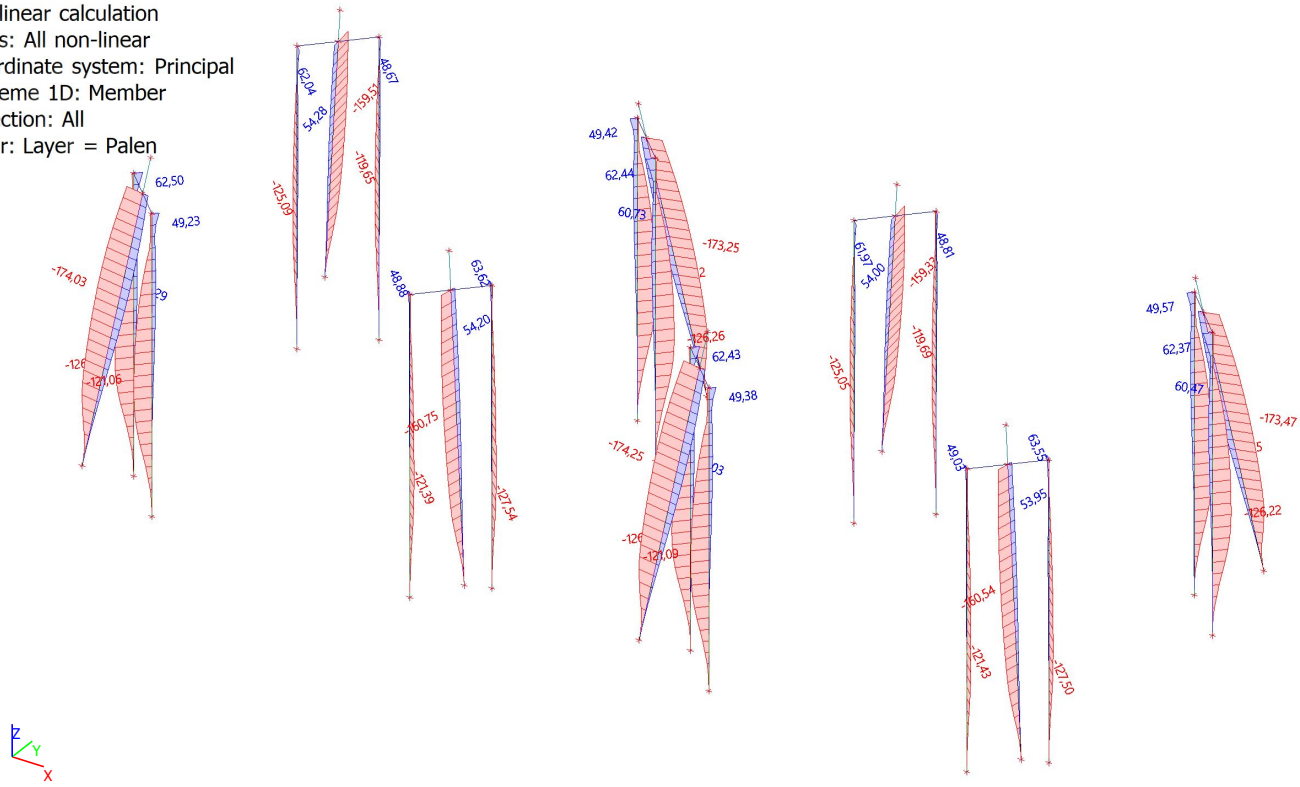
7.2.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



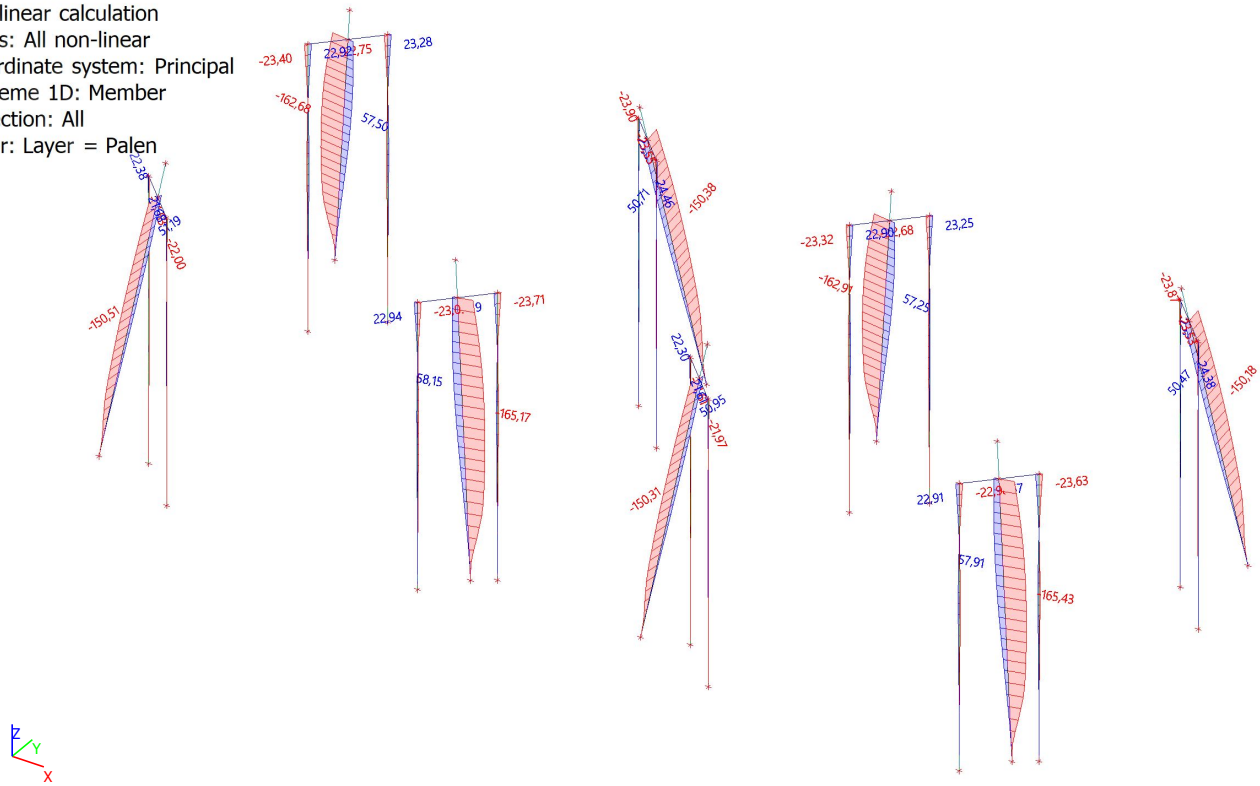
7.2.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Nothing in selection to display.

7.2.8. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS323.9/10.0)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_X3	13,180	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	**-198,86**	0,00	0,00	0,00	0,00	0,00
Paal_X3	0,000	high max Wnd ;45° - EG_Ongunstig	LEKA Paal - type e (CHS323.9/10.0)	-168,09	**-10,43**	7,94	0,00	-9,48	**24,46**
Paal_X23	0,000	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	-113,09	**10,26**	0,17	**0,00**	-9,88	-23,87
Paal_X7	0,000	low max Wnd ;45° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	**119,88**	-6,68	**-47,37**	0,00	**63,62**	14,23
Paal_X7	10,500+	low max Wnd ;45° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	103,15	0,39	**41,35**	0,00	-66,89	-0,37
Paal_X7	8,000-	low max Wnd ;45° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	108,21	0,73	-1,94	0,00	**-127,54**	-2,16
Paal_X4	0,000	low max Wnd ;225° - EG_Gunstig	LEKA Paal - type e (CHS323.9/10.0)	-113,79	10,25	0,27	0,00	-9,93	**-23,90**

7.3. Krachten van de Poeren

7.3.1. 1D internal forces

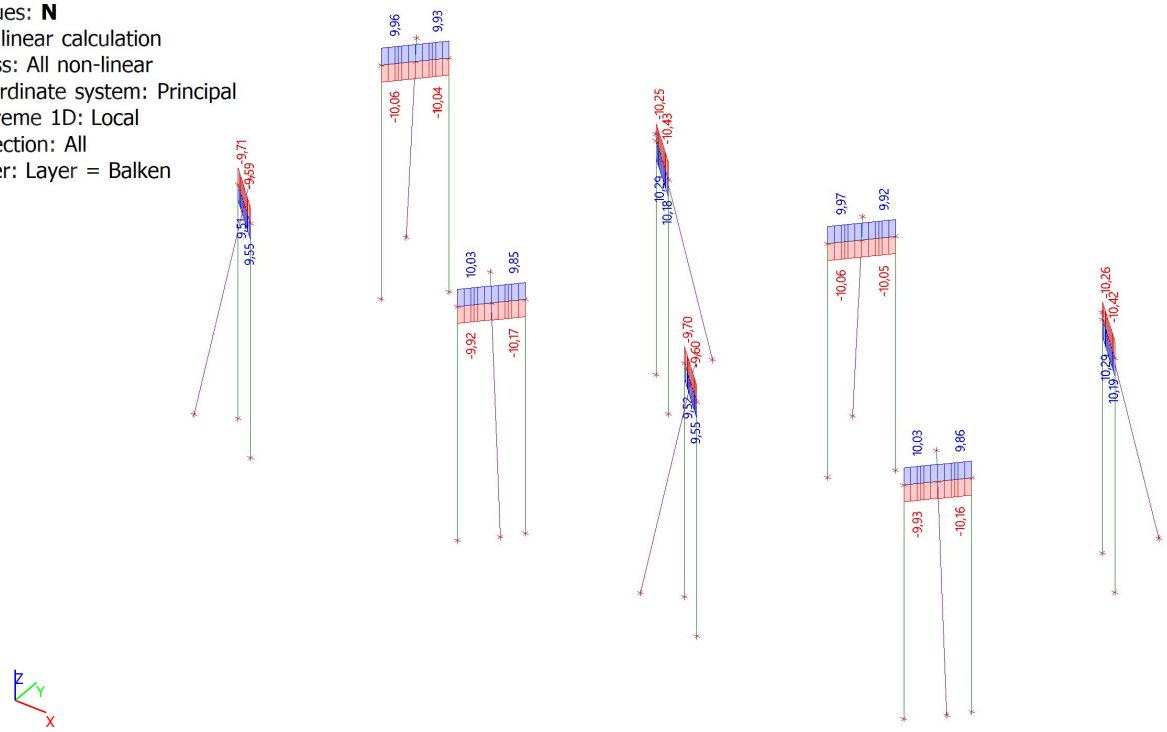
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = Poer800 - Circle (800,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer_P	1,560	low max Wnd ;45° - EG_Gunstig	Poer800 - Circle (800,00)	**726,99**	-35,23	-18,47	**0,00**	0,00	0,00
Poer_X	0,000	low max Wnd ;135° - EG_Gunstig	Poer800 - Circle (800,00)	706,00	**-39,04**	17,82	0,00	-27,82	**58,22**
Poer_X	1,560	high max Wnd ;225° - EG_Ongunstig	Poer800 - Circle (800,00)	-920,07	**48,69**	-18,16	0,00	0,00	0,00
Poer_Y	0,000	high max Wnd ;45° - EG_Ongunstig	Poer800 - Circle (800,00)	-355,32	11,98	**-33,63**	0,00	**52,45**	-22,71
Poer_P	0,000	high max Wnd ;225° - EG_Ongunstig	Poer800 - Circle (800,00)	-354,94	11,67	**32,79**	0,00	**-51,13**	-22,24
Poer_X	0,000	high max Wnd ;225° - EG_Ongunstig	Poer800 - Circle (800,00)	**-945,51**	43,52	-18,20	0,00	28,36	**-71,93**

7.4. Krachten van de Funderingsbalken

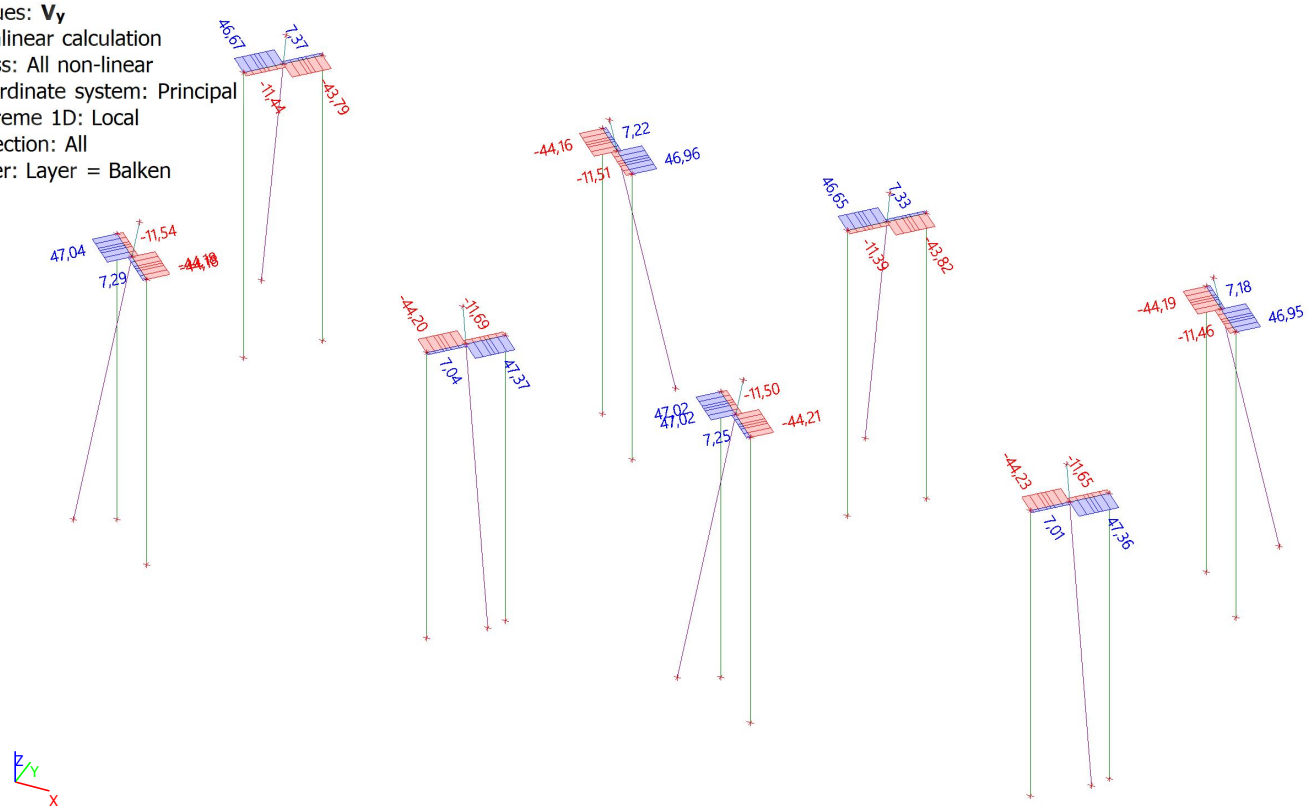
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



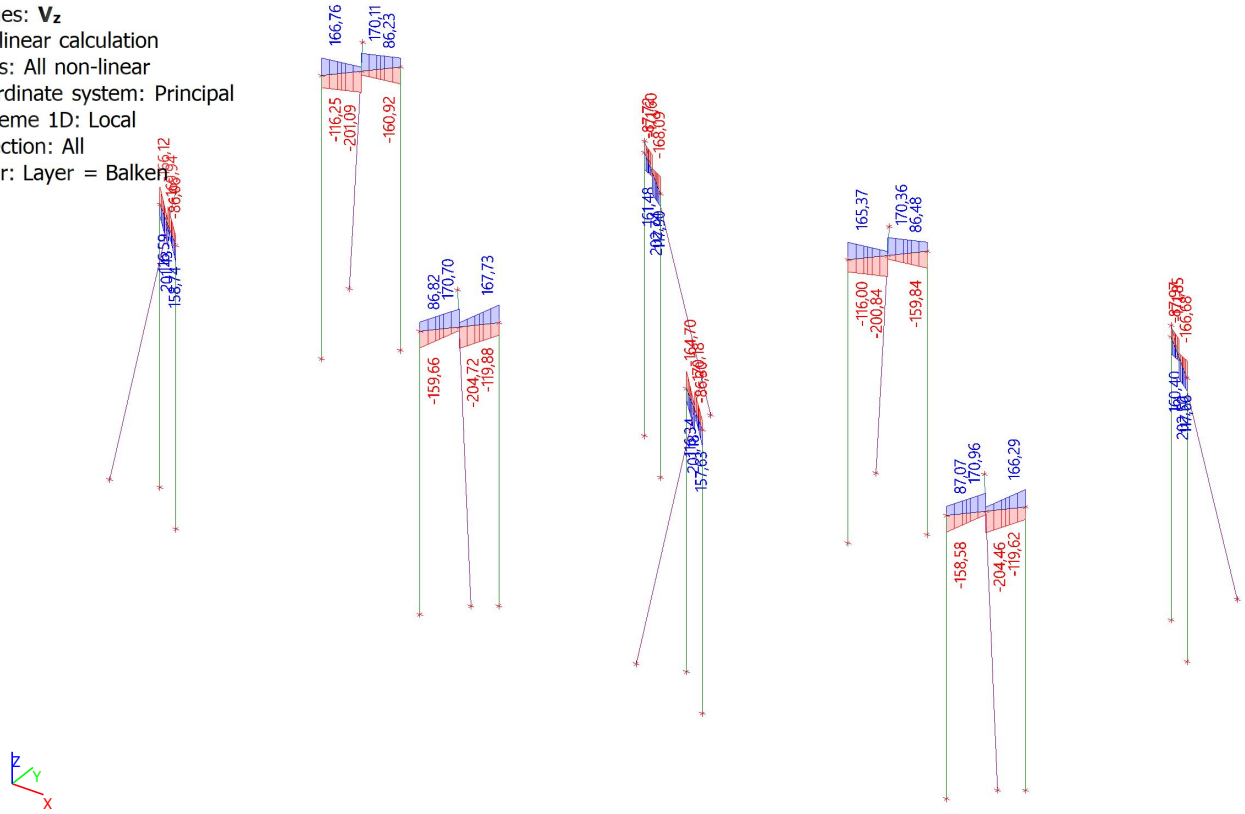
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



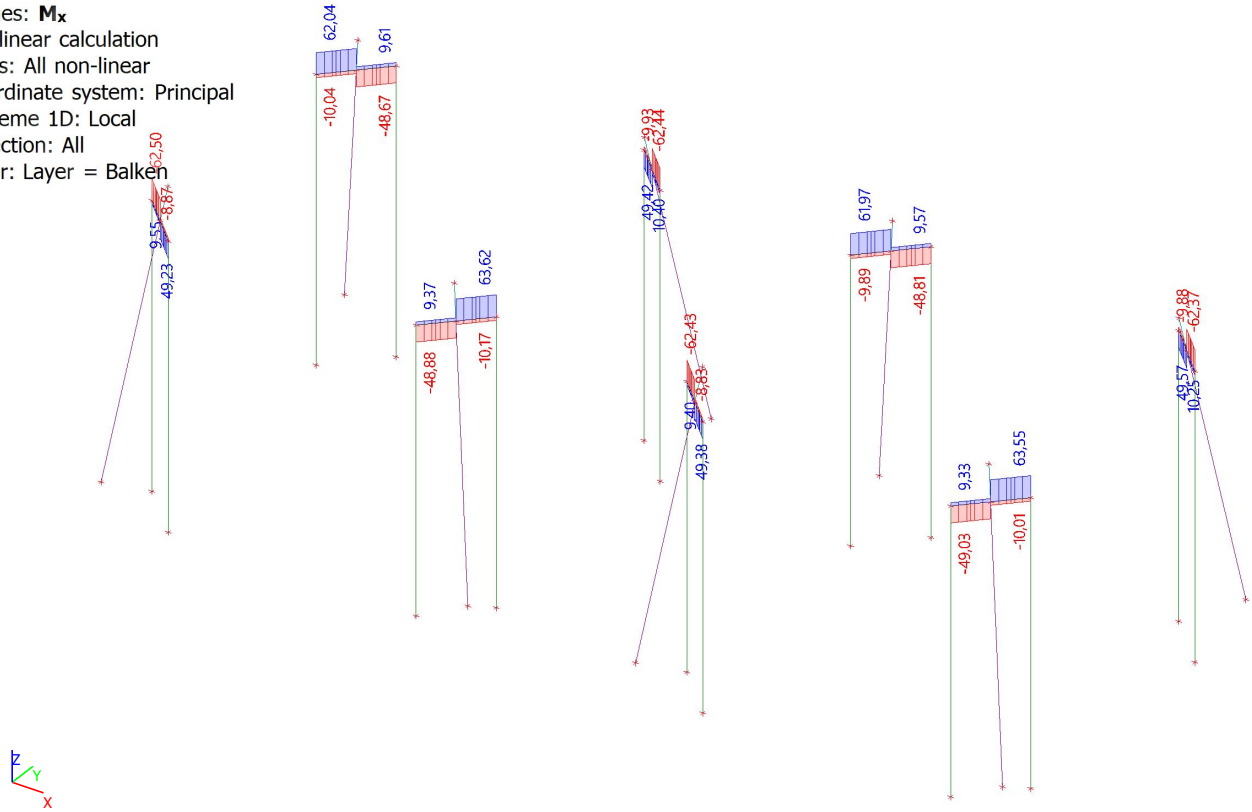
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



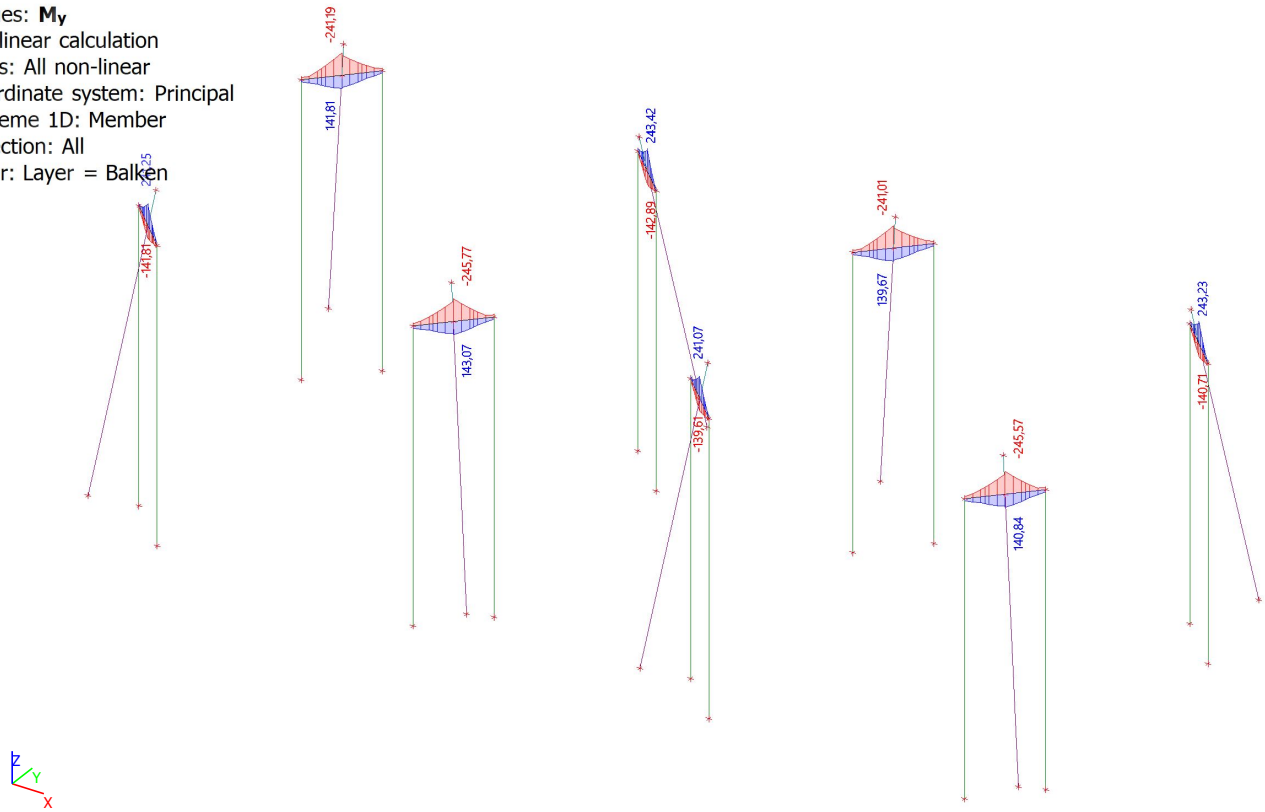
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



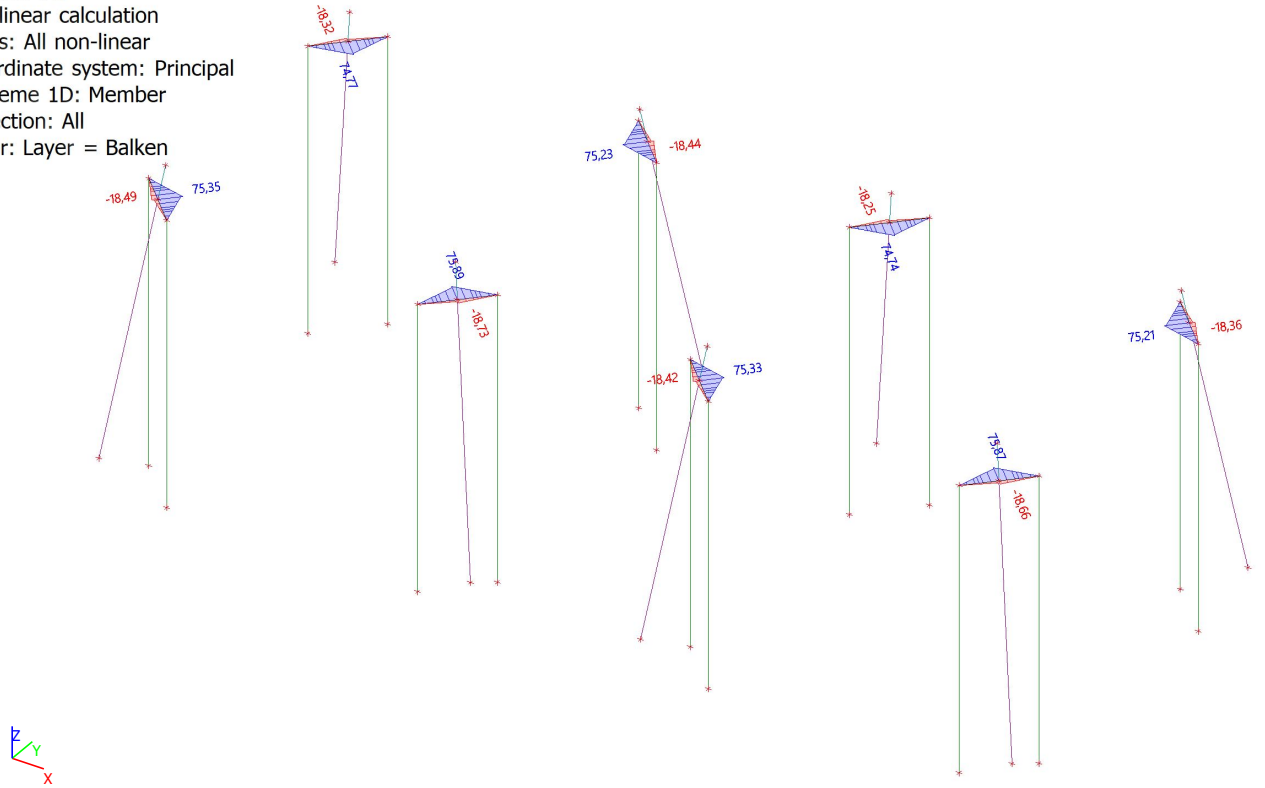
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. 1D internal forces

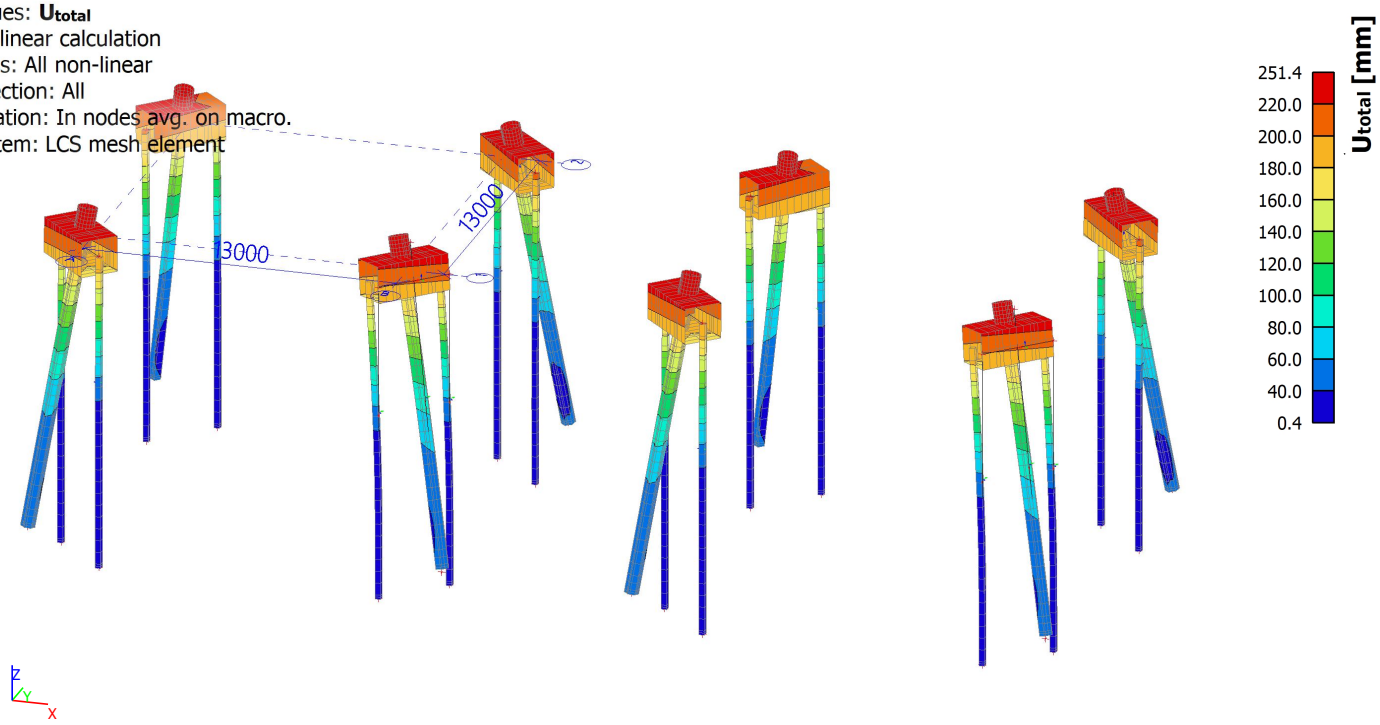
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = lijnpoer - Rectangle (1500,00; 1600,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
DIN37	0,000	high max Wnd ;45° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**-10,43**	-7,94	-168,09	9,48	24,46	0,00
DIN37	1,602+	high max Wnd ;45° - EG_Ongunstig	lijnpoer - Rectangle (1500,00; 1600,00)	**10,29**	-2,37	-38,86	15,74	-61,90	3,76
DIN47	1,602+	low max Wnd ;45° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-6,40	**-44,23**	170,96	-49,03	-217,25	70,06
DIN38	0,000	low max Wnd ;135° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,37	47,04	116,59	**-62,50**	-13,48	0,00
DIN39	1,602-	low max Wnd ;45° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,68	**47,37**	**-204,72**	**63,62**	**-245,77**	**75,89**
DIN37	1,602-	low max Wnd ;315° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	6,34	46,96	**202,74**	-62,44	**243,42**	75,23
DIN39	1,602-	low max Wnd ;225° - EG_Gunstig	lijnpoer - Rectangle (1500,00; 1600,00)	-6,18	-11,69	-19,09	-3,97	24,45	**-18,73**

7.5. Vervormingen

7.5.1. 3D displacement; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro.
System: LCS mesh element



7.5.2. 3D displacement

Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro. System: LCS mesh element
Results on 1D member:
Extreme 1D: Member

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Poer_X	0,000	19	high max Wnd ;45° - EG_Ongunstig	0,3	4,1	-5,0	-1,6	0,5	1,0	**6,5**
Poer_X	1,560	14	low max Wnd ;135° - EG_Gunstig	51,5	244,7	-3,2	-2,4	0,7	29,0	**250,0**
Paal_P	11,787	20	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	0,0	1,6	-0,2	-0,1	**0,1**
Paal_P	0,000	15	low max Wnd ;135° - EG_Gunstig	-49,3	-135,5	-145,9	2,5	-21,3	19,4	**205,1**
Poer_P	0,000	13	high max Wnd ;135° - EG_Ongunstig	0,3	4,3	5,2	1,7	-0,5	1,0	**6,7**
Poer_P	1,560	18	low max Wnd ;45° - EG_Gunstig	51,8	246,0	3,4	2,7	-0,8	29,2	**251,4**
Paal_Y	9,000-	2	high max Wnd ;135° - EG_Ongunstig	-0,1	0,0	0,0	-1,7	0,1	0,3	**0,1**
Paal_Y	0,000	26	low max Wnd ;45° - EG_Gunstig	-47,4	-140,0	-143,5	-2,8	-20,5	20,4	**206,0**
Poer_Y	0,000	19	high max Wnd ;315° -	0,4	4,4	-5,5	-1,8	0,5	1,1	**7,1**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_Y	1,560	14	low max Wnd ;315° - EG_Gunstig	51,4	244,0	-3,2	-2,4	0,7	29,0	**249,4**
Paal_XY	11,694-	20	high max Wnd ;315° - EG_Ongunstig	-0,1	0,0	0,0	1,8	-0,2	-0,1	**0,1**
Paal_XY	0,000	15	low max Wnd ;315° - EG_Gunstig	-49,1	-135,2	-145,4	2,4	-21,2	19,4	**204,5**
Poer_XY	0,000	13	high max Wnd ;225° - EG_Ongunstig	0,3	4,3	5,3	1,7	-0,5	1,0	**6,8**
Poer_XY	1,560	18	low max Wnd ;225° - EG_Gunstig	50,9	241,4	3,1	2,5	-0,7	28,7	**246,8**
Paal_X	9,000-	2	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	0,0	-1,7	0,1	0,3	**0,1**
Paal_X	0,000	26	low max Wnd ;225° - EG_Gunstig	-46,5	-137,2	-140,9	-2,5	-20,2	20,0	**202,1**
DIN34	3,186	1	high max Wnd ;225° - EG_Ongunstig	4,3	-1,1	-0,1	1,0	0,1	1,8	**4,4**
DIN34	0,000	3	low max Wnd ;225° - EG_Gunstig	0,9	-226,1	23,3	28,5	0,0	2,6	**227,3**
Paal_X1	10,500-	6	low max Wnd ;45° - EG_Gunstig	0,1	0,0	0,1	1,6	-0,1	0,0	**0,1**
Paal_X1	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,8	-2,8	-204,8	-2,6	-28,5	0,0	**204,8**
Paal_X2	10,500-	6	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,1	-2,5	-1,3	0,0	**0,1**
Paal_X2	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,6	-2,8	-196,6	-2,6	-28,5	0,1	**196,6**
DIN37	3,186	3	high max Wnd ;315° - EG_Ongunstig	4,4	-1,1	0,1	-1,1	-0,1	1,9	**4,6**
DIN37	0,000	1	low max Wnd ;315° - EG_Gunstig	1,0	-228,3	-23,5	-28,7	0,0	2,5	**229,5**
Paal_X3	10,000-	8	low max Wnd ;135° - EG_Gunstig	0,1	0,0	0,0	-1,6	-0,1	0,0	**0,1**
Paal_X3	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,8	2,9	-206,9	2,5	-28,7	0,0	**206,9**
Paal_X4	10,500-	8	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	2,5	-1,3	0,0	**0,1**
Paal_X4	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,6	2,9	-198,9	2,5	-28,7	-0,1	**198,9**
DIN38	3,186	3	high max Wnd ;45° - EG_Ongunstig	3,9	-1,2	0,1	-1,0	-0,1	1,7	**4,1**
DIN38	0,000	1	low max Wnd ;135° - EG_Gunstig	1,0	-229,0	-23,6	-28,8	0,0	2,5	**230,2**
Paal_X5	10,000-	8	low max Wnd ;315° -	0,1	0,0	0,0	-1,6	-0,1	0,0	**0,1**

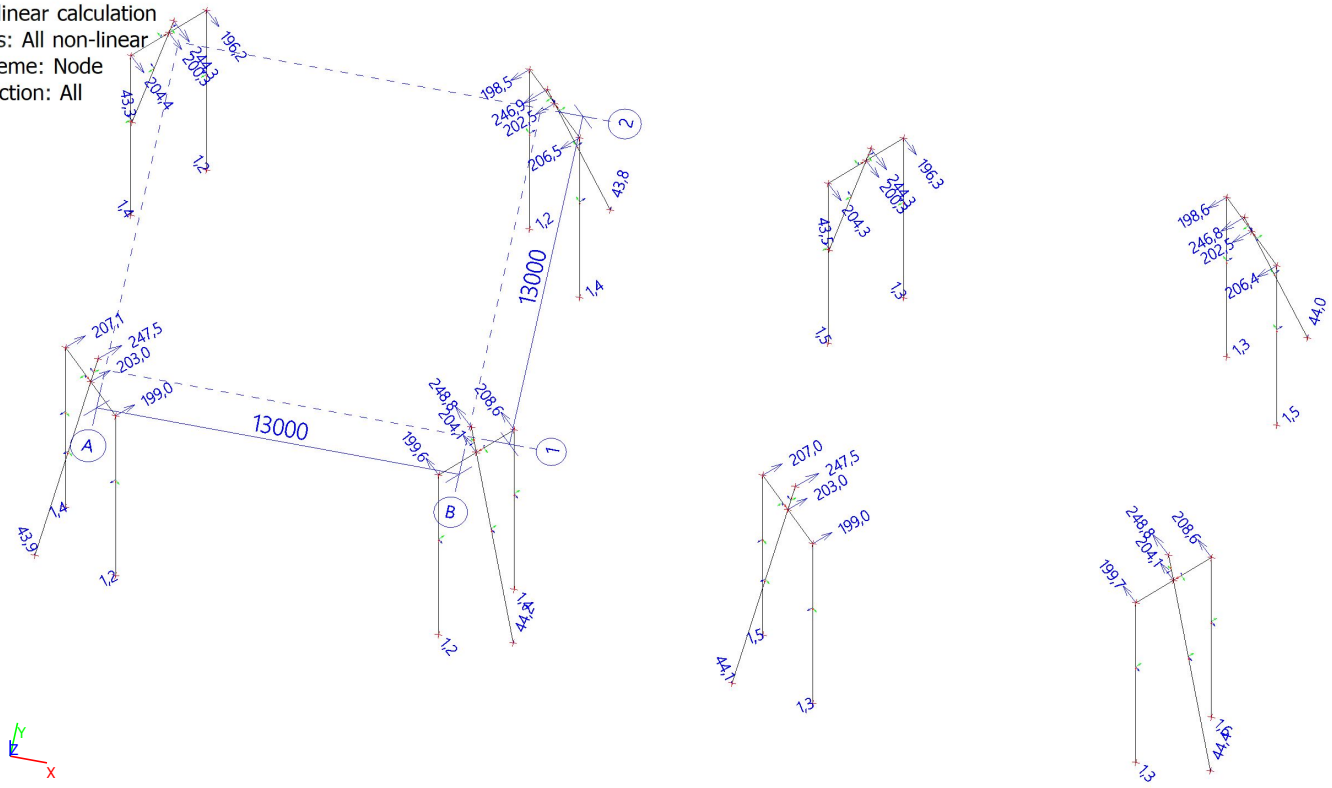
Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_X5	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,8	2,9	-207,5	2,5	-28,8	0,0	**207,5**
Paal_X6	9,500-	4	low max Wnd ;315° - EG_Gunstig	0,1	0,0	0,0	-1,6	-0,1	0,0	**0,1**
Paal_X6	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,6	2,9	-199,3	2,6	-28,8	-0,1	**199,4**
DIN39	3,186	1	high max Wnd ;135° - EG_Ongunstig	4,2	-1,1	-0,1	1,0	0,1	1,8	**4,3**
DIN39	0,000	3	low max Wnd ;45° - EG_Gunstig	1,0	-230,6	23,7	28,9	0,1	2,8	**231,9**
Paal_X7	10,000-	6	low max Wnd ;225° - EG_Gunstig	0,1	0,0	0,1	1,8	-0,1	0,0	**0,1**
Paal_X7	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,8	-3,1	-209,1	-2,8	-28,9	0,1	**209,1**
Paal_X8	9,500-	6	low max Wnd ;225° - EG_Gunstig	0,1	0,0	0,0	1,8	-0,1	0,0	**0,1**
Paal_X8	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,6	-3,1	-200,0	-2,8	-28,9	0,1	**200,0**
Poer_X2	0,000	19	high max Wnd ;45° - EG_Ongunstig	0,3	4,3	-5,0	-1,6	0,5	1,0	**6,6**
Poer_X2	1,560	14	low max Wnd ;135° - EG_Gunstig	51,8	244,6	-3,3	-2,4	0,7	29,0	**250,0**
Paal_P2	11,787	20	high max Wnd ;45° - EG_Ongunstig	-0,1	0,0	0,0	1,6	-0,2	-0,1	**0,1**
Paal_P2	0,000	15	low max Wnd ;135° - EG_Gunstig	-49,5	-135,4	-145,9	2,4	-21,3	19,4	**205,1**
Poer_P2	0,000	13	high max Wnd ;135° - EG_Ongunstig	0,3	4,4	5,3	1,7	-0,5	1,1	**6,9**
Poer_P2	1,560	18	low max Wnd ;45° - EG_Gunstig	52,1	245,9	3,5	2,7	-0,8	29,2	**251,4**
Paal_Y2	9,000-	2	high max Wnd ;135° - EG_Ongunstig	-0,1	0,0	0,0	-1,7	0,1	0,3	**0,1**
Paal_Y2	0,000	26	low max Wnd ;45° - EG_Gunstig	-47,6	-140,0	-143,4	-2,7	-20,5	20,4	**206,0**
Poer_Y2	0,000	19	high max Wnd ;315° - EG_Ongunstig	0,3	4,6	-5,6	-1,8	0,5	1,1	**7,2**
Poer_Y2	1,560	14	low max Wnd ;315° - EG_Gunstig	51,7	243,9	-3,3	-2,4	0,7	29,0	**249,4**
Paal_XY2	11,694-	20	high max Wnd ;315° - EG_Ongunstig	-0,1	0,0	0,0	1,8	-0,2	-0,1	**0,1**
Paal_XY2	0,000	15	low max Wnd ;315° - EG_Gunstig	-49,4	-135,1	-145,4	2,4	-21,2	19,3	**204,6**
Poer_XY2	0,000	13	high max Wnd ;225° -	0,3	4,5	5,4	1,8	-0,5	1,1	**7,0**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Poer_XY2	1,560	18	low max Wnd ;225° - EG_Gunstig	51,1	241,4	3,2	2,4	-0,7	28,7	**246,8**
Paal_X19	9,000-	2	high max Wnd ;225° - EG_Ongunstig	-0,1	0,0	0,0	-1,8	0,1	0,3	**0,1**
Paal_X19	0,000	26	low max Wnd ;225° - EG_Gunstig	-46,8	-137,2	-140,8	-2,5	-20,2	20,0	**202,1**
DIN44	3,186	1	high max Wnd ;225° - EG_Ongunstig	4,3	-1,2	-0,1	1,1	0,1	1,8	**4,5**
DIN44	0,000	3	low max Wnd ;225° - EG_Gunstig	1,0	-226,0	23,6	28,5	0,1	2,5	**227,2**
Paal_X20	10,500-	6	low max Wnd ;45° - EG_Gunstig	0,1	0,0	0,1	1,6	-0,1	0,0	**0,2**
Paal_X20	0,000	2	low max Wnd ;225° - EG_Gunstig	-1,1	-2,9	-204,7	-2,5	-28,5	0,1	**204,8**
Paal_X21	10,500-	6	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	-0,1	-2,5	-1,3	0,0	**0,1**
Paal_X21	0,000	2	low max Wnd ;225° - EG_Gunstig	-0,8	-2,9	-196,7	-2,5	-28,5	0,1	**196,7**
DIN45	3,186	3	high max Wnd ;315° - EG_Ongunstig	4,4	-1,2	0,1	-1,1	-0,1	1,9	**4,6**
DIN45	0,000	1	low max Wnd ;315° - EG_Gunstig	1,1	-228,3	-23,8	-28,7	-0,1	2,5	**229,5**
Paal_X22	10,500-	8	low max Wnd ;135° - EG_Gunstig	0,1	0,0	0,1	-1,6	-0,1	0,0	**0,2**
Paal_X22	0,000	4	low max Wnd ;315° - EG_Gunstig	-1,1	3,0	-206,8	2,5	-28,7	-0,1	**206,8**
Paal_X23	10,500-	8	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	-0,1	2,5	-1,3	0,0	**0,1**
Paal_X23	0,000	4	low max Wnd ;315° - EG_Gunstig	-0,8	3,0	-198,9	2,5	-28,7	-0,1	**199,0**
DIN46	3,186	3	high max Wnd ;45° - EG_Ongunstig	4,0	-1,3	0,1	-1,0	-0,1	1,7	**4,2**
DIN46	0,000	1	low max Wnd ;135° - EG_Gunstig	1,1	-229,0	-23,9	-28,8	-0,1	2,5	**230,2**
Paal_X24	10,500-	8	low max Wnd ;315° - EG_Gunstig	0,1	0,0	0,1	-1,6	-0,1	0,0	**0,2**
Paal_X24	0,000	4	low max Wnd ;135° - EG_Gunstig	-1,1	3,0	-207,4	2,5	-28,8	-0,1	**207,4**
Paal_X25	10,500-	8	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	-0,1	2,5	-1,4	0,0	**0,1**
Paal_X25	0,000	4	low max Wnd ;135° - EG_Gunstig	-0,8	3,0	-199,4	2,5	-28,8	-0,1	**199,4**
DIN47	3,186	1	high max Wnd ;135° -	4,2	-1,3	-0,1	1,1	0,1	1,8	**4,4**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
DIN47	0,000	3	low max Wnd ;45° - EG_Gunstig	1,1	-230,6	24,0	28,9	0,1	2,8	**231,8**
Paal_X26	7,500	7	low max Wnd ;135° - EG_Gunstig	0,1	0,1	-0,1	-1,9	-0,3	0,3	**0,2**
Paal_X26	0,000	2	low max Wnd ;45° - EG_Gunstig	-1,2	-3,2	-209,0	-2,8	-28,9	0,1	**209,0**
Paal_X27	9,500-	6	low max Wnd ;225° - EG_Gunstig	0,1	0,0	0,0	1,8	-0,1	0,0	**0,1**
Paal_X27	0,000	2	low max Wnd ;45° - EG_Gunstig	-0,8	-3,2	-200,1	-2,8	-28,9	0,2	**200,1**

7.5.3. Displacement of nodes; U_total

Values: $\mathbf{U_{total}}$
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Displacement of nodes

Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N123	low max Wnd ;315° - EG_Gunstig	**-16,9**	**-13,1**	-0,3	3,6	-3,6	1,6	21,4
N123	high max Wnd ;315° - EG_Ongunstig	-7,5	0,3	**-0,8**	1,0	-1,1	1,7	7,6
N123	high max Wnd ;225° - EG_Ongunstig	-16,8	-13,0	-0,5	**3,6**	**-3,7**	1,7	21,2
N123	low max Wnd ;135° - EG_Gunstig	**145,6**	**141,5**	**0,7**	**-20,3**	**20,4**	**-2,6**	**203,0**
N123	low max Wnd ;225° - EG_Gunstig	-7,5	0,2	-0,5	0,9	-1,1	**1,7**	7,6
1P	low max Wnd ;315° - EG_Gunstig	**-23,2**	**-18,4**	**1,1**	3,7	-3,9	1,7	29,7
1P	high max Wnd ;225° - EG_Ongunstig	-23,2	-18,3	0,8	**3,7**	**-4,0**	1,7	29,5
1P	low max Wnd ;135° - EG_Gunstig	**177,7**	**172,1**	**-8,0**	**-20,4**	**20,7**	**-2,6**	**247,5**
1P	low max Wnd ;225° - EG_Gunstig	-9,9	-0,8	-0,1	0,9	-1,3	**1,8**	9,9
N139	high max Wnd ;225° - EG_Ongunstig	0,3	0,0	**-1,9**	0,1	0,2	1,6	1,9
N139	low max Wnd ;315° - EG_Gunstig	**0,3**	0,0	-1,8	**0,2**	0,1	1,6	1,8
N139	low max Wnd ;45° - EG_Gunstig	-0,3	**0,2**	0,5	-0,2	**-0,1**	-1,8	0,6
N139	low max Wnd ;135° - EG_Gunstig	**-6,3**	**-6,1**	**43,0**	**-8,0**	**7,3**	**-2,4**	**43,9**
N139	low max Wnd ;225° - EG_Gunstig	0,3	-0,3	-0,6	0,0	0,2	**1,7**	0,7
N141	low max Wnd ;225° - EG_Gunstig	**16,9**	**-12,9**	-0,3	3,5	3,6	-1,8	21,3
N141	high max Wnd ;225° - EG_Ongunstig	7,8	0,7	**-0,8**	1,0	1,1	-1,8	7,9
N141	low max Wnd ;45° - EG_Gunstig	**-146,5**	**142,1**	**0,8**	**-20,4**	**-20,5**	**2,8**	**204,1**
N141	high max Wnd ;315° - EG_Ongunstig	16,8	-12,7	-0,5	**3,6**	**3,6**	-1,8	21,1
N141	low max Wnd ;315° - EG_Gunstig	7,8	0,5	-0,5	0,9	1,1	**-1,8**	7,9
1Y	low max Wnd ;225° - EG_Gunstig	**23,3**	**-18,1**	**1,0**	3,6	3,9	-1,8	29,5
1Y	low max Wnd ;45° - EG_Gunstig	**-178,8**	**172,8**	**-8,0**	**-20,5**	**-20,8**	**2,9**	**248,8**
1Y	high max Wnd ;315° - EG_Ongunstig	23,2	-18,0	0,8	**3,7**	**4,0**	-1,8	29,4

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1Y	low max Wnd ;315° - EG_Gunstig	10,2	-0,4	-0,1	0,8	1,3	**-1,9**	10,2
N143	low max Wnd ;225° - EG_Gunstig	**-0,3**	0,0	-1,8	**0,2**	-0,2	-1,7	1,8
N143	high max Wnd ;315° - EG_Ongunstig	-0,3	0,0	**-1,9**	0,2	-0,2	-1,7	1,9
N143	low max Wnd ;45° - EG_Gunstig	**6,3**	**-6,2**	**43,3**	**-8,1**	**-7,3**	**2,7**	**44,2**
N143	low max Wnd ;135° - EG_Gunstig	0,3	**0,3**	0,5	-0,2	**0,1**	1,9	0,6
N143	low max Wnd ;315° - EG_Gunstig	-0,3	-0,3	-0,6	0,0	-0,2	**-1,8**	0,7
N146	low max Wnd ;135° - EG_Gunstig	**16,7**	**13,0**	-0,3	-3,5	3,6	1,6	21,2
N146	high max Wnd ;45° - EG_Ongunstig	8,0	-0,8	**-0,8**	-1,0	1,2	1,9	8,1
N146	high max Wnd ;135° - EG_Ongunstig	16,6	12,8	-0,6	**-3,5**	**3,6**	1,7	21,0
N146	low max Wnd ;315° - EG_Gunstig	**-145,2**	**-141,1**	**0,8**	**20,2**	**-20,4**	**-2,5**	**202,5**
N146	low max Wnd ;45° - EG_Gunstig	8,1	-0,7	-0,5	-0,9	1,1	**1,9**	8,1
1XY	low max Wnd ;135° - EG_Gunstig	**23,0**	**18,2**	**1,0**	-3,6	3,9	1,7	29,3
1XY	high max Wnd ;135° - EG_Ongunstig	23,0	18,1	0,8	**-3,7**	**3,9**	1,7	29,2
1XY	low max Wnd ;315° - EG_Gunstig	**-177,2**	**-171,6**	**-8,0**	**20,3**	**-20,6**	**-2,5**	**246,9**
1XY	low max Wnd ;45° - EG_Gunstig	10,5	0,3	-0,1	-0,9	1,4	**1,9**	10,5
N148	low max Wnd ;225° - EG_Gunstig	0,3	**-0,3**	0,5	0,2	**0,1**	-1,9	0,7
N148	high max Wnd ;135° - EG_Ongunstig	-0,3	0,0	**-1,9**	-0,1	-0,2	1,6	1,9
N148	low max Wnd ;135° - EG_Gunstig	**-0,3**	0,0	-1,8	**-0,2**	-0,1	1,6	1,8
N148	low max Wnd ;315° - EG_Gunstig	**6,3**	**6,1**	**42,9**	**7,9**	**-7,3**	**-2,4**	**43,8**
N148	low max Wnd ;45° - EG_Gunstig	-0,3	0,3	-0,6	0,0	-0,2	**1,8**	0,8
N151	low max Wnd ;45° - EG_Gunstig	**-16,7**	**13,2**	-0,3	-3,5	-3,6	-1,6	21,2
N151	low max Wnd ;225° - EG_Gunstig	**143,6**	**-139,6**	**0,7**	**20,1**	**20,2**	**2,6**	**200,3**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N151	high max Wnd ;135° - EG_Ongunstig	-7,8	-0,5	**-0,8**	-1,0	-1,2	-1,8	7,9
N151	high max Wnd ;45° - EG_Ongunstig	-16,6	13,0	-0,6	**-3,6**	**-3,6**	-1,6	21,1
N151	low max Wnd ;135° - EG_Gunstig	-7,9	-0,4	-0,5	-1,0	-1,1	**-1,8**	7,9
1X	low max Wnd ;45° - EG_Gunstig	**-22,9**	**18,4**	**1,0**	-3,7	-3,9	-1,6	29,4
1X	low max Wnd ;225° - EG_Gunstig	**175,3**	**-169,9**	**-7,9**	**20,1**	**20,4**	**2,6**	**244,3**
1X	high max Wnd ;45° - EG_Ongunstig	-22,9	18,3	0,8	**-3,7**	**-3,9**	-1,6	29,3
1X	low max Wnd ;135° - EG_Gunstig	-10,3	0,6	-0,1	-0,9	-1,4	**-1,9**	10,3
N153	low max Wnd ;225° - EG_Gunstig	**-6,2**	**6,0**	**42,4**	**7,9**	**7,2**	**2,5**	**43,3**
N153	high max Wnd ;45° - EG_Ongunstig	0,3	0,0	**-1,9**	-0,1	0,2	-1,5	1,9
N153	low max Wnd ;45° - EG_Gunstig	**0,3**	0,0	-1,8	**-0,2**	0,1	-1,5	1,8
N153	low max Wnd ;315° - EG_Gunstig	-0,3	**-0,3**	0,5	0,2	**-0,1**	1,9	0,6
N153	low max Wnd ;135° - EG_Gunstig	0,3	0,3	-0,6	0,0	0,2	**-1,8**	0,7
N155	low max Wnd ;45° - EG_Gunstig	**-14,9**	**11,4**	-0,2	-3,5	-3,6	-1,6	18,8
N155	low max Wnd ;225° - EG_Gunstig	**140,7**	**-136,7**	**0,6**	**20,0**	**20,2**	**2,6**	**196,2**
N155	high max Wnd ;225° - EG_Ongunstig	5,4	2,8	**-0,9**	0,7	0,8	1,8	6,2
N155	high max Wnd ;45° - EG_Ongunstig	-14,8	11,3	-0,4	**-3,5**	**-3,6**	-1,6	18,6
N155	low max Wnd ;135° - EG_Gunstig	-5,8	-2,4	-0,3	-0,9	-1,1	**-1,8**	6,3
N156	low max Wnd ;45° - EG_Gunstig	**-18,4**	**14,9**	-0,4	-3,5	-3,6	-1,6	23,7
N156	low max Wnd ;225° - EG_Gunstig	**146,5**	**-142,5**	**0,8**	**20,1**	**20,2**	**2,6**	**204,4**
N156	high max Wnd ;135° - EG_Ongunstig	-9,9	1,6	**-0,9**	-1,0	-1,1	-1,8	10,0
N156	high max Wnd ;45° - EG_Ongunstig	-18,3	14,8	-0,6	**-3,6**	**-3,6**	-1,6	23,6
N156	low max Wnd ;135° - EG_Gunstig	-9,9	1,7	-0,7	-1,0	-1,1	**-1,8**	10,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N159	low max Wnd ;225° - EG_Gunstig	**-1,0**	**1,0**	**0,3**	0,0	0,0	**2,6**	**1,4**
N159	low max Wnd ;315° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	1,9	0,0
N159	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	-1,8	0,1
N159	high max Wnd ;315° - EG_Ongunstig	-0,7	0,7	0,1	**0,0**	**-0,1**	2,5	1,0
N159	low max Wnd ;45° - EG_Gunstig	0,0	0,0	0,0	**0,1**	**0,1**	-1,6	0,1
N159	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1
N160	low max Wnd ;225° - EG_Gunstig	**-0,8**	**0,8**	**0,2**	0,0	0,0	**2,6**	**1,2**
N160	low max Wnd ;315° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	1,9	0,1
N160	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	1,8	0,1
N160	high max Wnd ;315° - EG_Ongunstig	-0,6	0,6	0,0	**-0,1**	**-0,1**	2,5	0,9
N160	low max Wnd ;45° - EG_Gunstig	-0,1	0,1	0,0	**0,0**	**0,1**	-1,6	0,1
N160	low max Wnd ;135° - EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**-1,8**	0,0
N165	low max Wnd ;135° - EG_Gunstig	**14,9**	**11,1**	-0,2	-3,5	3,6	1,6	18,6
N165	high max Wnd ;315° - EG_Ongunstig	-5,6	2,9	**-0,9**	0,7	-0,8	-1,9	6,4
N165	high max Wnd ;135° - EG_Ongunstig	14,8	11,0	-0,4	**-3,5**	**3,6**	1,7	18,4
N165	low max Wnd ;315° - EG_Gunstig	**-142,4**	**-138,3**	**0,6**	**20,2**	**-20,4**	**-2,5**	**198,5**
N165	low max Wnd ;45° - EG_Gunstig	6,0	-2,8	-0,3	-0,9	1,1	**1,9**	6,6
N166	low max Wnd ;135° - EG_Gunstig	**18,6**	**14,8**	-0,4	-3,5	3,6	1,6	23,8
N166	high max Wnd ;45° - EG_Ongunstig	10,1	1,3	**-0,9**	-1,0	1,1	1,9	10,3
N166	high max Wnd ;135° - EG_Ongunstig	18,5	14,7	-0,6	**-3,5**	**3,6**	1,7	23,6
N166	low max Wnd ;315° - EG_Gunstig	**-148,0**	**-143,9**	**0,8**	**20,3**	**-20,4**	**-2,5**	**206,5**
N166	low max Wnd ;45° - EG_Gunstig	10,2	1,5	-0,7	-1,0	1,1	**1,9**	10,3

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N167	low max Wnd ;225° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	-2,0	0,0
N167	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	1,9	0,1
N167	high max Wnd ;225° - EG_Ongunstig	0,7	0,7	0,1	**0,0**	**0,0**	-2,5	1,0
N167	low max Wnd ;135° - EG_Gunstig	0,0	0,0	0,0	**0,1**	**-0,1**	1,6	0,1
N167	low max Wnd ;315° - EG_Gunstig	**1,0**	**1,0**	**0,3**	0,0	0,0	**-2,5**	**1,4**
N167	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,9**	0,1
N168	low max Wnd ;225° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	-2,0	0,1
N168	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	-1,9	0,1
N168	high max Wnd ;225° - EG_Ongunstig	0,6	0,6	0,0	**-0,1**	**0,1**	-2,5	0,9
N168	low max Wnd ;135° - EG_Gunstig	0,1	0,1	0,0	**0,0**	**-0,1**	1,6	0,1
N168	low max Wnd ;315° - EG_Gunstig	**0,8**	**0,9**	**0,2**	0,0	0,0	**-2,5**	**1,2**
N168	low max Wnd ;45° - EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**1,9**	0,0
N169	low max Wnd ;315° - EG_Gunstig	**-15,1**	**-11,3**	-0,2	3,5	-3,6	1,6	18,8
N169	high max Wnd ;45° - EG_Ongunstig	5,1	-2,5	**-0,9**	-0,6	0,8	-1,7	5,8
N169	high max Wnd ;225° - EG_Ongunstig	-15,0	-11,1	-0,4	**3,6**	**-3,7**	1,7	18,7
N169	low max Wnd ;135° - EG_Gunstig	**142,7**	**138,6**	**0,6**	**-20,3**	**20,5**	**-2,6**	**199,0**
N169	low max Wnd ;225° - EG_Gunstig	-5,6	2,1	-0,3	0,9	-1,1	**1,7**	6,0
N170	low max Wnd ;315° - EG_Gunstig	**-18,8**	**-15,0**	-0,4	3,6	-3,6	1,6	24,0
N170	high max Wnd ;315° - EG_Ongunstig	-9,4	-1,6	**-0,9**	1,0	-1,1	1,7	9,6
N170	high max Wnd ;225° - EG_Ongunstig	-18,7	-14,9	-0,6	**3,6**	**-3,7**	1,6	23,9
N170	low max Wnd ;135° - EG_Gunstig	**148,5**	**144,3**	**0,8**	**-20,3**	**20,4**	**-2,5**	**207,1**
N170	low max Wnd ;225° - EG_Gunstig	-9,5	-1,8	-0,7	1,0	-1,1	**1,7**	9,7

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N171	low max Wnd ;45° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	-1,8	0,0
N171	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	1,7	0,1
N171	low max Wnd ;315° - EG_Gunstig	0,0	0,0	0,0	**-0,1**	**0,1**	1,6	0,1
N171	high max Wnd ;135° - EG_Ongunstig	-0,7	-0,7	0,1	**0,0**	**0,0**	-2,5	1,1
N171	low max Wnd ;135° - EG_Gunstig	**-1,0**	**-1,0**	**0,3**	0,0	0,0	**-2,5**	**1,4**
N171	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,7**	0,1
N172	low max Wnd ;45° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	-1,8	0,1
N172	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	-1,7	0,1
N172	low max Wnd ;315° - EG_Gunstig	-0,1	-0,1	0,0	**0,0**	**0,1**	1,6	0,1
N172	high max Wnd ;135° - EG_Ongunstig	-0,6	-0,6	0,0	**0,1**	**-0,1**	-2,5	0,9
N172	low max Wnd ;135° - EG_Gunstig	**-0,8**	**-0,9**	**0,2**	0,0	0,0	**-2,6**	**1,2**
N172	low max Wnd ;225° - EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**1,7**	0,0
N173	low max Wnd ;225° - EG_Gunstig	**14,9**	**-10,9**	-0,2	3,5	3,6	-1,8	18,5
N173	high max Wnd ;135° - EG_Ongunstig	-5,4	-2,7	**-0,9**	-0,6	-0,8	1,8	6,0
N173	low max Wnd ;45° - EG_Gunstig	**-143,3**	**138,9**	**0,6**	**-20,4**	**-20,5**	**2,8**	**199,6**
N173	high max Wnd ;315° - EG_Ongunstig	14,8	-10,7	-0,4	**3,5**	**3,7**	-1,8	18,3
N173	low max Wnd ;315° - EG_Gunstig	5,8	2,6	-0,3	0,9	1,1	**-1,8**	6,3
N174	low max Wnd ;225° - EG_Gunstig	**19,0**	**-14,9**	-0,4	3,5	3,6	-1,8	24,1
N174	high max Wnd ;225° - EG_Ongunstig	9,9	-1,4	**-0,9**	1,0	1,1	-1,8	10,0
N174	low max Wnd ;45° - EG_Gunstig	**-149,7**	**145,3**	**0,8**	**-20,4**	**-20,5**	**2,8**	**208,6**
N174	high max Wnd ;315° - EG_Ongunstig	18,9	-14,8	-0,6	**3,6**	**3,6**	-1,8	24,0
N174	low max Wnd ;315° - EG_Gunstig	9,9	-1,5	-0,7	0,9	1,1	**-1,8**	10,0

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N175	low max Wnd ;135° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	1,9	0,0
N175	low max Wnd ;45° - EG_Gunstig	**1,0**	**-1,0**	**0,3**	0,0	0,0	**2,8**	**1,4**
N175	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	-1,8	0,1
N175	low max Wnd ;225° - EG_Gunstig	0,0	0,0	0,0	**-0,1**	**-0,1**	-1,8	0,1
N175	high max Wnd ;45° - EG_Ongunstig	0,8	-0,8	0,1	**0,0**	**0,0**	2,8	1,1
N175	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1
N176	low max Wnd ;135° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	1,9	0,1
N176	low max Wnd ;45° - EG_Gunstig	**0,9**	**-0,9**	**0,2**	0,0	0,0	**2,8**	**1,2**
N176	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	**-0,1**	0,0	0,0	1,8	0,1
N176	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	0,0	**0,0**	**-0,1**	-1,8	0,1
N176	high max Wnd ;45° - EG_Ongunstig	0,6	-0,6	0,0	**0,1**	**0,1**	2,8	0,9
N176	low max Wnd ;315° - EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**-1,8**	0,0
N202	low max Wnd ;315° - EG_Gunstig	**-16,8**	**-13,1**	-0,3	3,5	-3,6	1,6	21,3
N202	high max Wnd ;315° - EG_Ongunstig	-7,4	0,5	**-0,8**	0,9	-1,1	1,7	7,4
N202	high max Wnd ;225° - EG_Ongunstig	-16,7	-12,8	-0,6	**3,5**	**-3,6**	1,6	21,0
N202	low max Wnd ;135° - EG_Gunstig	**145,7**	**141,4**	**1,0**	**-20,3**	**20,4**	**-2,5**	**203,0**
N202	low max Wnd ;225° - EG_Gunstig	-7,4	0,3	-0,6	0,9	-1,1	**1,7**	7,5
1P2	low max Wnd ;315° - EG_Gunstig	**-23,1**	**-18,3**	**1,0**	3,7	-3,9	1,7	29,5
1P2	high max Wnd ;225° - EG_Ongunstig	-23,0	-18,1	0,7	**3,7**	**-4,0**	1,7	29,3
1P2	low max Wnd ;135° - EG_Gunstig	**177,8**	**172,0**	**-7,7**	**-20,4**	**20,7**	**-2,5**	**247,5**
1P2	low max Wnd ;225° - EG_Gunstig	-9,8	-0,7	-0,2	0,8	-1,3	**1,7**	9,8
N203	high max Wnd ;225° - EG_Ongunstig	0,3	0,0	**-1,9**	0,1	0,2	1,6	1,9

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N203	low max Wnd ;315° - EG_Gunstig	**0,3**	0,0	-1,8	**0,2**	0,1	1,6	1,8
N203	low max Wnd ;45° - EG_Gunstig	-0,3	**0,2**	0,5	-0,2	**-0,1**	-1,8	0,6
N203	low max Wnd ;135° - EG_Gunstig	**-6,3**	**-6,1**	**43,3**	**-8,0**	**7,3**	**-2,4**	**44,1**
N203	low max Wnd ;225° - EG_Gunstig	0,3	-0,3	-0,6	0,0	0,2	**1,6**	0,7
N204	low max Wnd ;225° - EG_Gunstig	**16,9**	**-12,8**	-0,3	3,5	3,6	-1,8	21,2
N204	high max Wnd ;225° - EG_Ongunstig	7,7	0,8	**-0,8**	0,9	1,1	-1,8	7,7
N204	low max Wnd ;45° - EG_Gunstig	**-146,6**	**142,0**	**1,0**	**-20,4**	**-20,5**	**2,8**	**204,1**
N204	high max Wnd ;315° - EG_Ongunstig	16,7	-12,6	-0,6	**3,5**	**3,6**	-1,8	20,9
N204	low max Wnd ;315° - EG_Gunstig	7,7	0,6	-0,5	0,9	1,1	**-1,8**	7,8
1Y2	low max Wnd ;225° - EG_Gunstig	**23,2**	**-18,0**	**1,0**	3,6	3,9	-1,8	29,3
1Y2	low max Wnd ;45° - EG_Gunstig	**-178,9**	**172,7**	**-7,7**	**-20,4**	**-20,8**	**2,8**	**248,8**
1Y2	high max Wnd ;315° - EG_Ongunstig	23,1	-17,8	0,7	**3,7**	**3,9**	-1,8	29,1
1Y2	low max Wnd ;315° - EG_Gunstig	10,1	-0,3	-0,2	0,8	1,3	**-1,8**	10,1
N205	low max Wnd ;225° - EG_Gunstig	**-0,3**	0,0	-1,8	**0,2**	-0,2	-1,7	1,8
N205	high max Wnd ;315° - EG_Ongunstig	-0,3	0,0	**-1,9**	0,2	-0,2	-1,7	1,9
N205	low max Wnd ;45° - EG_Gunstig	**6,3**	**-6,1**	**43,5**	**-8,1**	**-7,3**	**2,7**	**44,4**
N205	low max Wnd ;135° - EG_Gunstig	0,3	**0,2**	0,5	-0,2	**0,1**	1,9	0,6
N205	low max Wnd ;315° - EG_Gunstig	-0,3	-0,3	-0,6	0,0	-0,2	**-1,7**	0,7
N206	low max Wnd ;135° - EG_Gunstig	**16,7**	**12,9**	-0,3	-3,5	3,6	1,6	21,1
N206	high max Wnd ;45° - EG_Ongunstig	7,9	-1,0	**-0,8**	-0,9	1,1	1,8	8,0
N206	high max Wnd ;135° - EG_Ongunstig	16,5	12,7	-0,6	**-3,5**	**3,6**	1,6	20,8
N206	low max Wnd ;315° - EG_Gunstig	**-145,3**	**-141,1**	**1,0**	**20,2**	**-20,4**	**-2,5**	**202,5**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N206	low max Wnd ;45° - EG_Gunstig	8,0	-0,8	-0,5	-0,9	1,1	**1,9**	8,0
1XY2	low max Wnd ;135° - EG_Gunstig	**22,9**	**18,0**	**1,0**	-3,6	3,9	1,7	29,2
1XY2	high max Wnd ;135° - EG_Ongunstig	22,8	17,9	0,7	**-3,6**	**3,9**	1,7	29,0
1XY2	low max Wnd ;315° - EG_Gunstig	**-177,3**	**-171,6**	**-7,7**	**20,3**	**-20,6**	**-2,5**	**246,8**
1XY2	low max Wnd ;45° - EG_Gunstig	10,4	0,1	-0,2	-0,8	1,3	**1,9**	10,4
N207	low max Wnd ;225° - EG_Gunstig	0,3	**-0,3**	0,5	0,2	**0,1**	-2,0	0,7
N207	high max Wnd ;135° - EG_Ongunstig	-0,3	0,0	**-1,9**	-0,1	-0,2	1,6	1,9
N207	low max Wnd ;135° - EG_Gunstig	**-0,3**	0,0	-1,8	**-0,2**	-0,1	1,6	1,8
N207	low max Wnd ;315° - EG_Gunstig	**6,3**	**6,0**	**43,2**	**7,9**	**-7,3**	**-2,4**	**44,0**
N207	low max Wnd ;45° - EG_Gunstig	-0,3	0,4	-0,6	0,0	-0,2	**1,8**	0,8
N208	low max Wnd ;45° - EG_Gunstig	**-16,6**	**13,1**	-0,3	-3,5	-3,6	-1,6	21,1
N208	low max Wnd ;225° - EG_Gunstig	**143,7**	**-139,6**	**1,0**	**20,0**	**20,2**	**2,5**	**200,3**
N208	high max Wnd ;135° - EG_Ongunstig	-7,7	-0,7	**-0,8**	-0,9	-1,1	-1,8	7,7
N208	high max Wnd ;45° - EG_Ongunstig	-16,4	12,9	-0,6	**-3,5**	**-3,6**	-1,6	20,9
N208	low max Wnd ;135° - EG_Gunstig	-7,8	-0,5	-0,5	-0,9	-1,1	**-1,8**	7,8
1X2	low max Wnd ;45° - EG_Gunstig	**-22,8**	**18,3**	**1,0**	-3,6	-3,9	-1,6	29,3
1X2	low max Wnd ;225° - EG_Gunstig	**175,4**	**-169,8**	**-7,6**	**20,1**	**20,4**	**2,6**	**244,3**
1X2	high max Wnd ;45° - EG_Ongunstig	-22,7	18,1	0,7	**-3,7**	**-3,9**	-1,6	29,0
1X2	low max Wnd ;135° - EG_Gunstig	-10,2	0,5	-0,2	-0,8	-1,3	**-1,8**	10,2
N209	low max Wnd ;225° - EG_Gunstig	**-6,1**	**6,0**	**42,7**	**7,9**	**7,2**	**2,4**	**43,5**
N209	high max Wnd ;45° - EG_Ongunstig	0,3	0,0	**-1,9**	-0,1	0,2	-1,5	1,9
N209	low max Wnd ;45° - EG_Gunstig	**0,3**	0,0	-1,8	**-0,2**	0,1	-1,5	1,8

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N209	low max Wnd ;315° - EG_Gunstig	-0,3	**-0,3**	0,5	0,2	**-0,1**	1,9	0,6
N209	low max Wnd ;135° - EG_Gunstig	0,3	0,3	-0,6	0,0	0,2	**-1,7**	0,8
N210	low max Wnd ;45° - EG_Gunstig	**-14,9**	**11,3**	-0,2	-3,5	-3,6	-1,6	18,7
N210	low max Wnd ;225° - EG_Gunstig	**140,8**	**-136,7**	**0,8**	**20,0**	**20,2**	**2,5**	**196,3**
N210	high max Wnd ;225° - EG_Ongunstig	5,6	2,7	**-1,0**	0,7	0,8	1,8	6,3
N210	high max Wnd ;45° - EG_Ongunstig	-14,7	11,1	-0,5	**-3,5**	**-3,6**	-1,6	18,4
N210	low max Wnd ;135° - EG_Gunstig	-5,8	-2,5	-0,3	-0,9	-1,1	**-1,8**	6,3
N211	low max Wnd ;45° - EG_Gunstig	**-18,4**	**14,8**	-0,4	-3,5	-3,6	-1,6	23,6
N211	low max Wnd ;225° - EG_Gunstig	**146,5**	**-142,4**	**1,1**	**20,1**	**20,2**	**2,5**	**204,3**
N211	high max Wnd ;135° - EG_Ongunstig	-9,7	1,3	**-1,0**	-1,0	-1,1	-1,8	9,8
N211	high max Wnd ;45° - EG_Ongunstig	-18,2	14,6	-0,7	**-3,5**	**-3,6**	-1,6	23,4
N211	low max Wnd ;135° - EG_Gunstig	-9,8	1,6	-0,7	-0,9	-1,1	**-1,8**	9,9
N212	low max Wnd ;225° - EG_Gunstig	**-1,0**	**1,0**	**0,6**	0,0	0,0	**2,5**	**1,5**
N212	low max Wnd ;315° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	2,0	0,1
N212	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-1,8	0,2
N212	high max Wnd ;315° - EG_Ongunstig	-0,7	0,7	0,1	**0,0**	**-0,1**	2,5	1,0
N212	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	**0,1**	**0,1**	-1,6	0,1
N212	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1
N213	low max Wnd ;225° - EG_Gunstig	**-0,8**	**0,8**	**0,4**	0,0	0,0	**2,5**	**1,3**
N213	low max Wnd ;315° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	2,0	0,1
N213	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	1,8	0,2
N213	high max Wnd ;315° - EG_Ongunstig	-0,6	0,6	0,0	**-0,1**	**-0,1**	2,5	0,9

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N213	low max Wnd ;45° - EG_Gunstig	-0,1	0,1	0,0	**0,0**	**0,1**	-1,6	0,1
N213	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1
N214	low max Wnd ;135° - EG_Gunstig	**14,8**	**11,0**	-0,2	-3,5	3,6	1,6	18,5
N214	high max Wnd ;315° - EG_Ongunstig	-5,7	2,8	**-1,0**	0,7	-0,9	-1,9	6,5
N214	high max Wnd ;135° - EG_Ongunstig	14,7	10,8	-0,5	**-3,5**	**3,6**	1,6	18,2
N214	low max Wnd ;315° - EG_Gunstig	**-142,5**	**-138,3**	**0,8**	**20,2**	**-20,4**	**-2,5**	**198,6**
N214	low max Wnd ;45° - EG_Gunstig	5,9	-2,9	-0,3	-0,9	1,1	**1,9**	6,6
N215	low max Wnd ;135° - EG_Gunstig	**18,5**	**14,7**	-0,4	-3,5	3,6	1,6	23,7
N215	high max Wnd ;45° - EG_Ongunstig	10,0	1,1	**-1,0**	-0,9	1,1	1,8	10,1
N215	high max Wnd ;135° - EG_Ongunstig	18,4	14,5	-0,7	**-3,5**	**3,6**	1,6	23,4
N215	low max Wnd ;315° - EG_Gunstig	**-148,1**	**-143,8**	**1,1**	**20,3**	**-20,4**	**-2,5**	**206,4**
N215	low max Wnd ;45° - EG_Gunstig	10,1	1,3	-0,7	-0,9	1,1	**1,9**	10,2
N216	low max Wnd ;225° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	-2,0	0,1
N216	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	1,8	0,2
N216	high max Wnd ;225° - EG_Ongunstig	0,7	0,7	0,1	**0,0**	**0,0**	-2,4	1,1
N216	low max Wnd ;135° - EG_Gunstig	0,0	0,0	-0,1	**0,1**	**-0,1**	1,6	0,1
N216	low max Wnd ;315° - EG_Gunstig	**1,0**	**1,0**	**0,6**	0,0	0,0	**-2,5**	**1,5**
N216	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,9**	0,1
N217	low max Wnd ;225° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	-2,0	0,1
N217	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-1,9	0,2
N217	high max Wnd ;225° - EG_Ongunstig	0,6	0,6	0,0	**-0,1**	**0,1**	-2,5	0,9
N217	low max Wnd ;135° - EG_Gunstig	0,1	0,1	0,0	**0,0**	**-0,1**	1,6	0,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N217	low max Wnd ;315° - EG_Gunstig	**0,8**	**0,9**	**0,5**	0,0	0,0	**-2,5**	**1,3**
N217	low max Wnd ;45° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,9**	0,1
N218	low max Wnd ;315° - EG_Gunstig	**-15,0**	**-11,2**	-0,2	3,5	-3,6	1,6	18,7
N218	high max Wnd ;45° - EG_Ongunstig	5,3	-2,4	**-1,0**	-0,7	0,8	-1,7	5,9
N218	high max Wnd ;225° - EG_Ongunstig	-14,8	-11,0	-0,5	**3,5**	**-3,6**	1,6	18,5
N218	low max Wnd ;135° - EG_Gunstig	**142,8**	**138,6**	**0,8**	**-20,3**	**20,5**	**-2,5**	**199,0**
N218	low max Wnd ;225° - EG_Gunstig	-5,5	2,2	-0,3	0,9	-1,1	**1,7**	6,0
N219	low max Wnd ;315° - EG_Gunstig	**-18,7**	**-14,9**	-0,4	3,5	-3,6	1,6	23,9
N219	high max Wnd ;315° - EG_Ongunstig	-9,3	-1,4	**-1,0**	0,9	-1,1	1,7	9,4
N219	high max Wnd ;225° - EG_Ongunstig	-18,5	-14,7	-0,7	**3,6**	**-3,6**	1,6	23,6
N219	low max Wnd ;135° - EG_Gunstig	**148,5**	**144,3**	**1,1**	**-20,3**	**20,4**	**-2,5**	**207,0**
N219	low max Wnd ;225° - EG_Gunstig	-9,4	-1,6	-0,7	0,9	-1,1	**1,7**	9,5
N220	low max Wnd ;45° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	-1,8	0,1
N220	high max Wnd ;315° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	1,7	0,2
N220	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	**-0,1**	**0,1**	1,6	0,1
N220	high max Wnd ;135° - EG_Ongunstig	-0,7	-0,7	0,1	**0,0**	**0,0**	-2,5	1,1
N220	low max Wnd ;135° - EG_Gunstig	**-1,0**	**-1,0**	**0,6**	0,0	0,0	**-2,5**	**1,5**
N220	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,7**	0,1
N221	low max Wnd ;45° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	-1,8	0,1
N221	high max Wnd ;45° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-1,7	0,2
N221	low max Wnd ;315° - EG_Gunstig	-0,1	-0,1	0,0	**0,0**	**0,1**	1,6	0,1
N221	high max Wnd ;135° - EG_Ongunstig	-0,6	-0,6	0,0	**0,1**	**-0,1**	-2,5	0,9

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N221	low max Wnd ;135° - EG_Gunstig	**-0,8**	**-0,9**	**0,4**	0,0	0,0	**-2,5**	**1,3**
N221	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**1,7**	0,1
N222	low max Wnd ;225° - EG_Gunstig	**14,9**	**-10,8**	-0,2	3,5	3,6	-1,8	18,4
N222	high max Wnd ;135° - EG_Ongunstig	-5,5	-2,6	**-1,0**	-0,7	-0,8	1,8	6,1
N222	low max Wnd ;45° - EG_Gunstig	**-143,4**	**138,9**	**0,8**	**-20,4**	**-20,6**	**2,8**	**199,7**
N222	high max Wnd ;315° - EG_Ongunstig	14,7	-10,6	-0,5	**3,5**	**3,6**	-1,8	18,1
N222	low max Wnd ;315° - EG_Gunstig	5,7	2,7	-0,3	0,9	1,1	**-1,8**	6,3
N223	low max Wnd ;225° - EG_Gunstig	**18,9**	**-14,8**	-0,4	3,5	3,6	-1,8	24,0
N223	high max Wnd ;225° - EG_Ongunstig	9,7	-1,2	**-1,0**	0,9	1,1	-1,8	9,8
N223	low max Wnd ;45° - EG_Gunstig	**-149,7**	**145,2**	**1,2**	**-20,4**	**-20,5**	**2,8**	**208,6**
N223	high max Wnd ;315° - EG_Ongunstig	18,7	-14,6	-0,7	**3,5**	**3,6**	-1,8	23,8
N223	low max Wnd ;315° - EG_Gunstig	9,8	-1,4	-0,7	0,9	1,1	**-1,8**	9,9
N224	low max Wnd ;135° - EG_Gunstig	**0,0**	**0,0**	0,0	0,0	0,0	1,9	0,1
N224	low max Wnd ;45° - EG_Gunstig	**1,0**	**-1,0**	**0,7**	0,0	0,0	**2,8**	**1,6**
N224	high max Wnd ;225° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-1,8	0,2
N224	low max Wnd ;225° - EG_Gunstig	0,0	0,0	-0,1	**-0,1**	**-0,1**	-1,8	0,1
N224	high max Wnd ;45° - EG_Ongunstig	0,8	-0,8	0,1	**0,0**	**0,0**	2,8	1,1
N224	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1
N225	low max Wnd ;135° - EG_Gunstig	**0,0**	**0,0**	-0,1	0,0	0,0	1,9	0,1
N225	low max Wnd ;45° - EG_Gunstig	**0,9**	**-0,9**	**0,4**	0,0	0,0	**2,8**	**1,3**
N225	high max Wnd ;135° - EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	1,8	0,2
N225	low max Wnd ;225° - EG_Gunstig	0,1	-0,1	0,0	**0,0**	**-0,1**	-1,8	0,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N225	high max Wnd ;45° - EG_Ongunstig	0,6	-0,6	0,0	**0,1**	**0,1**	2,8	0,9
N225	low max Wnd ;315° - EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-1,8**	0,1

1. Table of contents

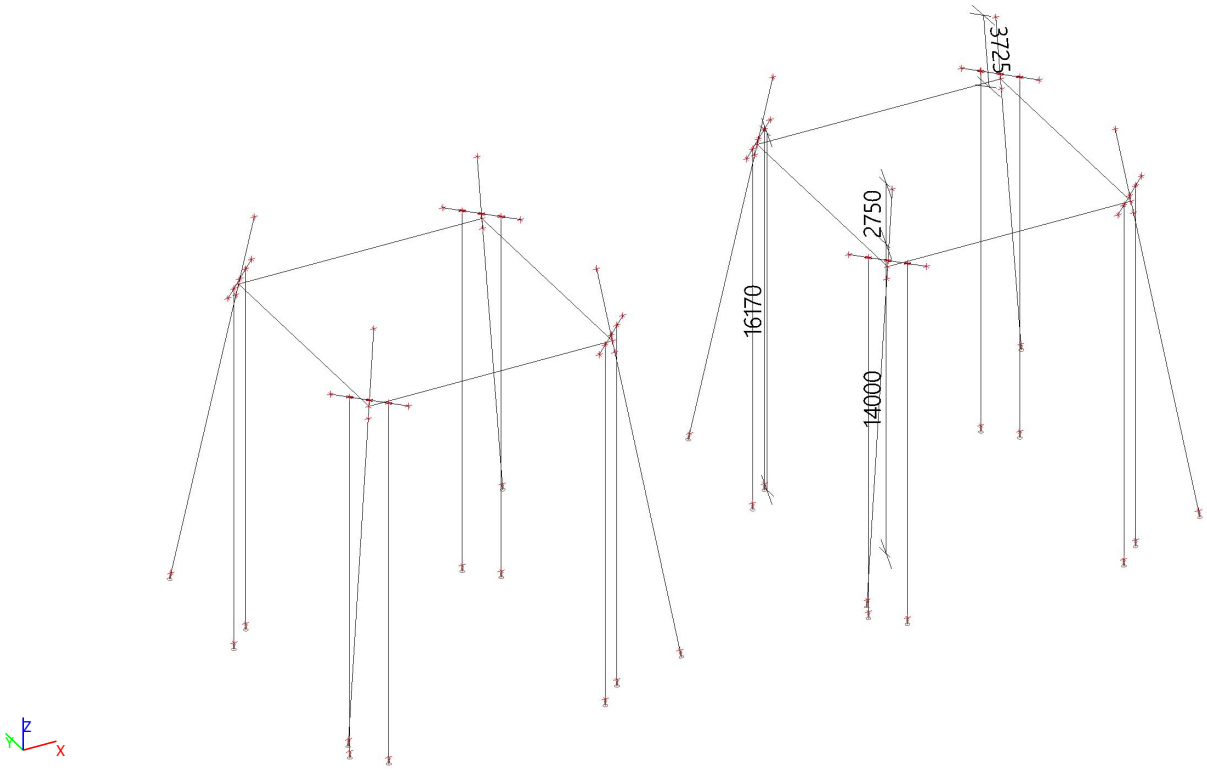
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2. Project

Licence user	[redacted]
Project	Opwaardering KIJ-BVW 380kV
Part	Koppelframe mast 144 - Wapeningtoetsing
Author	[redacted]
Date	11-05-2026
Structure	General XYZ
No. of nodes :	92
No. of beams :	64
No. of slabs :	0
No. of solids :	0
No. of used profiles :	6
No. of load cases :	9
No. of used materials :	9
Acceleration of gravity [m/s^2]	9,807
National code	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materials

Steel EC3

Name	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Colour
		G_{mod} [MPa]	α [m/mK]					
S 235 balk	7850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	

Name	Type	ρ [kg/m³]	Density in fresh state [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Colour
C12/15 Gescheurd	Concrete	2500,00	2600,00	9,0000e+03	0,23	0,01e-003	12,00	
C30/37 Gescheurd	Concrete	2500,00	2600,00	1,1000e+04	0,20	0,01e-003	30,00	
C30/37	Concrete	1500,00	2600,00	1,0900e+04	0,20	0,01e-003	30,00	
C12/15 Gescheurd	Concrete	1500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	

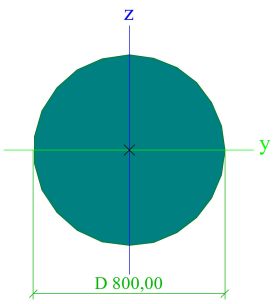
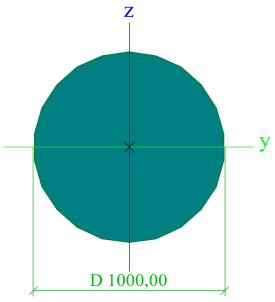
Explanations of symbols	
Density in fresh state	The value in the density in fresh state property is used only in case a composite deck is input and its self-weight load is taken into account.

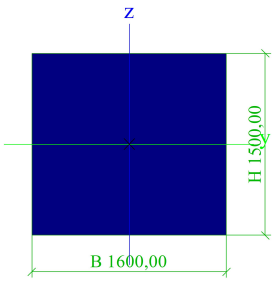
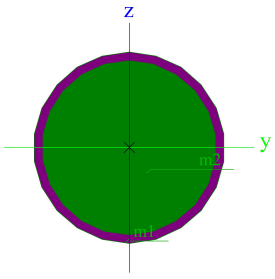
Reinforcement EC2

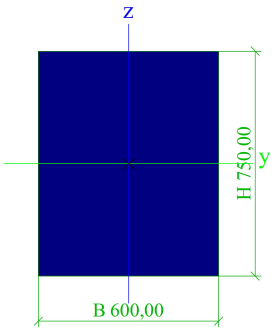
Name	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 400A	Reinforcement steel	7850,00	2,0000e+05	8,3333e+04	0,01e-003	400,0
B 500A	Reinforcement steel	7850,00	2,0000e+05	8,3333e+04	0,01e-003	500,0

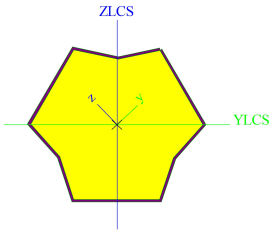
4.2. Cross-sections

Poer800		
Type	Circle	
Detailed	800,00	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
Fabrication	general	
Colour		
A [mm²]	5,0265e+05	
A_y [mm²], A_z [mm²]	4,5239e+05	4,5239e+05
A_L [m²/m], A_D [m²/m]	2,5131e+00	2,5131e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	400,00	400,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	2,0106e+10	2,0106e+10
i_y [mm], i_z [mm]	199,98	199,98
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,0265e+07	5,0265e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	8,5333e+07	8,5333e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	4,0212e+10	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00

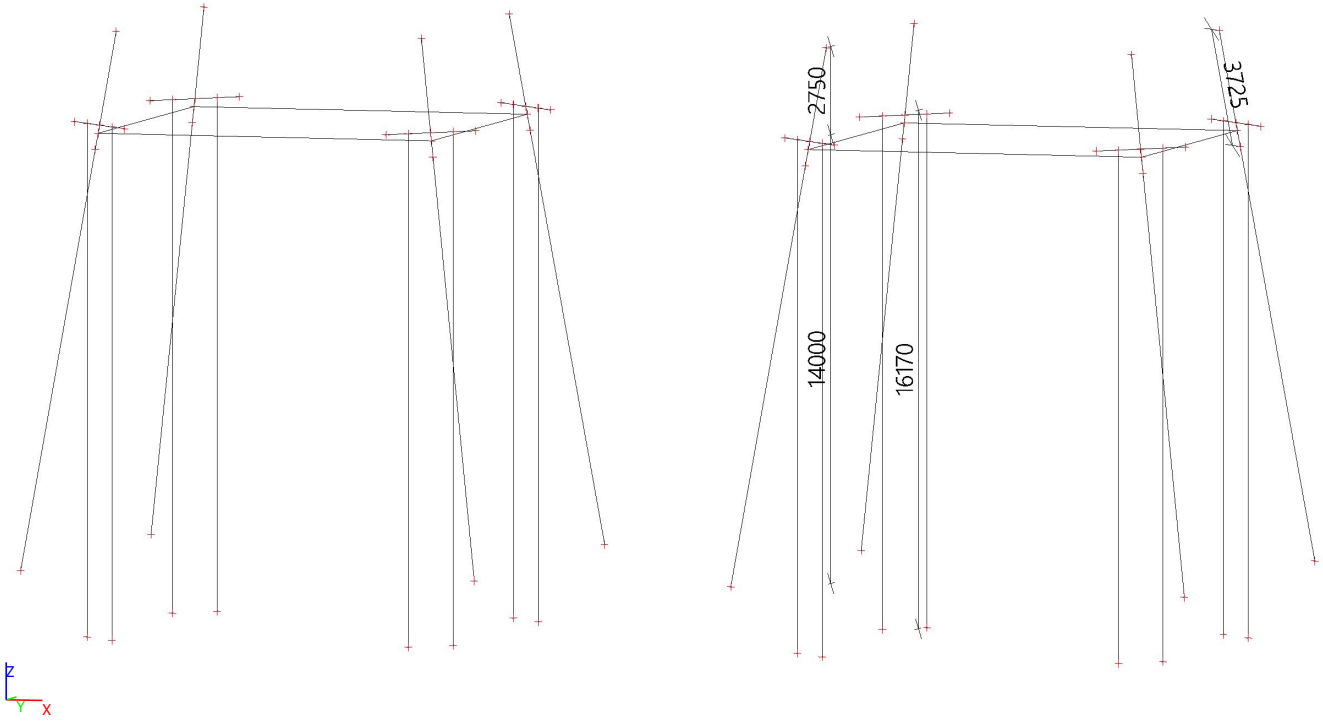
Picture		
Putring1000		
Type	Circle	
Detailed	1000,00	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
Fabrication	general	
Colour		
A [mm²]	7,8540e+05	
A_y [mm²], A_z [mm²]	7,0686e+05	7,0686e+05
A_L [m²/m], A_D [m²/m]	3,1414e+00	3,1414e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	500,00	500,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	4,9087e+10	4,9087e+10
i_y [mm], i_z [mm]	249,97	249,97
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	9,8175e+07	9,8175e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	1,6667e+08	1,6667e+08
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	9,8175e+10	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00
Picture		
lijnpoer		
Type	Rectangle	
Detailed	1500,00; 1600,00	
Shape type	Thick-walled	
Item material	C30/37 Gescheurd	
Fabrication	concrete	
Colour		
A [mm²]	2,4000e+06	
A_y [mm²], A_z [mm²]	2,0007e+06	2,0008e+06
A_L [m²/m], A_D [m²/m]	6,2000e+00	6,2000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	800,00	750,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	4,5000e+11	5,1200e+11
i_y [mm], i_z [mm]	433,01	461,88
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	6,0000e+08	6,4000e+08
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00

d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	8,0849e+11	2,2447e+15
β_y [mm], β_z [mm]	0,00	0,00
Picture		
LEKA Paal		
Type	type e	
Detailed	CHS219.1/10.0	
Shape type	Thick-walled	
Item material	S 235	
	C30/37	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	a	a
A [mm²]	8,1834e+03	
A_y [mm²], A_z [mm²]	5,1515e+03	5,1515e+03
A_L [m²/m], A_D [m²/m]	6,8829e-01	6,8829e-01
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	109,55	109,55
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	3,9972e+07	3,9972e+07
i_y [mm], i_z [mm]	69,89	69,89
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	3,6487e+05	3,6487e+05
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	4,9123e+05	4,9123e+05
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	115439254,87	115439254,87
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	115439254,87	115439254,87
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	8,0625e+07	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00
Picture		
Betonnen Blalk		
Type	Rectangle	
Detailed	750,00; 600,00	
Shape type	Thick-walled	
Item material	C30/37 Gescheurd	
Fabrication	concrete	
Colour		
A [mm²]	4,5000e+05	
A_y [mm²], A_z [mm²]	3,7515e+05	3,7510e+05
A_L [m²/m], A_D [m²/m]	2,7000e+00	2,7000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	300,00	375,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	2,1094e+10	1,3500e+10
i_y [mm], i_z [mm]	216,51	173,21
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,6250e+07	4,5000e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00

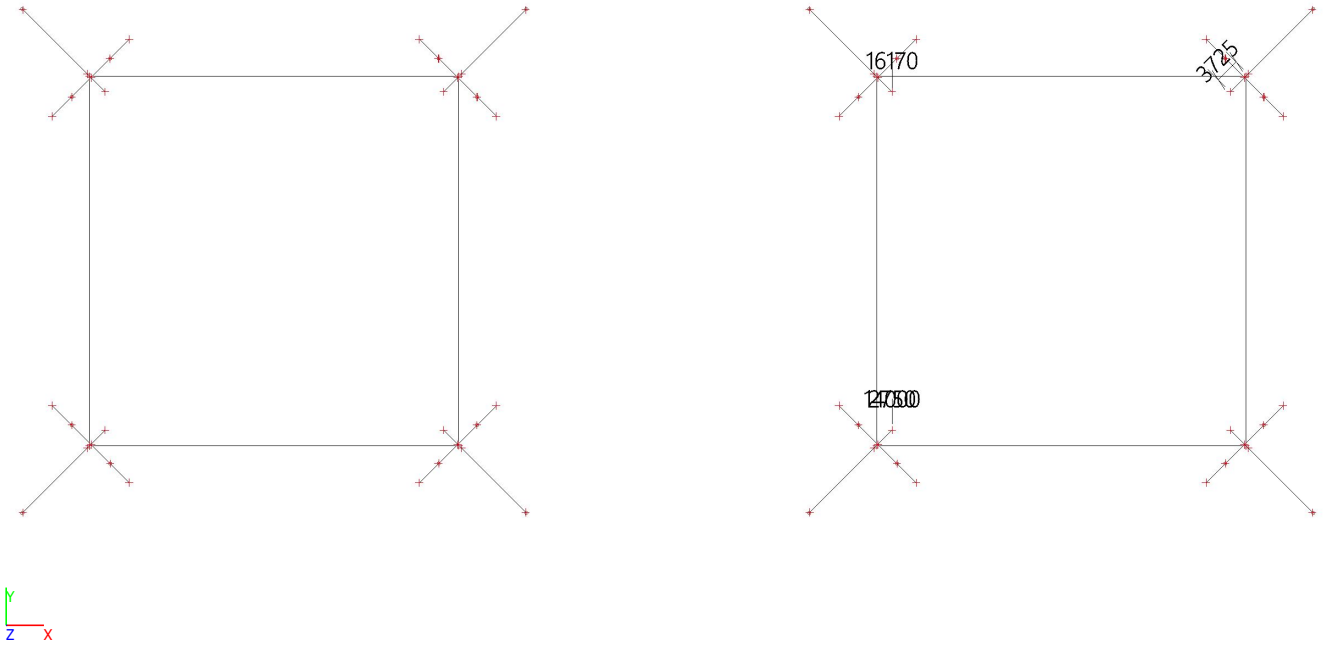
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm^4], I_w [mm^6]	2,7830e+10	4,1630e+13
β_y [mm], β_z [mm]	0,00	0,00
Picture		

LD1(31-plank)		
Type	General cross-section	
Shape type	Thick-walled	
Item material	C12/15 Gescheurd	
	S 235	
Fabrication	concrete	
Flexural buckling y-y, Flexural buckling z-z	d	d
A [mm^2]	6,0572e+05	
A_y [mm^2], A_z [mm^2]	3,6248e+05	3,6314e+05
A_L [m^2/m], A_D [m^2/m]	1,7651e+00	3,4664e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	553,25	9,99
$I_{Y.LCS}$ [mm^4], $I_{Z.LCS}$ [mm^4]	1,6274e+10	1,6264e+10
$I_{YZ.LCS}$ [mm^4]	-1,0231e+08	
α [deg]	43,55	
I_y [mm^4], I_z [mm^4]	1,6372e+10	1,6167e+10
i_y [mm], i_z [mm]	164,40	163,37
$W_{el.y}$ [mm^3], $W_{el.z}$ [mm^3]	5,7898e+07	5,8163e+07
$W_{pl.y}$ [mm^3], $W_{pl.z}$ [mm^3]	4,9594e+07	4,9245e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	601215312,58	595125922,92
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	597037111,16	590937542,96
d_y [mm], d_z [mm]	0,12	0,03
I_t [mm^4], I_w [mm^6]	2,6243e+10	1,7700e+12
β_y [mm], β_z [mm]	0,09	0,21
Picture		

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Mesh setup

Name	MeshSetup1
Generation of variable eccentricities on members instead of constant ones	×
Generation of nodes in connections of beam elements	×
Elastic mesh	✓
Use automatic mesh refinement	×
Connect members/nodes	✓
Division on haunches and arbitrary members	5
Division for integration strip and 2D-1D upgrade	50
Average number of 1D mesh elements on straight 1D members	1
Average size of 2D mesh element [m]	0,200
Average size of 1D mesh element on curved 1D members [m]	0,100
Minimal length of beam element [m]	0,100
Maximal length of beam element [m]	1000,000
Average size of tendons, elements on subsoil, nonlinear soil spring [m]	1,000
Maximal out of plane angle of a quadrilateral [mrad]	30,0
Minimal distance between definition point and line [m]	0,001
Average size of panel element [m]	1,000
Mesh refinement following the beam type	None
Definition of mesh element size for panels	Manual

5. Geometrie

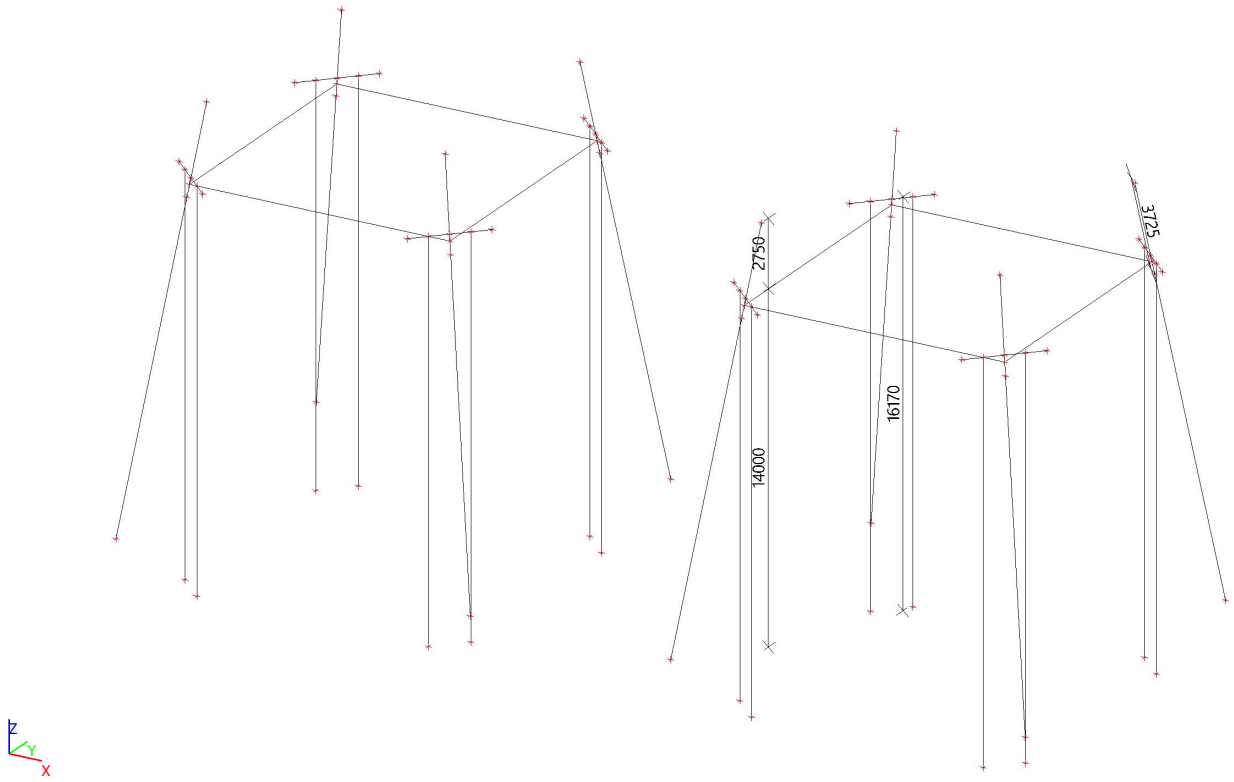
5.1. Nodes

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N122	-0,466	-0,466	-0,500
N123	-0,427	-0,433	-0,250
1P	-0,014	-0,014	2,650
N139	-2,417	-2,417	-14,033
N1	-0,540	-0,540	-1,000
N140	10,326	-0,466	-0,500
N141	10,287	-0,433	-0,250
1Y	9,874	-0,014	2,650
N143	12,277	-2,417	-14,033
N144	10,400	-0,540	-1,000
N145	10,326	10,326	-0,500
N146	10,287	10,293	-0,250
1XY	9,874	9,874	2,650
N148	12,277	12,277	-14,033
N149	10,400	10,400	-1,000
N150	-0,466	10,326	-0,500
N151	-0,427	10,293	-0,250
1X	-0,014	9,874	2,650
N153	-2,417	12,277	-14,033
N154	-0,540	10,400	-1,000
N155	0,693	11,413	-0,250
N156	-1,560	9,160	-0,250
N159	-0,994	9,726	-16,270
N160	0,127	10,847	-16,270
N165	9,167	11,413	-0,250
N166	11,420	9,160	-0,250
N167	10,858	9,722	-16,270
N168	9,733	10,847	-16,270
N169	0,693	-1,553	-0,250
N170	-1,560	0,700	-0,250
N171	-0,994	0,134	-16,270

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N172	0,131	-0,991	-16,270
N173	9,167	-1,553	-0,250
N174	11,420	0,700	-0,250
N175	10,854	0,134	-16,270
N176	9,733	-0,987	-16,270
N209	10,853	9,727	-0,250
N210	9,733	10,847	-0,250
N213	9,727	10,853	-0,250
N214	10,858	9,722	-0,250
N215	-0,994	0,134	-0,250
N220	0,131	-0,991	-0,250
N221	-0,994	9,726	-0,250
N222	0,127	10,847	-0,250
N224	10,854	0,134	-0,250
N227	9,733	-0,987	-0,250
N229	22,534	-0,466	-0,500
N230	22,573	-0,433	-0,250
1P2	22,986	-0,014	2,650
N231	20,583	-2,417	-14,033
N232	22,460	-0,540	-1,000
N233	33,326	-0,466	-0,500
N234	33,287	-0,433	-0,250
1Y2	32,874	-0,014	2,650
N235	35,277	-2,417	-14,033
N236	33,400	-0,540	-1,000
N237	33,326	10,326	-0,500
N238	33,287	10,293	-0,250
1XY2	32,874	9,874	2,650
N239	35,277	12,277	-14,033
N240	33,400	10,400	-1,000
N241	22,534	10,326	-0,500

Name	Coord X [m]	Coord Y [m]	Coord Z [m]
N242	22,573	10,293	-0,250
1X2	22,986	9,874	2,650
N243	20,583	12,277	-14,033
N244	22,460	10,400	-1,000
N245	23,693	11,413	-0,250
N246	21,440	9,160	-0,250
N247	22,006	9,726	-16,270
N248	23,127	10,847	-16,270
N249	32,167	11,413	-0,250
N250	34,420	9,160	-0,250
N251	33,858	9,722	-16,270
N252	32,733	10,847	-16,270
N253	23,693	-1,553	-0,250
N254	21,440	0,700	-0,250
N255	22,006	0,134	-16,270
N256	23,131	-0,991	-16,270
N257	32,167	-1,553	-0,250
N258	34,420	0,700	-0,250
N259	33,854	0,134	-16,270
N260	32,733	-0,987	-16,270
N261	33,853	9,727	-0,250
N262	32,733	10,847	-0,250
N263	32,727	10,853	-0,250
N264	33,858	9,722	-0,250
N265	22,006	0,134	-0,250
N266	23,131	-0,991	-0,250
N267	22,006	9,726	-0,250
N268	23,127	10,847	-0,250
N269	33,854	0,134	-0,250
N270	32,733	-0,987	-0,250

5.2. Analyse model met knopen

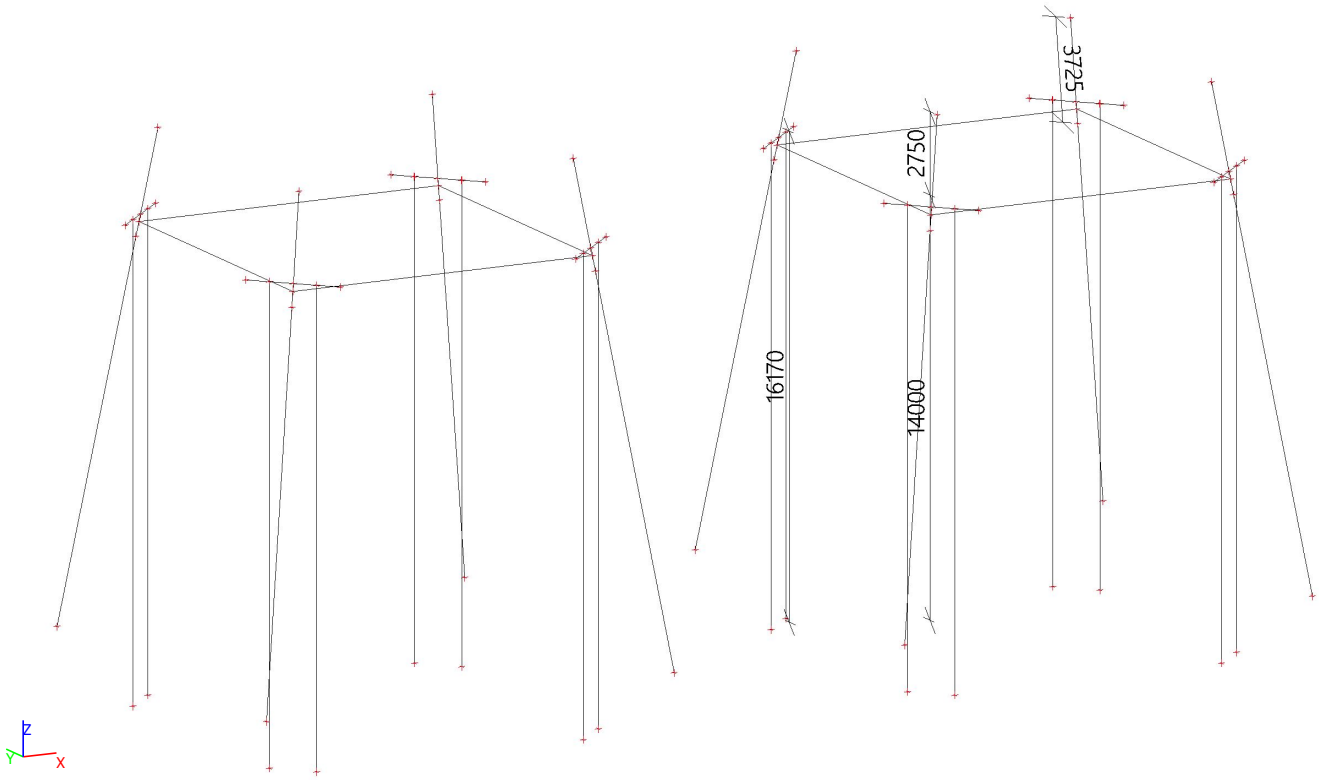


5.3. Members

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
(balk 600x750)1	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N150	N145	beam (80)
(balk 600x750)2	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N150	N122	beam (80)
(balk 600x750)3	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N145	N140	beam (80)
(balk 600x750)4	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N229	N233	beam (80)
(balk 600x750)5	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N241	N237	beam (80)
(balk 600x750)6	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N241	N229	beam (80)
(balk 600x750)7	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N237	N233	beam (80)
(balk 600x750)8	Betonnen Blalk - Rectangle (750,00; 600,00)	C30/37 Gescheurd	10,792	N122	N140	beam (80)
DIN34	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N156	N155	beam (80)
DIN37	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N166	N165	beam (80)
DIN38	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N170	N169	beam (80)
DIN39	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N174	N173	beam (80)
DIN52	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N246	N245	beam (80)
DIN53	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N250	N249	beam (80)
DIN54	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N254	N253	beam (80)
DIN55	lijnpoer - Rectangle (1500,00; 1600,00)	C30/37 Gescheurd	3,186	N258	N257	beam (80)
Paal_P	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N1	N139	column (100)
Paal_P2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N232	N231	column (100)
Paal_X	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N154	N153	column (100)
Paal_X1	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N221	N159	column (100)
Paal_X2	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N222	N160	column (100)
Paal_X3	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N214	N167	column (100)
Paal_X4	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N210	N168	column (100)
Paal_X5	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N215	N171	column (100)
Paal_X6	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N220	N172	column (100)
Paal_X7	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N224	N175	column (100)
Paal_X8	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N227	N176	column (100)
Paal_X18	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N244	N243	column (100)
Paal_X19	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N267	N247	column (100)

Name	Cross-section	Material	Length [m]	Beg. node	End node	Type
Paal_X20	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N268	N248	column (100)
Paal_X21	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N264	N251	column (100)
Paal_X22	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N262	N252	column (100)
Paal_X23	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N265	N255	column (100)
Paal_X24	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N266	N256	column (100)
Paal_X25	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N269	N259	column (100)
Paal_X26	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,020	N270	N260	column (100)
Paal_XY	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N149	N148	column (100)
Paal_XY2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N240	N239	column (100)
Paal_Y	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N144	N143	column (100)
Paal_Y2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,300	N236	N235	column (100)
Poer_P	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N141	1Y	column (100)
Poer_P1	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N140	N141	column (100)
Poer_P2	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N144	N140	column (100)
Poer_P6	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N234	1Y2	column (100)
Poer_P7	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N233	N234	column (100)
Poer_P8	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N236	N233	column (100)
Poer_X	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N123	1P	column (100)
Poer_X1	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N122	N123	column (100)
Poer_X2	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N1	N122	column (100)
Poer_X6	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N230	1P2	column (100)
Poer_X7	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N229	N230	column (100)
Poer_X8	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N232	N229	column (100)
Poer_XY	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N151	1X	column (100)
Poer_XY1	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N150	N151	column (100)
Poer_XY2	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N154	N150	column (100)
Poer_XY6	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N242	1X2	column (100)
Poer_XY7	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N241	N242	column (100)
Poer_XY8	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N244	N241	column (100)
Poer_Y	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N146	1XY	column (100)
Poer_Y1	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N145	N146	column (100)
Poer_Y2	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N149	N145	column (100)
Poer_Y6	Poer800 - Circle (800,00)	C12/15 Gescheurd	2,959	N238	1XY2	column (100)
Poer_Y7	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,255	N237	N238	column (100)
Poer_Y8	Putring1000 - Circle (1000,00)	C12/15 Gescheurd	0,511	N240	N237	column (100)

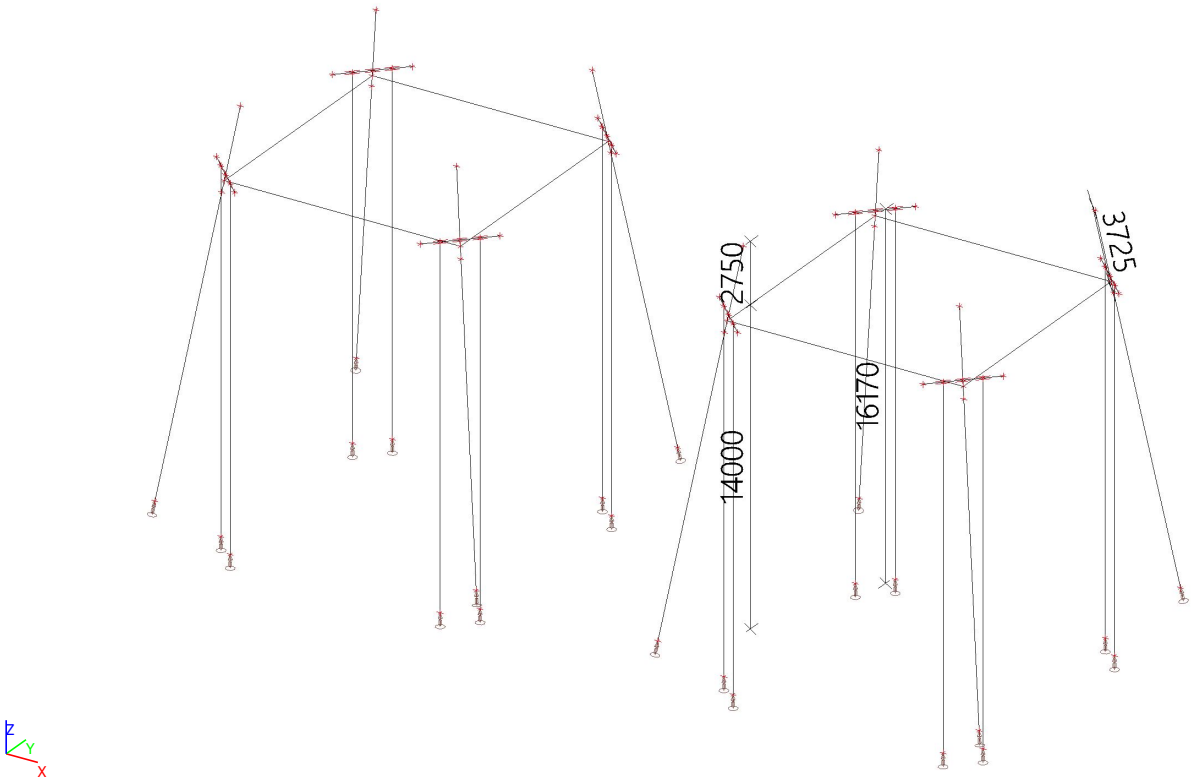
5.4. Analyse model met Staven



5.5. Nodal supports

Name	Node	System	Type	X	Y	Z	Rx	Ry	Rz	Angle [deg]
S_P	N139	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y	N143	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY	N148	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X	N153	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11
Sn [redacted]	N159	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK1	N160	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK2	N167	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK3	N168	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK4	N171	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK5	N172	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK6	N175	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK7	N176	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
S_P2	N231	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry8,11
S_Y2	N235	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx-8,11;Ry-8,11
S_XY2	N239	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry-8,11
S_X2	N243	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	Rx8,11;Ry8,11
Sn LK16	N247	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK17	N248	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK18	N251	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK19	N252	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK20	N255	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK21	N256	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK22	N259	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	
Sn LK23	N260	GCS	Standard	Free	Free	Nonlinear	Free	Free	Free	

5.6. Analyse model met Knoopondersteuningen



5.7. Line supports on member

Name	Type	Member	Pos x_1 [m]	Coor	X	Y	Z	Rx	Ry	Rz
		System	Pos x_2 [m]	Orig						
(PY-curve-2_Veen)	Line	Paal_P	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_Veen)1	Line	Paal_Y	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_Veen)2	Line	Paal_XY	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_Veen)3	Line	Paal_X	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_V1)	Line	Paal_P	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V1)1	Line	Paal_Y	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V1)2	Line	Paal_XY	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V1)3	Line	Paal_X	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V2)	Line	Paal_P	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)	Line	Paal_P	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)	Line	Paal_P	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)	Line	Paal_P	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)	Line	Paal_P	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_V2)1	Line	Paal_Y	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	10,000	From start						
(PY-curve-2_V3)1	Line	Paal_Y	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)1	Line	Paal_Y	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)1	Line	Paal_Y	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)1	Line	Paal_Y	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_V2)2	Line	Paal_XY	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)2	Line	Paal_XY	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)2	Line	Paal_XY	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)2	Line	Paal_XY	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)2	Line	Paal_XY	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_V2)3	Line	Paal_X	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)3	Line	Paal_X	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)3	Line	Paal_X	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)3	Line	Paal_X	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)3	Line	Paal_X	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_Veen)8	Line	Paal_X1	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)8	Line	Paal_X1	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)8	Line	Paal_X1	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)8	Line	Paal_X1	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)8	Line	Paal_X1	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)8	Line	Paal_X1	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)8	Line	Paal_X1	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)	Line	Paal_X1	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)	Line	Paal_X1	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)9	Line	Paal_X2	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)9	Line	Paal_X2	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)9	Line	Paal_X2	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)9	Line	Paal_X2	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)9	Line	Paal_X2	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)9	Line	Paal_X2	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)9	Line	Paal_X2	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)1	Line	Paal_X2	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)1	Line	Paal_X2	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	15,850	From start						
(PY-curve-2_Veen)10	Line	Paal_X3	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)10	Line	Paal_X3	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)10	Line	Paal_X3	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)10	Line	Paal_X3	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)10	Line	Paal_X3	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)10	Line	Paal_X3	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)10	Line	Paal_X3	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)2	Line	Paal_X3	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)2	Line	Paal_X3	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)11	Line	Paal_X4	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)11	Line	Paal_X4	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)11	Line	Paal_X4	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)11	Line	Paal_X4	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)11	Line	Paal_X4	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)11	Line	Paal_X4	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)11	Line	Paal_X4	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)3	Line	Paal_X4	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)3	Line	Paal_X4	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)12	Line	Paal_X5	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)12	Line	Paal_X5	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)12	Line	Paal_X5	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)12	Line	Paal_X5	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)12	Line	Paal_X5	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)12	Line	Paal_X5	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)12	Line	Paal_X5	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)4	Line	Paal_X5	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)4	Line	Paal_X5	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)13	Line	Paal_X6	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)13	Line	Paal_X6	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)13	Line	Paal_X6	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)13	Line	Paal_X6	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)13	Line	Paal_X6	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

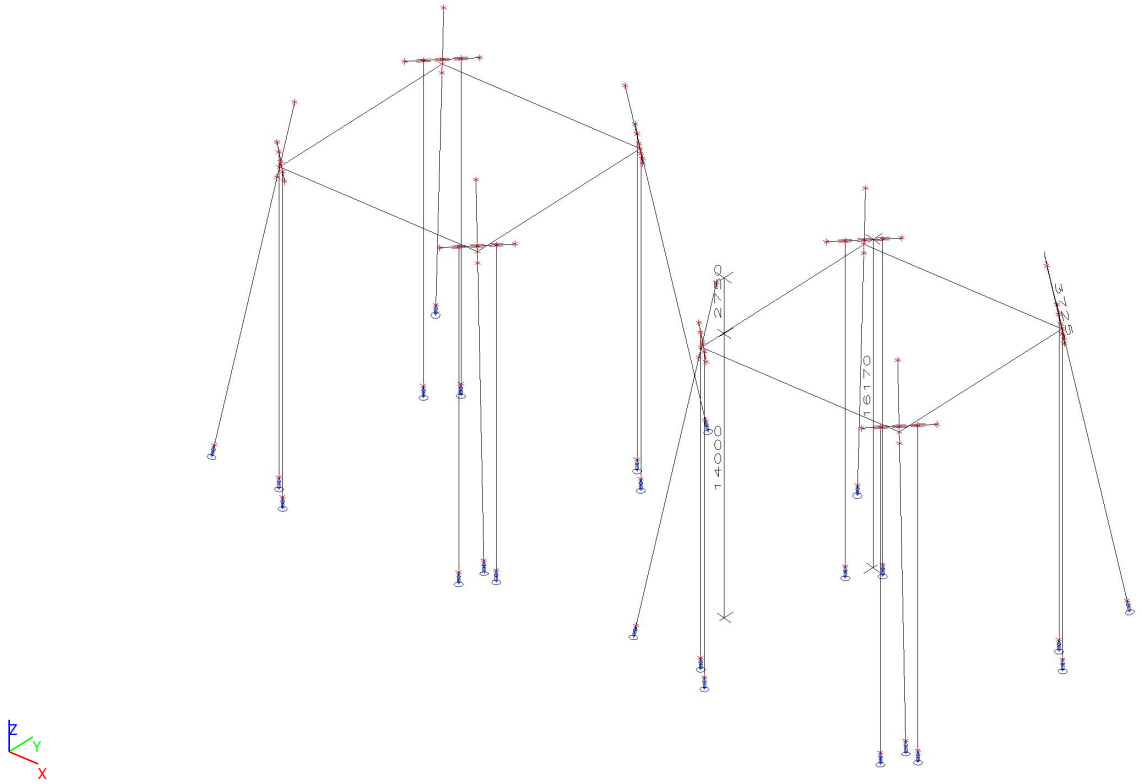
Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	12,750	From start						
(PY-curve-2_V5)13	Line	Paal_X6	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)13	Line	Paal_X6	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)5	Line	Paal_X6	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)5	Line	Paal_X6	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)14	Line	Paal_X7	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)14	Line	Paal_X7	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)14	Line	Paal_X7	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)14	Line	Paal_X7	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)14	Line	Paal_X7	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)14	Line	Paal_X7	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)14	Line	Paal_X7	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)6	Line	Paal_X7	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)6	Line	Paal_X7	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)15	Line	Paal_X8	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)15	Line	Paal_X8	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)15	Line	Paal_X8	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)15	Line	Paal_X8	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)15	Line	Paal_X8	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)15	Line	Paal_X8	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)15	Line	Paal_X8	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)7	Line	Paal_X8	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)7	Line	Paal_X8	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)4	Line	Paal_P2	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_V1)4	Line	Paal_P2	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V2)4	Line	Paal_P2	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)4	Line	Paal_P2	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)4	Line	Paal_P2	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)4	Line	Paal_P2	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)4	Line	Paal_P2	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_Veen)5	Line	Paal_Y2	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_V1)5	Line	Paal_Y2	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V2)5	Line	Paal_Y2	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	10,000	From start						
(PY-curve-2_V3)5	Line	Paal_Y2	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)5	Line	Paal_Y2	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)5	Line	Paal_Y2	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)5	Line	Paal_Y2	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_Veen)6	Line	Paal_XY2	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_V1)6	Line	Paal_XY2	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V2)6	Line	Paal_XY2	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)6	Line	Paal_XY2	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)6	Line	Paal_XY2	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)6	Line	Paal_XY2	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)6	Line	Paal_XY2	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_Veen)7	Line	Paal_X18	1,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,000	From start						
(PY-curve-2_V1)7	Line	Paal_X18	8,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,000	From start						
(PY-curve-2_V2)7	Line	Paal_X18	9,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,000	From start						
(PY-curve-2_V3)7	Line	Paal_X18	10,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,000	From start						
(PY-curve-2_V4)7	Line	Paal_X18	11,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,000	From start						
(PY-curve-2_V5)7	Line	Paal_X18	12,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,000	From start						
(PY-curve-2_V6)7	Line	Paal_X18	13,000	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,150	From start						
(PY-curve-2_Veen)16	Line	Paal_X19	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)16	Line	Paal_X19	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)16	Line	Paal_X19	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)16	Line	Paal_X19	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)16	Line	Paal_X19	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)16	Line	Paal_X19	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)16	Line	Paal_X19	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)8	Line	Paal_X19	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)8	Line	Paal_X19	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)17	Line	Paal_X20	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)17	Line	Paal_X20	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)17	Line	Paal_X20	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)17	Line	Paal_X20	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)17	Line	Paal_X20	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

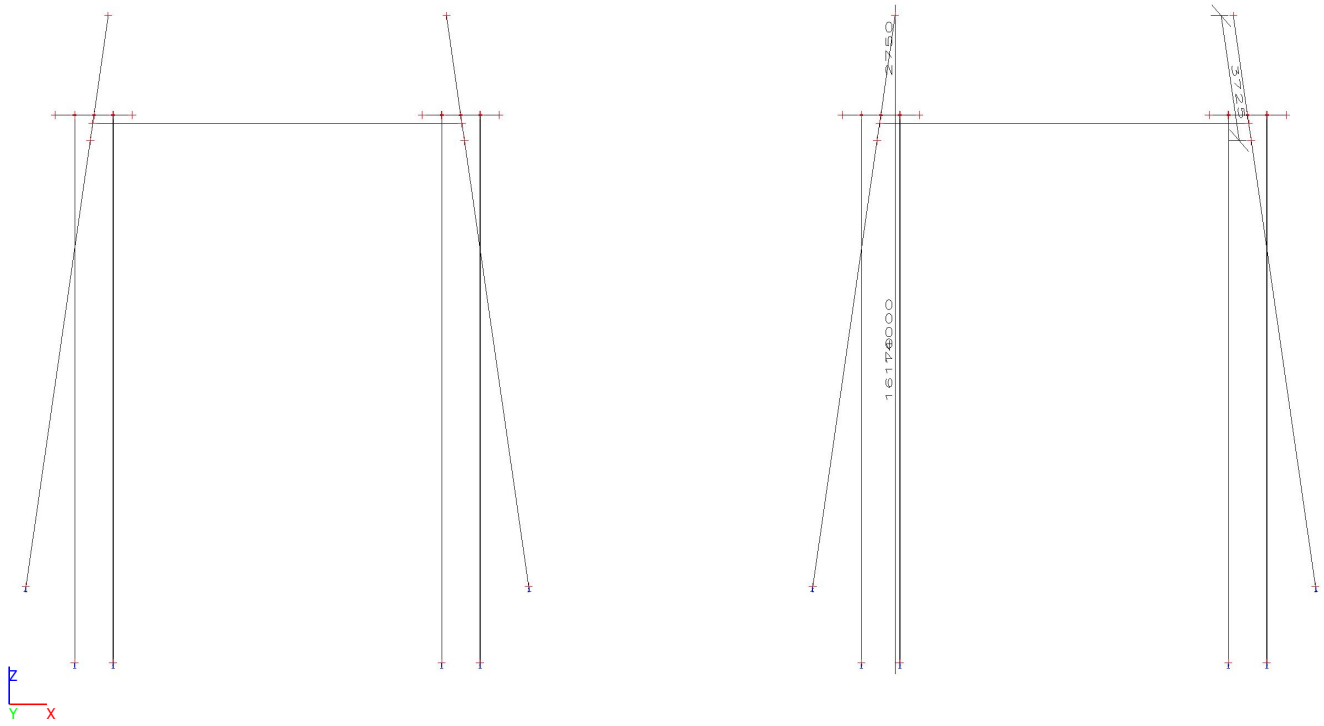
Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	12,750	From start						
(PY-curve-2_V5)17	Line	Paal_X20	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)17	Line	Paal_X20	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)9	Line	Paal_X20	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)9	Line	Paal_X20	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)18	Line	Paal_X21	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)18	Line	Paal_X21	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)18	Line	Paal_X21	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)18	Line	Paal_X21	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)18	Line	Paal_X21	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)18	Line	Paal_X21	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)18	Line	Paal_X21	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)10	Line	Paal_X21	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)10	Line	Paal_X21	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)19	Line	Paal_X22	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)19	Line	Paal_X22	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)19	Line	Paal_X22	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)19	Line	Paal_X22	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)19	Line	Paal_X22	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)19	Line	Paal_X22	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)19	Line	Paal_X22	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)11	Line	Paal_X22	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)11	Line	Paal_X22	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)20	Line	Paal_X23	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)20	Line	Paal_X23	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)20	Line	Paal_X23	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)20	Line	Paal_X23	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)20	Line	Paal_X23	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)20	Line	Paal_X23	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)20	Line	Paal_X23	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)12	Line	Paal_X23	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)12	Line	Paal_X23	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)21	Line	Paal_X24	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free

Name	Type	Member System	Pos x_1 [m] Pos x_2 [m]	Coor Orig	X	Y	Z	Rx	Ry	Rz
		LCS	8,750	From start						
(PY-curve-2_V1)21	Line	Paal_X24	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)21	Line	Paal_X24	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)21	Line	Paal_X24	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)21	Line	Paal_X24	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)21	Line	Paal_X24	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)21	Line	Paal_X24	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)13	Line	Paal_X24	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)13	Line	Paal_X24	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)22	Line	Paal_X25	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)22	Line	Paal_X25	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)22	Line	Paal_X25	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)22	Line	Paal_X25	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)22	Line	Paal_X25	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)22	Line	Paal_X25	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)22	Line	Paal_X25	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)14	Line	Paal_X25	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)14	Line	Paal_X25	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						
(PY-curve-2_Veen)23	Line	Paal_X26	1,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	8,750	From start						
(PY-curve-2_V1)23	Line	Paal_X26	8,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	9,750	From start						
(PY-curve-2_V2)23	Line	Paal_X26	9,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	10,750	From start						
(PY-curve-2_V3)23	Line	Paal_X26	10,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	11,750	From start						
(PY-curve-2_V4)23	Line	Paal_X26	11,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	12,750	From start						
(PY-curve-2_V5)23	Line	Paal_X26	12,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	13,750	From start						
(PY-curve-2_V6)23	Line	Paal_X26	13,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	14,750	From start						
(PY-curve-2_V7)15	Line	Paal_X26	14,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,750	From start						
(PY-curve-2_V8)15	Line	Paal_X26	15,750	Abso	Free	Nonlinear	Nonlinear	Free	Free	Free
		LCS	15,850	From start						

5.8. Analyse model met Lijnondersteuningen



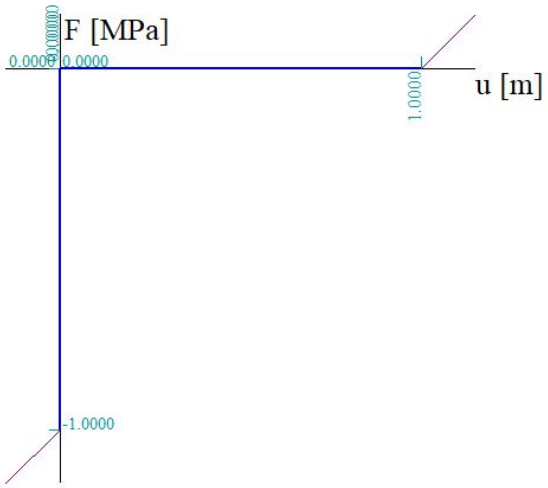
5.9. Analyse model met Lijnondersteuningen



5.10. Nonlinear functions

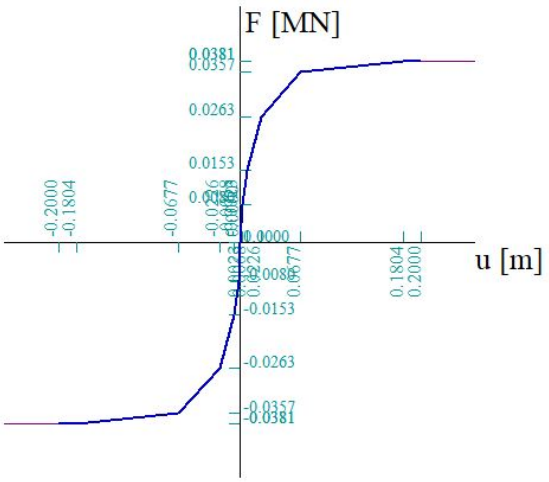
Name	Type	u / F	Positive end	Negative end
soil press only	Nonlinear subsoil		Flexible	Flexible

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V1	Translation	-0.200000 / -38100.000000	Free	Free
		-0.180400 / -38100.000000		
		-0.067650 / -35700.000000		
		-0.022550 / -26300.000000		
		-0.006765 / -15300.000000		
		-0.002255 / -8000.000000		
		0.000000 / 0.000000		
		0.002255 / 8000.000000		
		0.006765 / 15300.000000		
		0.022550 / 26300.000000		
		0.067650 / 35700.000000		
		0.180400 / 38100.000000		
		0.200000 / 38100.000000		

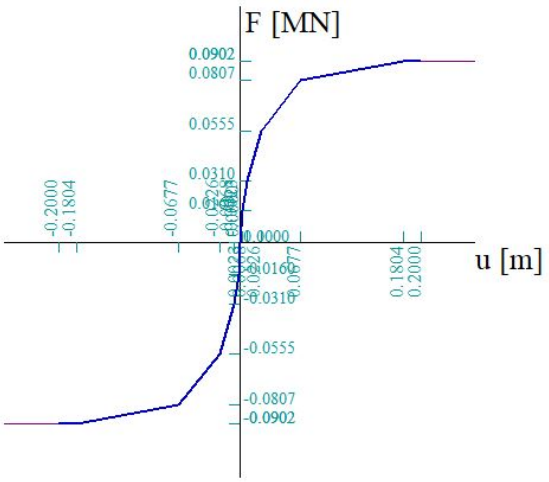
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V2	Translation	-0.200000 / -90200.000000	Free	Free
		-0.180400 / -90200.000000		
		-0.067650 / -80700.000000		
		-0.022550 / -55500.000000		

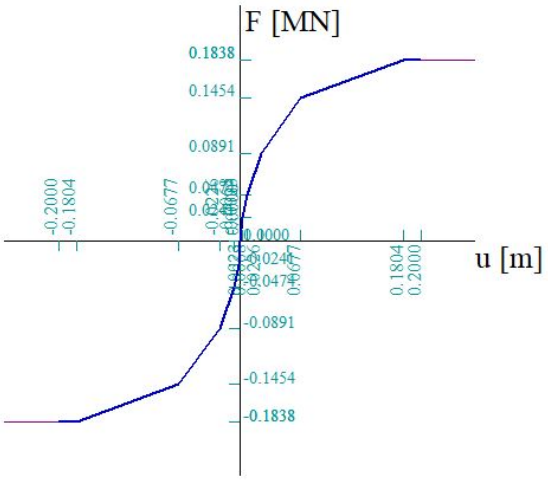
Name	Type	u / F	Positive end	Negative end
		-0.006765 / -31000.000000		
		-0.002255 / -16000.000000		
		0.000000 / 0.000000		
		0.002255 / 16000.000000		
		0.006765 / 31000.000000		
		0.022550 / 55500.000000		
		0.067650 / 80700.000000		
		0.180400 / 90200.000000		
		0.200000 / 90200.000000		

Drawing



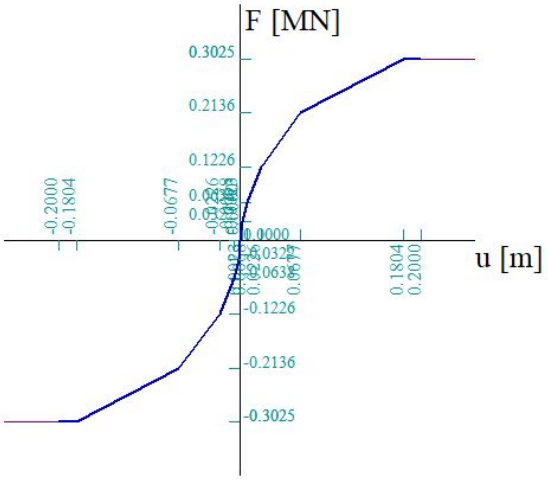
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V3	Translation	-0.200000 / -183800.000000	Free	Free
		-0.180400 / -183800.000000		
		-0.067650 / -145400.000000		
		-0.022550 / -89100.000000		
		-0.006765 / -47400.000000		
		-0.002255 / -24100.000000		
		0.000000 / 0.000000		
		0.002255 / 24100.000000		
		0.006765 / 47400.000000		
		0.022550 / 89100.000000		
		0.067650 / 145400.000000		
		0.180400 / 183800.000000		
		0.200000 / 183800.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V4	Translation	-0.200000 / -302500.000000	Free	Free
		-0.180400 / -302500.000000		
		-0.067650 / -213600.000000		
		-0.022550 / -122600.000000		
		-0.006765 / -63800.000000		
		-0.002255 / -32200.000000		
		0.000000 / 0.000000		
		0.002255 / 32200.000000		
		0.006765 / 63800.000000		
		0.022550 / 122600.000000		
		0.067650 / 213600.000000		
		0.180400 / 302500.000000		
		0.200000 / 302500.000000		

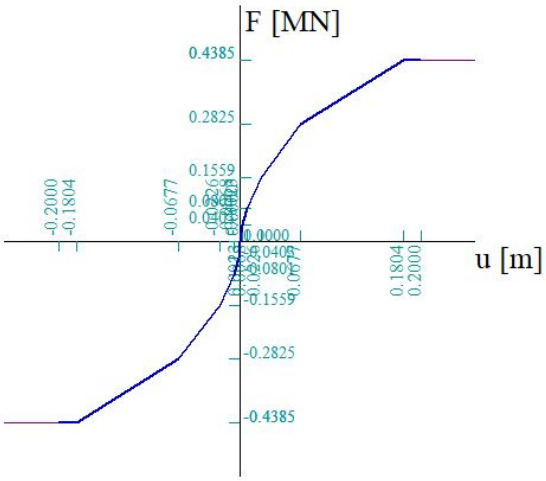
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V5	Translation	-0.200000 / -438500.000000	Free	Free
		-0.180400 / -438500.000000		
		-0.067650 / -282500.000000		
		-0.022550 / -155900.000000		
		-0.006765 / -80100.000000		
		-0.002255 / -40300.000000		
		0.000000 / 0.000000		
		0.002255 / 40300.000000		
		0.006765 / 80100.000000		
		0.022550 / 155900.000000		

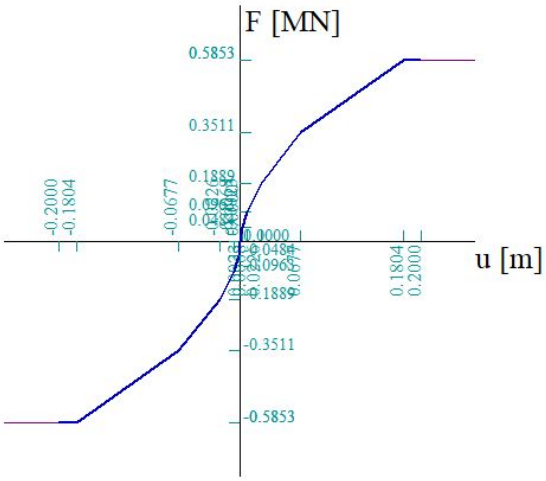
Name	Type	u / F	Positive end	Negative end
		0.067650 / 282500.000000		
		0.180400 / 438500.000000		
		0.200000 / 438500.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V6	Translation	-0.200000 / -585300.000000	Free	Free
		-0.180400 / -585300.000000		
		-0.067650 / -351100.000000		
		-0.022550 / -188900.000000		
		-0.006765 / -96300.000000		
		-0.002255 / -48400.000000		
		0.000000 / 0.000000		
		0.002255 / 48400.000000		
		0.006765 / 96300.000000		
		0.022550 / 188900.000000		
		0.067650 / 351100.000000		
		0.180400 / 585300.000000		
		0.200000 / 585300.000000		

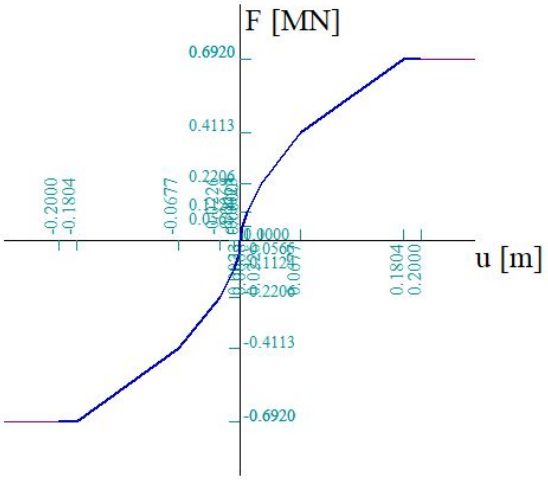
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V15	Translation	-0.200000 / -692000.000000	Free	Free
		-0.180400 / -692000.000000		
		-0.067650 / -411300.000000		
		-0.022550 / -220600.000000		

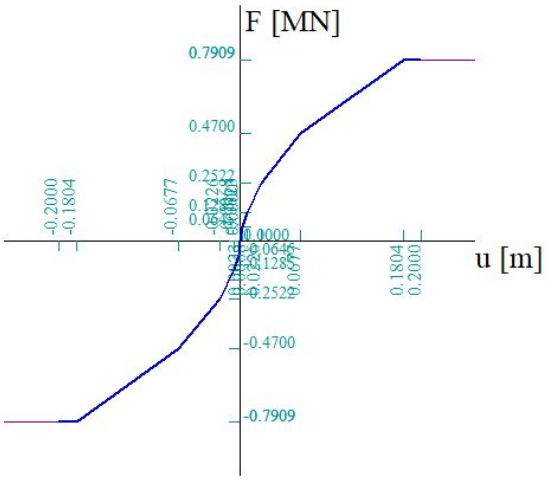
Name	Type	u / F	Positive end	Negative end
		-0.006765 / -112400.000000		
		-0.002255 / -56500.000000		
		0.000000 / 0.000000		
		0.002255 / 56500.000000		
		0.006765 / 112400.000000		
		0.022550 / 220600.000000		
		0.067650 / 411300.000000		
		0.180400 / 692000.000000		
		0.200000 / 692000.000000		

Drawing



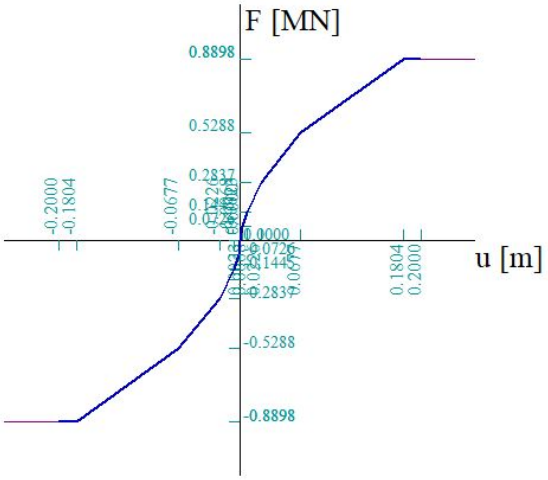
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V16	Translation	-0.200000 / -790900.000000	Free	Free
		-0.180400 / -790900.000000		
		-0.067650 / -470000.000000		
		-0.022550 / -252200.000000		
		-0.006765 / -128500.000000		
		-0.002255 / -64500.000000		
		0.000000 / 0.000000		
		0.002255 / 64500.000000		
		0.006765 / 128500.000000		
		0.022550 / 252200.000000		
		0.067650 / 470000.000000		
		0.180400 / 790900.000000		
		0.200000 / 790900.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V17	Translation	-0.200000 / -889800.000000	Free	Free
		-0.180400 / -889800.000000		
		-0.067650 / -528800.000000		
		-0.022550 / -283700.000000		
		-0.006765 / -144500.000000		
		-0.002255 / -72600.000000		
		0.000000 / 0.000000		
		0.002255 / 72600.000000		
		0.006765 / 144500.000000		
		0.022550 / 283700.000000		
		0.067650 / 528800.000000		
		0.180400 / 889800.000000		
		0.200000 / 889800.000000		

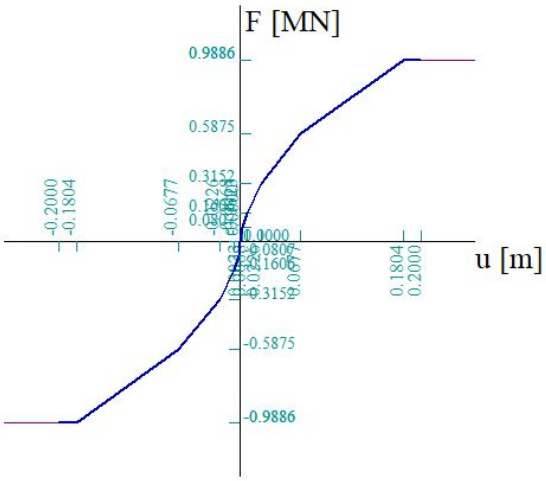
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V18	Translation	-0.200000 / -988600.000000	Free	Free
		-0.180400 / -988600.000000		
		-0.067650 / -587500.000000		
		-0.022550 / -315200.000000		
		-0.006765 / -160600.000000		
		-0.002255 / -80700.000000		
		0.000000 / 0.000000		
		0.002255 / 80700.000000		
		0.006765 / 160600.000000		
		0.022550 / 315200.000000		

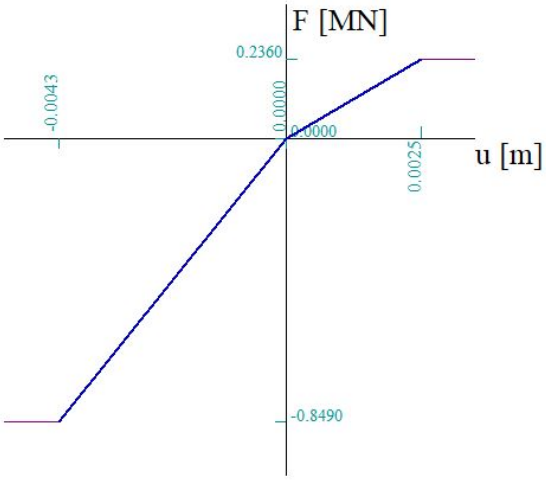
Name	Type	u / F	Positive end	Negative end
		0.067650 / 587500.000000		
		0.180400 / 988600.000000		
		0.200000 / 988600.000000		

Drawing



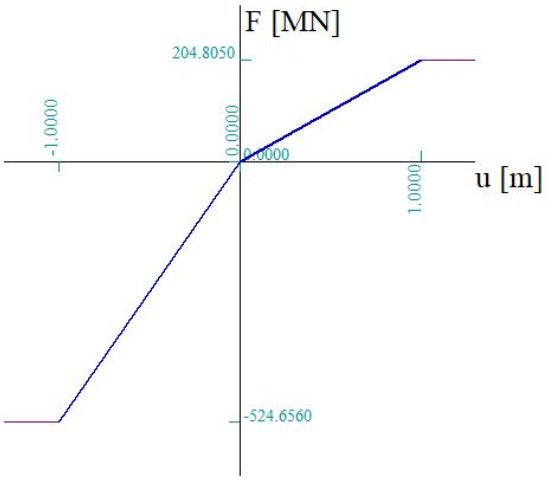
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt_mast_144	Translation	-0.004290 / -849000.000000	Free	Free
		0.000000 / 0.000000		
		0.002520 / 236000.000000		

Drawing



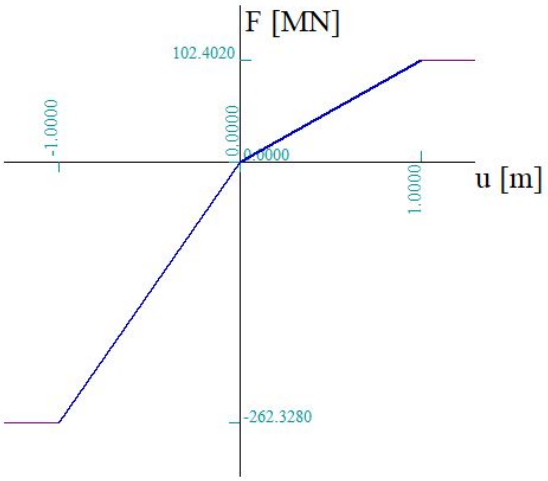
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt-LEKA.BG.	Translation	-1.000000 / -524656000.000000	Free	Free
		0.000000 / 0.000000		
		1.000000 / 204805000.000000		

Drawing



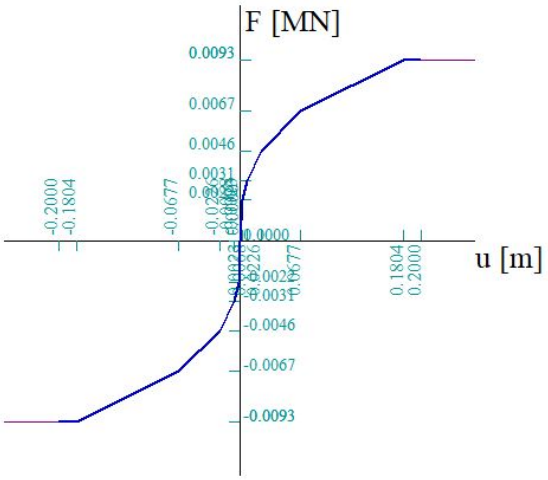
Name	Type	u / F	Positive end	Negative end
Trek-druk-paalpunt-LEKA.OG.	Translation	-1.000000 / -262328000.000000	Free	Free
		0.000000 / 0.000000		
		1.000000 / 102402000.000000		

Drawing



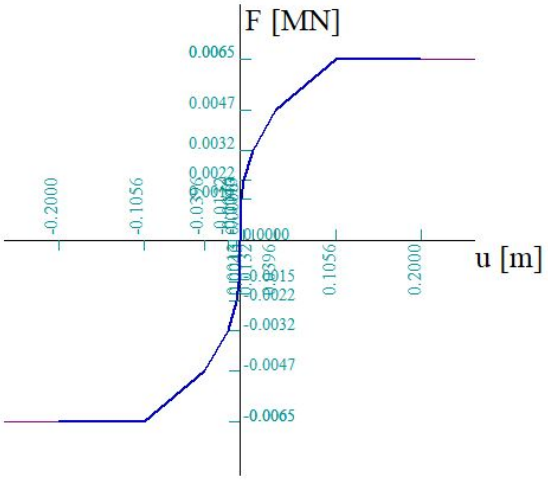
Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen	Translation	-0.200000 / -9265.000000	Free	Free
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		
		0.067650 / 6681.000000		
		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen.B	Translation	-0.200000 / -6460.000000	Free	Free
		-0.105600 / -6460.000000		
		-0.039600 / -4658.466112		
		-0.013200 / -3230.000000		
		-0.003960 / -2162.268429		
		-0.001320 / -1499.233193		
		0.000000 / 0.000000		
		0.001320 / 1499.233193		
		0.003960 / 2162.268429		
		0.013200 / 3230.000000		
		0.039600 / 4658.466112		
		0.105600 / 6460.000000		
		0.200000 / 6460.000000		

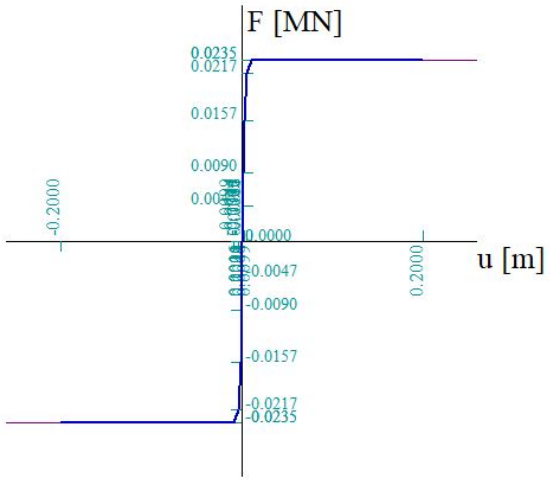
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V1.B	Translation	-0.200000 / -23507.363202	Free	Free
		-0.009900 / -23507.363202		
		-0.004400 / -21723.306095		
		-0.002200 / -15680.794047		
		-0.001100 / -8981.671111		
		-0.000550 / -4667.361101		
		0.000000 / 0.000000		
		0.000550 / 4667.361101		
		0.001100 / 8981.671111		
		0.002200 / 15680.794047		

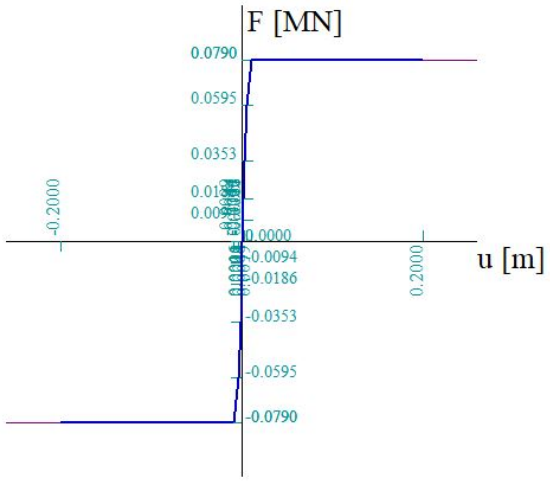
Name	Type	u / F	Positive end	Negative end
		0.004400 / 21723.306095		
		0.009900 / 23507.363202		
		0.200000 / 23507.363202		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V2.B	Translation	-0.200000 / -79035.038593	Free	Free
		-0.009900 / -79035.038593		
		-0.004400 / -59487.765327		
		-0.002200 / -35336.219808		
		-0.001100 / -18587.236311		
		-0.000550 / -9417.735746		
		0.000000 / 0.000000		
		0.000550 / 9417.735746		
		0.001100 / 18587.236311		
		0.002200 / 35336.219808		
		0.004400 / 59487.765327		
		0.009900 / 79035.038593		
		0.200000 / 79035.038593		

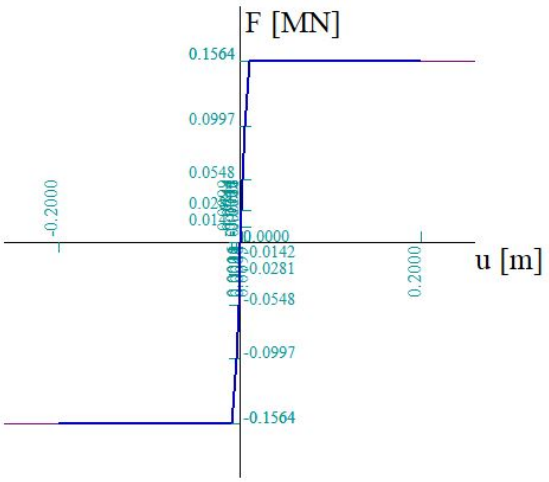
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V3.B	Translation	-0.200000 / -156368.664870	Free	Free
		-0.009900 / -156368.664870		
		-0.004400 / -99733.431143		
		-0.002200 / -54825.793146		

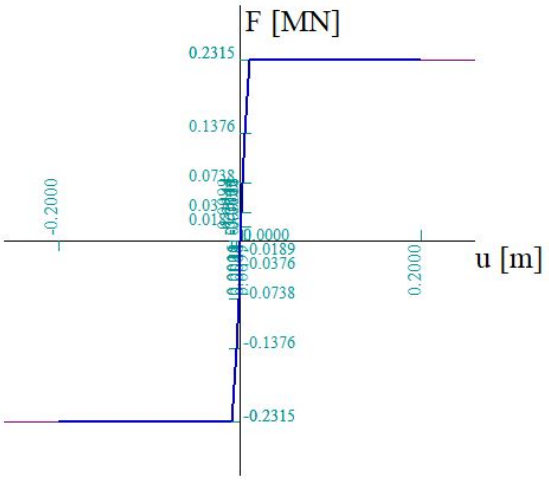
Name	Type	u / F	Positive end	Negative end
		-0.001100 / -28130.579433		
		-0.000550 / -14158.573896		
		0.000000 / 0.000000		
		0.000550 / 14158.573896		
		0.001100 / 28130.579433		
		0.002200 / 54825.793146		
		0.004400 / 99733.431143		
		0.009900 / 156368.664870		
		0.200000 / 156368.664870		

Drawing



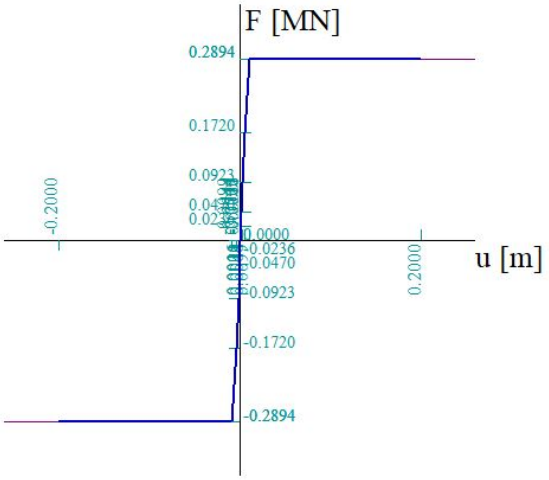
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V4.B	Translation	-0.200000 / -231483.603402	Free	Free
		-0.009900 / -231483.603402		
		-0.004400 / -137564.319138		
		-0.002200 / -73801.743400		
		-0.001100 / -37599.856384		
		-0.000550 / -18889.809630		
		0.000000 / 0.000000		
		0.000550 / 18889.809630		
		0.001100 / 37599.856384		
		0.002200 / 73801.743400		
		0.004400 / 137564.319138		
		0.009900 / 231483.603402		
		0.200000 / 231483.603402		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V5.B	Translation	-0.200000 / -289354.504253	Free	Free
		-0.009900 / -289354.504253		
		-0.004400 / -171955.398922		
		-0.002200 / -92252.179250		
		-0.001100 / -46999.820480		
		-0.000550 / -23612.262038		
		0.000000 / 0.000000		
		0.000550 / 23612.262038		
		0.001100 / 46999.820480		
		0.002200 / 92252.179250		
		0.004400 / 171955.398922		
		0.009900 / 289354.504253		
		0.200000 / 289354.504253		

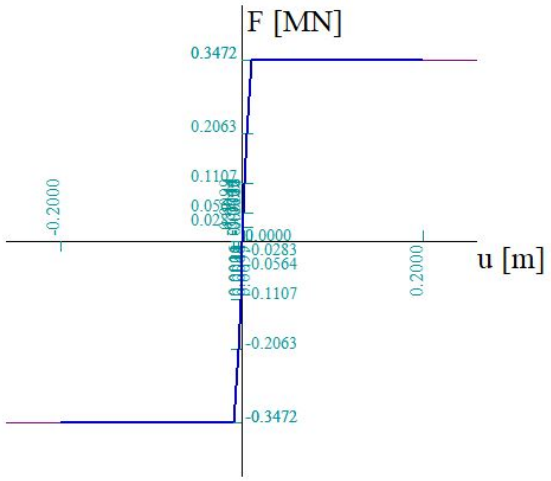
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V6.B	Translation	-0.200000 / -347225.405104	Free	Free
		-0.009900 / -347225.405104		
		-0.004400 / -206346.478706		
		-0.002200 / -110702.615099		
		-0.001100 / -56399.784576		
		-0.000550 / -28334.714446		
		0.000000 / 0.000000		
		0.000550 / 28334.714446		
		0.001100 / 56399.784576		
		0.002200 / 110702.615099		

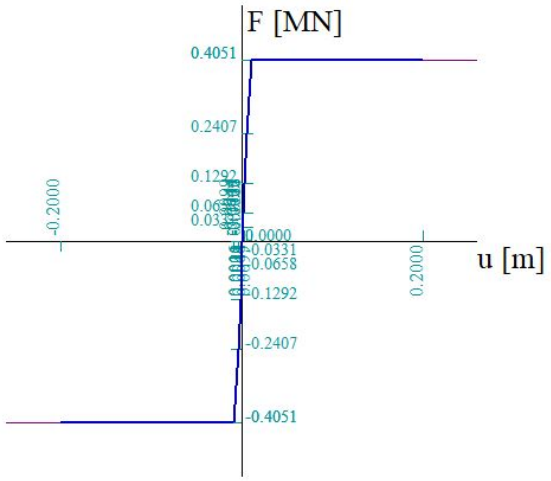
Name	Type	u / F	Positive end	Negative end
		0.004400 / 206346.478706		
		0.009900 / 347225.405104		
		0.200000 / 347225.405104		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V7.B	Translation	-0.200000 / -405096.305954	Free	Free
		-0.009900 / -405096.305954		
		-0.004400 / -240737.558491		
		-0.002200 / -129153.050949		
		-0.001100 / -65799.748672		
		-0.000550 / -33057.166853		
		0.000000 / 0.000000		
		0.000550 / 33057.166853		
		0.001100 / 65799.748672		
		0.002200 / 129153.050949		
		0.004400 / 240737.558491		
		0.009900 / 405096.305954		
		0.200000 / 405096.305954		

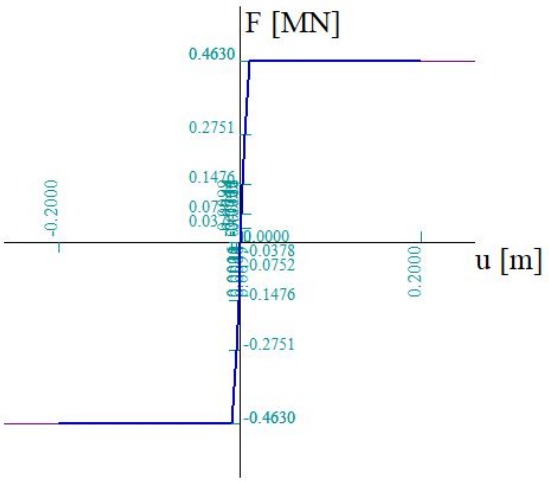
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V8.B	Translation	-0.200000 / -462967.206805	Free	Free
		-0.009900 / -462967.206805		
		-0.004400 / -275128.638275		
		-0.002200 / -147603.486799		

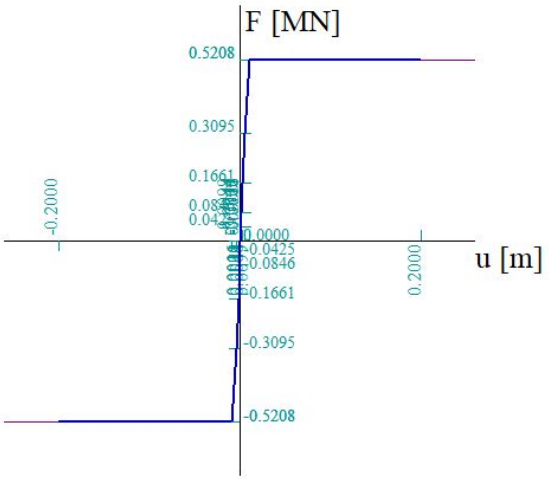
Name	Type	u / F	Positive end	Negative end
		-0.001100 / -75199.712768		
		-0.000550 / -37779.619261		
		0.000000 / 0.000000		
		0.000550 / 37779.619261		
		0.001100 / 75199.712768		
		0.002200 / 147603.486799		
		0.004400 / 275128.638275		
		0.009900 / 462967.206805		
		0.200000 / 462967.206805		

Drawing



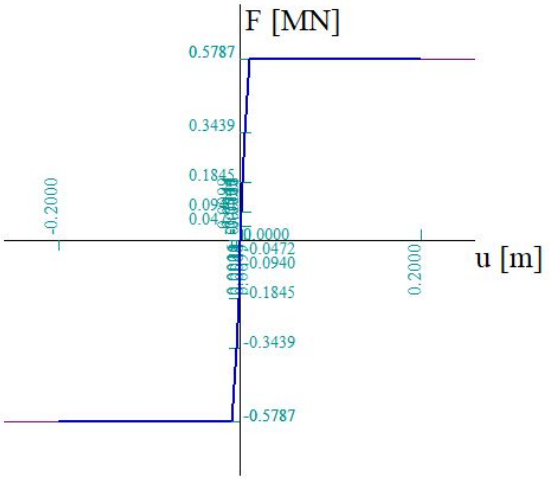
Name	Type	u / F	Positive end	Negative end
PY-curve-2_V9.B	Translation	-0.200000 / -520838.107655	Free	Free
		-0.009900 / -520838.107655		
		-0.004400 / -309519.718059		
		-0.002200 / -166053.922649		
		-0.001100 / -84599.676864		
		-0.000550 / -42502.071669		
		0.000000 / 0.000000		
		0.000550 / 42502.071669		
		0.001100 / 84599.676864		
		0.002200 / 166053.922649		
		0.004400 / 309519.718059		
		0.009900 / 520838.107655		
		0.200000 / 520838.107655		

Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_V10.B	Translation	-0.200000 / -578709.008506	Free	Free
		-0.009900 / -578709.008506		
		-0.004400 / -343910.797844		
		-0.002200 / -184504.358499		
		-0.001100 / -93999.640960		
		-0.000550 / -47224.524076		
		0.000000 / 0.000000		
		0.000550 / 47224.524076		
		0.001100 / 93999.640960		
		0.002200 / 184504.358499		
		0.004400 / 343910.797844		
		0.009900 / 578709.008506		
		0.200000 / 578709.008506		

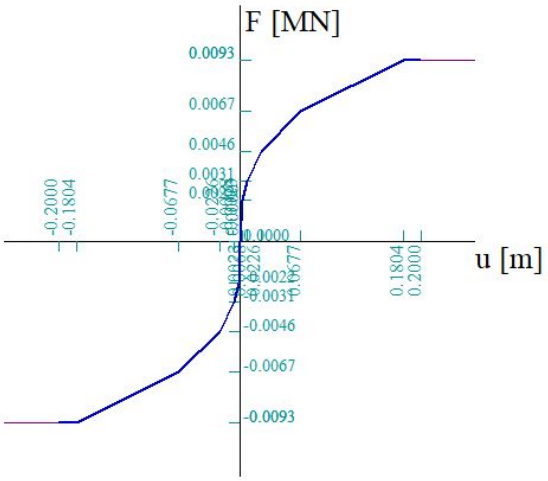
Drawing



Name	Type	u / F	Positive end	Negative end
PY-curve-2_Veen1	Translation	-0.200000 / -9265.000000	Free	Free
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		

Name	Type	u / F	Positive end	Negative end
		0.067650 / 6681.000000		
		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

Drawing

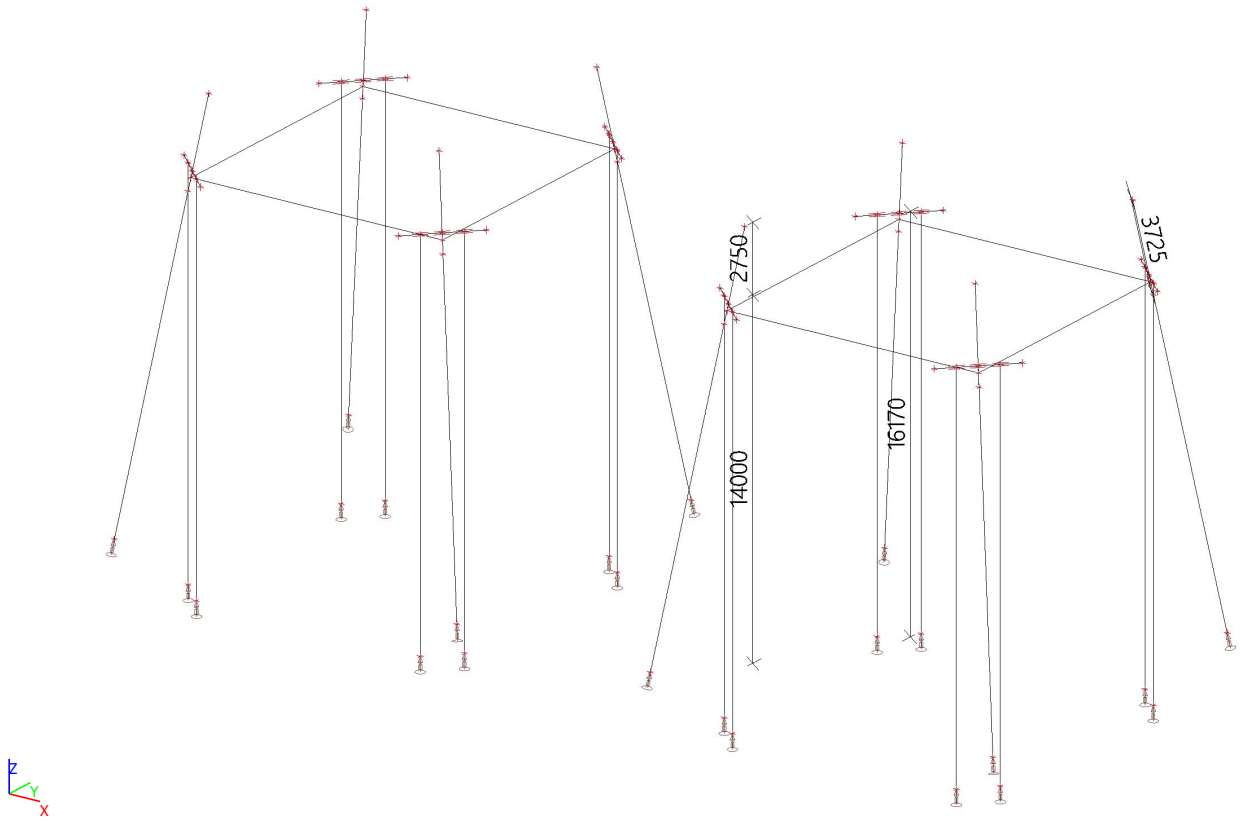


6. Belastingen

6.1. Load cases

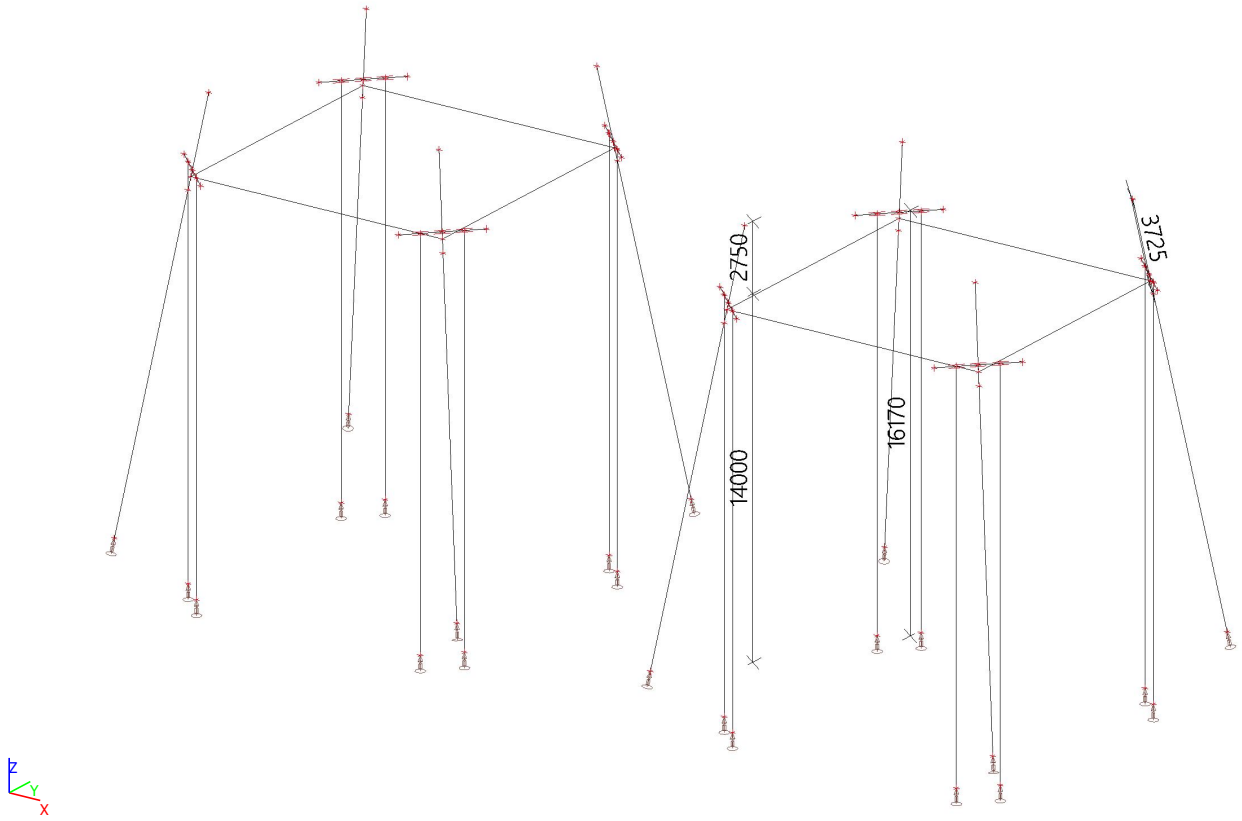
6.1.1. Load cases - EG_Fundering

Name	Description	Action type	Load group	Direction
	Spec	Load type		
EG_Fundering		Permanent	LG1	-Z
		Self weight		



6.1.2. Load cases - high max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



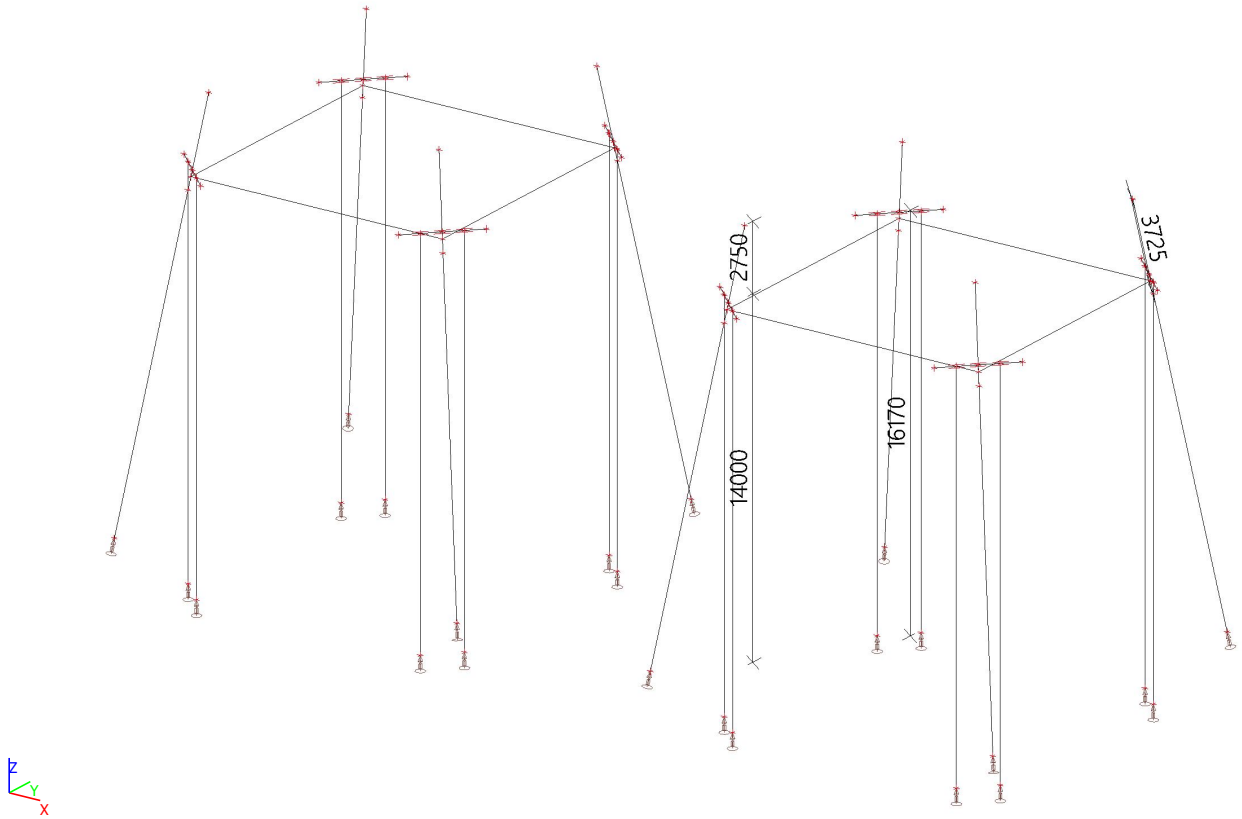
6.1.2.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Force	42,49
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Force	-14,57
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Force	113,18
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Force	-186,51
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Force	163,81
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Force	-954,52
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Force	88,82
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Force	33,55
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Force	-339,97
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Force	-140,87
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Force	116,31
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Force	733,44
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Force	42,49
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Force	-14,57
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Force	113,18

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X2_X	1X2	high max Wnd ;45°	GCS	X	Force	-186,51
high max Wnd ;45°_1X2_Y	1X2	high max Wnd ;45°	GCS	Y	Force	163,81
high max Wnd ;45°_1X2_Z	1X2	high max Wnd ;45°	GCS	Z	Force	-954,52
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Force	88,82
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Force	33,55
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Force	-339,97
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Force	-140,87
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Force	116,31
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Force	733,44

6.1.3. Load cases - high max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;225°		Variable	LG4	Short	None
	Standard	Static			

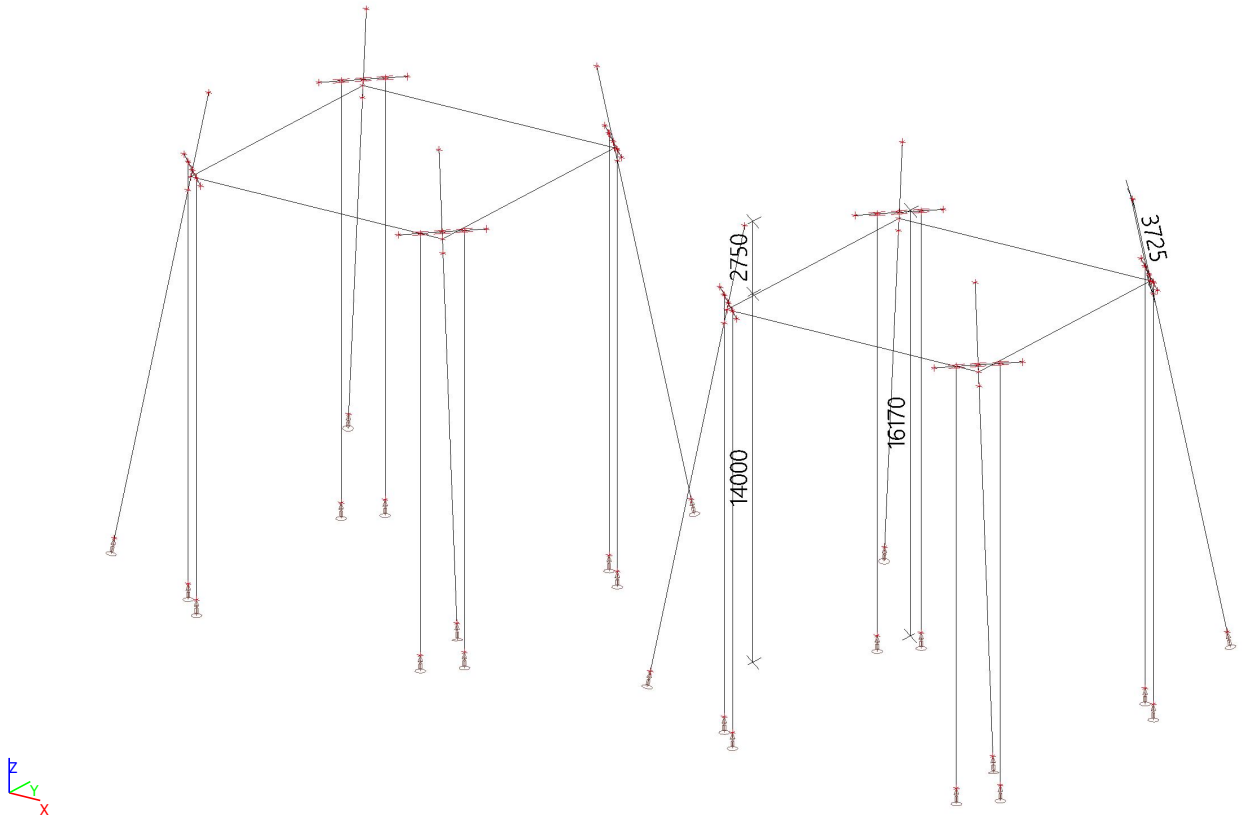


6.1.3.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Force	-89,11
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Force	-34,41
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Force	-343,46
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Force	140,13
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Force	-115,16
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Force	727,82
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Force	-42,63
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Force	13,87
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Force	115,98
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Force	185,93
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Force	-162,83
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Force	-949,71
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Force	-89,11
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Force	-34,41
high max Wnd ;225°_1P2_Z	1P2	high max Wnd ;225°	GCS	Z	Force	-343,46
high max Wnd ;225°_1X2_X	1X2	high max Wnd ;225°	GCS	X	Force	140,13
high max Wnd ;225°_1X2_Y	1X2	high max Wnd ;225°	GCS	Y	Force	-115,16
high max Wnd ;225°_1X2_Z	1X2	high max Wnd ;225°	GCS	Z	Force	727,82
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Force	-42,63
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Force	13,87
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Force	115,98
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Force	185,93
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Force	-162,83
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Force	-949,71

6.1.4. Load cases - high max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



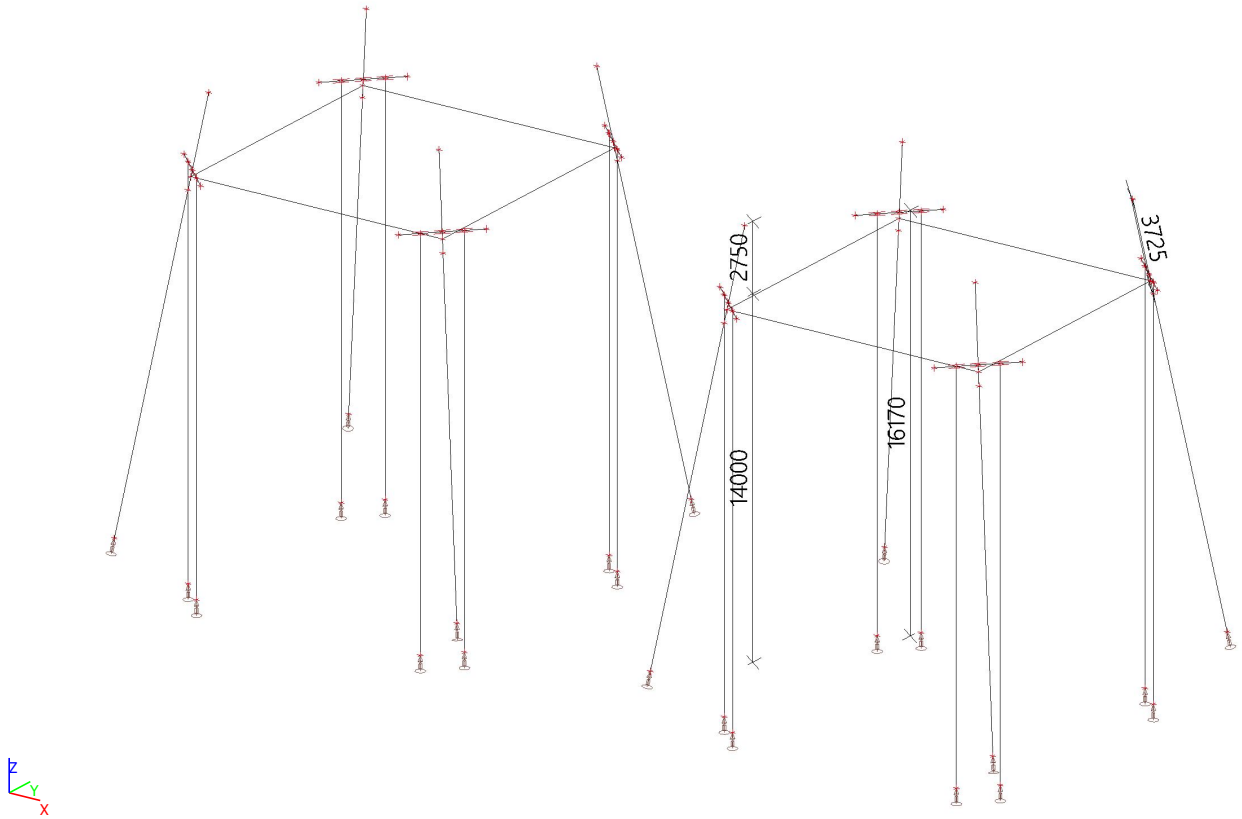
6.1.4.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Force	140,36
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Force	115,28
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Force	728,83
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Force	-89,37
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Force	34,59
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Force	-344,77
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Force	186,16
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Force	162,96
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Force	-950,74
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Force	-42,89
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Force	-13,69
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Force	117,26
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Force	140,36
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Force	115,28
high max Wnd	1P2	high max Wnd ;135°	GCS	Z	Force	728,83

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
high max Wnd ;135°_1X2_X	1X2	high max Wnd ;135°	GCS	X	Force	-89,37
high max Wnd ;135°_1X2_Y	1X2	high max Wnd ;135°	GCS	Y	Force	34,59
high max Wnd ;135°_1X2_Z	1X2	high max Wnd ;135°	GCS	Z	Force	-344,77
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Force	186,16
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Force	162,96
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Force	-950,74
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Force	-42,89
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Force	-13,69
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Force	117,26

6.1.5. Load cases - high max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
high max Wnd ;315°		Variable	LG4	Short	None
	Standard	Static			

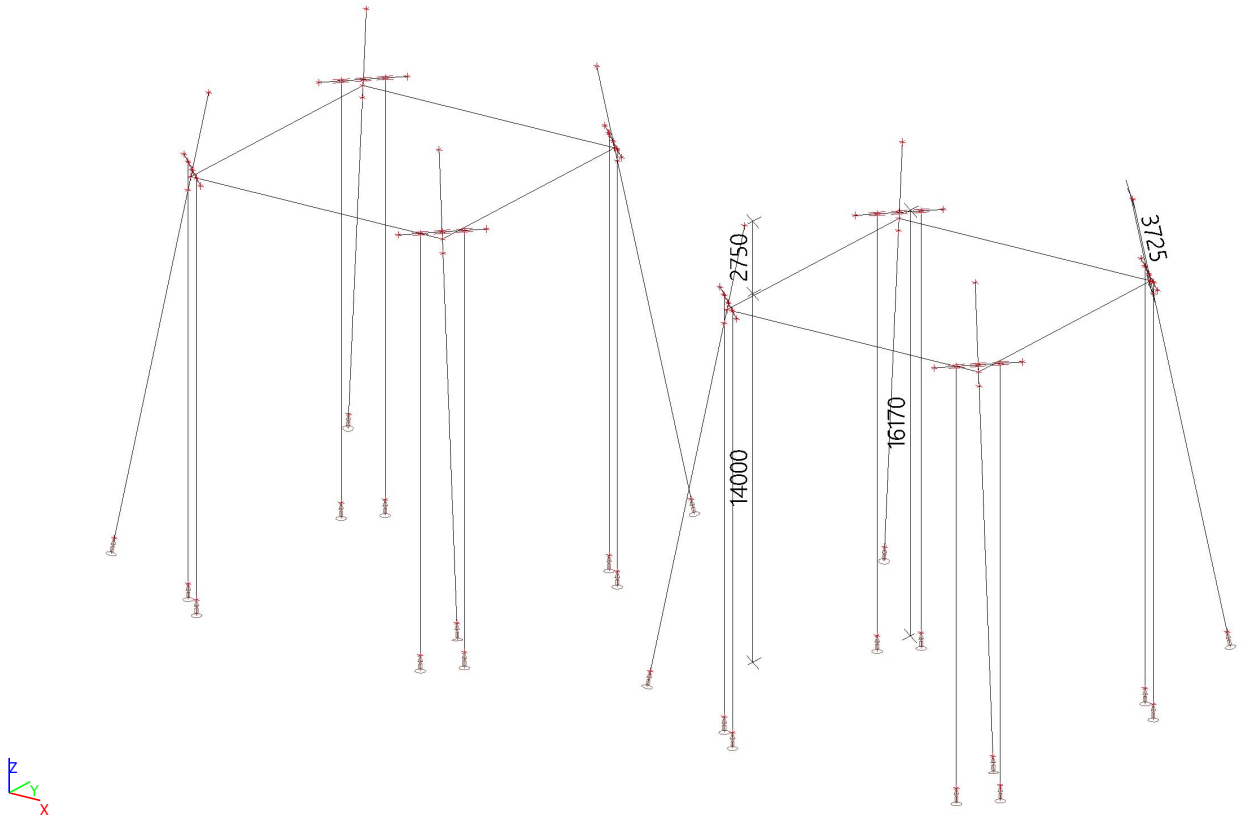


6.1.5.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Force	-186,28
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Force	-163,69
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Force	-953,53
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Force	42,24
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Force	14,75
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Force	111,93
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Force	-140,65
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Force	-116,19
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Force	732,47
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Force	88,56
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Force	-33,37
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Force	-338,70
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Force	-186,28
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Force	-163,69
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Force	-953,53
high max Wnd ;315°_1X2_X	1X2	high max Wnd ;315°	GCS	X	Force	42,24
high max Wnd ;315°_1X2_Y	1X2	high max Wnd ;315°	GCS	Y	Force	14,75
high max Wnd ;315°_1X2_Z	1X2	high max Wnd ;315°	GCS	Z	Force	111,93
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Force	-140,65
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Force	-116,19
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Force	732,47
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Force	88,56
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Force	-33,37
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Force	-338,70

6.1.6. Load cases - low max Wnd ;45°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;45°		Variable	LG4	Short	None
	Standard	Static			



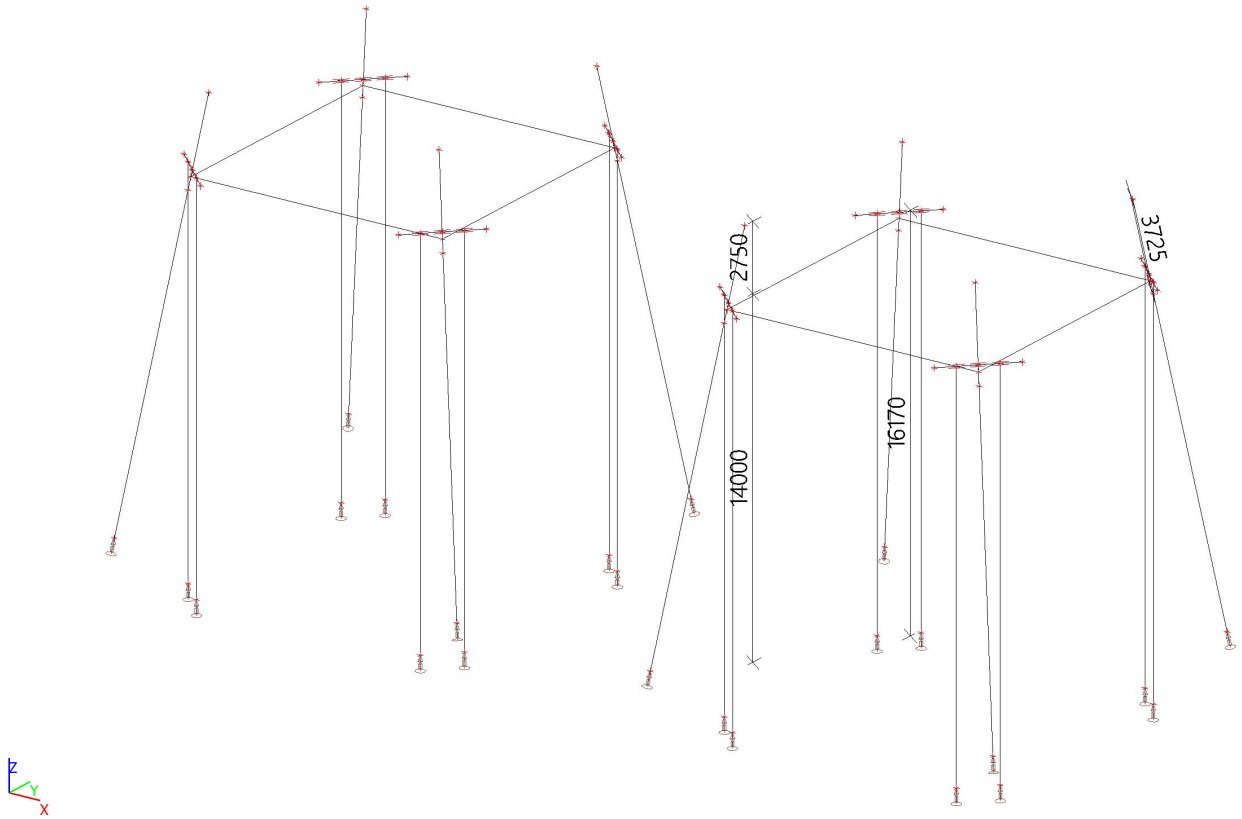
6.1.6.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Force	48,37
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Force	-8,05
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Force	143,26
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Force	-180,31
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Force	157,24
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Force	-922,96
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Force	83,28
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Force	28,39
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Force	-314,69
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Force	-146,08
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Force	121,41
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Force	757,12
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Force	48,37
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Force	-8,05
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Force	143,26

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X2_X	1X2	low max Wnd ;45°	GCS	X	Force	-180,31
low max Wnd ;45°_1X2_Y	1X2	low max Wnd ;45°	GCS	Y	Force	157,24
low max Wnd ;45°_1X2_Z	1X2	low max Wnd ;45°	GCS	Z	Force	-922,96
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Force	83,28
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Force	28,39
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Force	-314,69
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Force	-146,08
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Force	121,41
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Force	757,12

6.1.7. Load cases - low max Wnd ;225°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;225°	Standard	Variable Static	LG4	Short	None

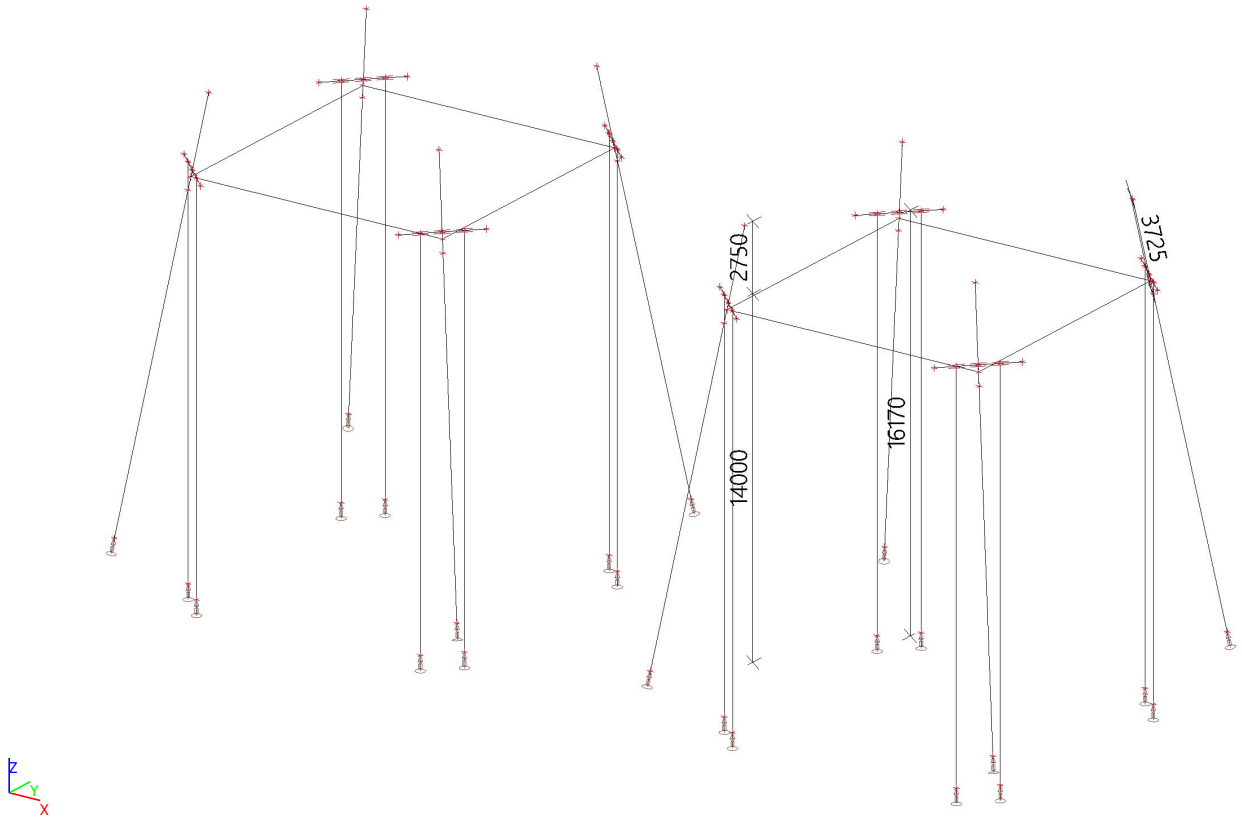


6.1.7.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Force	-82,84
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Force	-27,84
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Force	-311,77
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Force	146,13
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Force	-121,73
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Force	758,25
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Force	-47,77
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Force	8,77
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Force	139,57
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Force	180,52
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Force	-157,72
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Force	-924,81
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Force	-82,84
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Force	-27,84
low max Wnd ;225°_1P2_Z	1P2	low max Wnd ;225°	GCS	Z	Force	-311,77
low max Wnd ;225°_1X2_X	1X2	low max Wnd ;225°	GCS	X	Force	146,13
low max Wnd ;225°_1X2_Y	1X2	low max Wnd ;225°	GCS	Y	Force	-121,73
low max Wnd ;225°_1X2_Z	1X2	low max Wnd ;225°	GCS	Z	Force	758,25
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Force	-47,77
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Force	8,77
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Force	139,57
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Force	180,52
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Force	-157,72
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Force	-924,81

6.1.8. Load cases - low max Wnd ;135°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;135°		Variable	LG4	Short	None
	Standard	Static			



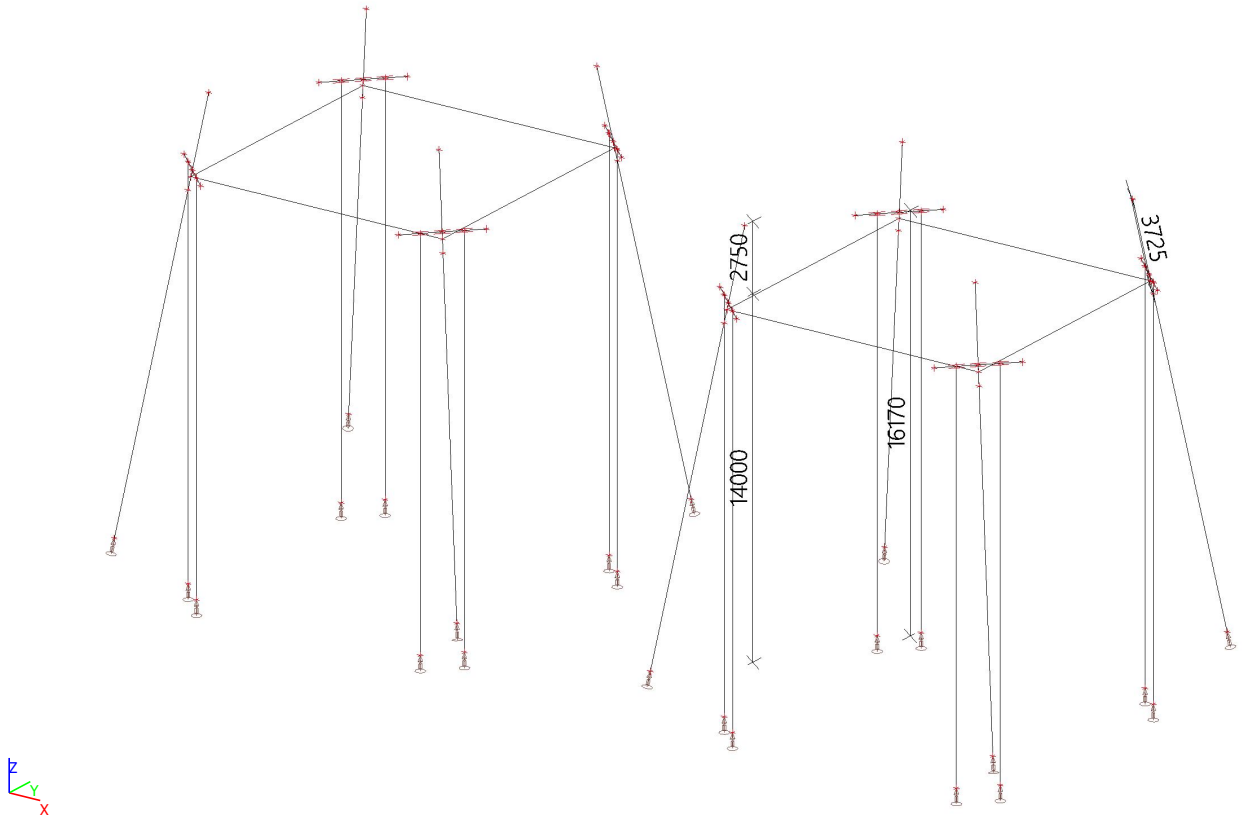
6.1.8.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Force	146,34
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Force	121,82
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Force	759,13
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Force	-83,09
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Force	28,01
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Force	-312,98
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Force	180,73
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Force	157,82
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Force	-925,71
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Force	-48,00
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Force	-8,60
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Force	140,75
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Force	146,34
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Force	121,82
low max Wnd	1P2	low max Wnd ;135°	GCS	Z	Force	759,13

Name	Node	Load case	System	Dir	Type	Value - F [kN]
;135°_1P2_Z						
low max Wnd ;135°_1X2_X	1X2	low max Wnd ;135°	GCS	X	Force	-83,09
low max Wnd ;135°_1X2_Y	1X2	low max Wnd ;135°	GCS	Y	Force	28,01
low max Wnd ;135°_1X2_Z	1X2	low max Wnd ;135°	GCS	Z	Force	-312,98
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Force	180,73
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Force	157,82
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Force	-925,71
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Force	-48,00
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Force	-8,60
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Force	140,75

6.1.9. Load cases - low max Wnd ;315°

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
low max Wnd ;315°	Standard	Variable Static	LG4	Short	None



6.1.9.1. Point force in node

Name	Node	Load case	System	Dir	Type	Value - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Force	-180,11
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Force	-157,15
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Force	-922,10
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Force	48,13
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Force	8,21
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Force	142,11
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Force	-145,88
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Force	-121,32
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Force	756,28
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Force	83,05
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Force	-28,22
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Force	-313,52
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Force	-180,11
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Force	-157,15
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Force	-922,10
low max Wnd ;315°_1X2_X	1X2	low max Wnd ;315°	GCS	X	Force	48,13
low max Wnd ;315°_1X2_Y	1X2	low max Wnd ;315°	GCS	Y	Force	8,21
low max Wnd ;315°_1X2_Z	1X2	low max Wnd ;315°	GCS	Z	Force	142,11
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Force	-145,88
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Force	-121,32
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Force	756,28
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Force	83,05
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Force	-28,22
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Force	-313,52

6.2. Nonlinear combinations

Name	Type	Load cases	Coeff. [-]
low max Wnd ;45°	Ultimate	EG_Fundering	0,900
		low max Wnd ;45°	1,000
low max Wnd ;225°	Ultimate	EG_Fundering	0,900
		low max Wnd ;225°	1,000
low max Wnd ;135°	Ultimate	EG_Fundering	0,900
		low max Wnd ;135°	1,000
low max Wnd ;315°	Ultimate	EG_Fundering	0,900
		low max Wnd ;315°	1,000
high max Wnd ;45°	Ultimate	EG_Fundering	1,350
		high max Wnd ;45°	1,000
high max Wnd ;225°	Ultimate	EG_Fundering	1,350

Name	Type	Load cases	Coeff. [-]
		high max Wnd ;225°	1,000
high max Wnd ;135°	Ultimate	EG_Fundering	1,350
		high max Wnd ;135°	1,000
high max Wnd ;315°	Ultimate	EG_Fundering	1,350
		high max Wnd ;315°	1,000

6.3. Result classes

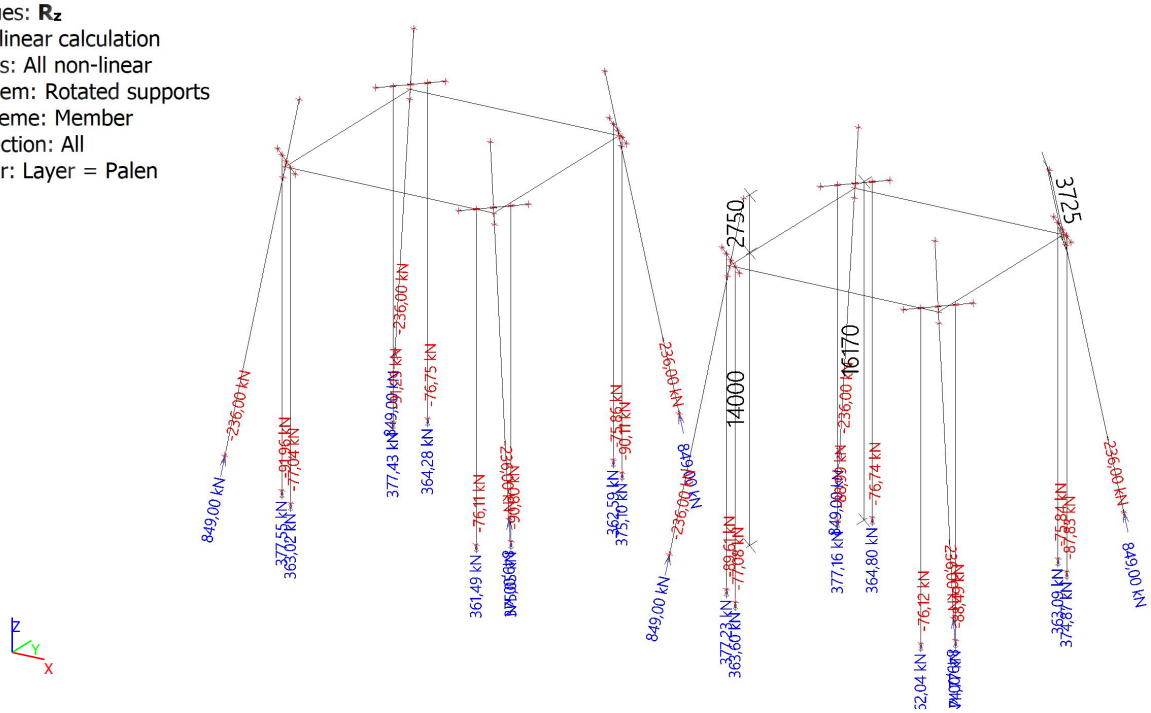
Name	List
All non-linear	low max Wnd ;45°
	low max Wnd ;225°
	low max Wnd ;135°
	low max Wnd ;315°
	high max Wnd ;45°
	high max Wnd ;225°
	high max Wnd ;135°
	high max Wnd ;315°

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LD1(31-plank) - General cross-section
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	high max Wnd ;315°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS219.1/10.0)
Nodal reactions

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn LK4/N171	low max Wnd ;135°	0,00	0,00	**-91,96**	0,00	0,00	0,00	0,0	0,0
Sn LK4/N171	high max Wnd ;315°	**0,00**	**0,00**	**377,55**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reactions

Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen

Nodal reactions

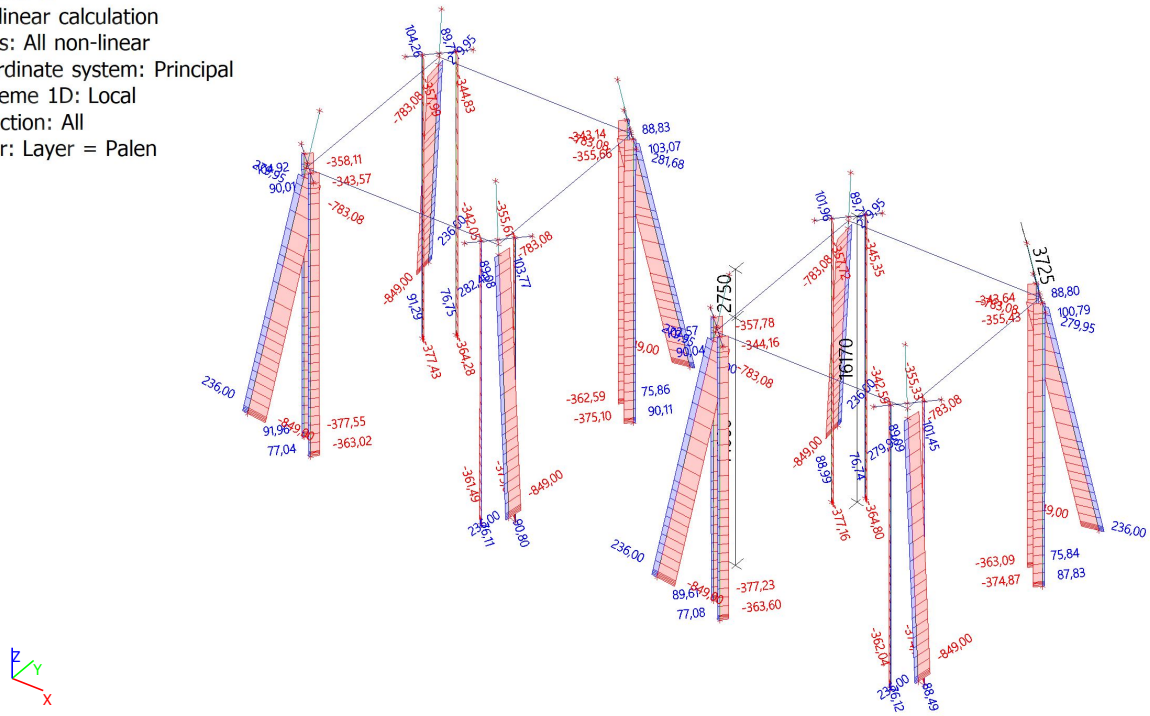
Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P/N139	low max Wnd ;135°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_P/N139	high max Wnd ;315°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	high max Wnd ;225°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y/N143	low max Wnd ;45°	0,00	0,00	**-236,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY/N148	low max Wnd ;315°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_XY/N148	high max Wnd ;135°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X/N153	low max Wnd ;225°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_X/N153	high max Wnd ;45°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK/N159	low max Wnd ;225°	0,00	0,00	**-91,29**	0,00	0,00	0,00	0,0	0,0
Sn LK/N159	high max Wnd ;45°	**0,00**	**0,00**	**377,43**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK1/N160	low max Wnd ;225°	0,00	0,00	**-76,75**	0,00	0,00	0,00	0,0	0,0
Sn LK1/N160	high max Wnd ;45°	**0,00**	**0,00**	**364,28**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK2/N167	low max Wnd ;315°	0,00	0,00	**-90,11**	0,00	0,00	0,00	0,0	0,0
Sn LK2/N167	high max Wnd ;135°	**0,00**	**0,00**	**375,10**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK3/N168	low max Wnd ;315°	0,00	0,00	**-75,86**	0,00	0,00	0,00	0,0	0,0
Sn LK3/N168	high max Wnd ;135°	**0,00**	**0,00**	**362,59**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK4/N171	low max Wnd ;135°	0,00	0,00	**-91,96**	0,00	0,00	0,00	0,0	0,0
Sn LK4/N171	high max Wnd ;315°	**0,00**	**0,00**	**377,55**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK5/N172	low max Wnd ;135°	0,00	0,00	**-77,04**	0,00	0,00	0,00	0,0	0,0
Sn LK5/N172	high max Wnd ;315°	**0,00**	**0,00**	**363,02**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	high max Wnd ;225°	**0,00**	**0,00**	**375,05**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK6/N175	low max Wnd ;45°	0,00	0,00	**-90,80**	0,00	0,00	**0,00**	0,0	0,0
Sn LK7/N176	high max Wnd ;225°	**0,00**	**0,00**	**361,49**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK7/N176	low max Wnd ;45°	0,00	0,00	**-76,11**	0,00	0,00	**0,00**	0,0	0,0
S_P2/N231	low max Wnd ;135°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_P2/N231	high max Wnd ;315°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N235	high max Wnd ;225°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y2/N235	low max Wnd ;45°	0,00	0,00	**-236,00**	0,00	0,00	**0,00**	0,0	0,0
S_XY2/N239	low max	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0

Name	Case	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								
S_XY2/N239	high max Wnd ;135°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X2/N243	low max Wnd ;225°	0,00	0,00	**-236,00**	0,00	0,00	0,00	0,0	0,0
S_X2/N243	high max Wnd ;45°	**0,00**	**0,00**	**849,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK16/N247	low max Wnd ;225°	0,00	0,00	**-88,99**	0,00	0,00	0,00	0,0	0,0
Sn LK16/N247	high max Wnd ;45°	**0,00**	**0,00**	**377,16**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK17/N248	low max Wnd ;225°	0,00	0,00	**-76,74**	0,00	0,00	0,00	0,0	0,0
Sn LK17/N248	high max Wnd ;45°	**0,00**	**0,00**	**364,80**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK18/N251	low max Wnd ;315°	0,00	0,00	**-87,83**	0,00	0,00	0,00	0,0	0,0
Sn LK18/N251	high max Wnd ;135°	**0,00**	**0,00**	**374,87**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK19/N252	low max Wnd ;315°	0,00	0,00	**-75,84**	0,00	0,00	0,00	0,0	0,0
Sn LK19/N252	high max Wnd ;135°	**0,00**	**0,00**	**363,09**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK20/N255	low max Wnd ;135°	0,00	0,00	**-89,61**	0,00	0,00	0,00	0,0	0,0
Sn LK20/N255	high max Wnd ;315°	**0,00**	**0,00**	**377,23**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK21/N256	low max Wnd ;135°	0,00	0,00	**-77,08**	0,00	0,00	0,00	0,0	0,0
Sn LK21/N256	high max Wnd ;315°	**0,00**	**0,00**	**363,60**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N259	high max Wnd ;225°	**0,00**	**0,00**	**374,77**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK22/N259	low max Wnd ;45°	0,00	0,00	**-88,49**	0,00	0,00	**0,00**	0,0	0,0
Sn LK23/N260	high max Wnd ;225°	**0,00**	**0,00**	**362,04**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn LK23/N260	low max Wnd ;45°	0,00	0,00	**-76,12**	0,00	0,00	**0,00**	0,0	0,0

7.2. Krachten van de Funderingspalen

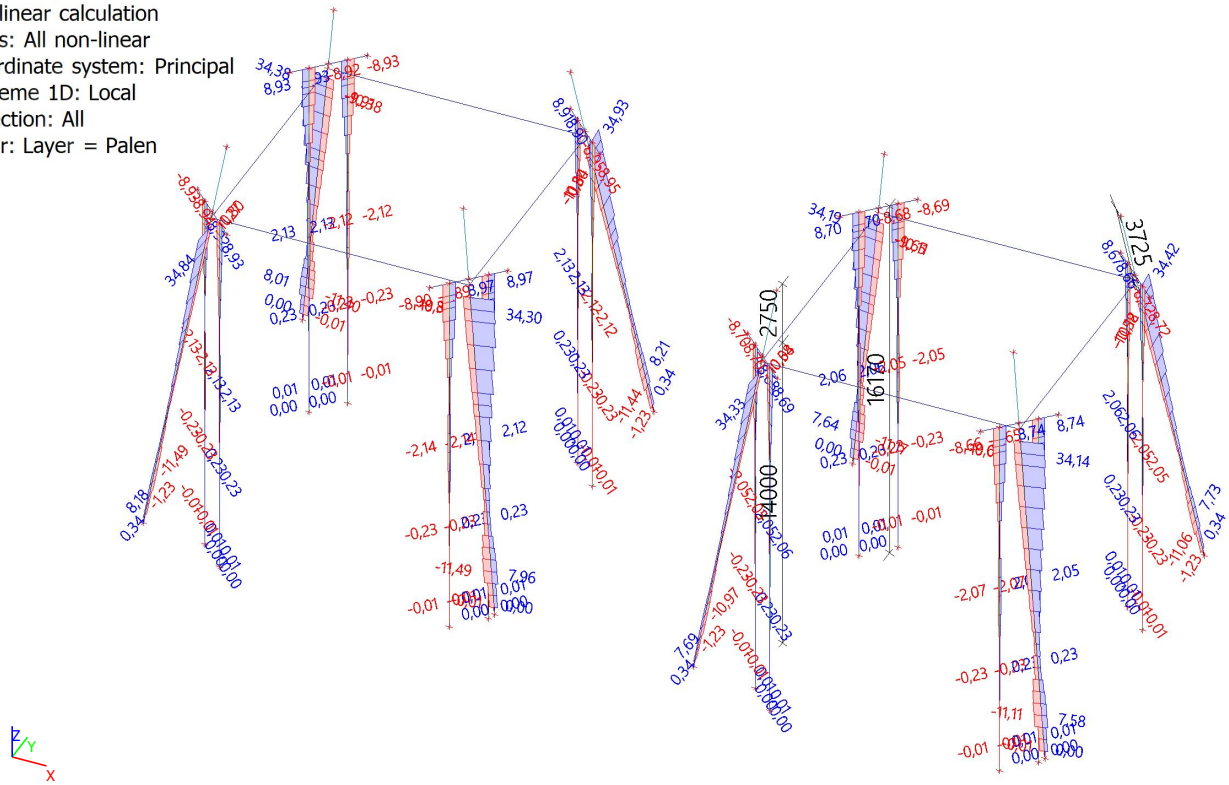
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



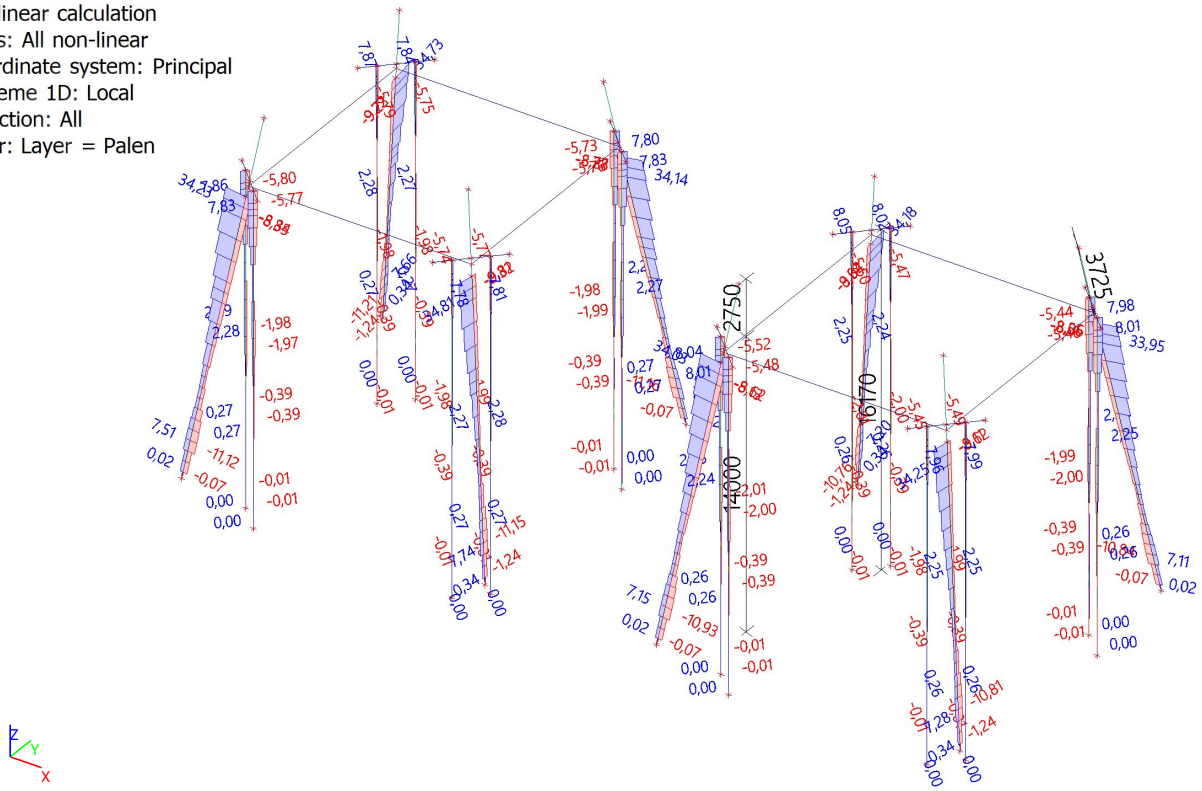
7.2.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



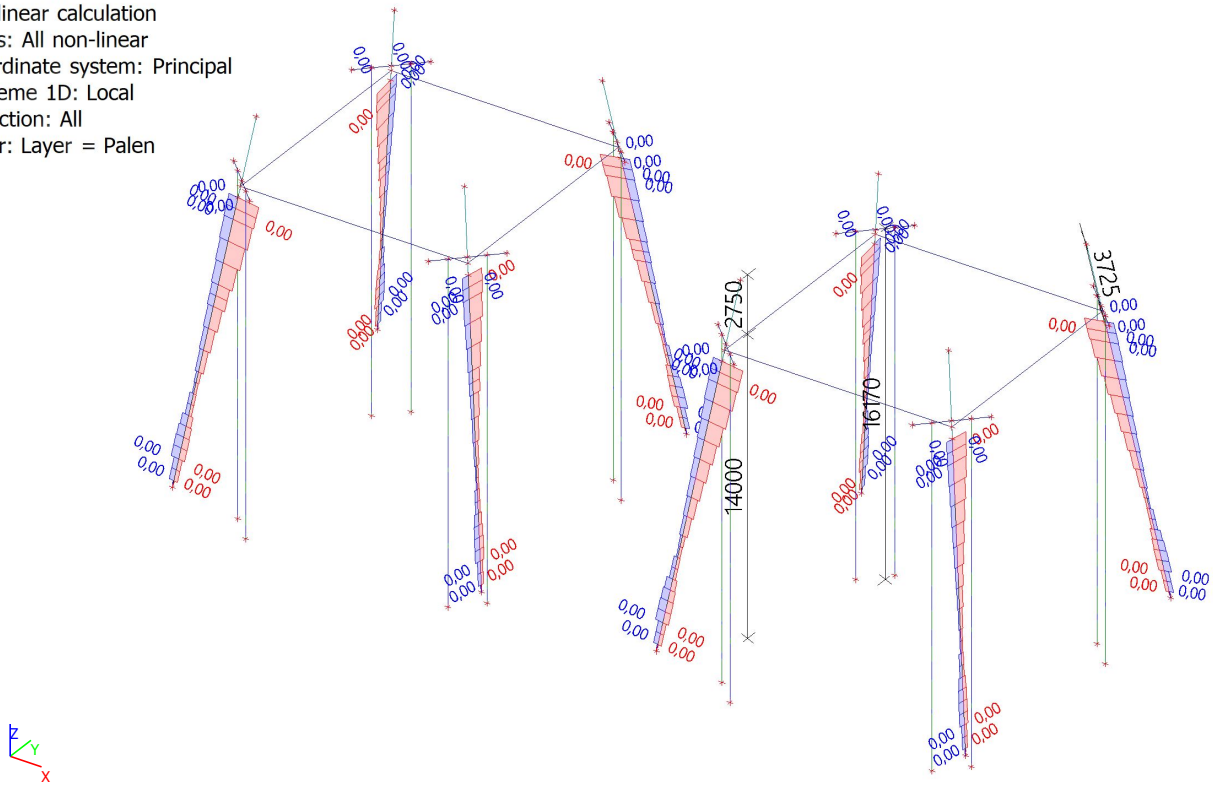
7.2.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



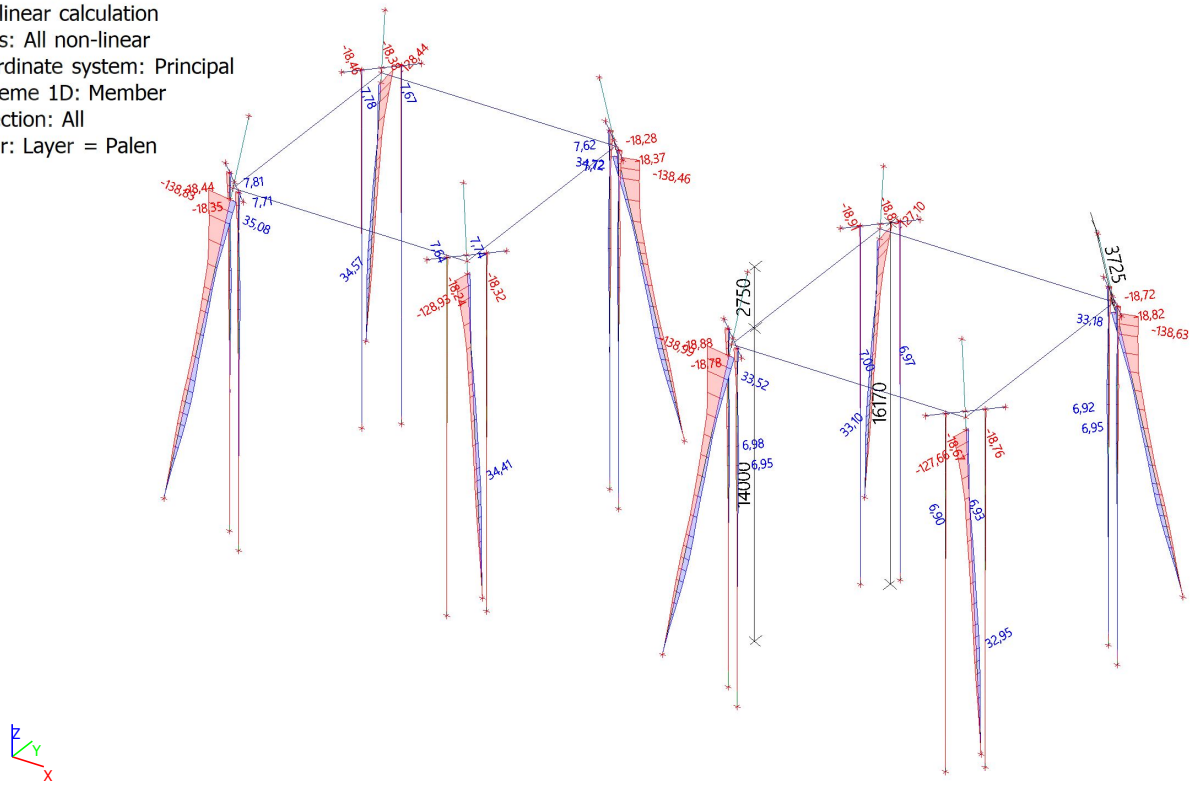
7.2.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



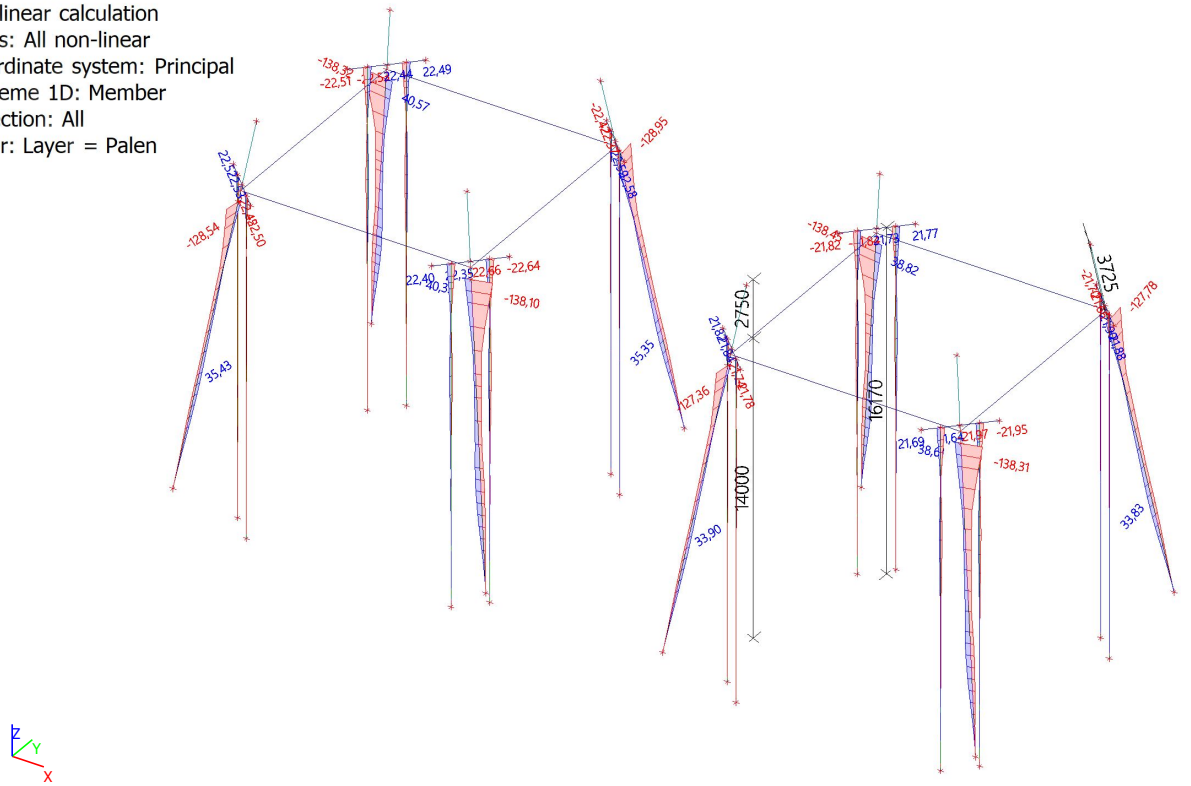
7.2.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Nothing in selection to display.

7.2.8. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = LEKA Paal - type e (CHS219.1/10.0)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_X5	16,020	high max Wnd ;315°	LEKA Paal - type e (CHS219.1/10.0)	**-377,55**	0,00	0,00	**0,00**	0,00	0,00
Paal_X4	0,000	low max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	-71,91	**-8,95**	1,73	0,00	-6,29	**22,59**
Paal_X5	0,000	low max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	**104,92**	-1,93	**-5,80**	0,00	**7,81**	4,11
Paal_X19	0,000	high max Wnd ;45°	LEKA Paal - type e (CHS219.1/10.0)	-357,72	-1,78	**8,05**	0,00	**-18,91**	3,75
Paal_X8	0,000	low max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	-71,52	**8,97**	1,75	0,00	-6,34	**-22,66**

7.3. Krachten van de Poeren

7.3.1. 1D internal forces

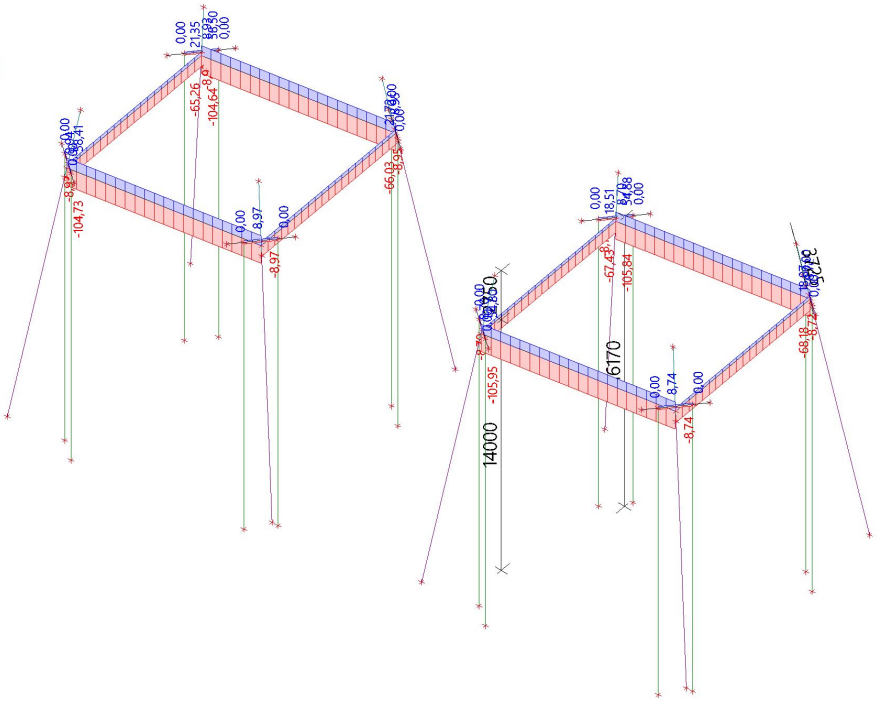
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Layer = Poeren

Name	dx [m]	Case	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer_X	2,959	low max Wnd ;135°	**781,65**	-34,90	18,37	0,00	0,00	0,00
Poer_Y1	0,000	low max Wnd ;225°	82,23	**-56,63**	-15,09	8,95	-1,41	88,60
Poer_P1	0,000	low max Wnd ;135°	82,71	**56,70**	-15,30	-9,04	-1,31	-88,23
Poer_X7	0,000	low max Wnd ;135°	389,22	-15,37	**-103,03**	6,10	152,77	38,32
Poer_XY1	0,255	high max Wnd ;45°	-589,41	-10,88	**116,79**	7,27	-179,09	29,21
Poer_Y1	0,000	high max Wnd ;45°	-158,92	53,54	48,13	**-10,46**	-69,81	-83,03
Poer_P1	0,000	high max Wnd ;315°	-158,13	-53,47	48,01	**10,30**	-69,53	83,75
Poer_XY7	0,000	high max Wnd ;45°	-595,58	-10,51	115,16	7,05	**-209,53**	33,02
Poer_X1	0,000	low max Wnd ;135°	386,84	-15,63	-102,93	6,57	**154,43**	36,16
Poer_XY	0,000	high max Wnd ;45°	**-1032,94**	43,21	17,42	0,00	-51,46	**-142,33**
Poer_Y2	0,511	low max Wnd ;225°	-34,43	29,32	16,70	-0,59	74,62	**123,73**

7.4. Krachten van de Funderingsbalken

7.4.1. Interne 1D- krachten; N

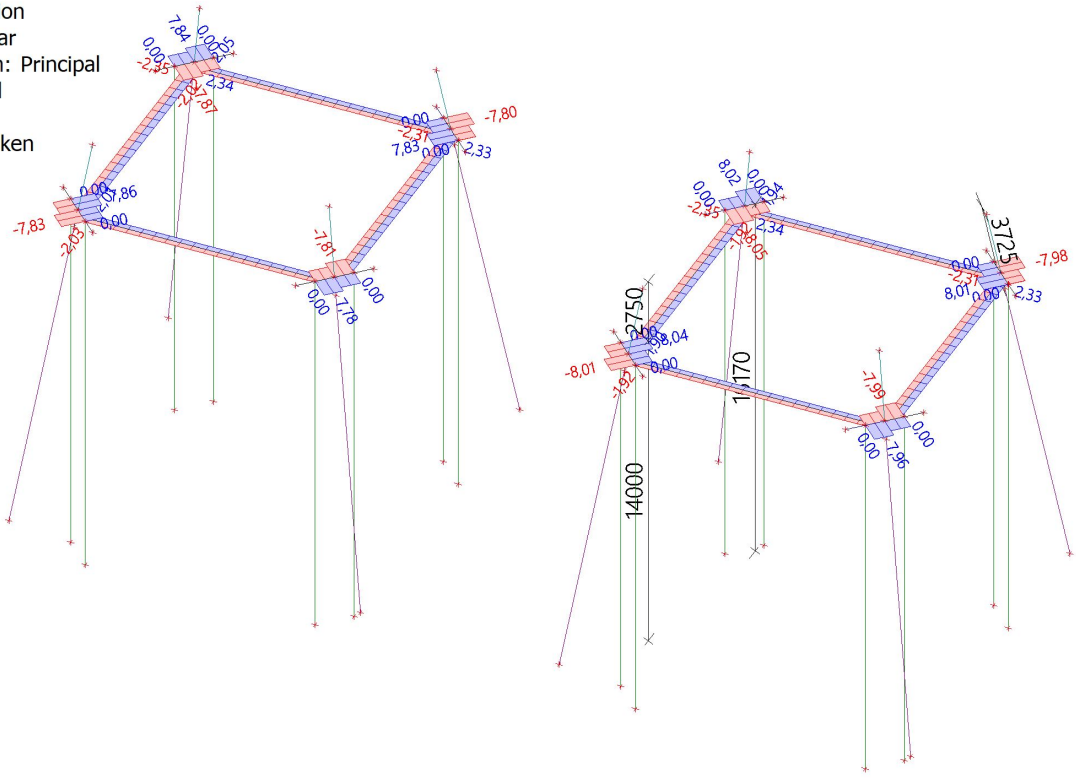
Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken





7.4.2. Interne 1D- krachten; V_y

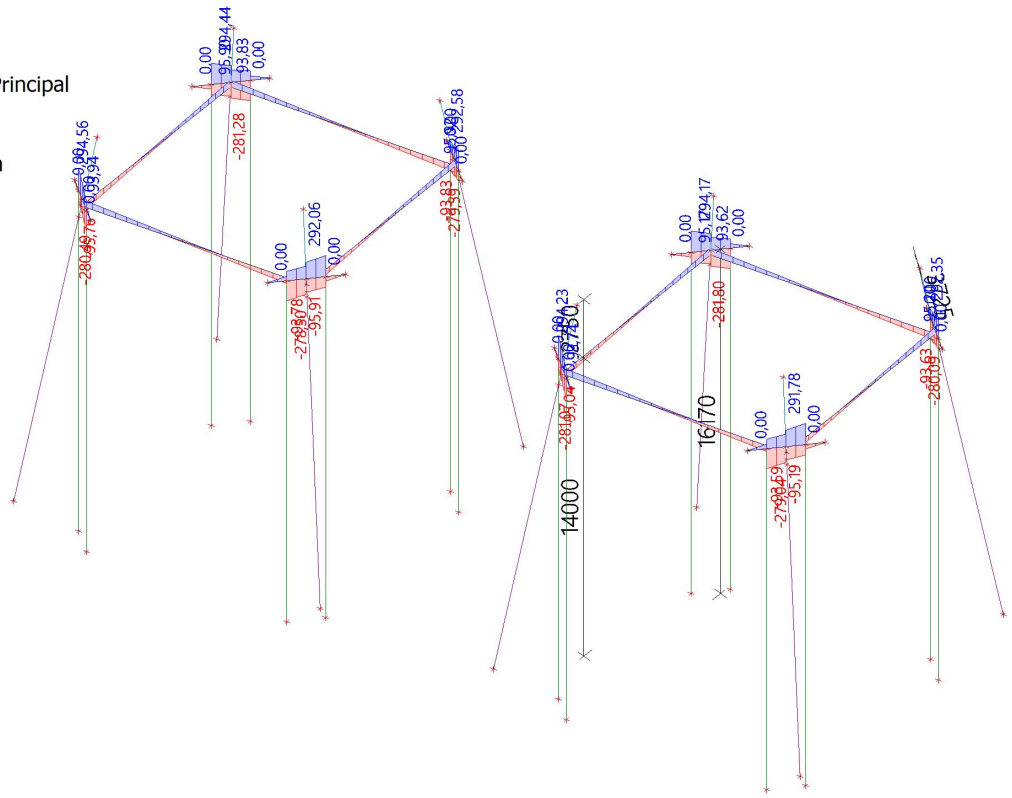
Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken





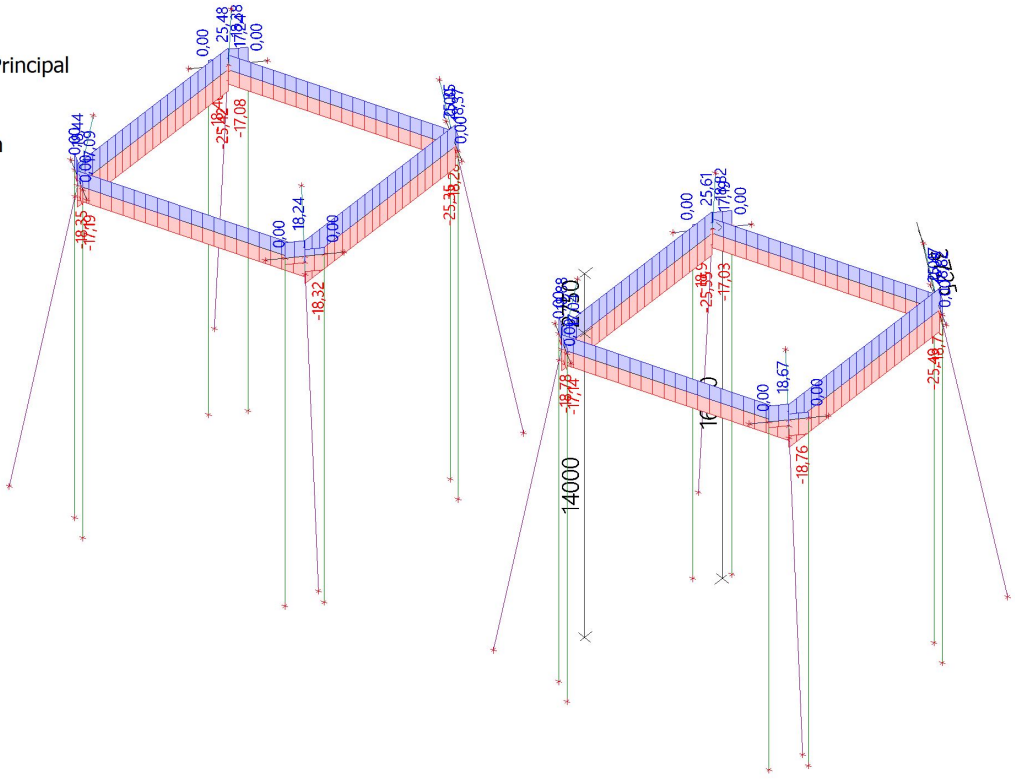
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



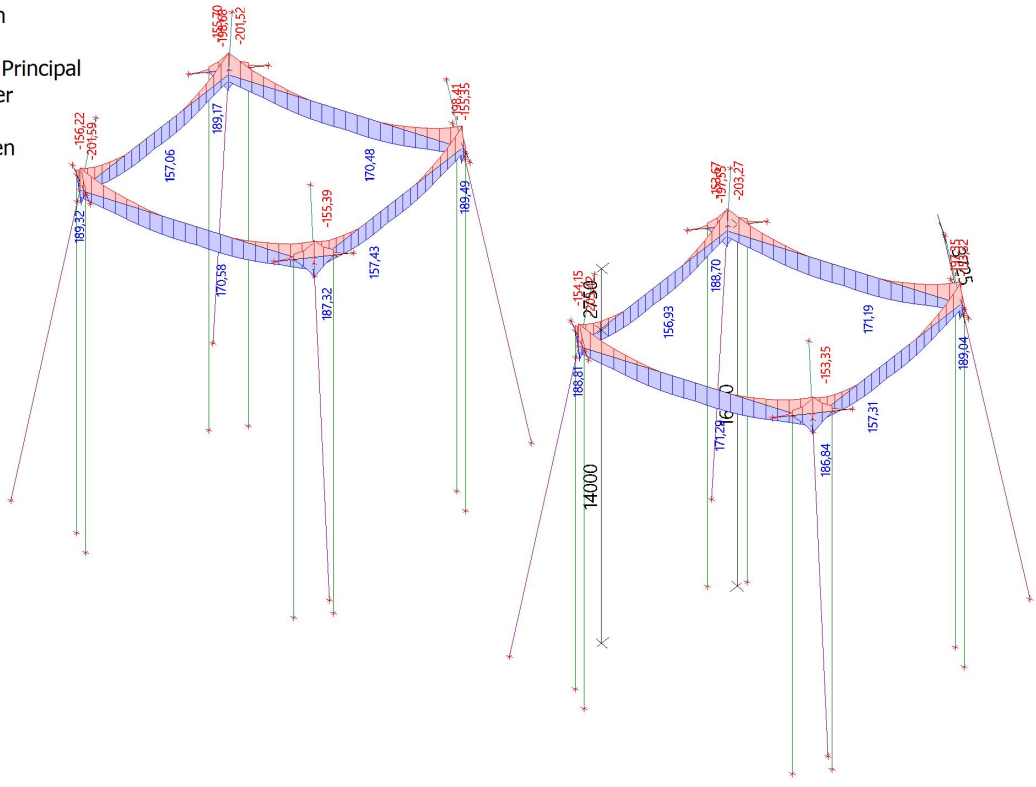
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



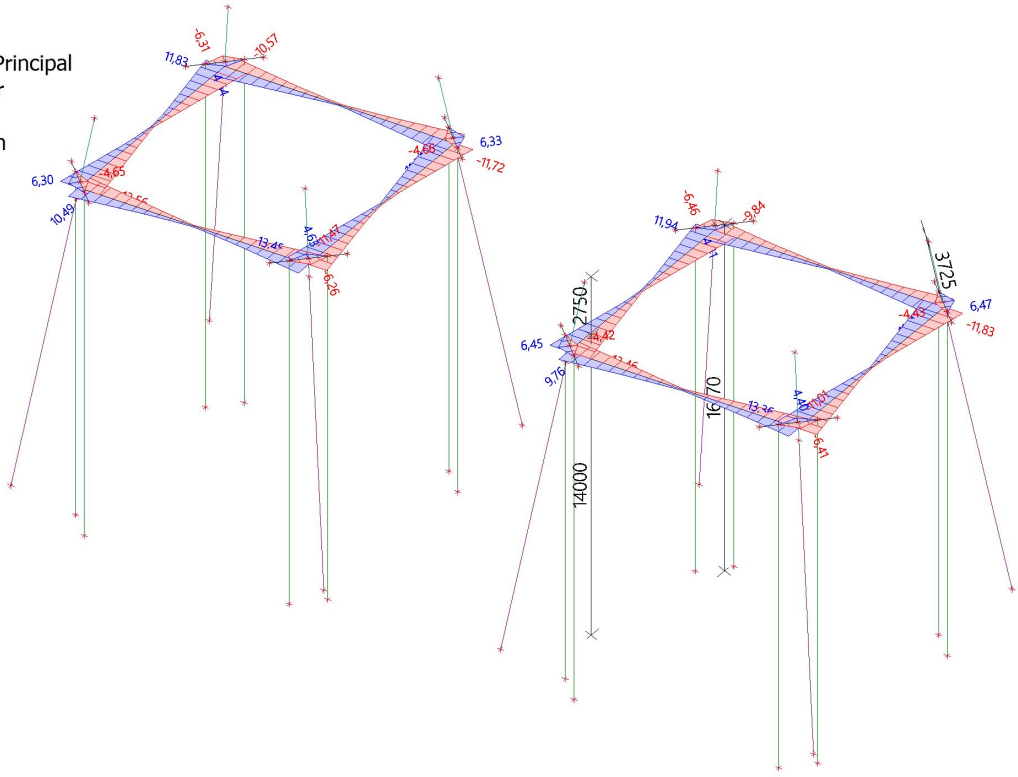
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. 1D internal forces

Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Nothing in selection to display.

7.4.8. 1D internal forces

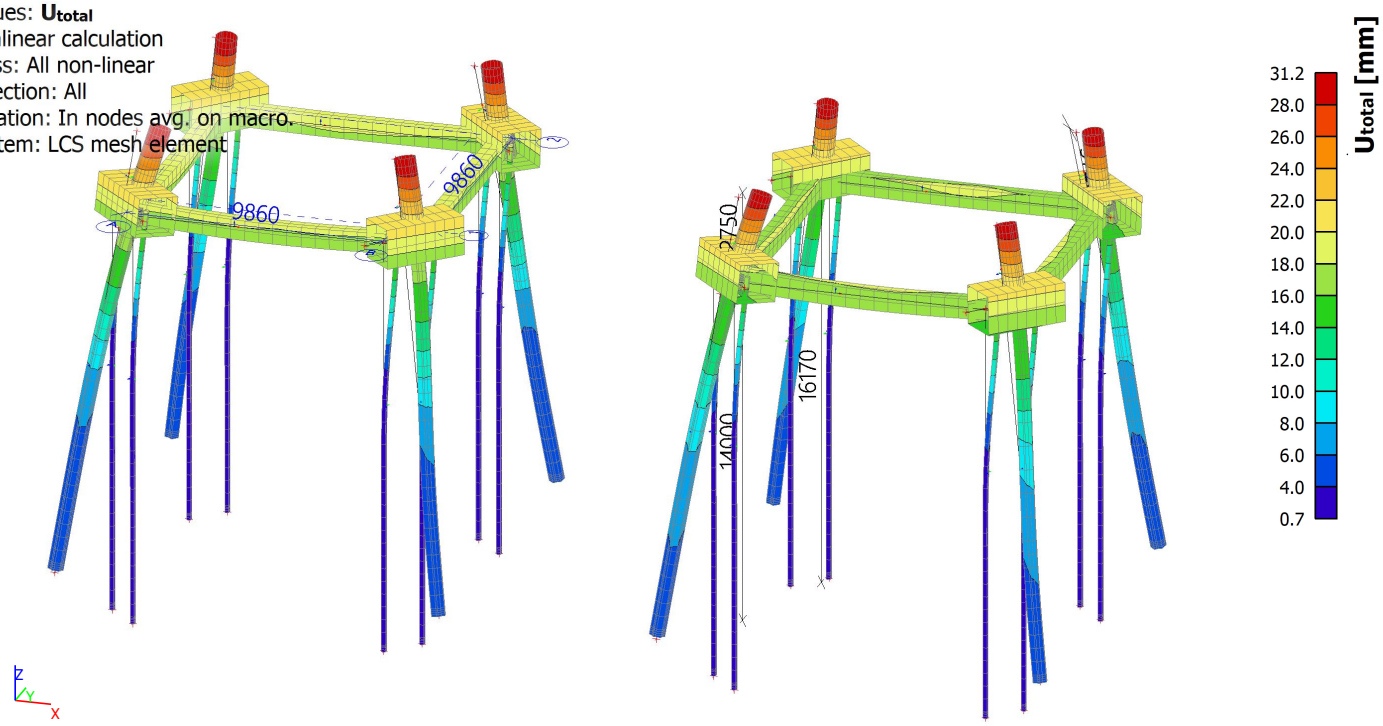
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Global
Selection: All
Filter: Cross-section = lijnpoer - Rectangle (1500,00; 1600,00)

Name	dx [m]	Case	Cross-section	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
DIN39	0,800+	low max Wnd ;135°	lijnpoer - Rectangle (1500,00; 1600,00)	**-8,97**	-1,71	28,45	-6,27	-39,59	0,00
DIN39	1,602+	low max Wnd ;135°	lijnpoer - Rectangle (1500,00; 1600,00)	**8,97**	1,75	12,36	6,34	12,29	-1,37
DIN52	2,386-	high max Wnd ;45°	lijnpoer - Rectangle (1500,00; 1600,00)	-1,84	8,02	**-281,80**	18,82	-29,34	0,00
DIN38	0,800+	high max Wnd ;315°	lijnpoer - Rectangle (1500,00; 1600,00)	1,93	7,86	**294,56**	18,44	-21,37	0,00
DIN54	0,800+	high max Wnd ;315°	lijnpoer - Rectangle (1500,00; 1600,00)	1,80	**8,04**	294,23	**18,88**	-21,62	0,00
DIN38	1,602-	low max Wnd ;135°	lijnpoer - Rectangle (1500,00; 1600,00)	-1,93	-5,80	-189,76	-7,81	**-156,22**	-4,65
DIN37	1,602-	high max Wnd ;135°	lijnpoer - Rectangle (1500,00; 1600,00)	1,97	7,83	228,40	18,37	**189,49**	6,33
DIN52	1,602-	high max Wnd ;45°	lijnpoer - Rectangle (1500,00; 1600,00)	1,78	**-8,05**	230,46	**-18,91**	188,70	**-6,46**
DIN53	1,602-	high max Wnd ;135°	lijnpoer - Rectangle (1500,00; 1600,00)	1,83	8,01	228,17	18,82	189,04	**6,47**

7.5. Vervormingen

7.5.1. 3D displacement; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro.
System: LCS mesh element



7.5.2. 3D displacement

Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro. System: LCS mesh element
Results on 1D member:
Extreme 1D: Member

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Poer_X	2,959	19	high max Wnd ;225°	-3,0	2,0	-12,6	0,0	-1,0	0,8	**13,0**
Poer_X	2,959	15	low max Wnd ;135°	7,2	30,4	0,2	0,0	0,6	4,5	**31,2**
Poer_X1	0,000	10	high max Wnd ;135°	1,2	-1,5	14,7	-0,1	-4,0	0,1	**14,8**
Poer_X1	0,255	1	low max Wnd ;135°	6,7	-1,6	17,7	-0,1	-3,6	0,2	**19,0**
Paal_P	11,000-	23	low max Wnd ;45°	0,3	-0,1	0,0	0,0	0,4	0,3	**0,3**
Paal_P	0,000	22	low max Wnd ;225°	2,7	13,3	-9,5	0,0	-0,5	0,2	**16,6**
Poer_X2	0,000	11	high max Wnd ;135°	1,2	-1,6	12,7	0,0	-3,9	0,1	**12,9**
Poer_X2	0,511	1	low max Wnd ;135°	6,8	-1,6	16,8	0,0	-3,6	0,1	**18,2**
Poer_P	2,959	13	high max Wnd ;315°	-2,9	2,0	12,7	0,0	1,0	0,8	**13,2**
Poer_P	2,959	17	low max Wnd ;45°	7,2	30,3	-0,2	0,0	-0,6	4,5	**31,1**
Poer_P1	0,000	20	high max Wnd ;135°	-0,5	14,7	1,9	0,0	-2,0	0,0	**14,8**
Poer_P1	0,255	1	low max Wnd ;45°	6,7	1,7	17,6	0,1	-3,6	-0,1	**18,9**
Paal_Y	11,000-	17	low max Wnd ;135°	0,3	0,0	-0,1	0,0	-0,3	-0,4	**0,4**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_Y	0,000	19	low max Wnd ;315°	2,7	-10,1	12,8	0,0	-0,2	0,5	**16,5**
Poer_P2	0,000	11	high max Wnd ;45°	1,2	1,6	12,8	0,0	-3,9	-0,1	**13,0**
Poer_P2	0,511	1	low max Wnd ;45°	6,7	1,6	16,7	0,0	-3,6	-0,1	**18,1**
Poer_Y	2,959	19	high max Wnd ;45°	-2,9	2,0	-12,7	0,0	-1,0	0,8	**13,2**
Poer_Y	2,959	15	low max Wnd ;315°	7,2	30,2	0,2	0,0	0,6	4,5	**31,0**
Poer_Y1	0,000	1	high max Wnd ;225°	-0,5	-14,6	1,9	0,0	-2,0	0,0	**14,8**
Poer_Y1	0,255	1	low max Wnd ;315°	6,7	-1,7	17,6	-0,1	-3,6	0,1	**18,9**
Paal_XY	11,000-	23	low max Wnd ;225°	0,3	-0,1	0,0	0,0	0,4	0,3	**0,3**
Paal_XY	0,000	22	low max Wnd ;45°	2,7	13,3	-9,5	0,0	-0,5	0,2	**16,6**
Poer_Y2	0,000	11	high max Wnd ;315°	1,2	-1,6	12,8	0,0	-3,9	0,1	**12,9**
Poer_Y2	0,511	1	low max Wnd ;315°	6,7	-1,6	16,7	0,0	-3,5	0,1	**18,0**
Poer_XY	2,959	13	high max Wnd ;135°	-3,0	1,9	12,6	0,0	1,0	0,8	**13,1**
Poer_XY	2,959	17	low max Wnd ;225°	7,2	30,3	-0,2	0,0	-0,6	4,5	**31,2**
Poer_XY1	0,000	12	high max Wnd ;225°	1,2	1,6	14,7	0,1	-3,9	-0,1	**14,8**
Poer_XY1	0,255	1	low max Wnd ;225°	6,7	1,6	17,7	0,1	-3,6	-0,1	**19,0**
Paal_X	11,000-	17	low max Wnd ;315°	0,3	0,0	-0,1	0,0	-0,3	-0,4	**0,4**
Paal_X	0,000	19	low max Wnd ;135°	2,7	-10,2	12,8	0,0	-0,2	0,5	**16,6**
Poer_XY2	0,000	11	high max Wnd ;225°	1,2	1,6	12,7	0,0	-3,9	-0,1	**12,8**
Poer_XY2	0,511	1	low max Wnd ;225°	6,8	1,6	16,7	0,0	-3,6	-0,1	**18,1**
(balk 600x750)8	0,000	8	high max Wnd ;135°	8,4	10,7	0,1	-2,7	2,9	-0,1	**13,7**
(balk 600x750)8	0,000	5	low max Wnd ;135°	12,2	14,3	2,2	-2,4	2,6	0,0	**19,0**
(balk 600x750)1	0,000	8	high max Wnd ;225°	8,4	-10,7	0,1	2,7	2,9	0,1	**13,6**
(balk 600x750)1	0,000	3	low max Wnd ;225°	12,2	-14,3	2,2	2,4	2,6	0,1	**18,9**
(balk 600x750)2	0,000	8	high max Wnd ;225°	10,7	8,4	0,1	-2,9	2,7	0,1	**13,6**
(balk 600x750)2	10,792	5	low max Wnd ;135°	-14,4	12,2	2,2	-2,6	-2,4	0,0	**19,0**
(balk 600x750)3	0,000	8	high max Wnd ;315°	10,8	-8,5	0,1	2,9	2,7	-0,1	**13,7**
(balk 600x750)3	10,792	3	low max Wnd ;45°	-14,3	-12,1	2,2	2,6	-2,4	0,1	**18,9**
DIN34	3,186	8	high max Wnd ;225°	-1,7	-12,9	-0,3	4,0	0,1	0,1	**13,0**
DIN34	0,000	3	low max Wnd ;225°	-1,5	-21,1	4,4	3,6	0,1	0,1	**21,6**
Paal_X1	16,020	5	high max Wnd ;225°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_X1	0,000	3	low max Wnd ;225°	-1,8	1,5	-18,4	-0,1	-3,6	0,1	**18,5**
Paal_X2	16,020	5	high max Wnd ;225°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_X2	0,000	3	low max Wnd ;225°	-1,5	1,5	-18,3	-0,1	-3,6	0,1	**18,4**

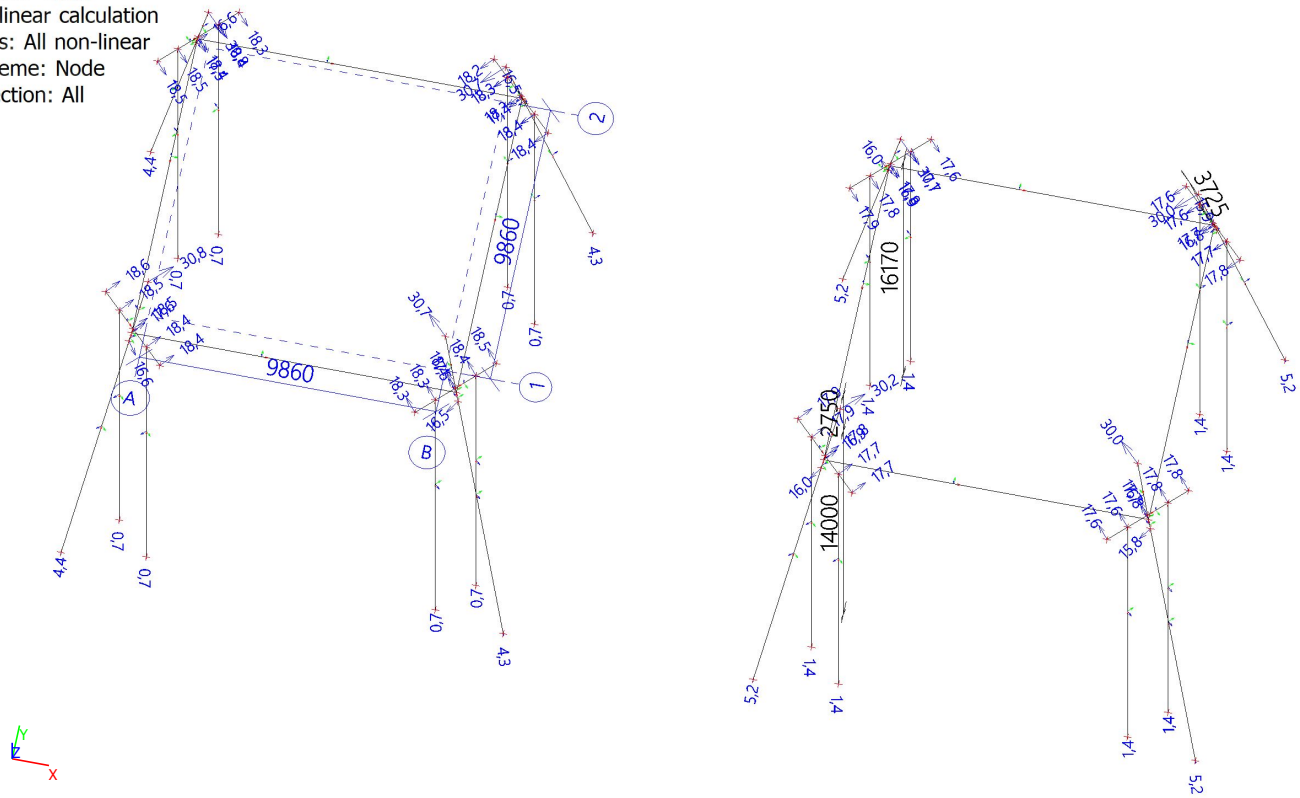
Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
DIN37	3,186	8	high max Wnd ;315°	-1,6	13,0	-0,3	-4,0	0,1	-0,1	**13,1**
DIN37	0,000	5	low max Wnd ;315°	-1,5	21,0	4,3	-3,6	0,1	-0,1	**21,5**
Paal_X3	16,020	5	high max Wnd ;315°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_X3	0,000	3	low max Wnd ;315°	-1,7	-1,5	-18,3	0,1	-3,6	-0,1	**18,4**
Paal_X4	16,020	5	high max Wnd ;315°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_X4	0,000	3	low max Wnd ;315°	-1,5	-1,5	-18,2	0,1	-3,6	-0,1	**18,3**
DIN38	3,186	8	high max Wnd ;135°	-1,7	12,9	-0,3	-4,0	0,1	-0,1	**13,0**
DIN38	0,000	5	low max Wnd ;135°	-1,5	21,2	4,4	-3,6	0,1	-0,1	**21,7**
Paal_X5	16,020	5	high max Wnd ;135°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_X5	0,000	3	low max Wnd ;135°	-1,8	-1,5	-18,4	0,1	-3,6	-0,1	**18,6**
Paal_X6	16,020	5	high max Wnd ;135°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_X6	0,000	3	low max Wnd ;135°	-1,6	-1,5	-18,3	0,1	-3,6	-0,1	**18,4**
DIN39	3,186	8	high max Wnd ;45°	-1,7	-13,0	-0,3	4,0	0,1	0,1	**13,1**
DIN39	0,000	3	low max Wnd ;45°	-1,5	-21,1	4,3	3,6	0,1	0,1	**21,6**
Paal_X7	16,020	5	high max Wnd ;45°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_X7	0,000	3	low max Wnd ;45°	-1,7	1,6	-18,3	-0,1	-3,6	0,1	**18,5**
Paal_X8	16,020	5	high max Wnd ;45°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_X8	0,000	3	low max Wnd ;45°	-1,5	1,6	-18,2	-0,1	-3,6	0,1	**18,3**
Poer_X6	2,959	19	high max Wnd ;225°	-3,2	2,7	-12,9	0,0	-1,0	0,9	**13,6**
Poer_X6	2,959	15	low max Wnd ;135°	7,5	29,6	0,0	0,0	0,6	4,5	**30,6**
Poer_X7	0,000	10	high max Wnd ;135°	1,1	-1,4	14,6	-0,1	-4,0	0,1	**14,7**
Poer_X7	0,255	1	low max Wnd ;135°	7,0	-1,4	17,0	-0,1	-3,7	0,2	**18,4**
Paal_P2	11,000-	23	low max Wnd ;45°	0,4	-0,1	0,0	0,0	0,4	0,3	**0,4**
Paal_P2	0,000	28	high max Wnd ;315°	7,9	10,6	9,0	0,0	0,5	-0,4	**16,0**
Poer_X8	0,000	11	high max Wnd ;135°	1,1	-1,5	12,6	0,0	-3,9	0,1	**12,7**
Poer_X8	0,511	1	low max Wnd ;135°	7,0	-1,4	16,0	0,0	-3,6	0,1	**17,6**
Poer_P6	2,959	13	high max Wnd ;315°	-3,1	2,8	13,0	0,0	1,0	0,9	**13,7**
Poer_P6	2,959	17	low max Wnd ;45°	7,4	29,5	0,0	0,0	-0,6	4,5	**30,4**
Poer_P7	0,000	12	high max Wnd ;45°	1,1	1,5	14,7	0,1	-4,0	-0,1	**14,8**
Poer_P7	0,255	1	low max Wnd ;45°	6,9	1,5	16,9	0,1	-3,6	-0,2	**18,3**
Paal_Y2	11,000-	17	low max Wnd ;135°	0,4	0,0	-0,1	0,0	-0,3	-0,4	**0,4**
Paal_Y2	0,000	28	high max Wnd ;225°	7,9	8,3	11,0	0,0	0,4	-0,5	**15,9**
Poer_P8	0,000	11	high max Wnd ;45°	1,2	1,5	12,7	0,0	-3,9	-0,1	**12,8**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Poer_P8	0,511	1	low max Wnd ;45°	7,0	1,5	15,9	0,0	-3,6	-0,1	**17,5**
Poer_Y6	2,959	19	high max Wnd ;45°	-3,2	2,8	-13,1	0,0	-1,0	0,9	**13,8**
Poer_Y6	2,959	15	low max Wnd ;315°	7,4	29,5	0,0	0,0	0,6	4,5	**30,4**
Poer_Y7	0,000	10	high max Wnd ;315°	1,1	-1,4	14,7	-0,1	-4,0	0,1	**14,8**
Poer_Y7	0,255	1	low max Wnd ;315°	6,9	-1,5	16,9	-0,1	-3,6	0,2	**18,3**
Paal_XY2	11,000-	23	low max Wnd ;225°	0,4	-0,1	0,0	0,0	0,4	0,3	**0,4**
Paal_XY2	0,000	28	high max Wnd ;135°	7,9	10,6	8,9	0,0	0,5	-0,4	**16,0**
Poer_Y8	0,000	11	high max Wnd ;315°	1,2	-1,5	12,6	0,0	-3,9	0,1	**12,8**
Poer_Y8	0,511	1	low max Wnd ;315°	7,0	-1,4	15,9	0,0	-3,6	0,1	**17,4**
Poer_XY6	2,959	13	high max Wnd ;135°	-3,2	2,7	12,9	0,0	1,0	0,9	**13,6**
Poer_XY6	2,959	17	low max Wnd ;225°	7,5	29,6	0,0	0,0	-0,6	4,5	**30,5**
Poer_XY7	0,000	12	high max Wnd ;225°	1,1	1,5	14,5	0,1	-4,0	-0,1	**14,7**
Poer_XY7	0,255	1	low max Wnd ;225°	6,9	1,5	16,9	0,1	-3,6	-0,2	**18,4**
Paal_X18	11,000-	17	low max Wnd ;315°	0,4	0,0	-0,1	0,0	-0,3	-0,4	**0,4**
Paal_X18	0,000	28	high max Wnd ;45°	7,9	8,5	11,1	0,0	0,4	-0,5	**16,1**
Poer_XY8	0,000	11	high max Wnd ;225°	1,1	1,5	12,5	0,0	-3,9	-0,1	**12,7**
Poer_XY8	0,511	1	low max Wnd ;225°	7,0	1,4	16,0	0,0	-3,6	-0,1	**17,5**
(balk 600x750)4	0,000	8	high max Wnd ;135°	8,4	10,5	0,1	-2,7	2,9	-0,1	**13,5**
(balk 600x750)4	5,936	3	high max Wnd ;45°	-9,6	12,5	-9,7	-2,2	-0,3	0,0	**18,5**
(balk 600x750)5	0,000	8	high max Wnd ;225°	8,4	-10,5	0,1	2,7	2,9	0,1	**13,5**
(balk 600x750)5	5,936	5	high max Wnd ;315°	-9,6	-12,4	-9,7	2,2	-0,3	0,0	**18,5**
(balk 600x750)6	0,000	8	high max Wnd ;225°	10,5	8,4	0,1	-2,9	2,7	0,1	**13,5**
(balk 600x750)6	10,792	5	low max Wnd ;135°	-13,8	11,8	2,6	-2,6	-2,4	0,0	**18,3**
(balk 600x750)7	0,000	8	high max Wnd ;315°	10,6	-8,5	0,1	2,9	2,7	-0,1	**13,6**
(balk 600x750)7	5,936	5	high max Wnd ;45°	-11,7	-10,5	-9,4	2,0	-0,4	0,0	**18,3**
DIN52	3,186	8	high max Wnd ;225°	-1,5	-12,7	-0,4	4,1	0,1	0,1	**12,8**
DIN52	0,000	3	low max Wnd ;225°	-1,3	-20,5	4,8	3,7	0,1	0,1	**21,0**
Paal_X19	16,020	5	high max Wnd ;225°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_X19	0,000	3	low max Wnd ;225°	-2,2	1,4	-17,7	-0,1	-3,7	0,1	**17,9**
Paal_X20	16,020	5	high max Wnd ;225°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_X20	0,000	3	low max Wnd ;225°	-1,9	1,4	-17,6	-0,1	-3,7	0,2	**17,7**
DIN53	3,186	8	high max Wnd ;315°	-1,5	12,9	-0,4	-4,1	0,1	-0,1	**12,9**
DIN53	0,000	5	low max Wnd ;315°	-1,3	20,4	4,7	-3,6	0,1	-0,1	**21,0**

Name	dx [m]	Fibre	Case	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_X21	16,020	5	high max Wnd ;315°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_X21	0,000	3	low max Wnd ;315°	-2,1	-1,4	-17,6	0,1	-3,6	-0,1	**17,8**
Paal_X22	16,020	5	high max Wnd ;315°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_X22	0,000	3	low max Wnd ;315°	-1,9	-1,4	-17,5	0,1	-3,6	-0,2	**17,7**
DIN54	3,186	8	high max Wnd ;135°	-1,5	12,8	-0,4	-4,1	0,1	-0,1	**12,9**
DIN54	0,000	5	low max Wnd ;135°	-1,3	20,5	4,8	-3,7	0,1	-0,1	**21,1**
Paal_X23	16,020	5	high max Wnd ;135°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_X23	0,000	3	low max Wnd ;135°	-2,2	-1,4	-17,7	0,1	-3,7	-0,1	**17,9**
Paal_X24	16,020	5	high max Wnd ;135°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_X24	0,000	3	low max Wnd ;135°	-1,9	-1,4	-17,6	0,1	-3,7	-0,2	**17,8**
DIN55	3,186	8	high max Wnd ;45°	-1,5	-12,9	-0,4	4,1	0,1	0,1	**13,0**
DIN55	0,000	3	low max Wnd ;45°	-1,4	-20,4	4,8	3,6	0,1	0,1	**21,0**
Paal_X25	16,020	5	high max Wnd ;45°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_X25	0,000	3	low max Wnd ;45°	-2,1	1,4	-17,6	-0,1	-3,6	0,1	**17,8**
Paal_X26	16,020	5	high max Wnd ;45°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_X26	0,000	3	low max Wnd ;45°	-1,9	1,4	-17,5	-0,1	-3,6	0,2	**17,7**

7.5.3. Displacement of nodes; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Displacement of nodes

Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N122	low max Wnd ;45°	**-10,9**	12,1	-0,8	-1,0	0,9	0,0	16,3
N122	low max Wnd ;225°	9,8	**-13,3**	-2,1	-0,4	0,4	0,0	16,6
N122	high max Wnd ;315°	-9,3	-11,6	**-4,1**	0,3	-0,4	0,0	15,4
N122	low max Wnd ;315°	-9,8	-12,1	-3,3	**0,7**	**-0,9**	**0,0**	15,9
N122	high max Wnd ;135°	9,5	11,8	0,1	**-2,7**	**2,9**	**-0,1**	15,1
N122	low max Wnd ;135°	**11,2**	**13,4**	**1,5**	-2,4	2,6	0,0	**17,6**
N123	low max Wnd ;45°	**-10,7**	12,3	-0,9	-1,0	1,0	0,0	16,3
N123	low max Wnd ;225°	9,9	**-13,2**	-2,2	-0,4	0,4	0,0	16,6
N123	high max Wnd ;315°	-9,5	-11,7	**-4,1**	0,3	-0,5	0,1	15,6
N123	low max Wnd ;315°	-10,1	-12,3	-3,3	**0,8**	**-1,0**	**0,1**	16,2
N123	high max Wnd ;135°	10,2	12,4	-0,1	**-2,8**	**2,9**	**-0,1**	16,1
N123	low max Wnd ;135°	**11,9**	**14,0**	**1,3**	-2,5	2,7	-0,1	**18,5**
1P	high max Wnd	-13,3	-13,8	**-3,9**	0,9	-1,6	0,1	19,6

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;315°							
1P	high max Wnd ;135°	20,7	21,1	-2,4	**-3,1**	**3,9**	-0,2	29,7
1P	low max Wnd ;315°	**-15,2**	**-15,7**	-2,7	**1,3**	**-2,1**	0,1	22,0
1P	high max Wnd ;45°	-3,3	14,5	-2,8	-0,7	2,1	**-0,2**	15,1
1P	high max Wnd ;225°	9,8	-8,0	-3,8	-1,3	-0,1	**0,2**	13,2
1P	low max Wnd ;135°	**21,7**	**21,9**	**-0,7**	-2,8	3,6	-0,1	**30,8**
N139	high max Wnd ;315°	-0,3	-0,3	**-4,4**	0,1	-0,1	0,0	**4,4**
N139	low max Wnd ;135°	0,6	**0,5**	**4,0**	0,0	0,0	0,0	4,1
N139	low max Wnd ;45°	**0,6**	**-0,5**	-0,5	**-0,2**	**-0,3**	**0,1**	0,9
N139	low max Wnd ;225°	**-0,7**	0,4	-1,6	**0,2**	**0,2**	**-0,1**	1,8
N1	low max Wnd ;45°	**-11,3**	11,6	-0,7	-1,0	0,8	0,0	16,2
N1	low max Wnd ;225°	9,5	**-13,4**	-2,1	-0,2	0,5	0,0	**16,6**
N1	high max Wnd ;315°	-9,1	-11,4	**-4,1**	0,4	-0,5	0,0	15,2
N1	low max Wnd ;135°	**10,0**	**12,2**	**1,8**	-2,4	2,5	0,0	15,9
N1	low max Wnd ;315°	-9,4	-11,7	-3,4	**0,8**	**-0,9**	**0,0**	15,4
N1	high max Wnd ;135°	8,1	10,4	0,5	**-2,7**	**2,8**	**0,0**	13,2
N140	low max Wnd ;45°	**-11,1**	**13,4**	**1,4**	-2,4	-2,6	0,1	**17,5**
N140	low max Wnd ;135°	**11,0**	12,1	-0,8	-1,0	-0,9	0,0	16,4
N140	low max Wnd ;315°	-9,7	**-13,2**	-2,1	-0,4	-0,4	0,0	16,5
N140	high max Wnd ;225°	9,2	-11,5	**-4,1**	0,3	0,4	0,0	15,3
N140	high max Wnd ;45°	-9,6	11,8	0,1	**-2,7**	**-2,9**	**0,1**	15,2
N140	low max Wnd ;225°	9,9	-12,1	-3,3	**0,8**	**0,9**	**0,0**	16,0
N141	low max Wnd ;45°	**-11,8**	**14,0**	**1,3**	-2,5	-2,7	0,1	**18,4**
N141	low max Wnd ;135°	**10,8**	12,4	-0,9	-0,9	-1,0	0,0	16,4
N141	low max Wnd ;315°	-9,8	**-13,1**	-2,2	-0,4	-0,4	0,0	16,5
N141	high max Wnd ;225°	9,3	-11,6	**-4,1**	0,3	0,5	-0,1	15,4
N141	high max Wnd ;45°	-10,3	12,5	-0,1	**-2,8**	**-2,9**	**0,1**	16,2
N141	low max Wnd ;225°	10,1	-12,3	-3,3	**0,8**	**1,0**	**-0,1**	16,3
1Y	low max Wnd ;45°	**-21,6**	**21,9**	**-0,7**	-2,8	-3,6	0,1	**30,7**
1Y	low max Wnd ;225°	**15,3**	**-15,8**	-2,7	**1,4**	**2,1**	-0,1	22,1
1Y	high max Wnd ;225°	13,2	-13,7	**-3,9**	0,9	1,6	-0,1	19,4
1Y	high max Wnd ;45°	-20,8	21,2	-2,4	**-3,1**	**-3,9**	0,2	29,8
1Y	high max Wnd ;315°	-9,9	-8,0	-3,8	-1,3	0,1	**-0,2**	13,3
1Y	high max Wnd	3,3	14,5	-2,8	-0,7	-2,1	**0,2**	15,1

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;135°							
N143	high max Wnd ;225°	0,3	-0,3	**-4,3**	0,1	0,1	0,0	**4,3**
N143	low max Wnd ;45°	-0,6	**0,5**	**4,0**	0,0	0,0	0,0	4,1
N143	low max Wnd ;315°	**0,7**	0,4	-1,6	**0,2**	**-0,2**	**0,1**	1,8
N143	low max Wnd ;135°	**-0,6**	**-0,5**	-0,5	**-0,2**	**0,3**	**-0,1**	0,9
N144	low max Wnd ;45°	**-9,9**	**12,2**	**1,8**	-2,4	-2,5	0,0	15,8
N144	low max Wnd ;135°	**11,4**	11,6	-0,7	-1,0	-0,8	0,0	16,3
N144	low max Wnd ;315°	-9,5	**-13,4**	-2,1	-0,2	-0,5	0,0	**16,5**
N144	high max Wnd ;225°	9,0	-11,3	**-4,1**	0,4	0,5	0,0	15,0
N144	high max Wnd ;45°	-8,2	10,5	0,5	**-2,7**	**-2,8**	**0,1**	13,3
N144	low max Wnd ;225°	9,4	-11,7	-3,4	**0,8**	**0,9**	**0,0**	15,4
N145	low max Wnd ;225°	**11,0**	-12,1	-0,8	1,0	-0,9	0,0	16,4
N145	low max Wnd ;315°	**-11,1**	**-13,4**	**1,4**	2,4	-2,6	-0,1	**17,4**
N145	low max Wnd ;45°	-9,7	**13,3**	-2,1	0,4	-0,4	0,0	16,6
N145	high max Wnd ;135°	9,2	11,6	**-4,1**	-0,3	0,4	**0,0**	15,3
N145	low max Wnd ;135°	9,9	12,2	-3,3	**-0,8**	**0,9**	0,1	16,0
N145	high max Wnd ;315°	-9,6	-11,8	0,1	**2,7**	**-2,9**	**-0,1**	15,2
N146	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-1,0	0,0	16,4
N146	low max Wnd ;315°	**-11,8**	**-14,0**	**1,3**	2,5	-2,7	-0,1	**18,3**
N146	low max Wnd ;45°	-9,8	**13,2**	-2,2	0,4	-0,4	0,0	16,6
N146	high max Wnd ;135°	9,3	11,7	**-4,1**	-0,4	0,5	**0,1**	15,5
N146	low max Wnd ;135°	10,1	12,4	-3,3	**-0,8**	**1,0**	0,1	16,3
N146	high max Wnd ;315°	-10,3	-12,5	-0,1	**2,8**	**-2,9**	**-0,1**	16,2
1XY	low max Wnd ;315°	**-21,5**	**-21,8**	**-0,8**	2,8	-3,6	-0,1	**30,7**
1XY	high max Wnd ;135°	13,2	13,8	**-3,9**	-0,9	1,6	0,1	19,5
1XY	low max Wnd ;135°	**15,3**	**15,9**	-2,7	**-1,4**	**2,1**	0,1	22,2
1XY	high max Wnd ;315°	-20,8	-21,1	-2,4	**3,1**	**-3,9**	-0,1	29,8
1XY	high max Wnd ;225°	3,2	-14,4	-2,8	0,7	-2,1	**-0,2**	15,0
1XY	high max Wnd ;45°	-9,9	8,1	-3,8	1,3	0,1	**0,2**	13,4
N148	low max Wnd ;225°	**-0,6**	**0,5**	-0,5	**0,2**	**0,3**	**0,1**	0,9
N148	low max Wnd ;315°	-0,6	**-0,5**	**4,0**	0,0	0,0	0,0	4,0
N148	high max Wnd ;135°	0,3	0,3	**-4,3**	-0,1	0,1	0,0	**4,3**
N148	low max Wnd ;45°	**0,7**	-0,4	-1,6	**-0,2**	**-0,2**	**-0,1**	1,8
N149	low max Wnd	**11,4**	-11,6	-0,7	1,0	-0,8	0,0	16,3

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;225°							
N149	low max Wnd ;315°	**-9,9**	**-12,1**	**1,8**	2,4	-2,5	0,0	15,7
N149	high max Wnd ;135°	9,0	11,4	**-4,1**	-0,4	0,4	**0,0**	15,1
N149	low max Wnd ;135°	9,4	11,8	-3,4	**-0,8**	**0,9**	0,0	15,5
N149	high max Wnd ;315°	-8,2	-10,4	0,5	**2,7**	**-2,8**	**0,0**	13,2
N149	low max Wnd ;45°	-9,5	**13,4**	-2,1	0,2	-0,5	0,0	**16,5**
N150	low max Wnd ;315°	**-10,9**	-12,1	-0,8	1,0	0,9	0,0	16,3
N150	low max Wnd ;225°	**11,2**	**-13,4**	**1,4**	2,4	2,6	0,1	**17,5**
N150	low max Wnd ;135°	9,8	**13,3**	-2,1	0,4	0,4	0,0	16,6
N150	high max Wnd ;45°	-9,4	11,6	**-4,1**	-0,3	-0,4	0,0	15,5
N150	low max Wnd ;45°	-9,8	12,1	-3,3	**-0,7**	**-0,9**	**0,0**	16,0
N150	high max Wnd ;225°	9,5	-11,7	0,1	**2,7**	**2,9**	**0,1**	15,1
N151	low max Wnd ;315°	**-10,7**	-12,3	-0,9	1,0	1,0	0,0	16,3
N151	low max Wnd ;225°	**11,9**	**-14,0**	**1,3**	2,5	2,7	0,1	**18,4**
N151	low max Wnd ;135°	9,9	**13,2**	-2,2	0,4	0,4	0,0	16,6
N151	high max Wnd ;45°	-9,5	11,7	**-4,1**	-0,4	-0,5	-0,1	15,6
N151	low max Wnd ;45°	-10,1	12,3	-3,3	**-0,8**	**-1,0**	**-0,1**	16,3
N151	high max Wnd ;225°	10,2	-12,4	-0,1	**2,8**	**2,9**	**0,1**	16,1
1X	low max Wnd ;225°	**21,6**	**-21,9**	**-0,7**	2,8	3,6	0,1	**30,8**
1X	high max Wnd ;45°	-13,3	13,9	**-3,9**	-0,9	-1,6	-0,1	19,7
1X	low max Wnd ;45°	**-15,2**	**15,8**	-2,7	**-1,3**	**-2,1**	-0,1	22,1
1X	high max Wnd ;225°	20,7	-21,0	-2,4	**3,1**	**3,9**	0,2	29,6
1X	high max Wnd ;135°	9,8	8,1	-3,8	1,3	-0,1	**-0,2**	13,2
1X	high max Wnd ;315°	-3,3	-14,4	-2,8	0,7	2,1	**0,2**	15,1
N153	low max Wnd ;225°	0,6	**-0,5**	**4,0**	0,0	0,0	0,0	4,1
N153	high max Wnd ;45°	-0,3	0,3	**-4,4**	-0,1	-0,1	0,0	**4,4**
N153	low max Wnd ;135°	**-0,7**	-0,4	-1,6	**-0,2**	**0,2**	**0,1**	1,8
N153	low max Wnd ;315°	**0,6**	**0,5**	-0,5	**0,2**	**-0,3**	**-0,1**	0,9
N154	low max Wnd ;315°	**-11,3**	-11,6	-0,7	1,0	0,8	0,0	16,2
N154	low max Wnd ;225°	**9,9**	**-12,2**	**1,8**	2,4	2,5	0,0	15,8
N154	high max Wnd ;45°	-9,1	11,4	**-4,1**	-0,4	-0,5	0,0	15,2
N154	low max Wnd ;45°	-9,4	11,7	-3,4	**-0,8**	**-0,9**	**0,0**	15,4
N154	high max Wnd ;225°	8,0	-10,4	0,5	**2,7**	**2,8**	**0,1**	13,2
N154	low max Wnd	9,5	**13,4**	-2,1	0,2	0,5	0,0	**16,6**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;135°							
N155	low max Wnd ;315°	**-10,7**	-12,3	-0,9	1,0	1,0	0,0	16,3
N155	low max Wnd ;225°	**11,8**	**-14,0**	**1,0**	2,5	2,7	0,1	**18,3**
N155	low max Wnd ;135°	9,9	**13,2**	-2,2	0,4	0,4	0,0	16,6
N155	high max Wnd ;45°	-9,4	11,7	**-3,9**	-0,4	-0,5	-0,1	15,5
N155	low max Wnd ;45°	-10,0	12,3	-3,1	**-0,8**	**-1,0**	**-0,1**	16,1
N155	high max Wnd ;225°	10,1	-12,4	-0,3	**2,7**	**2,9**	**0,1**	16,0
N156	low max Wnd ;315°	**-10,7**	-12,3	-0,9	1,0	1,0	0,0	16,3
N156	low max Wnd ;225°	**11,9**	**-14,1**	**1,4**	2,5	2,7	0,1	**18,5**
N156	low max Wnd ;135°	9,9	**13,2**	-2,1	0,4	0,4	0,0	16,6
N156	high max Wnd ;45°	-9,5	11,8	**-4,2**	-0,4	-0,5	-0,1	15,7
N156	low max Wnd ;45°	-10,1	12,4	-3,4	**-0,8**	**-0,9**	**-0,1**	16,4
N156	high max Wnd ;225°	10,3	-12,5	0,1	**2,8**	**2,9**	**0,1**	16,2
N159	high max Wnd ;45°	0,0	0,0	**-0,7**	0,0	0,0	-0,1	**0,7**
N159	low max Wnd ;225°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	0,1	0,4
N159	high max Wnd ;225°	0,0	0,0	0,0	0,0	**0,0**	**0,1**	0,0
N159	low max Wnd ;45°	0,0	0,0	-0,6	0,0	0,0	**-0,1**	0,6
N160	high max Wnd ;45°	0,0	0,0	**-0,7**	0,0	0,0	-0,1	**0,7**
N160	low max Wnd ;225°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	0,1	0,4
N160	high max Wnd ;225°	0,0	0,0	-0,1	0,0	**0,0**	**0,1**	0,1
N160	low max Wnd ;45°	0,0	0,0	-0,5	0,0	0,0	**-0,1**	0,5
N165	low max Wnd ;225°	**10,8**	-12,3	-0,9	0,9	-1,0	0,0	16,4
N165	low max Wnd ;315°	**-11,7**	**-13,9**	**1,0**	2,5	-2,7	-0,1	**18,2**
N165	low max Wnd ;45°	-9,8	**13,2**	-2,2	0,4	-0,4	0,0	16,6
N165	high max Wnd ;135°	9,3	11,6	**-3,9**	-0,3	0,5	**0,1**	15,3
N165	low max Wnd ;135°	10,1	12,3	-3,1	**-0,8**	**1,0**	0,1	16,2
N165	high max Wnd ;315°	-10,2	-12,4	-0,3	**2,8**	**-2,9**	**-0,1**	16,1
N166	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-0,9	0,0	16,4
N166	low max Wnd ;315°	**-11,9**	**-14,0**	**1,4**	2,5	-2,6	-0,1	**18,4**
N166	low max Wnd ;45°	-9,8	**13,2**	-2,1	0,4	-0,4	0,0	16,6
N166	high max Wnd ;135°	9,4	11,7	**-4,2**	-0,4	0,5	**0,1**	15,6
N166	low max Wnd ;135°	10,2	12,4	-3,4	**-0,8**	**0,9**	0,1	16,4
N166	high max Wnd ;315°	-10,4	-12,5	0,1	**2,8**	**-2,9**	**-0,1**	16,3
N167	high max Wnd	0,0	0,0	**-0,7**	0,0	0,0	**0,1**	**0,7**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;135°							
N167	low max Wnd ;315°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	-0,1	0,4
N167	high max Wnd ;315°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N168	high max Wnd ;135°	0,0	0,0	**-0,7**	0,0	0,0	**0,1**	**0,7**
N168	low max Wnd ;315°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	-0,1	0,4
N168	high max Wnd ;315°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N169	low max Wnd ;45°	**-10,7**	12,3	-0,9	-1,0	1,0	0,0	16,3
N169	low max Wnd ;225°	9,9	**-13,2**	-2,2	-0,4	0,4	0,0	16,6
N169	high max Wnd ;315°	-9,4	-11,6	**-3,9**	0,3	-0,5	0,1	15,4
N169	low max Wnd ;315°	-10,0	-12,2	-3,1	**0,8**	**-1,0**	**0,1**	16,1
N169	high max Wnd ;135°	10,2	12,4	-0,3	**-2,8**	**2,9**	**-0,1**	16,0
N169	low max Wnd ;135°	**11,9**	**14,0**	**1,0**	-2,5	2,7	-0,1	**18,4**
N170	low max Wnd ;45°	**-10,7**	12,3	-0,9	-1,0	1,0	0,0	16,3
N170	low max Wnd ;225°	9,8	**-13,2**	-2,1	-0,4	0,4	0,0	16,6
N170	high max Wnd ;315°	-9,5	-11,7	**-4,2**	0,4	-0,5	0,1	15,7
N170	low max Wnd ;315°	-10,1	-12,4	-3,4	**0,8**	**-0,9**	**0,1**	16,3
N170	high max Wnd ;135°	10,3	12,5	0,1	**-2,8**	**2,9**	**-0,1**	16,2
N170	low max Wnd ;135°	**12,0**	**14,1**	**1,5**	-2,5	2,7	-0,1	**18,6**
N171	high max Wnd ;315°	0,0	0,0	**-0,7**	0,0	0,0	0,1	**0,7**
N171	low max Wnd ;135°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	-0,1	0,4
N171	high max Wnd ;135°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N171	low max Wnd ;315°	0,0	0,0	-0,6	0,0	0,0	**0,1**	0,6
N172	high max Wnd ;315°	0,0	0,0	**-0,7**	0,0	0,0	0,1	**0,7**
N172	low max Wnd ;135°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	-0,1	0,4
N172	low max Wnd ;315°	0,0	0,0	-0,5	**0,0**	0,0	**0,1**	0,5
N172	high max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N173	low max Wnd ;45°	**-11,7**	**13,9**	**1,0**	-2,5	-2,7	0,1	**18,3**
N173	low max Wnd ;135°	**10,8**	12,3	-0,9	-0,9	-1,0	0,0	16,4
N173	low max Wnd ;315°	-9,8	**-13,1**	-2,2	-0,4	-0,4	0,0	16,5
N173	high max Wnd ;225°	9,3	-11,5	**-3,9**	0,3	0,5	-0,1	15,3
N173	high max Wnd ;45°	-10,2	12,5	-0,3	**-2,8**	**-2,9**	**0,1**	16,1
N173	low max Wnd ;225°	10,1	-12,3	-3,1	**0,8**	**1,0**	**-0,1**	16,2
N174	low max Wnd ;45°	**-11,9**	**14,1**	**1,4**	-2,5	-2,7	0,1	**18,5**
N174	low max Wnd	**10,8**	12,4	-0,9	-1,0	-1,0	0,0	16,4

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;135°							
N174	low max Wnd ;315°	-9,8	**-13,1**	-2,1	-0,4	-0,4	0,0	16,5
N174	high max Wnd ;225°	9,4	-11,6	**-4,2**	0,4	0,5	-0,1	15,5
N174	high max Wnd ;45°	-10,4	12,6	0,1	**-2,8**	**-2,9**	**0,1**	16,3
N174	low max Wnd ;225°	10,2	-12,4	-3,4	**0,8**	**1,0**	**-0,1**	16,4
N175	high max Wnd ;225°	0,0	0,0	**-0,7**	0,0	0,0	-0,1	**0,7**
N175	low max Wnd ;45°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	0,1	0,4
N175	low max Wnd ;225°	0,0	0,0	-0,6	0,0	0,0	**-0,1**	0,6
N175	high max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	**0,1**	0,0
N176	high max Wnd ;225°	0,0	0,0	**-0,7**	0,0	0,0	-0,1	**0,7**
N176	low max Wnd ;45°	**0,0**	**0,0**	**0,4**	**0,0**	**0,0**	0,1	0,4
N176	low max Wnd ;225°	0,0	0,0	-0,5	0,0	0,0	**-0,1**	0,5
N176	high max Wnd ;45°	0,0	0,0	-0,1	0,0	0,0	**0,1**	0,1
N209	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-0,9	0,0	16,4
N209	low max Wnd ;315°	**-11,8**	**-14,0**	**1,3**	2,5	-2,6	-0,1	**18,4**
N209	low max Wnd ;45°	-9,8	**13,2**	-2,1	0,4	-0,4	0,0	16,6
N209	high max Wnd ;135°	9,4	11,7	**-4,1**	-0,4	0,5	**0,1**	15,5
N209	low max Wnd ;135°	10,2	12,4	-3,3	**-0,8**	**0,9**	0,1	16,4
N209	high max Wnd ;315°	-10,3	-12,5	0,0	**2,8**	**-2,9**	**-0,1**	16,2
N210	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-1,0	0,0	16,4
N210	low max Wnd ;315°	**-11,8**	**-13,9**	**1,1**	2,5	-2,7	-0,1	**18,3**
N210	low max Wnd ;45°	-9,8	**13,2**	-2,2	0,4	-0,4	0,0	16,6
N210	high max Wnd ;135°	9,3	11,6	**-4,0**	-0,3	0,5	**0,1**	15,4
N210	low max Wnd ;135°	10,1	12,4	-3,2	**-0,8**	**1,0**	0,1	16,3
N210	high max Wnd ;315°	-10,3	-12,4	-0,2	**2,8**	**-2,9**	**-0,1**	16,1
N213	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-1,0	0,0	16,4
N213	low max Wnd ;315°	**-11,8**	**-13,9**	**1,1**	2,5	-2,7	-0,1	**18,3**
N213	low max Wnd ;45°	-9,8	**13,2**	-2,2	0,4	-0,4	0,0	16,6
N213	high max Wnd ;135°	9,3	11,6	**-4,0**	-0,3	0,5	**0,1**	15,4
N213	low max Wnd ;135°	10,1	12,4	-3,2	**-0,8**	**1,0**	0,1	16,3
N213	high max Wnd ;315°	-10,3	-12,4	-0,2	**2,8**	**-2,9**	**-0,1**	16,1
N214	low max Wnd ;225°	**10,7**	-12,3	-0,9	0,9	-0,9	0,0	16,4
N214	low max Wnd ;315°	**-11,8**	**-14,0**	**1,3**	2,5	-2,6	-0,1	**18,4**
N214	low max Wnd	-9,8	**13,2**	-2,1	0,4	-0,4	0,0	16,6

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;45°							
N214	high max Wnd ;135°	9,4	11,7	**-4,1**	-0,4	0,5	**0,1**	15,5
N214	low max Wnd ;135°	10,2	12,4	-3,3	**-0,8**	**0,9**	0,1	16,4
N214	high max Wnd ;315°	-10,3	-12,5	0,0	**2,8**	**-2,9**	**-0,1**	16,2
N215	low max Wnd ;45°	**-10,7**	12,3	-0,9	-1,0	1,0	0,0	16,3
N215	low max Wnd ;225°	9,9	**-13,2**	-2,1	-0,4	0,4	0,0	16,6
N215	high max Wnd ;315°	-9,5	-11,7	**-4,1**	0,4	-0,5	0,1	15,6
N215	low max Wnd ;315°	-10,1	-12,3	-3,3	**0,8**	**-0,9**	**0,1**	16,3
N215	high max Wnd ;135°	10,3	12,5	0,0	**-2,8**	**2,9**	**-0,1**	16,2
N215	low max Wnd ;135°	**11,9**	**14,1**	**1,4**	-2,5	2,7	-0,1	**18,5**
N220	low max Wnd ;45°	**-10,7**	12,3	-0,9	-1,0	1,0	0,0	16,3
N220	low max Wnd ;225°	9,9	**-13,2**	-2,2	-0,4	0,4	0,0	16,6
N220	high max Wnd ;315°	-9,4	-11,6	**-4,0**	0,3	-0,5	0,1	15,5
N220	low max Wnd ;315°	-10,0	-12,3	-3,1	**0,8**	**-1,0**	**0,1**	16,2
N220	high max Wnd ;135°	10,2	12,4	-0,2	**-2,8**	**2,9**	**-0,1**	16,1
N220	low max Wnd ;135°	**11,9**	**14,0**	**1,2**	-2,5	2,7	-0,1	**18,4**
N221	low max Wnd ;315°	**-10,7**	-12,3	-0,9	1,0	1,0	0,0	16,3
N221	low max Wnd ;225°	**11,9**	**-14,1**	**1,4**	2,5	2,7	0,1	**18,5**
N221	low max Wnd ;135°	9,9	**13,2**	-2,1	0,4	0,4	0,0	16,6
N221	high max Wnd ;45°	-9,5	11,7	**-4,1**	-0,4	-0,5	-0,1	15,7
N221	low max Wnd ;45°	-10,1	12,4	-3,3	**-0,8**	**-0,9**	**-0,1**	16,3
N221	high max Wnd ;225°	10,2	-12,5	0,0	**2,8**	**2,9**	**0,1**	16,1
N222	low max Wnd ;315°	**-10,7**	-12,3	-0,9	1,0	1,0	0,0	16,3
N222	low max Wnd ;225°	**11,8**	**-14,0**	**1,2**	2,5	2,7	0,1	**18,4**
N222	low max Wnd ;135°	9,9	**13,2**	-2,2	0,4	0,4	0,0	16,6
N222	high max Wnd ;45°	-9,5	11,7	**-4,0**	-0,4	-0,5	-0,1	15,6
N222	low max Wnd ;45°	-10,0	12,3	-3,2	**-0,8**	**-1,0**	**-0,1**	16,2
N222	high max Wnd ;225°	10,2	-12,4	-0,2	**2,8**	**2,9**	**0,1**	16,0
N224	low max Wnd ;45°	**-11,8**	**14,0**	**1,4**	-2,5	-2,7	0,1	**18,4**
N224	low max Wnd ;135°	**10,8**	12,4	-0,9	-1,0	-1,0	0,0	16,4
N224	low max Wnd ;315°	-9,8	**-13,1**	-2,1	-0,4	-0,4	0,0	16,5
N224	high max Wnd ;225°	9,4	-11,6	**-4,1**	0,4	0,5	-0,1	15,5
N224	high max Wnd ;45°	-10,3	12,6	0,0	**-2,8**	**-2,9**	**0,1**	16,3
N224	low max Wnd	10,2	-12,4	-3,3	**0,8**	**0,9**	**-0,1**	16,3

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;225°							
N227	low max Wnd ;45°	**-11,8**	**14,0**	**1,1**	-2,5	-2,7	0,1	**18,3**
N227	low max Wnd ;135°	**10,8**	12,4	-0,9	-0,9	-1,0	0,0	16,4
N227	low max Wnd ;315°	-9,8	**-13,1**	-2,2	-0,4	-0,4	0,0	16,5
N227	high max Wnd ;225°	9,3	-11,6	**-4,0**	0,3	0,5	-0,1	15,4
N227	high max Wnd ;45°	-10,3	12,5	-0,2	**-2,8**	**-2,9**	**0,1**	16,2
N227	low max Wnd ;225°	10,1	-12,3	-3,2	**0,8**	**1,0**	**-0,1**	16,2
N229	low max Wnd ;45°	**-10,5**	11,6	-0,9	-1,0	0,9	0,0	15,7
N229	low max Wnd ;225°	9,4	**-12,7**	-2,4	-0,4	0,5	0,0	16,0
N229	high max Wnd ;315°	-9,9	-12,0	**-4,8**	0,3	-0,5	0,0	16,2
N229	low max Wnd ;315°	-9,5	-11,6	-3,7	**0,7**	**-0,9**	**0,1**	15,4
N229	high max Wnd ;135°	9,5	11,6	0,0	**-2,7**	**2,9**	**-0,1**	15,0
N229	low max Wnd ;135°	**10,8**	**12,8**	**1,8**	-2,4	2,6	0,0	**16,9**
N230	low max Wnd ;45°	**-10,3**	11,8	-1,0	-1,0	1,0	0,0	15,7
N230	low max Wnd ;225°	9,5	**-12,6**	-2,4	-0,4	0,4	0,0	15,9
N230	high max Wnd ;315°	-10,0	-12,0	**-4,8**	0,4	-0,5	0,1	16,4
N230	low max Wnd ;315°	-9,7	-11,8	-3,6	**0,8**	**-0,9**	**0,1**	15,7
N230	high max Wnd ;135°	10,3	12,3	-0,1	**-2,8**	**3,0**	**-0,1**	16,0
N230	low max Wnd ;135°	**11,5**	**13,5**	**1,7**	-2,5	2,7	-0,1	**17,8**
1P2	high max Wnd ;315°	-14,0	-14,3	**-4,6**	0,9	-1,7	0,1	20,6
1P2	high max Wnd ;135°	20,8	20,9	-2,4	**-3,1**	**3,9**	-0,2	29,6
1P2	low max Wnd ;315°	**-14,8**	**-15,1**	-3,1	**1,3**	**-2,1**	0,1	21,4
1P2	high max Wnd ;45°	-3,3	15,0	-3,0	-0,7	2,1	**-0,2**	15,7
1P2	high max Wnd ;225°	10,5	-7,8	-4,2	-1,3	0,0	**0,2**	13,7
1P2	low max Wnd ;135°	**21,3**	**21,3**	**-0,4**	-2,8	3,6	-0,1	**30,2**
N231	high max Wnd ;315°	-0,4	-0,4	**-5,2**	0,1	-0,1	0,0	**5,2**
N231	low max Wnd ;135°	**0,6**	**0,6**	**4,2**	0,0	0,0	0,0	4,3
N231	low max Wnd ;45°	0,6	-0,5	-0,5	**-0,2**	-0,3	**0,0**	0,9
N231	high max Wnd ;225°	-0,6	0,3	-2,2	**0,2**	0,2	0,0	2,3
N231	high max Wnd ;45°	0,5	**-0,5**	-0,9	-0,2	**-0,3**	0,0	1,2
N231	low max Wnd ;225°	**-0,7**	0,3	-1,7	0,2	**0,2**	**-0,1**	1,9
N232	low max Wnd ;45°	**-10,9**	11,1	-0,8	-1,0	0,8	0,0	15,6
N232	low max Wnd ;225°	9,2	**-12,8**	-2,3	-0,2	0,5	0,0	15,9
N232	high max Wnd	-9,6	-11,8	**-4,8**	0,4	-0,5	0,0	**16,0**

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;315°							
N232	low max Wnd ;135°	**9,5**	**11,6**	**2,2**	-2,4	2,6	0,0	15,2
N232	low max Wnd ;315°	-9,0	-11,2	-3,7	**0,8**	**-0,9**	**0,0**	14,8
N232	high max Wnd ;135°	8,1	10,2	0,4	**-2,7**	**2,8**	**0,0**	13,0
N233	low max Wnd ;45°	**-10,7**	**12,8**	**1,8**	-2,4	-2,6	0,1	**16,8**
N233	low max Wnd ;135°	**10,6**	11,6	-0,9	-1,0	-0,9	0,0	15,8
N233	low max Wnd ;315°	-9,3	**-12,6**	-2,4	-0,4	-0,5	0,0	15,9
N233	high max Wnd ;225°	9,8	-11,9	**-4,8**	0,3	0,4	0,0	16,1
N233	high max Wnd ;45°	-9,6	11,6	0,1	**-2,7**	**-2,9**	**0,1**	15,1
N233	low max Wnd ;225°	9,5	-11,6	-3,7	**0,7**	**0,9**	**0,0**	15,4
N234	low max Wnd ;45°	**-11,4**	**13,4**	**1,7**	-2,5	-2,7	0,1	**17,7**
N234	low max Wnd ;135°	**10,4**	11,8	-1,0	-0,9	-1,0	0,0	15,8
N234	low max Wnd ;315°	-9,4	**-12,5**	-2,4	-0,4	-0,4	0,0	15,9
N234	high max Wnd ;225°	9,9	-12,0	**-4,8**	0,4	0,5	-0,1	16,2
N234	high max Wnd ;45°	-10,3	12,3	-0,1	**-2,8**	**-3,0**	**0,1**	16,1
N234	low max Wnd ;225°	9,7	-11,8	-3,6	**0,8**	**0,9**	**-0,1**	15,7
1Y2	low max Wnd ;45°	**-21,2**	**21,3**	**-0,4**	-2,8	-3,6	0,1	**30,0**
1Y2	low max Wnd ;225°	**14,9**	**-15,2**	-3,1	**1,3**	**2,1**	-0,1	21,5
1Y2	high max Wnd ;225°	13,9	-14,2	**-4,6**	0,9	1,7	-0,1	20,4
1Y2	high max Wnd ;45°	-20,9	21,0	-2,4	**-3,1**	**-3,9**	0,2	29,8
1Y2	high max Wnd ;315°	-10,6	-7,8	-4,1	-1,3	0,0	**-0,2**	13,8
1Y2	high max Wnd ;135°	3,2	15,0	-3,0	-0,7	-2,1	**0,2**	15,6
N235	low max Wnd ;45°	**-0,6**	**0,5**	**4,2**	0,0	0,0	0,0	4,3
N235	high max Wnd ;225°	0,4	-0,4	**-5,1**	0,1	0,1	0,0	**5,2**
N235	high max Wnd ;315°	0,6	0,3	-2,1	**0,2**	-0,2	**0,1**	2,3
N235	low max Wnd ;315°	**0,6**	0,3	-1,7	0,2	**-0,2**	0,1	1,9
N235	high max Wnd ;135°	-0,5	-0,5	-0,9	-0,2	**0,3**	0,0	1,2
N235	low max Wnd ;135°	-0,6	**-0,5**	-0,5	**-0,2**	0,3	**0,0**	0,9
N236	low max Wnd ;45°	**-9,4**	**11,6**	**2,2**	-2,4	-2,6	0,0	15,1
N236	low max Wnd ;135°	**11,0**	11,1	-0,8	-1,0	-0,8	0,0	15,7
N236	low max Wnd ;315°	-9,1	**-12,8**	-2,3	-0,2	-0,5	0,0	**15,8**
N236	high max Wnd ;225°	9,5	-11,7	**-4,8**	0,4	0,5	0,0	15,8
N236	high max Wnd ;45°	-8,2	10,3	0,5	**-2,7**	**-2,8**	**0,1**	13,1
N236	low max Wnd	9,1	-11,2	-3,7	**0,8**	**0,9**	**0,0**	14,9

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;225°							
N237	low max Wnd ;225°	**10,6**	-11,6	-0,9	1,0	-0,9	0,0	15,7
N237	low max Wnd ;315°	**-10,7**	**-12,8**	**1,8**	2,4	-2,6	-0,1	**16,8**
N237	low max Wnd ;45°	-9,3	**12,7**	-2,4	0,4	-0,5	0,0	15,9
N237	high max Wnd ;135°	9,8	11,9	**-4,8**	-0,3	0,4	**0,1**	16,2
N237	low max Wnd ;135°	9,5	11,6	-3,7	**-0,7**	**0,9**	0,1	15,5
N237	high max Wnd ;315°	-9,6	-11,6	0,1	**2,7**	**-2,9**	**-0,1**	15,1
N238	low max Wnd ;225°	**10,3**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N238	low max Wnd ;315°	**-11,4**	**-13,4**	**1,6**	2,5	-2,7	-0,1	**17,7**
N238	low max Wnd ;45°	-9,4	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N238	high max Wnd ;135°	9,9	12,0	**-4,8**	-0,4	0,5	**0,1**	16,3
N238	low max Wnd ;135°	9,8	11,8	-3,6	**-0,8**	**0,9**	0,1	15,8
N238	high max Wnd ;315°	-10,3	-12,3	-0,1	**2,8**	**-3,0**	**-0,1**	16,1
1XY2	low max Wnd ;315°	**-21,2**	**-21,2**	**-0,4**	2,8	-3,6	-0,1	**30,0**
1XY2	high max Wnd ;135°	13,9	14,3	**-4,6**	-0,9	1,7	0,1	20,4
1XY2	low max Wnd ;135°	**14,9**	**15,3**	-3,1	**-1,3**	**2,1**	0,1	21,5
1XY2	high max Wnd ;315°	-20,9	-21,0	-2,4	**3,1**	**-3,9**	-0,1	29,7
1XY2	high max Wnd ;225°	3,2	-14,9	-3,0	0,7	-2,1	**-0,2**	15,5
1XY2	high max Wnd ;45°	-10,7	7,8	-4,1	1,3	0,0	**0,2**	13,9
N239	low max Wnd ;315°	**-0,6**	**-0,5**	**4,2**	0,0	0,0	0,0	4,3
N239	high max Wnd ;135°	0,4	0,4	**-5,1**	-0,1	0,1	0,0	**5,2**
N239	high max Wnd ;45°	0,6	-0,3	-2,1	**-0,2**	-0,2	0,0	2,3
N239	low max Wnd ;225°	-0,6	**0,5**	-0,5	**0,2**	0,3	0,0	0,9
N239	low max Wnd ;45°	**0,6**	-0,3	-1,7	-0,2	**-0,2**	**0,0**	1,9
N239	high max Wnd ;225°	-0,5	0,5	-0,9	0,2	**0,3**	**0,0**	1,2
N240	low max Wnd ;225°	**11,0**	-11,1	-0,8	1,0	-0,8	0,0	15,6
N240	low max Wnd ;315°	**-9,4**	**-11,6**	**2,2**	2,4	-2,5	0,0	15,1
N240	high max Wnd ;135°	9,5	11,7	**-4,8**	-0,4	0,5	**0,0**	15,9
N240	low max Wnd ;135°	9,1	11,3	-3,7	**-0,8**	**0,9**	0,0	14,9
N240	high max Wnd ;315°	-8,2	-10,2	0,5	**2,7**	**-2,8**	**0,0**	13,1
N240	low max Wnd ;45°	-9,1	**12,8**	-2,3	0,2	-0,5	0,0	**15,9**
N241	low max Wnd ;315°	**-10,5**	-11,5	-0,9	1,0	0,9	0,0	15,6
N241	low max Wnd ;225°	**10,8**	**-12,8**	**1,8**	2,4	2,6	0,1	**16,9**
N241	low max Wnd	9,4	**12,7**	-2,4	0,4	0,5	0,0	16,0

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;135°							
N241	high max Wnd ;45°	-9,9	12,0	**-4,8**	-0,3	-0,4	0,0	16,3
N241	low max Wnd ;45°	-9,5	11,6	-3,7	**-0,7**	**-0,9**	**0,0**	15,4
N241	high max Wnd ;225°	9,5	-11,5	0,0	**2,7**	**2,9**	**0,1**	14,9
N242	low max Wnd ;315°	**-10,3**	-11,8	-1,0	1,0	1,0	0,0	15,7
N242	low max Wnd ;225°	**11,5**	**-13,4**	**1,7**	2,5	2,7	0,1	**17,8**
N242	low max Wnd ;135°	9,5	**12,6**	-2,4	0,4	0,4	0,0	16,0
N242	high max Wnd ;45°	-10,1	12,1	**-4,8**	-0,4	-0,5	-0,1	16,4
N242	low max Wnd ;45°	-9,7	11,8	-3,6	**-0,8**	**-0,9**	**-0,1**	15,7
N242	high max Wnd ;225°	10,2	-12,2	-0,1	**2,8**	**3,0**	**0,1**	15,9
1X2	low max Wnd ;225°	**21,3**	**-21,3**	**-0,4**	2,8	3,6	0,1	**30,1**
1X2	high max Wnd ;45°	-14,0	14,4	**-4,6**	-1,0	-1,7	-0,1	20,6
1X2	low max Wnd ;45°	**-14,8**	**15,2**	-3,1	**-1,3**	**-2,1**	-0,1	21,4
1X2	high max Wnd ;225°	20,8	-20,9	-2,4	**3,1**	**3,9**	0,2	29,6
1X2	high max Wnd ;135°	10,5	7,8	-4,2	1,3	0,0	**-0,2**	13,7
1X2	high max Wnd ;315°	-3,3	-15,0	-3,0	0,7	2,1	**0,2**	15,6
N243	low max Wnd ;135°	**-0,6**	-0,4	-1,7	-0,2	**0,2**	**0,1**	1,9
N243	low max Wnd ;225°	**0,6**	**-0,6**	**4,2**	0,0	0,0	0,0	4,3
N243	high max Wnd ;45°	-0,4	0,4	**-5,2**	-0,1	-0,1	0,0	**5,2**
N243	high max Wnd ;135°	-0,6	-0,3	-2,2	**-0,2**	0,2	0,1	2,3
N243	low max Wnd ;315°	0,6	0,5	-0,5	**0,2**	-0,3	0,0	0,9
N243	high max Wnd ;315°	0,5	**0,5**	-0,9	0,2	**-0,3**	**0,0**	1,2
N244	low max Wnd ;315°	**-10,9**	-11,0	-0,8	1,0	0,8	0,0	15,6
N244	low max Wnd ;225°	**9,5**	**-11,6**	**2,2**	2,4	2,6	0,0	15,2
N244	low max Wnd ;135°	9,2	**12,8**	-2,3	0,2	0,5	0,0	15,9
N244	high max Wnd ;45°	-9,7	11,8	**-4,8**	-0,4	-0,5	0,0	**16,0**
N244	low max Wnd ;45°	-9,0	11,2	-3,7	**-0,8**	**-0,9**	**0,0**	14,9
N244	high max Wnd ;225°	8,0	-10,2	0,4	**2,7**	**2,8**	**0,1**	13,0
N245	low max Wnd ;315°	**-10,3**	-11,7	-1,0	1,0	1,0	0,0	15,7
N245	low max Wnd ;225°	**11,4**	**-13,4**	**1,4**	2,5	2,7	0,1	**17,6**
N245	low max Wnd ;135°	9,5	**12,6**	-2,4	0,4	0,4	0,0	16,0
N245	high max Wnd ;45°	-10,0	12,0	**-4,6**	-0,4	-0,6	-0,1	16,3
N245	low max Wnd ;45°	-9,6	11,7	-3,4	**-0,8**	**-0,9**	**-0,1**	15,6
N245	high max Wnd	10,1	-12,2	-0,4	**2,8**	**3,0**	**0,1**	15,8

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;225°							
N246	low max Wnd ;315°	**-10,2**	-11,8	-1,0	1,0	0,9	0,0	15,7
N246	low max Wnd ;225°	**11,5**	**-13,5**	**1,9**	2,5	2,7	0,1	**17,9**
N246	low max Wnd ;135°	9,5	**12,6**	-2,3	0,4	0,4	0,0	16,0
N246	high max Wnd ;45°	-10,1	12,1	**-4,9**	-0,4	-0,5	-0,1	16,6
N246	low max Wnd ;45°	-9,8	11,9	-3,8	**-0,8**	**-0,9**	**-0,1**	15,8
N246	high max Wnd ;225°	10,3	-12,3	0,0	**2,8**	**3,0**	**0,1**	16,0
N247	high max Wnd ;45°	0,0	0,0	**-1,4**	0,0	0,0	-0,1	**1,4**
N247	low max Wnd ;225°	**0,0**	**0,0**	**0,9**	**0,0**	**0,0**	0,1	0,9
N247	high max Wnd ;225°	0,0	0,0	0,0	0,0	**0,0**	**0,1**	0,0
N247	low max Wnd ;45°	0,0	0,0	-1,1	0,0	0,0	**-0,1**	1,1
N248	high max Wnd ;45°	0,0	0,0	**-1,4**	0,0	0,0	-0,1	**1,4**
N248	low max Wnd ;225°	**0,0**	**0,0**	**0,7**	**0,0**	**0,0**	0,1	0,7
N248	high max Wnd ;225°	0,0	0,0	-0,1	0,0	**0,0**	**0,1**	0,1
N248	low max Wnd ;45°	0,0	0,0	-1,0	0,0	0,0	**-0,1**	1,0
N249	low max Wnd ;225°	**10,4**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N249	low max Wnd ;315°	**-11,3**	**-13,3**	**1,4**	2,5	-2,7	-0,1	**17,6**
N249	low max Wnd ;45°	-9,5	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N249	high max Wnd ;135°	9,9	12,0	**-4,6**	-0,4	0,5	**0,1**	16,2
N249	low max Wnd ;135°	9,7	11,8	-3,4	**-0,8**	**0,9**	0,1	15,6
N249	high max Wnd ;315°	-10,3	-12,2	-0,4	**2,8**	**-3,0**	**-0,1**	16,0
N250	low max Wnd ;225°	**10,3**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N250	low max Wnd ;315°	**-11,5**	**-13,5**	**1,8**	2,5	-2,7	-0,1	**17,8**
N250	low max Wnd ;45°	-9,4	**12,6**	-2,3	0,4	-0,4	0,0	15,9
N250	high max Wnd ;135°	10,0	12,1	**-4,9**	-0,4	0,5	**0,1**	16,4
N250	low max Wnd ;135°	9,8	11,9	-3,8	**-0,8**	**0,9**	0,1	15,9
N250	high max Wnd ;315°	-10,4	-12,4	0,1	**2,8**	**-3,0**	**-0,1**	16,2
N251	high max Wnd ;135°	0,0	0,0	**-1,4**	0,0	0,0	**0,1**	**1,4**
N251	low max Wnd ;315°	**0,0**	**0,0**	**0,9**	**0,0**	**0,0**	-0,1	0,9
N251	high max Wnd ;315°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N252	high max Wnd ;135°	0,0	0,0	**-1,4**	0,0	0,0	**0,1**	**1,4**
N252	low max Wnd ;315°	**0,0**	**0,0**	**0,7**	**0,0**	**0,0**	-0,1	0,7
N252	high max Wnd ;315°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N253	low max Wnd	**-10,3**	11,8	-1,0	-1,0	0,9	0,0	15,7

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;45°							
N253	low max Wnd ;225°	9,5	**-12,6**	-2,4	-0,4	0,4	0,0	15,9
N253	high max Wnd ;315°	-10,0	-12,0	**-4,6**	0,4	-0,6	0,1	16,2
N253	low max Wnd ;315°	-9,6	-11,7	-3,4	**0,8**	**-1,0**	**0,1**	15,5
N253	high max Wnd ;135°	10,2	12,2	-0,4	**-2,8**	**3,0**	**-0,1**	15,9
N253	low max Wnd ;135°	**11,5**	**13,4**	**1,4**	-2,5	2,7	-0,1	**17,7**
N254	low max Wnd ;45°	**-10,2**	11,8	-1,0	-1,0	0,9	0,0	15,7
N254	low max Wnd ;225°	9,5	**-12,6**	-2,3	-0,4	0,4	0,0	15,9
N254	high max Wnd ;315°	-10,1	-12,1	**-4,9**	0,4	-0,5	0,1	16,5
N254	low max Wnd ;315°	-9,8	-11,8	-3,8	**0,8**	**-0,9**	**0,1**	15,8
N254	high max Wnd ;135°	10,3	12,3	0,1	**-2,8**	**3,0**	**-0,1**	16,1
N254	low max Wnd ;135°	**11,6**	**13,5**	**1,9**	-2,5	2,7	-0,1	**17,9**
N255	high max Wnd ;315°	0,0	0,0	**-1,4**	0,0	0,0	0,1	**1,4**
N255	low max Wnd ;135°	**0,0**	**0,0**	**0,9**	**0,0**	**0,0**	-0,1	0,9
N255	low max Wnd ;315°	0,0	0,0	-1,1	**0,0**	0,0	**0,1**	1,1
N255	high max Wnd ;135°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N256	high max Wnd ;315°	0,0	0,0	**-1,4**	0,0	0,0	0,1	**1,4**
N256	low max Wnd ;135°	**0,0**	**0,0**	**0,8**	**0,0**	**0,0**	-0,1	0,8
N256	low max Wnd ;315°	0,0	0,0	-1,0	**0,0**	0,0	**0,1**	1,0
N256	high max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N257	low max Wnd ;45°	**-11,3**	**13,4**	**1,4**	-2,5	-2,7	0,1	**17,6**
N257	low max Wnd ;135°	**10,4**	11,8	-1,0	-0,9	-0,9	0,0	15,8
N257	low max Wnd ;315°	-9,4	**-12,5**	-2,4	-0,4	-0,4	0,0	15,9
N257	high max Wnd ;225°	9,8	-11,9	**-4,6**	0,4	0,5	-0,1	16,1
N257	high max Wnd ;45°	-10,3	12,3	-0,4	**-2,8**	**-3,0**	**0,1**	16,0
N257	low max Wnd ;225°	9,7	-11,7	-3,4	**0,8**	**1,0**	**-0,1**	15,6
N258	low max Wnd ;45°	**-11,5**	**13,5**	**1,9**	-2,5	-2,7	0,1	**17,8**
N258	low max Wnd ;135°	**10,3**	11,9	-1,0	-1,0	-0,9	0,0	15,8
N258	low max Wnd ;315°	-9,4	**-12,6**	-2,3	-0,4	-0,4	0,0	15,9
N258	high max Wnd ;225°	10,0	-12,0	**-4,9**	0,4	0,5	-0,1	16,4
N258	high max Wnd ;45°	-10,4	12,4	0,1	**-2,8**	**-3,0**	**0,1**	16,2
N258	low max Wnd ;225°	9,8	-11,9	-3,8	**0,8**	**0,9**	**-0,1**	15,8
N259	high max Wnd ;225°	0,0	0,0	**-1,4**	0,0	0,0	-0,1	**1,4**
N259	low max Wnd	**0,0**	**0,0**	**0,9**	**0,0**	**0,0**	0,1	0,9

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;45°							
N259	low max Wnd ;225°	0,0	0,0	-1,1	0,0	0,0	**-0,1**	1,1
N259	high max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	**0,1**	0,0
N260	high max Wnd ;225°	0,0	0,0	**-1,4**	0,0	0,0	-0,1	**1,4**
N260	low max Wnd ;45°	**0,0**	**0,0**	**0,7**	**0,0**	**0,0**	0,1	0,7
N260	low max Wnd ;225°	0,0	0,0	-1,0	0,0	0,0	**-0,1**	1,0
N260	high max Wnd ;45°	0,0	0,0	-0,1	0,0	0,0	**0,1**	0,1
N261	low max Wnd ;225°	**10,3**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N261	low max Wnd ;315°	**-11,4**	**-13,4**	**1,7**	2,5	-2,7	-0,1	**17,7**
N261	low max Wnd ;45°	-9,4	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N261	high max Wnd ;135°	10,0	12,1	**-4,8**	-0,4	0,5	**0,1**	16,4
N261	low max Wnd ;135°	9,8	11,9	-3,7	**-0,8**	**0,9**	0,1	15,8
N261	high max Wnd ;315°	-10,4	-12,3	0,0	**2,8**	**-3,0**	**-0,1**	16,1
N262	low max Wnd ;225°	**10,4**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N262	low max Wnd ;315°	**-11,4**	**-13,4**	**1,5**	2,5	-2,7	-0,1	**17,6**
N262	low max Wnd ;45°	-9,5	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N262	high max Wnd ;135°	9,9	12,0	**-4,7**	-0,4	0,5	**0,1**	16,2
N262	low max Wnd ;135°	9,7	11,8	-3,5	**-0,8**	**0,9**	0,1	15,7
N262	high max Wnd ;315°	-10,3	-12,3	-0,2	**2,8**	**-3,0**	**-0,1**	16,0
N263	low max Wnd ;225°	**10,4**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N263	low max Wnd ;315°	**-11,4**	**-13,4**	**1,5**	2,5	-2,7	-0,1	**17,6**
N263	low max Wnd ;45°	-9,5	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N263	high max Wnd ;135°	9,9	12,0	**-4,7**	-0,4	0,5	**0,1**	16,2
N263	low max Wnd ;135°	9,7	11,8	-3,5	**-0,8**	**0,9**	0,1	15,7
N263	high max Wnd ;315°	-10,3	-12,3	-0,2	**2,8**	**-3,0**	**-0,1**	16,0
N264	low max Wnd ;225°	**10,3**	-11,8	-1,0	0,9	-0,9	0,0	15,7
N264	low max Wnd ;315°	**-11,4**	**-13,4**	**1,7**	2,5	-2,7	-0,1	**17,7**
N264	low max Wnd ;45°	-9,4	**12,6**	-2,4	0,4	-0,4	0,0	15,9
N264	high max Wnd ;135°	10,0	12,1	**-4,8**	-0,4	0,5	**0,1**	16,4
N264	low max Wnd ;135°	9,8	11,9	-3,7	**-0,8**	**0,9**	0,1	15,8
N264	high max Wnd ;315°	-10,4	-12,3	0,0	**2,8**	**-3,0**	**-0,1**	16,1
N265	low max Wnd ;45°	**-10,3**	11,8	-1,0	-1,0	0,9	0,0	15,7
N265	low max Wnd ;225°	9,5	**-12,6**	-2,4	-0,4	0,4	0,0	15,9
N265	high max Wnd	-10,1	-12,1	**-4,9**	0,4	-0,5	0,1	16,5

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;315°							
N265	low max Wnd ;315°	-9,7	-11,8	-3,7	**0,8**	**-0,9**	**0,1**	15,7
N265	high max Wnd ;135°	10,3	12,3	0,0	**-2,8**	**3,0**	**-0,1**	16,0
N265	low max Wnd ;135°	**11,6**	**13,5**	**1,8**	-2,5	2,7	-0,1	**17,9**
N266	low max Wnd ;45°	**-10,3**	11,8	-1,0	-1,0	0,9	0,0	15,7
N266	low max Wnd ;225°	9,5	**-12,6**	-2,4	-0,4	0,4	0,0	15,9
N266	high max Wnd ;315°	-10,0	-12,0	**-4,7**	0,4	-0,6	0,1	16,3
N266	low max Wnd ;315°	-9,7	-11,7	-3,5	**0,8**	**-1,0**	**0,1**	15,6
N266	high max Wnd ;135°	10,2	12,2	-0,3	**-2,8**	**3,0**	**-0,1**	15,9
N266	low max Wnd ;135°	**11,5**	**13,4**	**1,5**	-2,5	2,7	-0,1	**17,7**
N267	low max Wnd ;315°	**-10,3**	-11,8	-1,0	1,0	1,0	0,0	15,7
N267	low max Wnd ;225°	**11,5**	**-13,5**	**1,8**	2,5	2,7	0,1	**17,8**
N267	low max Wnd ;135°	9,5	**12,6**	-2,4	0,4	0,4	0,0	16,0
N267	high max Wnd ;45°	-10,1	12,1	**-4,9**	-0,4	-0,5	-0,1	16,5
N267	low max Wnd ;45°	-9,7	11,8	-3,7	**-0,8**	**-0,9**	**-0,1**	15,8
N267	high max Wnd ;225°	10,3	-12,3	0,0	**2,8**	**3,0**	**0,1**	16,0
N268	low max Wnd ;315°	**-10,3**	-11,8	-1,0	1,0	1,0	0,0	15,7
N268	low max Wnd ;225°	**11,4**	**-13,4**	**1,5**	2,5	2,7	0,1	**17,7**
N268	low max Wnd ;135°	9,5	**12,6**	-2,4	0,4	0,4	0,0	16,0
N268	high max Wnd ;45°	-10,0	12,1	**-4,7**	-0,4	-0,6	-0,1	16,4
N268	low max Wnd ;45°	-9,7	11,8	-3,5	**-0,8**	**-0,9**	**-0,1**	15,6
N268	high max Wnd ;225°	10,2	-12,2	-0,3	**2,8**	**3,0**	**0,1**	15,9
N269	low max Wnd ;45°	**-11,4**	**13,5**	**1,7**	-2,5	-2,7	0,1	**17,8**
N269	low max Wnd ;135°	**10,4**	11,9	-1,0	-1,0	-0,9	0,0	15,8
N269	low max Wnd ;315°	-9,4	**-12,5**	-2,4	-0,4	-0,4	0,0	15,9
N269	high max Wnd ;225°	9,9	-12,0	**-4,8**	0,4	0,5	-0,1	16,3
N269	high max Wnd ;45°	-10,4	12,4	0,0	**-2,8**	**-3,0**	**0,1**	16,2
N269	low max Wnd ;225°	9,8	-11,8	-3,7	**0,8**	**0,9**	**-0,1**	15,8
N270	low max Wnd ;45°	**-11,4**	**13,4**	**1,5**	-2,5	-2,7	0,1	**17,6**
N270	low max Wnd ;135°	**10,4**	11,8	-1,0	-0,9	-0,9	0,0	15,8
N270	low max Wnd ;315°	-9,4	**-12,5**	-2,4	-0,4	-0,4	0,0	15,9
N270	high max Wnd ;225°	9,9	-11,9	**-4,7**	0,4	0,5	-0,1	16,2
N270	high max Wnd ;45°	-10,3	12,3	-0,2	**-2,8**	**-3,0**	**0,1**	16,1
N270	low max Wnd	9,7	-11,8	-3,5	**0,8**	**1,0**	**-0,1**	15,7

Name	Case	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
	;225°							

1. Inhoudsopgave

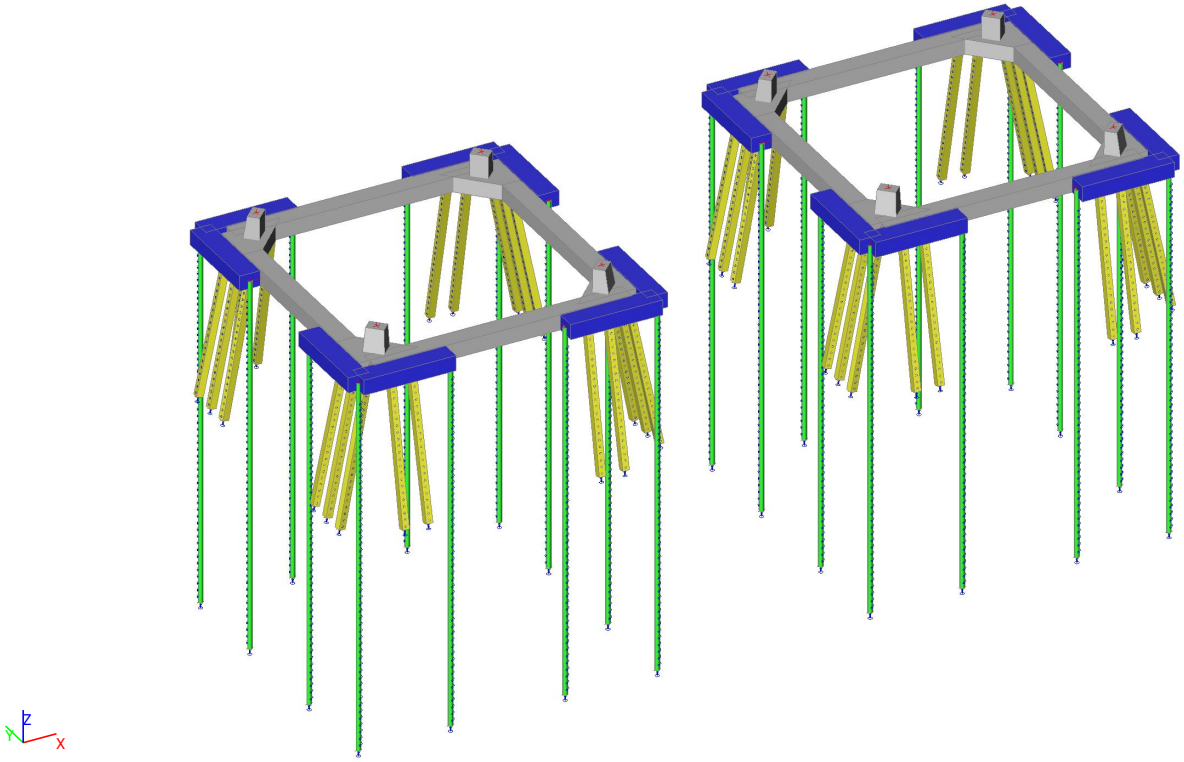
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2. Project

Gebruiker van licentie	[redacted]
Project	De Ronde Venen 380kV
Onderdeel	Balkrooster 5xB_S+9 mast 146
Auteur	[redacted]
Datum	11-05-2026
Constructie	Algemeen XYZ
Aantal knopen :	172
Aantal staven :	96
Aantal platen :	0
Aantal vaste lichamen :	0
Aantal gebruikte doorsneden :	5
Aantal belastingsgevallen :	9
Aantal gebruikte materialen :	6
Gravitatieversnelling [m/s^2]	9,810
Nationale norm	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materialen

Staal EC3

Naam	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Kleur
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,0	2,1000e+05	0,30	0	40	235,0	360,0	
		8,0769e+04	0,00	40	80	215,0	360,0	

Naam	Type	ρ [kg/m³]	Dichtheid in natte toestand [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Kleur
C20/25 Ongescheurd	Beton	1500,0	2600,0	2,4000e+04	0,20	0,00	20,00	
C20/25 Gescheurd	Beton	2500,0	2600,0	8,0000e+03	0,20	0,00	20,00	
C30/37	Beton	1500,0	2600,0	1,0900e+04	0,20	0,00	30,00	
C30/37 Gescheurd	Beton	2500,0	2600,0	1,1000e+04	0,20	0,00	30,00	

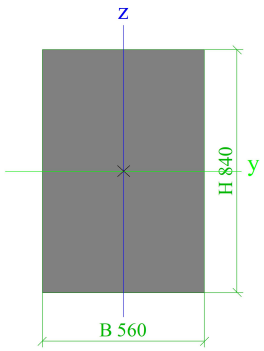
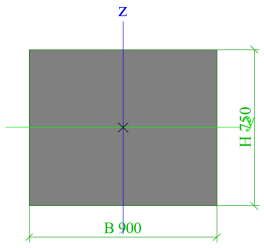
Verklaring van symbolen	
Dichtheid in natte toestand	De waarde van de dichtheid van het kenmerk nieuwe toestand wordt alleen gebruikt als een samengesteld dek wordt ingevoerd en rekening wordt gehouden met de belasting van het eigen gewicht.

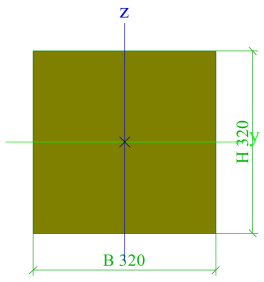
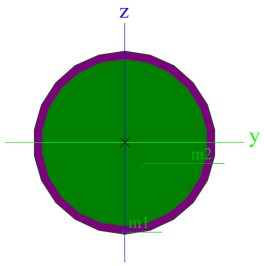
Wapening EC2

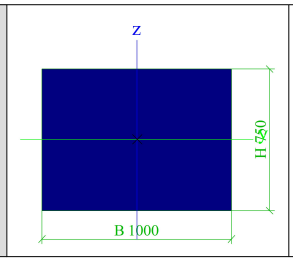
Naam	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 500B	Betonstaal	7850,0	2,0000e+05	8,3333e+04	0,00	500,0

4.2. Doorsneden

Poer.Opstort		
Type	Rectangle	
Gedetailleerd	840; 560	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	4,7040e-01	
A_y [m²], A_z [m²]	3,9200e-01	3,9200e-01
A_L [m²/m], A_D [m²/m]	2,8000e+00	2,8000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	280	420
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	2,7660e-02	1,2293e-02
i_y [mm], i_z [mm]	242	162
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	6,5856e-02	4,3904e-02
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	2,8888e-02	0,0000e+00
β_y [mm], β_z [mm]	0	0

Afbeelding		
Balk		
Type	Rectangle	
Gedetailleerd	750; 900	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	6,7500e-01	
A_y [m²], A_z [m²]	5,6250e-01	5,6250e-01
A_L [m²/m], A_D [m²/m]	3,3000e+00	3,3000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	450	375
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	3,1641e-02	4,5563e-02
i_y [mm], i_z [mm]	217	260
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	8,4375e-02	1,0125e-01
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	6,3112e-02	0,0000e+00
β_y [mm], β_z [mm]	0	0
Afbeelding		
Funderingspaal		
Type	Rectangle	
Gedetailleerd	320; 320	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Ongescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	1,0240e-01	
A_y [m²], A_z [m²]	8,5333e-02	8,5333e-02
A_L [m²/m], A_D [m²/m]	1,2800e+00	1,2800e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	160	160
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	8,7381e-04	8,7381e-04
i_y [mm], i_z [mm]	92	92
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	5,4613e-03	5,4613e-03
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	1,4757e-03	0,0000e+00
β_y [mm], β_z [mm]	0	0

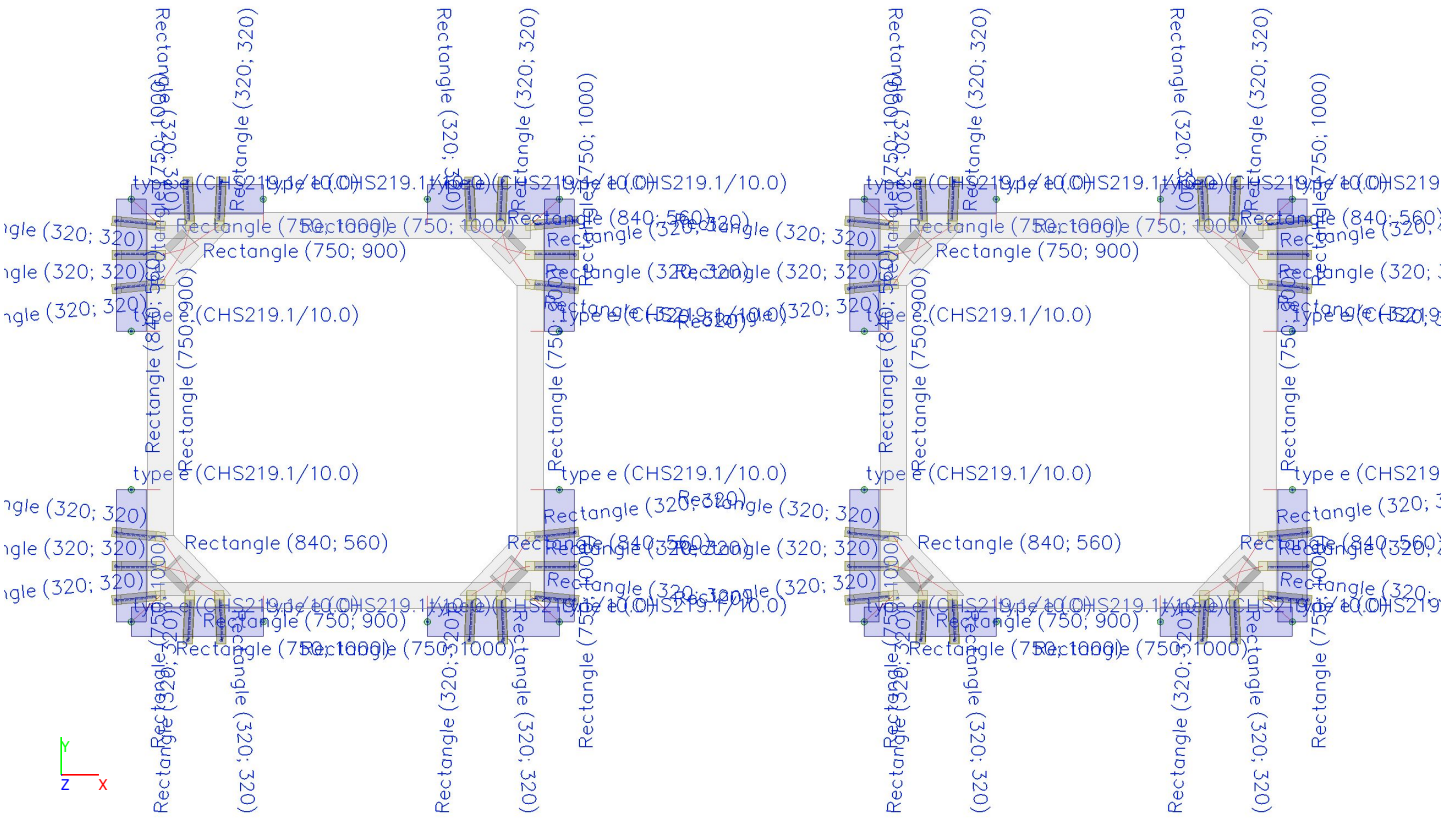
Afbeelding		
LEKA Paal		
Type	type e	
Gedetailleerd	CHS219.1/10.0	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	
	C30/37	
Bouwwijze	beton	
Knik y-y, Knik z-z	a	a
A [m^2]	8,1834e-03	
A_y [m^2], A_z [m^2]	5,1515e-03	5,1515e-03
A_L [m^2/m], A_D [m^2/m]	6,8829e-01	6,8829e-01
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	110	110
α [deg]	0,00	
I_y [m^4], I_z [m^4]	3,9972e-05	3,9972e-05
i_y [mm], i_z [mm]	70	70
$W_{el.y}$ [m^3], $W_{el.z}$ [m^3]	3,6487e-04	3,6487e-04
$W_{pl.y}$ [m^3], $W_{pl.z}$ [m^3]	4,9123e-04	4,9123e-04
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	1,15e+05	1,15e+05
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	1,15e+05	1,15e+05
d_y [mm], d_z [mm]	0	0
I_t [m^4], I_w [m^6]	8,0625e-05	0,0000e+00
β_y [mm], β_z [mm]	0	0
Afbeelding		
Ringbalk		
Type	Rectangle	
Gedetailleerd	750; 1000	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C30/37 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m^2]	7,5000e-01	
A_y [m^2], A_z [m^2]	6,2517e-01	6,2531e-01
A_L [m^2/m], A_D [m^2/m]	3,5000e+00	3,5000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	500	375
α [deg]	0,00	
I_y [m^4], I_z [m^4]	3,5156e-02	6,2500e-02
i_y [mm], i_z [mm]	217	289
$W_{el.y}$ [m^3], $W_{el.z}$ [m^3]	9,3750e-02	1,2500e-01
$W_{pl.y}$ [m^3], $W_{pl.z}$ [m^3]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m^4], I_w [m^6]	7,6159e-02	2,7801e-04
β_y [mm], β_z [mm]	0	0

Afbeelding	

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Instellingen net

Naam	NetInstelling1
Generatie van variabele excentriciteiten op elementen in plaats van constante excentriciteiten	×
Generatie van knopen op staven	×
Elastisch net	✓
Pas automatische netverfijning toe	×
Constructie-entiteiten verbinden	✓
Verdeling op consoles en variabele staven	5
Verdeling voor integratiestrook en 2D-1D upgrade	50
Gemiddeld aantal 1D-netelementen op rechte 1D-elementen	5
Gemiddelde grootte van 2D-netelement [m]	0,250
Gemiddelde grootte van 1D-element op gebogen 1D-elementen [m]	0,100
Minimum lengte van staafelement [m]	0,100
Maximum lengte van staafelement [m]	1000,000
Gemiddelde grootte van voorspankabels, elementen op elastische bedding, niet-lineaire grondveer [m]	1,000
Maximale hoek uit het vlak van vierhoekig element [mrad]	30,0
Minimale afstand tussen definitiepunt en -lijn [m]	0,001
Gemiddelde afmeting van paneelelement [m]	1,000
Netverfijning volgens het liggertype	Geen
Definitie van netelementen afmetingen voor panelen	Handmatig
Groep belastingsgevallen voor automatische netverfijning	high max Wnd ;225°

5. Geometrie

5.1. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N5	13,000	1,400	0,000
N6	13,000	2,400	0,000
N7	12,000	0,400	0,000
N1	11,000	0,400	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N17	0,400	0,400	0,000
N21	0,400	13,000	0,000
1Y	12,200	1,200	1,475
N22	12,200	1,200	0,000

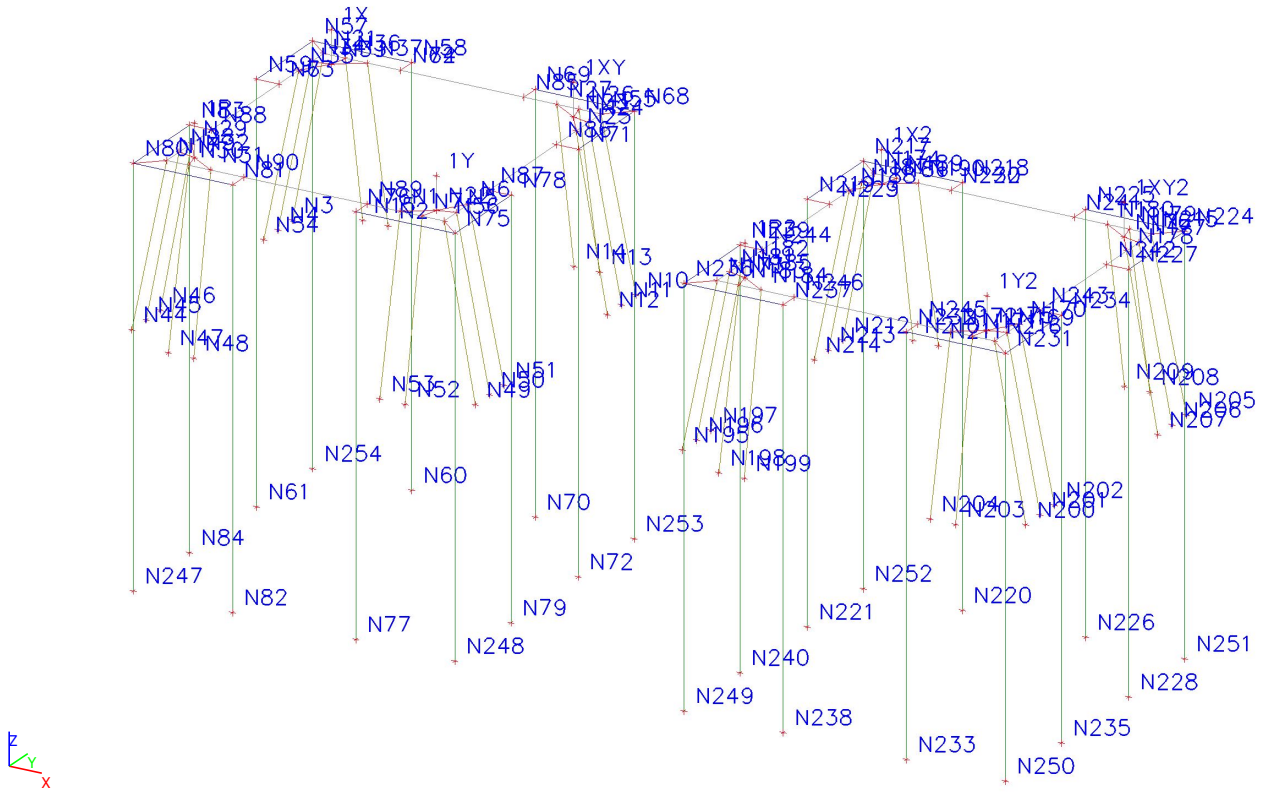
Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N23	12,200	12,200	0,000
1XY	12,200	12,200	1,475
N24	13,000	12,000	0,000
N25	13,000	11,000	0,000
N26	12,000	13,000	0,000
N27	11,000	13,000	0,000
N28	0,400	1,400	0,000
N29	0,400	2,400	0,000
N30	1,400	0,400	0,000
N31	2,400	0,400	0,000
1P	1,200	1,200	1,475
N32	1,200	1,200	0,000
N33	1,200	12,200	0,000
1X	1,200	12,187	1,475
N34	0,400	12,000	0,000
N35	0,400	11,000	0,000
N36	1,400	13,000	0,000
N37	2,400	13,000	0,000
N38	12,200	1,200	0,000
N39	1,200	1,200	0,000
N40	12,200	12,200	0,000
N41	1,200	12,200	0,000
N44	-1,100	0,250	-7,500
N45	-1,100	1,400	-7,498
N46	-1,100	2,550	-7,500
N47	1,325	-1,100	-7,498
N48	2,475	-1,100	-7,498
N49	14,500	0,250	-7,500
N50	14,500	1,400	-7,498
N51	14,500	2,550	-7,500
N52	12,075	-1,100	-7,498
N53	10,925	-1,100	-7,498
N10	14,500	13,150	-7,500
N11	14,500	12,000	-7,498
N12	14,500	10,850	-7,500
N13	12,075	14,500	-7,498
N14	10,925	14,500	-7,498
N15	1,325	14,500	-7,498
N2	2,475	14,500	-7,498
N3	-1,100	13,150	-7,500
N4	-1,100	12,000	-7,498
N54	-1,100	10,850	-7,500
N55	13,000	13,000	0,000
N56	13,000	0,400	0,000
N57	-0,600	13,900	0,000
N58	3,900	13,900	0,000
N59	-0,600	9,400	0,000
N60	3,900	13,900	-18,300
N61	-0,600	9,400	-18,300
N62	3,900	13,000	0,000
N63	0,400	9,400	0,000
N68	14,000	13,900	0,000
N69	9,500	13,900	0,000
N70	9,500	13,900	-18,300
N71	14,000	9,400	0,000
N72	14,000	9,400	-18,300
N73	0,400	9,400	0,000
N74	3,900	13,000	0,000
N75	14,000	-0,500	0,000
N76	9,500	-0,500	0,000
N77	9,500	-0,500	-18,300
N78	14,000	4,000	0,000
N79	14,000	4,000	-18,300
N80	-0,600	-0,500	0,000
N81	3,900	-0,500	0,000
N82	3,900	-0,500	-18,300

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N83	-0,600	4,000	0,000
N84	-0,600	4,000	-18,300
N85	9,500	13,000	0,000
N86	13,000	9,400	0,000
N87	13,000	4,000	0,000
N88	0,400	4,000	0,000
N89	9,500	0,400	0,000
N90	3,900	0,400	0,000
N169	38,000	1,400	0,000
N170	38,000	2,400	0,000
N171	37,000	0,400	0,000
N172	36,000	0,400	0,000
N173	25,400	0,400	0,000
N174	25,400	13,000	0,000
1Y2	37,200	1,200	1,475
N175	37,200	1,200	0,000
N176	37,200	12,200	0,000
1XY2	37,200	12,200	1,475
N177	38,000	12,000	0,000
N178	38,000	11,000	0,000
N179	37,000	13,000	0,000
N180	36,000	13,000	0,000
N181	25,400	1,400	0,000
N182	25,400	2,400	0,000
N183	26,400	0,400	0,000
N184	27,400	0,400	0,000
1P2	26,200	1,200	1,475
N185	26,200	1,200	0,000
N186	26,200	12,200	0,000
1X2	26,200	12,187	1,475
N187	25,400	12,000	0,000
N188	25,400	11,000	0,000
N189	26,400	13,000	0,000
N190	27,400	13,000	0,000
N191	37,200	1,200	0,000
N192	26,200	1,200	0,000
N193	37,200	12,200	0,000
N194	26,200	12,200	0,000
N195	23,900	0,250	-7,500
N196	23,900	1,400	-7,498
N197	23,900	2,550	-7,500
N198	26,325	-1,100	-7,498
N199	27,475	-1,100	-7,498
N200	39,500	0,250	-7,500
N201	39,500	1,400	-7,498
N202	39,500	2,550	-7,500
N203	37,075	-1,100	-7,498
N204	35,925	-1,100	-7,498
N205	39,500	13,150	-7,500
N206	39,500	12,000	-7,498
N207	39,500	10,850	-7,500
N208	37,075	14,500	-7,498
N209	35,925	14,500	-7,498
N210	26,325	14,500	-7,498
N211	27,475	14,500	-7,498
N212	23,900	13,150	-7,500
N213	23,900	12,000	-7,498
N214	23,900	10,850	-7,500
N215	38,000	13,000	0,000
N216	38,000	0,400	0,000
N217	24,400	13,900	0,000
N218	28,900	13,900	0,000
N219	24,400	9,400	0,000
N220	28,900	13,900	-18,300
N221	24,400	9,400	-18,300
N222	28,900	13,000	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N223	25,400	9,400	0,000
N224	39,000	13,900	0,000
N225	34,500	13,900	0,000
N226	34,500	13,900	-18,300
N227	39,000	9,400	0,000
N228	39,000	9,400	-18,300
N229	25,400	9,400	0,000
N230	28,900	13,000	0,000
N231	39,000	-0,500	0,000
N232	34,500	-0,500	0,000
N233	34,500	-0,500	-18,300
N234	39,000	4,000	0,000
N235	39,000	4,000	-18,300
N236	24,400	-0,500	0,000
N237	28,900	-0,500	0,000
N238	28,900	-0,500	-18,300

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N239	24,400	4,000	0,000
N240	24,400	4,000	-18,300
N241	34,500	13,000	0,000
N242	38,000	9,400	0,000
N243	38,000	4,000	0,000
N244	25,400	4,000	0,000
N245	34,500	0,400	0,000
N246	28,900	0,400	0,000
N247	-0,600	-0,500	-18,300
N248	14,000	-0,500	-18,300
N249	24,400	-0,500	-18,300
N250	39,000	-0,500	-18,300
N251	39,000	13,900	-18,300
N252	24,400	13,900	-18,300
N253	14,000	13,900	-18,300
N254	-0,600	13,900	-18,300

5.2. Analyse model met knopen



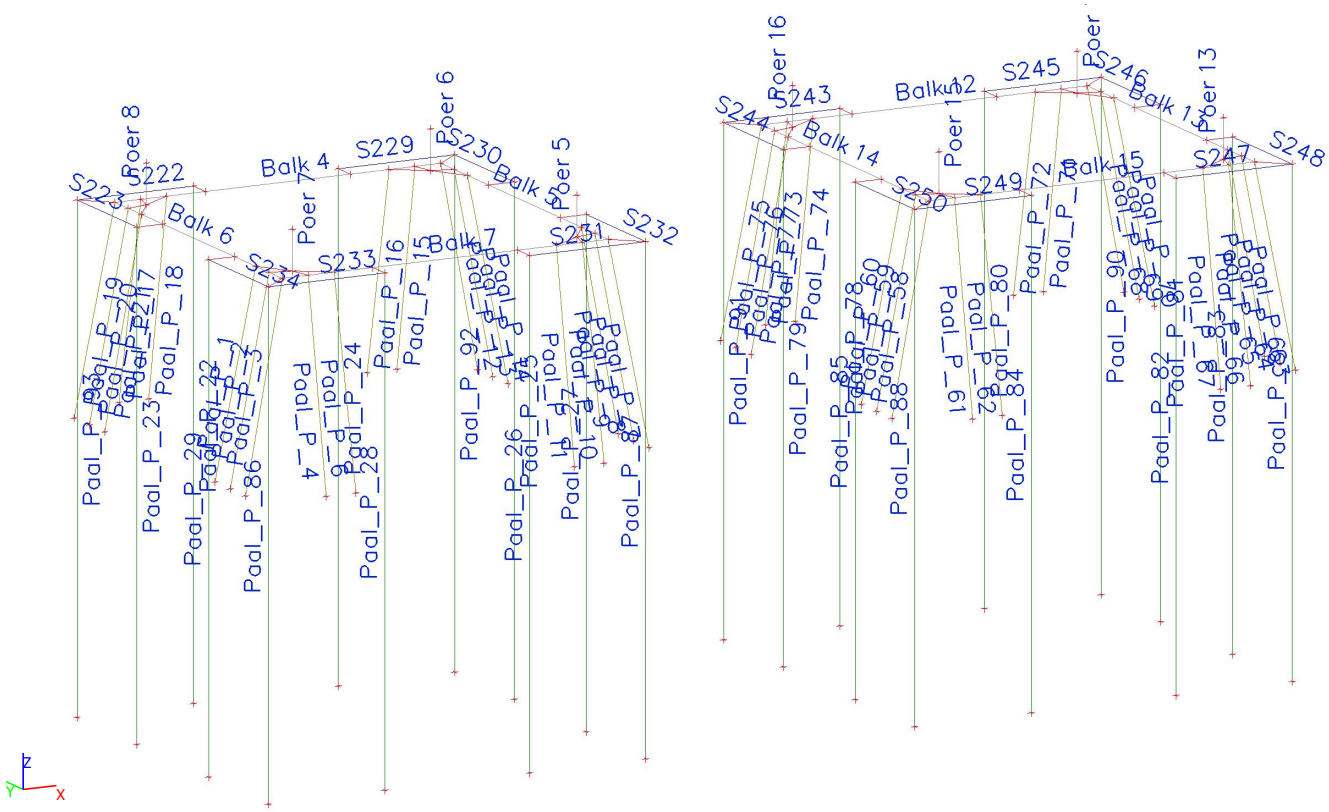
5.3. Staven

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Balk 4	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N55	N21	Balk (80)
Balk 5	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N56	N55	Balk (80)
Balk 6	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N17	N21	Balk (80)
Balk 7	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N56	N17	Balk (80)
Balk 12	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N215	N174	Balk (80)
Balk 13	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N216	N215	Balk (80)
Balk 14	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N173	N174	Balk (80)
Balk 15	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N216	N173	Balk (80)
S222	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N57	N58	Balk (80)
S223	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N59	N57	Balk (80)

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
S229	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N68	N69	Balk (80)
S230	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N71	N68	Balk (80)
S231	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N75	N76	Balk (80)
S232	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N78	N75	Balk (80)
S233	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N80	N81	Balk (80)
S234	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N83	N80	Balk (80)
S243	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N217	N218	Balk (80)
S244	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N219	N217	Balk (80)
S245	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N224	N225	Balk (80)
S246	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N227	N224	Balk (80)
S247	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N231	N232	Balk (80)
S248	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N234	N231	Balk (80)
S249	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N236	N237	Balk (80)
S250	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N239	N236	Balk (80)
Paal_P_3	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N17	N44	Kolom (100)
Paal_P_4	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N30	N47	Kolom (100)
Paal_P_16	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N27	N14	Kolom (100)
Poer 6	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N23	1XY	Kolom (100)
Paal_P_6	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N31	N48	Kolom (100)
Poer 15	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N185	1P2	Kolom (100)
Poer 16	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N186	1X2	Kolom (100)
Paal_P_7	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N56	N49	Kolom (100)
Paal_P_12	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N55	N10	Kolom (100)
Paal_P_14	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N25	N12	Kolom (100)
Paal_P_17	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N36	N15	Kolom (100)
Paal_P_18	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N37	N2	Kolom (100)
Paal_P_19	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N21	N3	Kolom (100)
Paal_P_20	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N34	N4	Kolom (100)
Paal_P_21	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N35	N54	Kolom (100)
Paal_P_22	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N58	N60	Kolom (100)
Paal_P_58	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N173	N195	Kolom (100)
Paal_P_59	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N181	N196	Kolom (100)
Paal_P_60	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N182	N197	Kolom (100)
Paal_P_61	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N183	N198	Kolom (100)
Paal_P_62	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N184	N199	Kolom (100)
Paal_P_63	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N216	N200	Kolom (100)
Paal_P_64	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N169	N201	Kolom (100)
Paal_P_66	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N171	N203	Kolom (100)
Paal_P_67	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N172	N204	Kolom (100)
Paal_P_68	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N215	N205	Kolom (100)
Poer 5	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N22	1Y	Kolom (100)
Poer 7	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N32	1P	Kolom (100)
Poer 8	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N33	1X	Kolom (100)
Poer 13	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N175	1Y2	Kolom (100)
Poer 14	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N176	1XY2	Kolom (100)
Paal_P_1	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N29	N46	Kolom (100)
Paal_P_2	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N28	N45	Kolom (100)
Paal_P_8	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N5	N50	Kolom (100)
Paal_P_65	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N170	N202	Kolom (100)
Paal_P_9	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N6	N51	Kolom (100)
Paal_P_10	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N7	N52	Kolom (100)
Paal_P_11	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N1	N53	Kolom (100)
Paal_P_13	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N24	N11	Kolom (100)
Paal_P_15	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N26	N13	Kolom (100)
Paal_P_23	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N59	N61	Kolom (100)
Paal_P_24	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N69	N70	Kolom (100)
Paal_P_25	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N71	N72	Kolom (100)
Paal_P_26	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N76	N77	Kolom (100)
Paal_P_27	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N78	N79	Kolom (100)
Paal_P_28	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N81	N82	Kolom (100)
Paal_P_29	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N83	N84	Kolom (100)
Paal_P_69	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N177	N206	Kolom (100)
Paal_P_70	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N178	N207	Kolom (100)
Paal_P_71	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N179	N208	Kolom (100)
Paal_P_72	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N180	N209	Kolom (100)
Paal_P_73	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N189	N210	Kolom (100)

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Paal_P_74	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N190	N211	Kolom (100)
Paal_P_75	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N174	N212	Kolom (100)
Paal_P_76	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N187	N213	Kolom (100)
Paal_P_77	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N188	N214	Kolom (100)
Paal_P_78	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N218	N220	Kolom (100)
Paal_P_79	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N219	N221	Kolom (100)
Paal_P_80	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N225	N226	Kolom (100)
Paal_P_81	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N227	N228	Kolom (100)
Paal_P_82	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N232	N233	Kolom (100)
Paal_P_83	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N234	N235	Kolom (100)
Paal_P_84	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N237	N238	Kolom (100)
Paal_P_85	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N239	N240	Kolom (100)
Paal_P_86	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N80	N247	Kolom (100)
Paal_P_87	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N75	N248	Kolom (100)
Paal_P_88	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N236	N249	Kolom (100)
Paal_P_89	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N231	N250	Kolom (100)
Paal_P_90	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N224	N251	Kolom (100)
Paal_P_91	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N217	N252	Kolom (100)
Paal_P_92	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N68	N253	Kolom (100)
Paal_P_93	LEKA Paal - type e (CHS219.1/10.0)	S 235	18,300	N57	N254	Kolom (100)

5.4. Analyse model met Staven

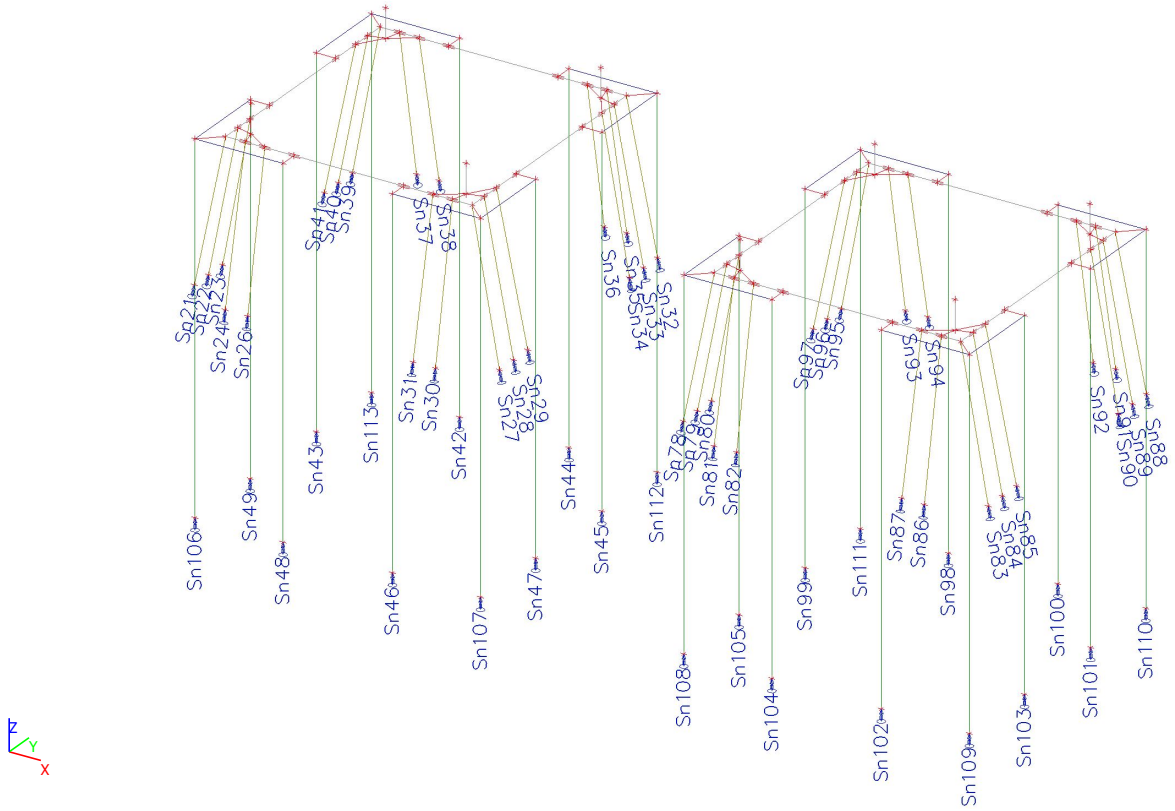


5.5. Knoopsteunpunten

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
Sn21	N44	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn22	N45	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn23	N46	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn24	N47	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn26	N48	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn27	N49	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn28	N50	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
Sn29	N51	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn30	N52	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn31	N53	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn32	N10	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn33	N11	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn34	N12	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn35	N13	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn36	N14	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn37	N15	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn38	N2	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn39	N3	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn40	N4	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn41	N54	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn42	N60	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn43	N61	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn44	N70	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn45	N72	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn46	N77	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn47	N79	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn48	N82	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn49	N84	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn78	N195	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn79	N196	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn80	N197	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn81	N198	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn82	N199	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn83	N200	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn84	N201	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn85	N202	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn86	N203	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn87	N204	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn88	N205	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn89	N206	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn90	N207	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn91	N208	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn92	N209	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn93	N210	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn94	N211	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn95	N212	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn96	N213	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn97	N214	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn98	N220	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn99	N221	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn100	N226	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn101	N228	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn102	N233	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn103	N235	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn104	N238	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn105	N240	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn106	N247	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn107	N248	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn108	N249	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn109	N250	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn110	N251	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn111	N252	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn112	N253	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn113	N254	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	

5.6. Analyse model met Knoopondersteuningen



5.7. Lijnsteunpunten op staven

Naam	Type	Staaf	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
Veen60	Lijn	Paal_P_60	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen10	Lijn	Paal_P_10	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Lijn	Paal_P_13	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen71	Lijn	Paal_P_71	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen18	Lijn	Paal_P_4	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen68	Lijn	Paal_P_68	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen63	Lijn	Paal_P_63	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Lijn	Paal_P_6	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen75	Lijn	Paal_P_75	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen7	Lijn	Paal_P_12	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen20	Lijn	Paal_P_16	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen13	Lijn	Paal_P_9	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen74	Lijn	Paal_P_74	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Lijn	Paal_P_3	1,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			7,500								
Veen77	Lijn	Paal_P_77	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen17	Lijn	Paal_P_19	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Lijn	Paal_P_21	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen3	Lijn	Paal_P_2	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Lijn	Paal_P_11	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen62	Lijn	Paal_P_62	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Lijn	Paal_P_8	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Lijn	Paal_P_7	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen	Lijn	Paal_P_1	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen66	Lijn	Paal_P_66	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen70	Lijn	Paal_P_70	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen73	Lijn	Paal_P_73	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Lijn	Paal_P_20	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen72	Lijn	Paal_P_72	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen14	Lijn	Paal_P_15	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen69	Lijn	Paal_P_69	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen76	Lijn	Paal_P_76	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen67	Lijn	Paal_P_67	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Lijn	Paal_P_17	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen59	Lijn	Paal_P_59	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen58	Lijn	Paal_P_58	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen61	Lijn	Paal_P_61	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Lijn	Paal_P_18	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen6	Lijn	Paal_P_14	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen65	Lijn	Paal_P_65	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen64	Lijn	Paal_P_64	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen22	Lijn	Paal_P_22	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen25	Lijn	Paal_P_25	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen24	Lijn	Paal_P_24	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen85	Lijn	Paal_P_85	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen23	Lijn	Paal_P_23	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen88	Lijn	Paal_P_88	1,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			8,000								
Veen87	Lijn	Paal_P_87	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen29	Lijn	Paal_P_29	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen86	Lijn	Paal_P_86	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen92	Lijn	Paal_P_92	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen91	Lijn	Paal_P_91	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen90	Lijn	Paal_P_90	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen93	Lijn	Paal_P_93	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen28	Lijn	Paal_P_28	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen80	Lijn	Paal_P_80	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen84	Lijn	Paal_P_84	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen81	Lijn	Paal_P_81	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen27	Lijn	Paal_P_27	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen78	Lijn	Paal_P_78	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen89	Lijn	Paal_P_89	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen79	Lijn	Paal_P_79	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen82	Lijn	Paal_P_82	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen26	Lijn	Paal_P_26	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen83	Lijn	Paal_P_83	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
(PY-curve-2_V1)3	Lijn	Paal_P_25	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)23	Lijn	Paal_P_93	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)22	Lijn	Paal_P_92	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)21	Lijn	Paal_P_91	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)1	Lijn	Paal_P_23	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)18	Lijn	Paal_P_88	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)17	Lijn	Paal_P_87	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)16	Lijn	Paal_P_86	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)7	Lijn	Paal_P_29	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)	Lijn	Paal_P_22	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)14	Lijn	Paal_P_84	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)19	Lijn	Paal_P_89	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)4	Lijn	Paal_P_26	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)13	Lijn	Paal_P_83	8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			9,000								
(PY-curve-2_V1)6	Lijn	Paal_P_28	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)20	Lijn	Paal_P_90	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)12	Lijn	Paal_P_82	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)15	Lijn	Paal_P_85	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)5	Lijn	Paal_P_27	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)10	Lijn	Paal_P_80	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)11	Lijn	Paal_P_81	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)9	Lijn	Paal_P_79	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)2	Lijn	Paal_P_24	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)8	Lijn	Paal_P_78	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V2)23	Lijn	Paal_P_93	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)22	Lijn	Paal_P_92	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)21	Lijn	Paal_P_91	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)20	Lijn	Paal_P_90	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)1	Lijn	Paal_P_23	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)19	Lijn	Paal_P_89	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)2	Lijn	Paal_P_24	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)18	Lijn	Paal_P_88	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)9	Lijn	Paal_P_79	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)17	Lijn	Paal_P_87	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)	Lijn	Paal_P_22	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)15	Lijn	Paal_P_85	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)7	Lijn	Paal_P_29	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)14	Lijn	Paal_P_84	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)16	Lijn	Paal_P_86	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)6	Lijn	Paal_P_28	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)13	Lijn	Paal_P_83	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)11	Lijn	Paal_P_81	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)10	Lijn	Paal_P_80	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)12	Lijn	Paal_P_82	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)5	Lijn	Paal_P_27	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)4	Lijn	Paal_P_26	9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			10,000								
(PY-curve-2_V2)3	Lijn	Paal_P_25	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)8	Lijn	Paal_P_78	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V3)14	Lijn	Paal_P_84	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)11	Lijn	Paal_P_92	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)9	Lijn	Paal_P_27	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)8	Lijn	Paal_P_25	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)7	Lijn	Paal_P_26	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)10	Lijn	Paal_P_87	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)6	Lijn	Paal_P_24	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)5	Lijn	Paal_P_28	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)4	Lijn	Paal_P_22	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)13	Lijn	Paal_P_79	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)3	Lijn	Paal_P_93	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)	Lijn	Paal_P_23	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)12	Lijn	Paal_P_78	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)1	Lijn	Paal_P_29	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)2	Lijn	Paal_P_86	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)23	Lijn	Paal_P_90	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)22	Lijn	Paal_P_89	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)21	Lijn	Paal_P_83	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)20	Lijn	Paal_P_82	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)19	Lijn	Paal_P_81	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)18	Lijn	Paal_P_80	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)17	Lijn	Paal_P_91	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)16	Lijn	Paal_P_88	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)15	Lijn	Paal_P_85	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V4)23	Lijn	Paal_P_93	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)21	Lijn	Paal_P_91	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)20	Lijn	Paal_P_90	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)19	Lijn	Paal_P_89	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)17	Lijn	Paal_P_87	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)16	Lijn	Paal_P_86	11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			12,000								
(PY-curve-2_V4)15	Lijn	Paal_P_85	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)11	Lijn	Paal_P_81	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)10	Lijn	Paal_P_80	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)9	Lijn	Paal_P_79	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)8	Lijn	Paal_P_78	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)12	Lijn	Paal_P_82	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)7	Lijn	Paal_P_29	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)18	Lijn	Paal_P_88	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)22	Lijn	Paal_P_92	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)6	Lijn	Paal_P_28	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)5	Lijn	Paal_P_27	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)4	Lijn	Paal_P_26	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)14	Lijn	Paal_P_84	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)3	Lijn	Paal_P_25	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)	Lijn	Paal_P_22	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)1	Lijn	Paal_P_23	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)2	Lijn	Paal_P_24	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)13	Lijn	Paal_P_83	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V5)23	Lijn	Paal_P_93	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)21	Lijn	Paal_P_91	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)20	Lijn	Paal_P_90	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)19	Lijn	Paal_P_89	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)18	Lijn	Paal_P_88	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)17	Lijn	Paal_P_87	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)16	Lijn	Paal_P_86	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)15	Lijn	Paal_P_85	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)14	Lijn	Paal_P_84	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)13	Lijn	Paal_P_83	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)12	Lijn	Paal_P_82	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)11	Lijn	Paal_P_81	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)10	Lijn	Paal_P_80	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)9	Lijn	Paal_P_79	12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			13,000								
(PY-curve-2_V5)8	Lijn	Paal_P_78	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)7	Lijn	Paal_P_29	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)22	Lijn	Paal_P_92	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)6	Lijn	Paal_P_28	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)5	Lijn	Paal_P_27	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)4	Lijn	Paal_P_26	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)3	Lijn	Paal_P_25	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)2	Lijn	Paal_P_24	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)1	Lijn	Paal_P_23	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)	Lijn	Paal_P_22	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V6)23	Lijn	Paal_P_93	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)21	Lijn	Paal_P_91	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)20	Lijn	Paal_P_90	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)19	Lijn	Paal_P_89	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)17	Lijn	Paal_P_87	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)16	Lijn	Paal_P_86	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)15	Lijn	Paal_P_85	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)14	Lijn	Paal_P_84	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)13	Lijn	Paal_P_83	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)12	Lijn	Paal_P_82	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)11	Lijn	Paal_P_81	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)10	Lijn	Paal_P_80	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)9	Lijn	Paal_P_79	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)8	Lijn	Paal_P_78	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)7	Lijn	Paal_P_29	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)18	Lijn	Paal_P_88	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)22	Lijn	Paal_P_92	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)6	Lijn	Paal_P_28	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)5	Lijn	Paal_P_27	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)4	Lijn	Paal_P_26	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)3	Lijn	Paal_P_25	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)2	Lijn	Paal_P_24	13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B

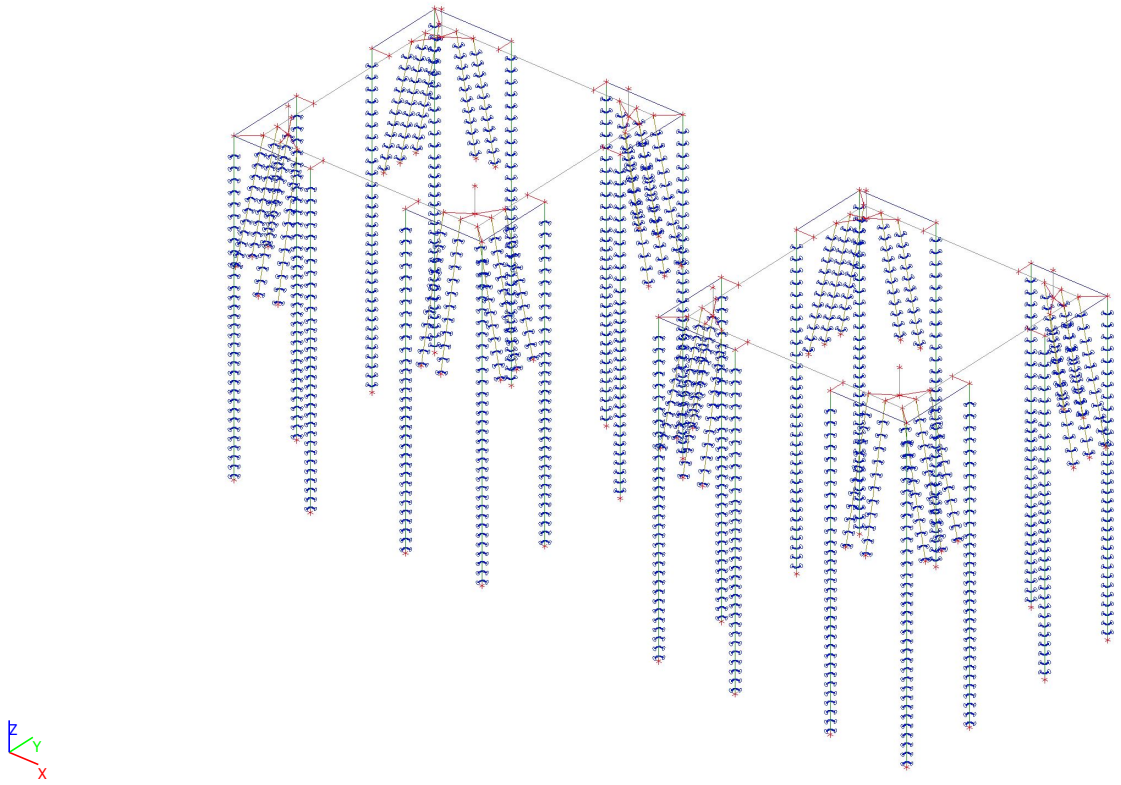
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			14,000								
(PY-curve-2_V6)1	Lijn	Paal_P_23	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)	Lijn	Paal_P_22	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V7)23	Lijn	Paal_P_93	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)21	Lijn	Paal_P_91	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)20	Lijn	Paal_P_90	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)19	Lijn	Paal_P_89	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)18	Lijn	Paal_P_88	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)17	Lijn	Paal_P_87	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)16	Lijn	Paal_P_86	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)15	Lijn	Paal_P_85	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)14	Lijn	Paal_P_84	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)13	Lijn	Paal_P_83	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)12	Lijn	Paal_P_82	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)11	Lijn	Paal_P_81	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)10	Lijn	Paal_P_80	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)9	Lijn	Paal_P_79	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)8	Lijn	Paal_P_78	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)7	Lijn	Paal_P_29	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)22	Lijn	Paal_P_92	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)6	Lijn	Paal_P_28	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)5	Lijn	Paal_P_27	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)4	Lijn	Paal_P_26	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)3	Lijn	Paal_P_25	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)2	Lijn	Paal_P_24	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)1	Lijn	Paal_P_23	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)	Lijn	Paal_P_22	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V8)21	Lijn	Paal_P_29	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)20	Lijn	Paal_P_28	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)19	Lijn	Paal_P_23	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)17	Lijn	Paal_P_92	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)16	Lijn	Paal_P_87	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)15	Lijn	Paal_P_27	15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			16,000								
(PY-curve-2_V8)13	Lijn	Paal_P_25	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)14	Lijn	Paal_P_26	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)12	Lijn	Paal_P_24	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)11	Lijn	Paal_P_91	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)10	Lijn	Paal_P_88	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)9	Lijn	Paal_P_85	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)8	Lijn	Paal_P_84	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)7	Lijn	Paal_P_79	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)18	Lijn	Paal_P_22	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)22	Lijn	Paal_P_86	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)6	Lijn	Paal_P_78	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)5	Lijn	Paal_P_90	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)4	Lijn	Paal_P_89	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)3	Lijn	Paal_P_83	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)2	Lijn	Paal_P_82	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)1	Lijn	Paal_P_81	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)	Lijn	Paal_P_80	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)23	Lijn	Paal_P_93	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V9)23	Lijn	Paal_P_93	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)21	Lijn	Paal_P_29	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)20	Lijn	Paal_P_28	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)19	Lijn	Paal_P_23	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)18	Lijn	Paal_P_22	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)17	Lijn	Paal_P_26	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)16	Lijn	Paal_P_24	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)15	Lijn	Paal_P_92	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)14	Lijn	Paal_P_87	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)13	Lijn	Paal_P_27	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)12	Lijn	Paal_P_25	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)11	Lijn	Paal_P_91	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)10	Lijn	Paal_P_88	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)9	Lijn	Paal_P_85	16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B

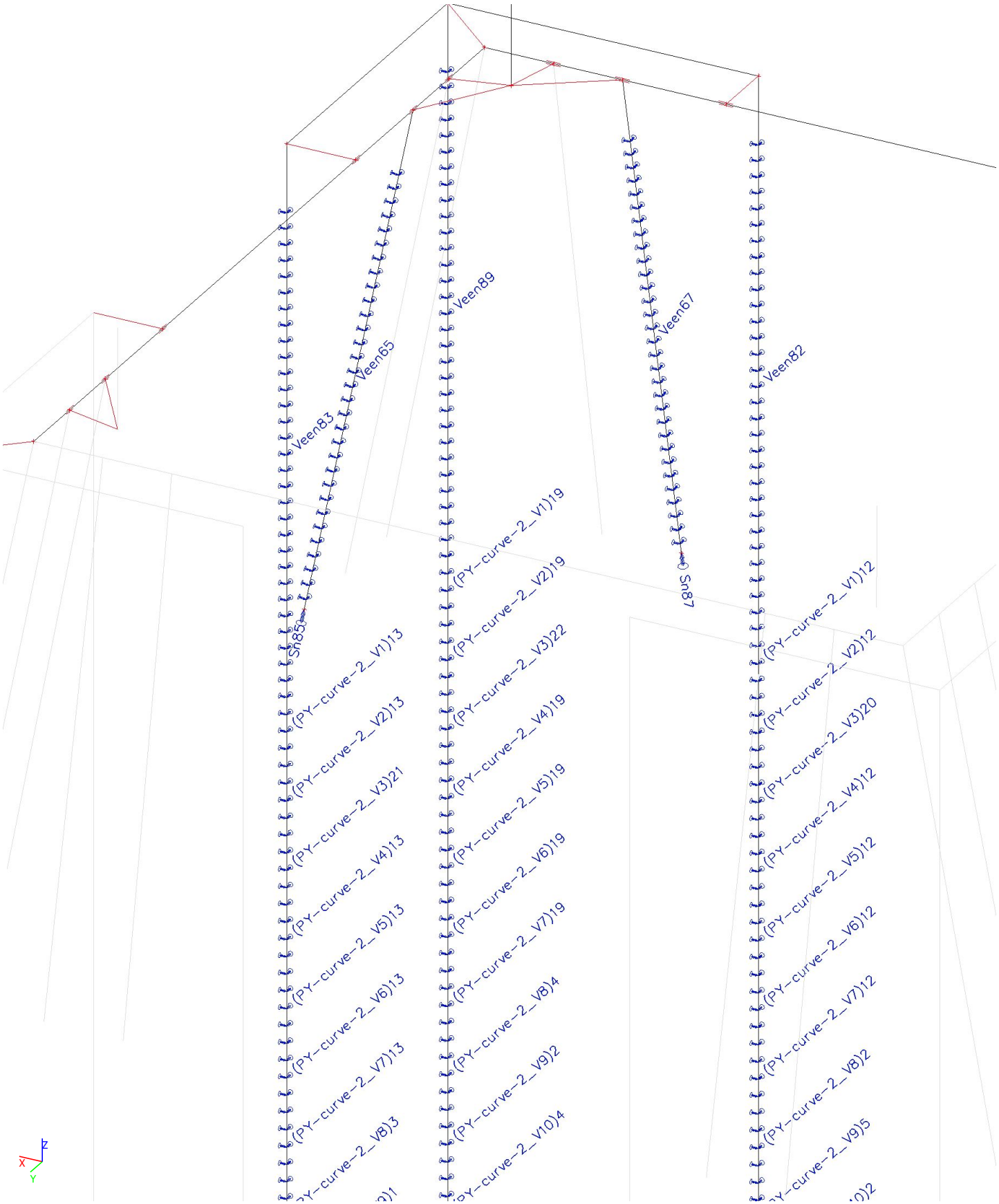
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			17,000								
(PY-curve-2_V9)8	Lijn	Paal_P_79	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)7	Lijn	Paal_P_84	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)22	Lijn	Paal_P_86	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)6	Lijn	Paal_P_78	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)5	Lijn	Paal_P_82	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)4	Lijn	Paal_P_80	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)3	Lijn	Paal_P_90	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)2	Lijn	Paal_P_89	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)1	Lijn	Paal_P_83	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)	Lijn	Paal_P_81	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V10)23	Lijn	Paal_P_93	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)21	Lijn	Paal_P_29	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)20	Lijn	Paal_P_28	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)19	Lijn	Paal_P_23	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)17	Lijn	Paal_P_92	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)16	Lijn	Paal_P_87	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)15	Lijn	Paal_P_27	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)14	Lijn	Paal_P_26	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)13	Lijn	Paal_P_25	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)12	Lijn	Paal_P_24	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)11	Lijn	Paal_P_91	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)18	Lijn	Paal_P_22	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)10	Lijn	Paal_P_88	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)9	Lijn	Paal_P_85	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)8	Lijn	Paal_P_84	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)7	Lijn	Paal_P_79	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)22	Lijn	Paal_P_86	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)6	Lijn	Paal_P_78	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)5	Lijn	Paal_P_90	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)4	Lijn	Paal_P_89	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)3	Lijn	Paal_P_83	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)2	Lijn	Paal_P_82	17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			18,000								
(PY-curve-2_V10)1	Lijn	Paal_P_81	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)	Lijn	Paal_P_80	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B

5.8. Analyse model met Lijnondersteuningen



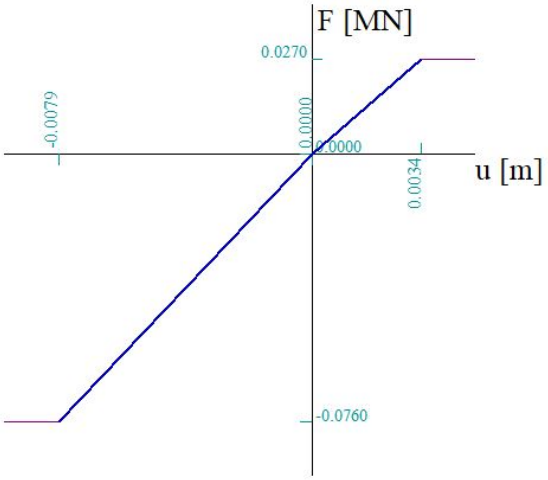
5.9. Analyse model met Lijnondersteuningen



5.10. Niet-lineaire functies

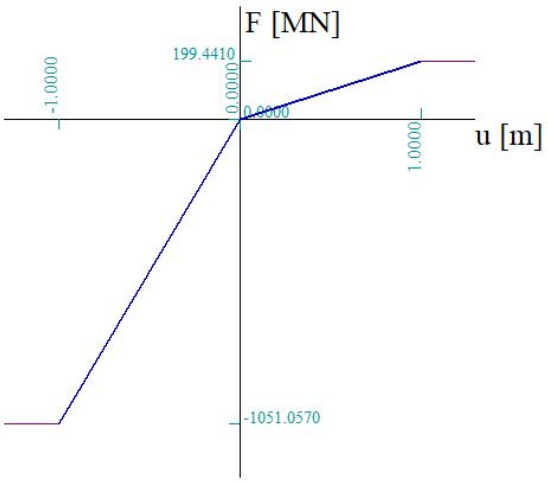
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt	Verplaatsing	-0.007870 / -76000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		0.003390 / 27000.000000		

Tekenen



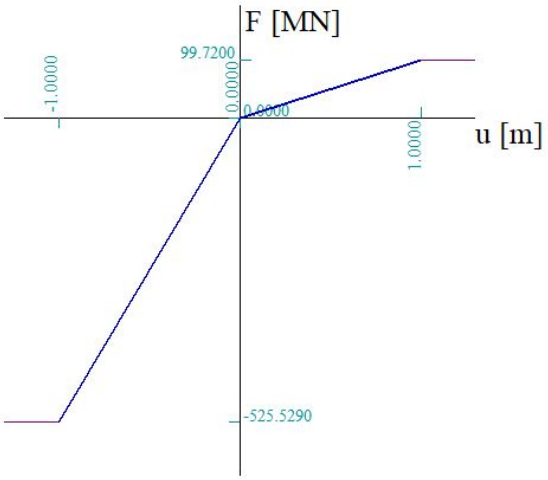
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt.LEKA.BG.	Verplaatsing	-1.000000 / -1051057000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 199441000.000000		

Tekenen



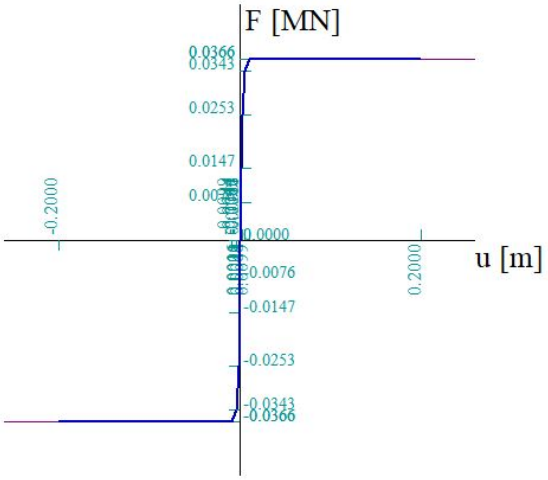
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt.LEKA.OG.	Verplaatsing	-1.000000 / -525529000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 99720000.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1	Verplaatsing	-0.200000 / -36623.773526	Vrij	Vrij
		-0.009900 / -36623.773526		
		-0.004400 / -34258.682564		
		-0.002200 / -25265.323475		
		-0.001100 / -14650.070468		
		-0.000550 / -7643.461980		
		0.000000 / 0.000000		
		0.000550 / 7643.461980		
		0.001100 / 14650.070468		
		0.002200 / 25265.323475		
		0.004400 / 34258.682564		
		0.009900 / 36623.773526		
		0.200000 / 36623.773526		

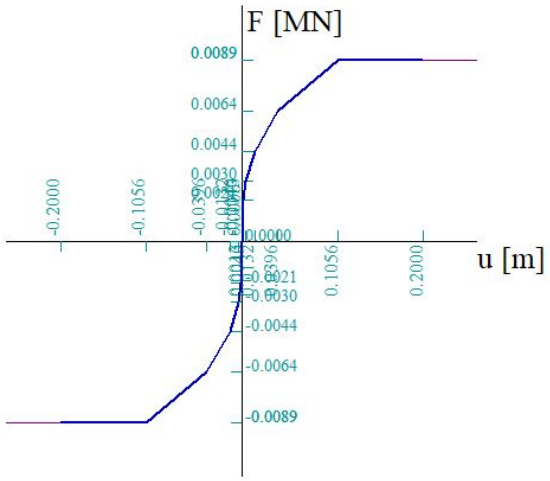
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen	Verplaatsing	-0.200000 / -8894.400000	Vrij	Vrij
		-0.105600 / -8894.400000		
		-0.039600 / -6413.760000		
		-0.013200 / -4447.680000		
		-0.003960 / -2976.960000		
		-0.001320 / -2064.000000		
		0.000000 / 0.000000		
		0.001320 / 2064.000000		
		0.003960 / 2976.960000		
		0.013200 / 4447.680000		

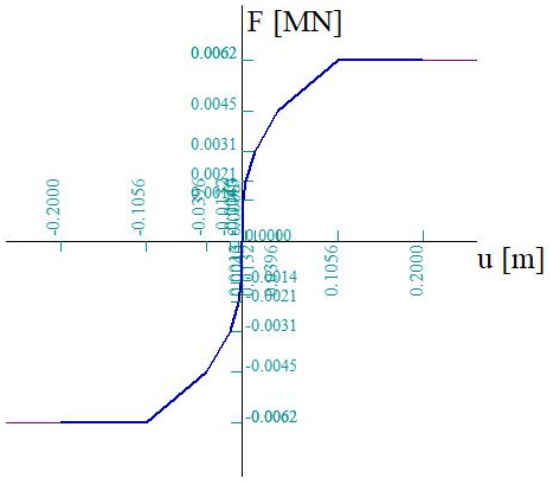
Naam	Type	u / F	Positief einde	Negatief einde
		0.039600 / 6413.760000		
		0.105600 / 8894.400000		
		0.200000 / 8894.400000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen.B	Verplaatsing	-0.200000 / -6201.600000	Vrij	Vrij
		-0.105600 / -6201.600000		
		-0.039600 / -4472.127468		
		-0.013200 / -3100.800000		
		-0.003960 / -2075.777692		
		-0.001320 / -1439.263866		
		0.000000 / 0.000000		
		0.001320 / 1439.263866		
		0.003960 / 2075.777692		
		0.013200 / 3100.800000		
		0.039600 / 4472.127468		
		0.105600 / 6201.600000		
		0.200000 / 6201.600000		

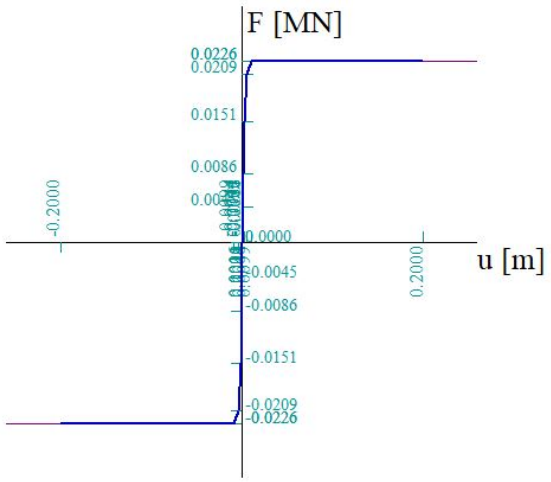
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1.B	Verplaatsing	-0.200000 / -22567.068674	Vrij	Vrij
		-0.009900 / -22567.068674		
		-0.004400 / -20854.373851		
		-0.002200 / -15053.562285		

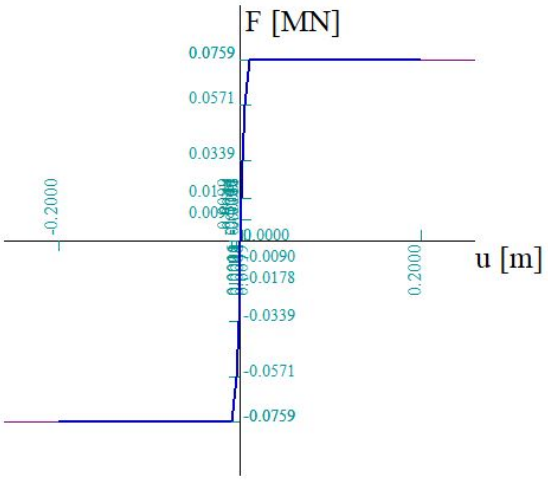
Naam	Type	u / F	Positief einde	Negatief einde
		-0.001100 / -8622.404267		
		-0.000550 / -4480.666657		
		0.000000 / 0.000000		
		0.000550 / 4480.666657		
		0.001100 / 8622.404267		
		0.002200 / 15053.562285		
		0.004400 / 20854.373851		
		0.009900 / 22567.068674		
		0.200000 / 22567.068674		

Tekenen



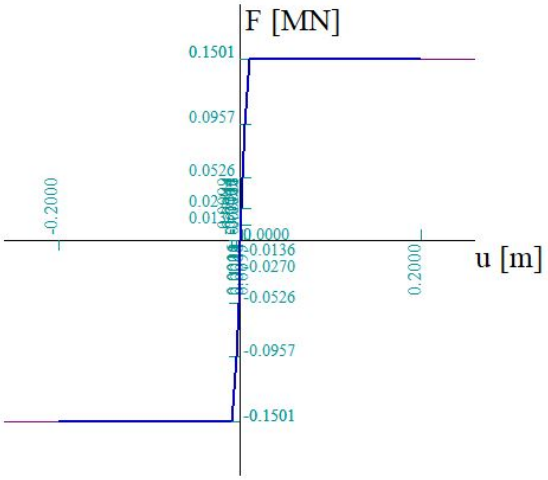
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V2.B	Verplaatsing	-0.200000 / -75873.637049	Vrij	Vrij
		-0.009900 / -75873.637049		
		-0.004400 / -57108.254714		
		-0.002200 / -33922.771015		
		-0.001100 / -17843.746859		
		-0.000550 / -9041.026316		
		0.000000 / 0.000000		
		0.000550 / 9041.026316		
		0.001100 / 17843.746859		
		0.002200 / 33922.771015		
		0.004400 / 57108.254714		
		0.009900 / 75873.637049		
		0.200000 / 75873.637049		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V3.B	Verplaatsing	-0.200000 / -150113.918276	Vrij	Vrij
		-0.009900 / -150113.918276		
		-0.004400 / -95744.093897		
		-0.002200 / -52632.761421		
		-0.001100 / -27005.356255		
		-0.000550 / -13592.230940		
		0.000000 / 0.000000		
		0.000550 / 13592.230940		
		0.001100 / 27005.356255		
		0.002200 / 52632.761421		
		0.004400 / 95744.093897		
		0.009900 / 150113.918276		
		0.200000 / 150113.918276		

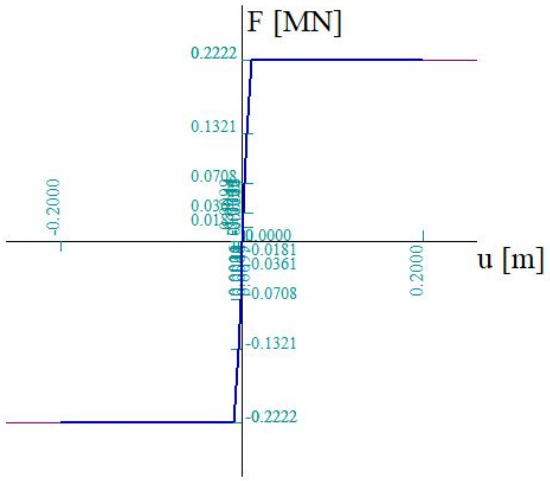
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V4.B	Verplaatsing	-0.200000 / -222224.259266	Vrij	Vrij
		-0.009900 / -222224.259266		
		-0.004400 / -132061.746372		
		-0.002200 / -70849.673664		
		-0.001100 / -36095.862129		
		-0.000550 / -18134.217245		
		0.000000 / 0.000000		
		0.000550 / 18134.217245		
		0.001100 / 36095.862129		
		0.002200 / 70849.673664		

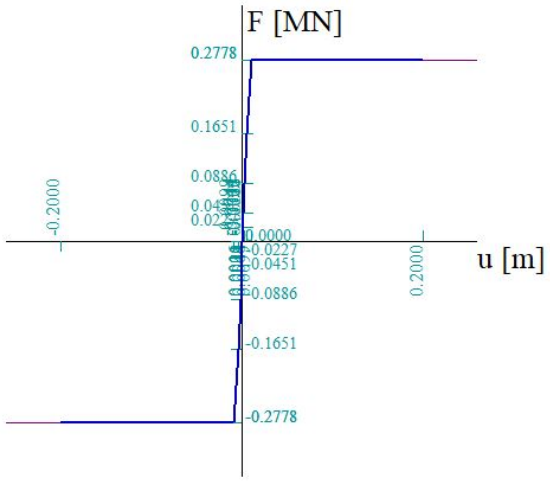
Naam	Type	u / F	Positief einde	Negatief einde
		0.004400 / 132061.746372		
		0.009900 / 222224.259266		
		0.200000 / 222224.259266		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V5.B	Verplaatsing	-0.200000 / -277780.324083	Vrij	Vrij
		-0.009900 / -277780.324083		
		-0.004400 / -165077.182965		
		-0.002200 / -88562.092080		
		-0.001100 / -45119.827661		
		-0.000550 / -22667.771557		
		0.000000 / 0.000000		
		0.000550 / 22667.771557		
		0.001100 / 45119.827661		
		0.002200 / 88562.092080		
		0.004400 / 165077.182965		
		0.009900 / 277780.324083		
		0.200000 / 277780.324083		

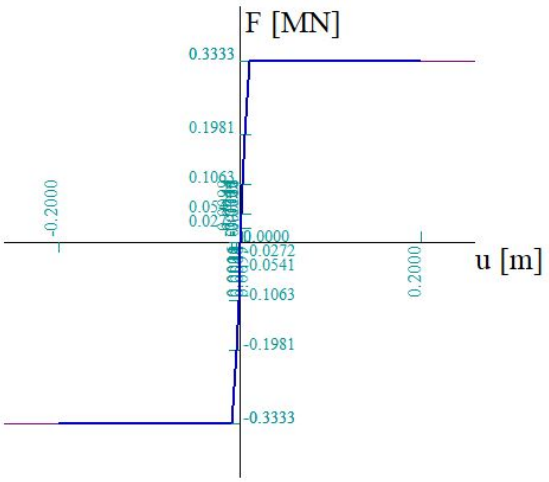
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V6.B	Verplaatsing	-0.200000 / -333336.388899	Vrij	Vrij
		-0.009900 / -333336.388899		
		-0.004400 / -198092.619558		
		-0.002200 / -106274.510495		

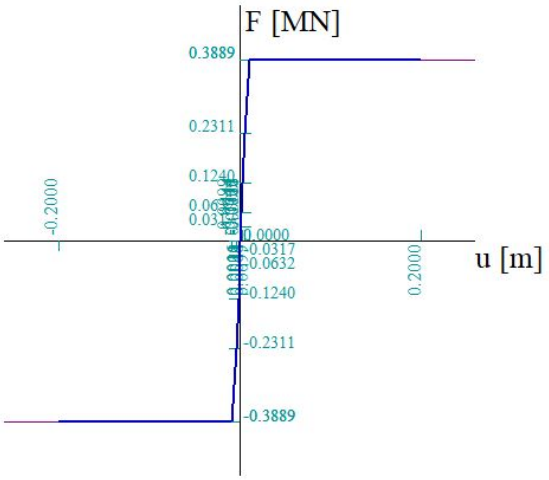
Naam	Type	u / F	Positief einde	Negatief einde
		-0.001100 / -54143.793193		
		-0.000550 / -27201.325868		
		0.000000 / 0.000000		
		0.000550 / 27201.325868		
		0.001100 / 54143.793193		
		0.002200 / 106274.510495		
		0.004400 / 198092.619558		
		0.009900 / 333336.388899		
		0.200000 / 333336.388899		

Tekenen



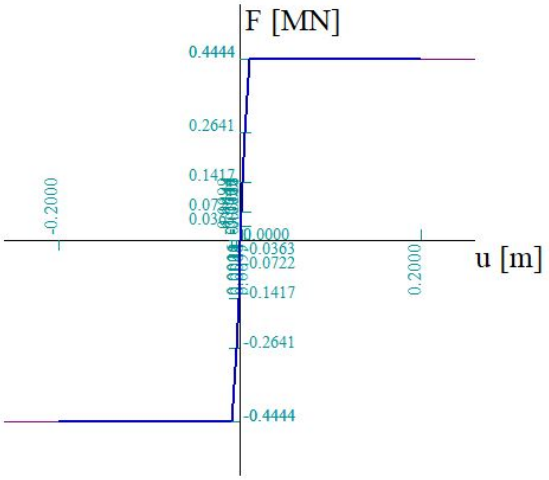
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V7.B	Verplaatsing	-0.200000 / -388892.453716	Vrij	Vrij
		-0.009900 / -388892.453716		
		-0.004400 / -231108.056151		
		-0.002200 / -123986.928911		
		-0.001100 / -63167.758725		
		-0.000550 / -31734.880179		
		0.000000 / 0.000000		
		0.000550 / 31734.880179		
		0.001100 / 63167.758725		
		0.002200 / 123986.928911		
		0.004400 / 231108.056151		
		0.009900 / 388892.453716		
		0.200000 / 388892.453716		

Tekenen



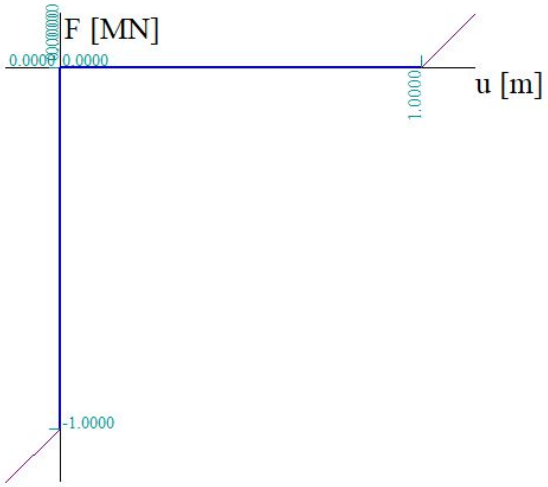
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V8.B	Verplaatsing	-0.200000 / -444448.518533	Vrij	Vrij
		-0.009900 / -444448.518533		
		-0.004400 / -264123.492744		
		-0.002200 / -141699.347327		
		-0.001100 / -72191.724257		
		-0.000550 / -36268.434491		
		0.000000 / 0.000000		
		0.000550 / 36268.434491		
		0.001100 / 72191.724257		
		0.002200 / 141699.347327		
		0.004400 / 264123.492744		
		0.009900 / 444448.518533		
		0.200000 / 444448.518533		

Tekenen



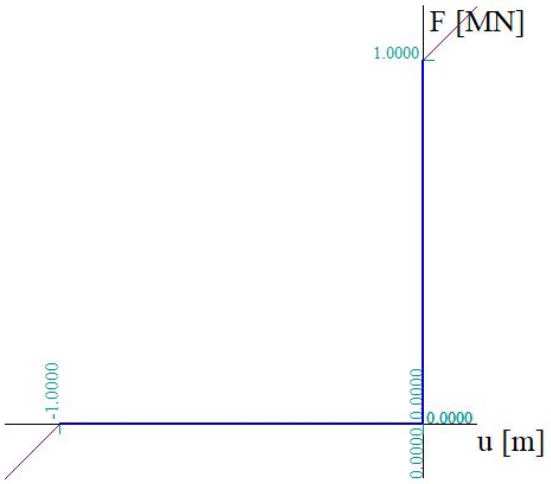
Naam	Type	u / F	Positief einde	Negatief einde
press only	Verplaatsing	-0.000001 / -1000000.000000	Verend	Verend
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Tekenen



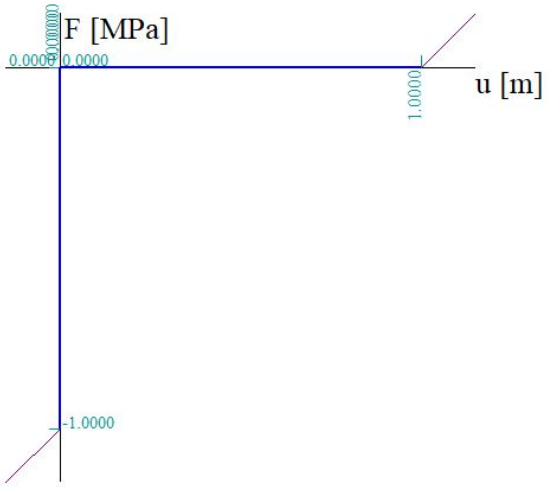
Naam	Type	u / F	Positief einde	Negatief einde
tension only	Verplaatsing	-1.000000 / 0.000000	Verend	Verend
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Tekenen



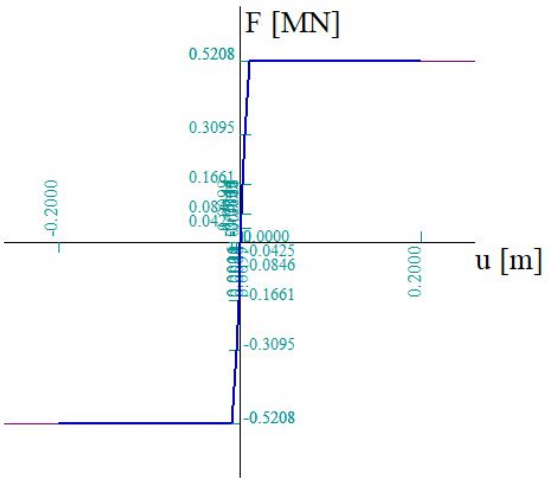
Naam	Type	u / F	Positief einde	Negatief einde
soil press only	Niet-lineair bedding		Verend	Verend

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V9.B	Verplaatsing	-0.200000 / -520838.107655	Vrij	Vrij
		-0.009900 / -520838.107655		
		-0.004400 / -309519.718059		
		-0.002200 / -166053.922649		
		-0.001100 / -84599.676864		
		-0.000550 / -42502.071669		
		0.000000 / 0.000000		
		0.000550 / 42502.071669		
		0.001100 / 84599.676864		
		0.002200 / 166053.922649		
		0.004400 / 309519.718059		
		0.009900 / 520838.107655		
		0.200000 / 520838.107655		

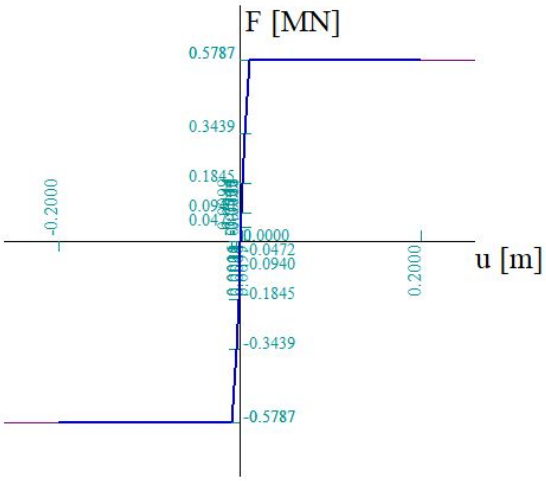
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V10.B	Verplaatsing	-0.200000 / -578709.008506	Vrij	Vrij
		-0.009900 / -578709.008506		
		-0.004400 / -343910.797844		
		-0.002200 / -184504.358499		
		-0.001100 / -93999.640960		
		-0.000550 / -47224.524076		
		0.000000 / 0.000000		
		0.000550 / 47224.524076		
		0.001100 / 93999.640960		

Naam	Type	u / F	Positief einde	Negatief einde
		0.002200 / 184504.358499		
		0.004400 / 343910.797844		
		0.009900 / 578709.008506		
		0.200000 / 578709.008506		

Tekenen

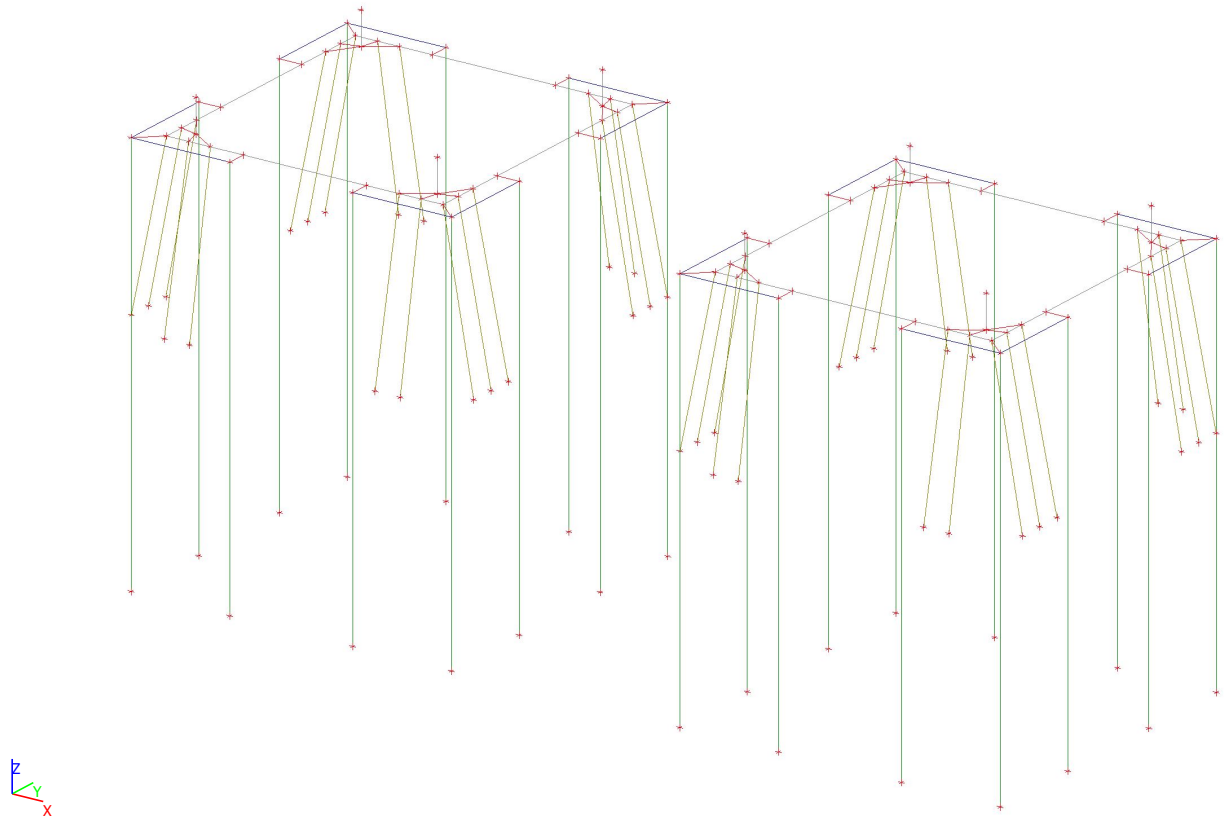


6. Belastingen

6.1. Belastingsgevallen

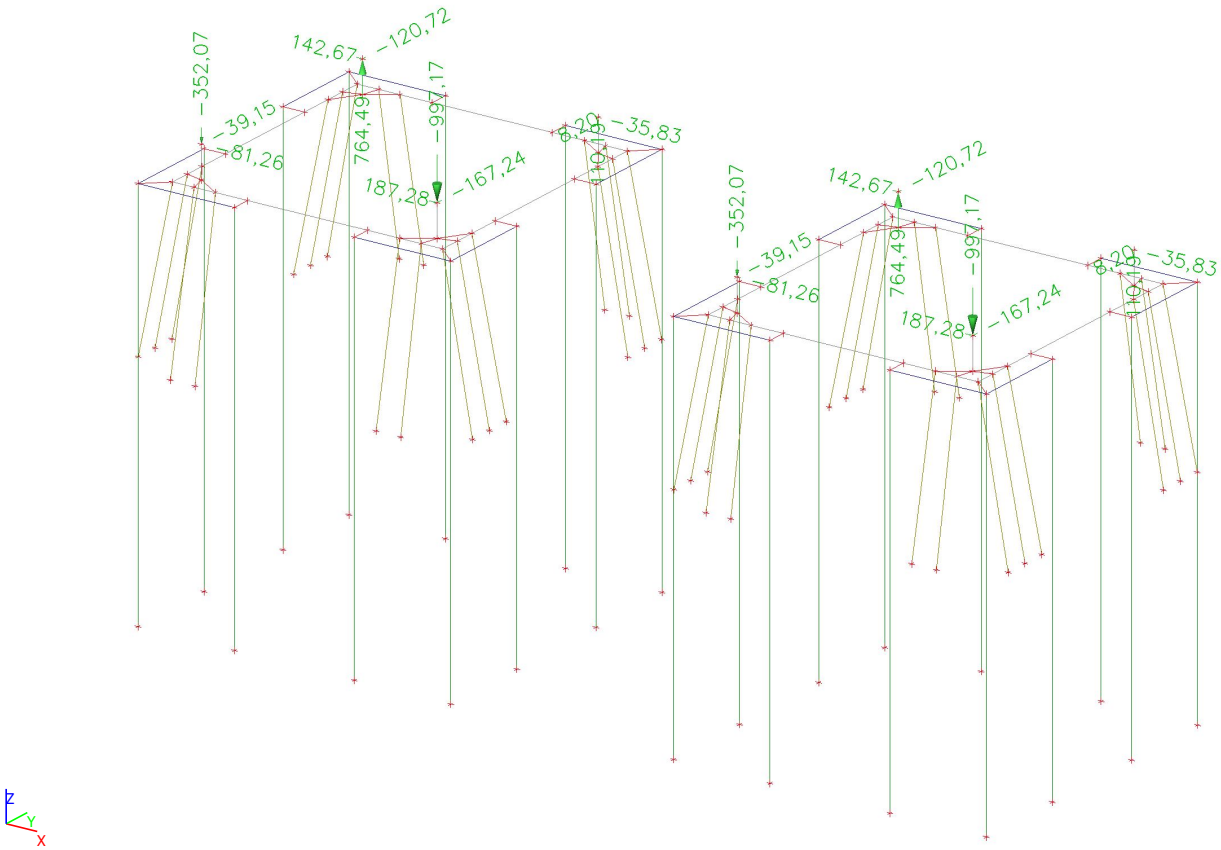
6.1.1. Belastingsgevallen - E.G.

Naam	Omschrijving	Actie type	Lastgroep	Richting
	Spec	Type last		
E.G.		Permanent	LG1	-Z
		Eigen gewicht		



6.1.2. Belastingsgevallen - high max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



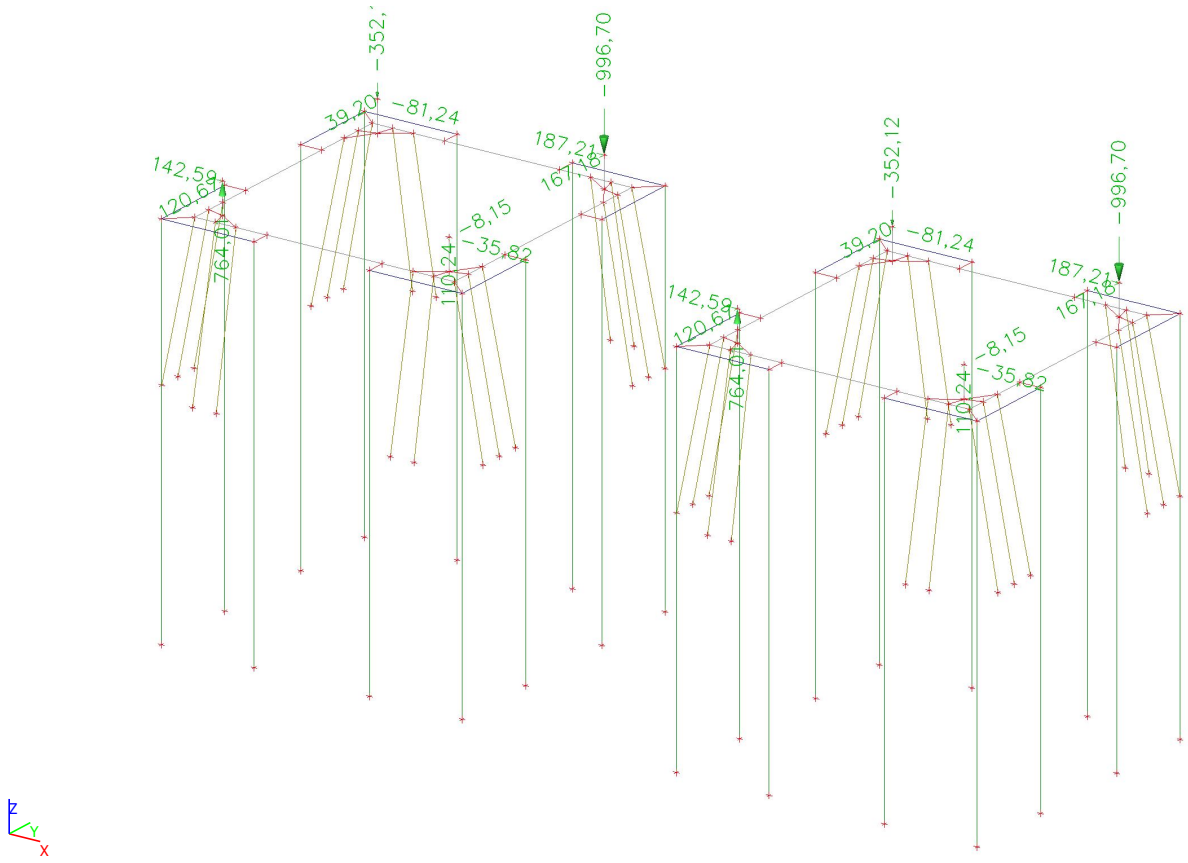
6.1.2.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Kracht	-81,26
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Kracht	-39,15
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Kracht	-352,07
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Kracht	142,67
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Kracht	-120,72
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Kracht	764,49
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Kracht	-35,83
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Kracht	8,20
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Kracht	110,19
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Kracht	187,28
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Kracht	-167,24
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Kracht	-997,17
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Kracht	-81,26
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Kracht	-39,15
high max Wnd	1P2	high max Wnd ;225°	GCS	Z	Kracht	-352,07

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;225°_1P2_Z						
high max Wnd ;225°_1X2_X	1X2	high max Wnd ;225°	GCS	X	Kracht	142,67
high max Wnd ;225°_1X2_Y	1X2	high max Wnd ;225°	GCS	Y	Kracht	-120,72
high max Wnd ;225°_1X2_Z	1X2	high max Wnd ;225°	GCS	Z	Kracht	764,49
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Kracht	-35,83
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Kracht	8,20
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Kracht	110,19
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Kracht	187,28
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Kracht	-167,24
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Kracht	-997,17

6.1.3. Belastingsgevallen - high max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

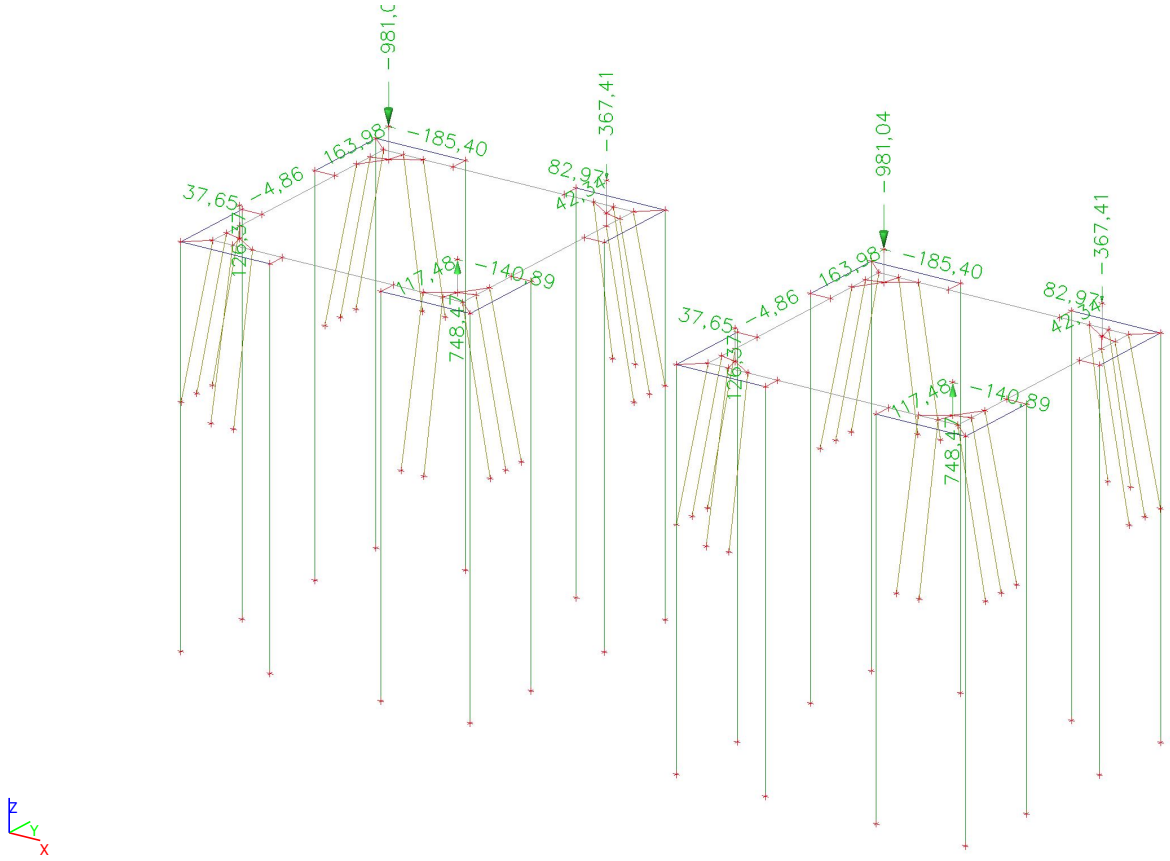


6.1.3.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Kracht	142,59
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Kracht	120,67
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Kracht	764,01
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Kracht	-81,24
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Kracht	39,20
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Kracht	-352,12
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Kracht	187,21
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Kracht	167,18
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Kracht	-996,70
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Kracht	-35,82
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Kracht	-8,15
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Kracht	110,24
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Kracht	142,59
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Kracht	120,67
high max Wnd ;135°_1P2_Z	1P2	high max Wnd ;135°	GCS	Z	Kracht	764,01
high max Wnd ;135°_1X2_X	1X2	high max Wnd ;135°	GCS	X	Kracht	-81,24
high max Wnd ;135°_1X2_Y	1X2	high max Wnd ;135°	GCS	Y	Kracht	39,20
high max Wnd ;135°_1X2_Z	1X2	high max Wnd ;135°	GCS	Z	Kracht	-352,12
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Kracht	187,21
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Kracht	167,18
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Kracht	-996,70
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Kracht	-35,82
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Kracht	-8,15
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Kracht	110,24

6.1.4. Belastingsgevallen - high max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



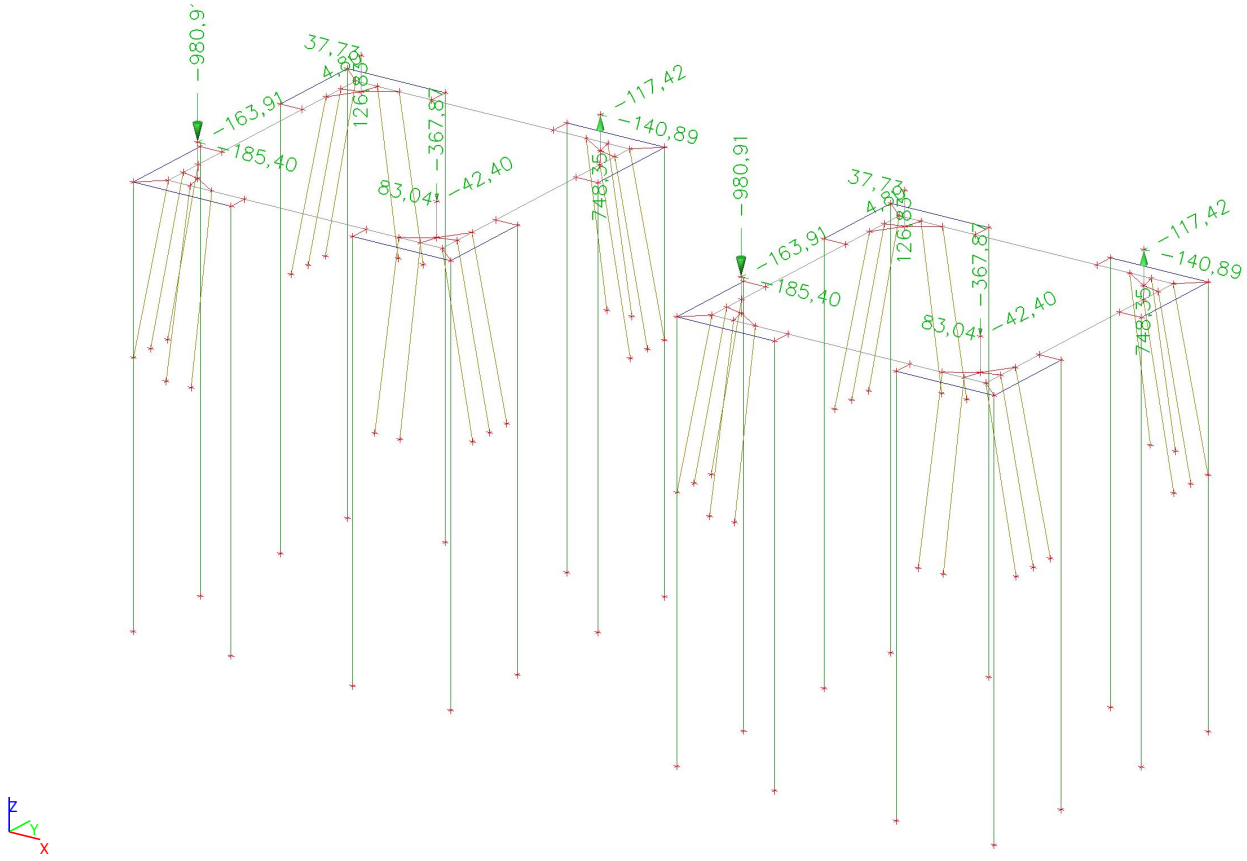
6.1.4.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Kracht	37,65
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Kracht	-4,86
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Kracht	126,37
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Kracht	-185,40
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Kracht	163,98
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Kracht	-981,04
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Kracht	82,97
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Kracht	42,34
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Kracht	-367,41
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Kracht	-140,89
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Kracht	117,48
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Kracht	748,47
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Kracht	37,65
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Kracht	-4,86
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Kracht	126,37

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X2_X	1X2	high max Wnd ;45°	GCS	X	Kracht	-185,40
high max Wnd ;45°_1X2_Y	1X2	high max Wnd ;45°	GCS	Y	Kracht	163,98
high max Wnd ;45°_1X2_Z	1X2	high max Wnd ;45°	GCS	Z	Kracht	-981,04
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Kracht	82,97
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Kracht	42,34
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Kracht	-367,41
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Kracht	-140,89
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Kracht	117,48
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Kracht	748,47

6.1.5. Belastingsgevallen - high max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;315°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

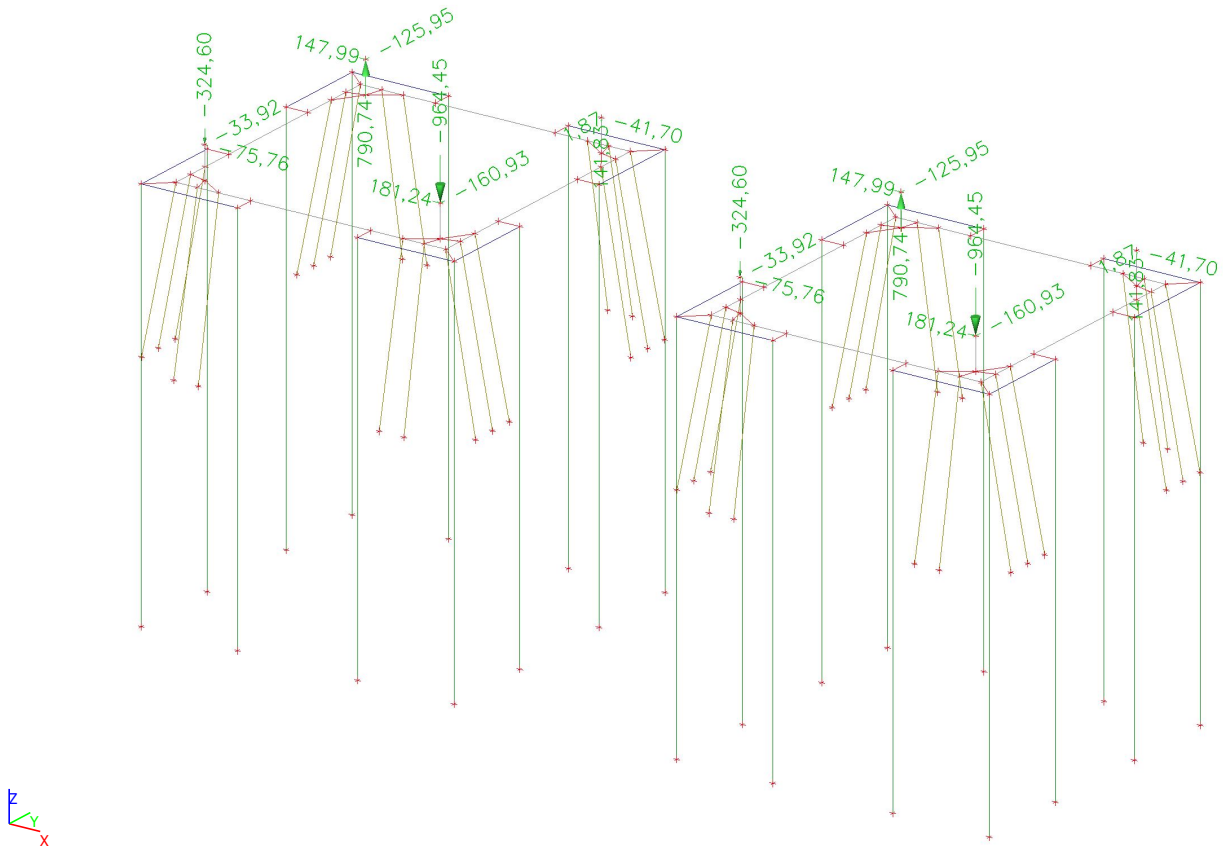


6.1.5.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Kracht	-185,40
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Kracht	-163,91
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Kracht	-980,91
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Kracht	37,73
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Kracht	4,80
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Kracht	126,83
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Kracht	-140,89
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Kracht	-117,42
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Kracht	748,35
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Kracht	83,04
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Kracht	-42,40
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Kracht	-367,87
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Kracht	-185,40
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Kracht	-163,91
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Kracht	-980,91
high max Wnd ;315°_1X2_X	1X2	high max Wnd ;315°	GCS	X	Kracht	37,73
high max Wnd ;315°_1X2_Y	1X2	high max Wnd ;315°	GCS	Y	Kracht	4,80
high max Wnd ;315°_1X2_Z	1X2	high max Wnd ;315°	GCS	Z	Kracht	126,83
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Kracht	-140,89
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Kracht	-117,42
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Kracht	748,35
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Kracht	83,04
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Kracht	-42,40
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Kracht	-367,87

6.1.6. Belastingsgevallen - low max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



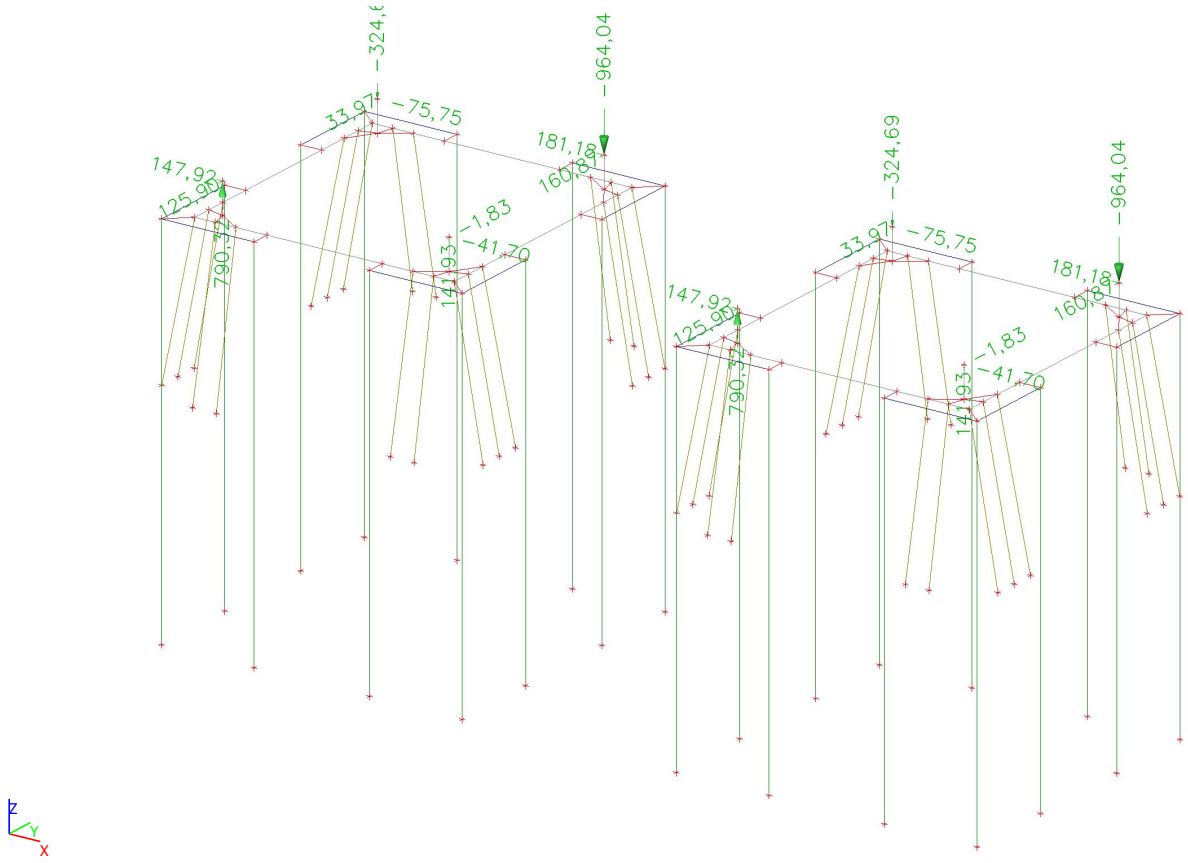
6.1.6.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Kracht	-75,76
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Kracht	-33,92
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Kracht	-324,60
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Kracht	147,99
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Kracht	-125,95
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Kracht	790,74
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Kracht	-41,70
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Kracht	1,87
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Kracht	141,83
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Kracht	181,24
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Kracht	-160,93
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Kracht	-964,45
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Kracht	-75,76
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Kracht	-33,92
low max Wnd	1P2	low max Wnd ;225°	GCS	Z	Kracht	-324,60

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;225°_1P2_Z						
low max Wnd ;225°_1X2_X	1X2	low max Wnd ;225°	GCS	X	Kracht	147,99
low max Wnd ;225°_1X2_Y	1X2	low max Wnd ;225°	GCS	Y	Kracht	-125,95
low max Wnd ;225°_1X2_Z	1X2	low max Wnd ;225°	GCS	Z	Kracht	790,74
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Kracht	-41,70
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Kracht	1,87
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Kracht	141,83
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Kracht	181,24
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Kracht	-160,93
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Kracht	-964,45

6.1.7. Belastingsgevallen - low max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

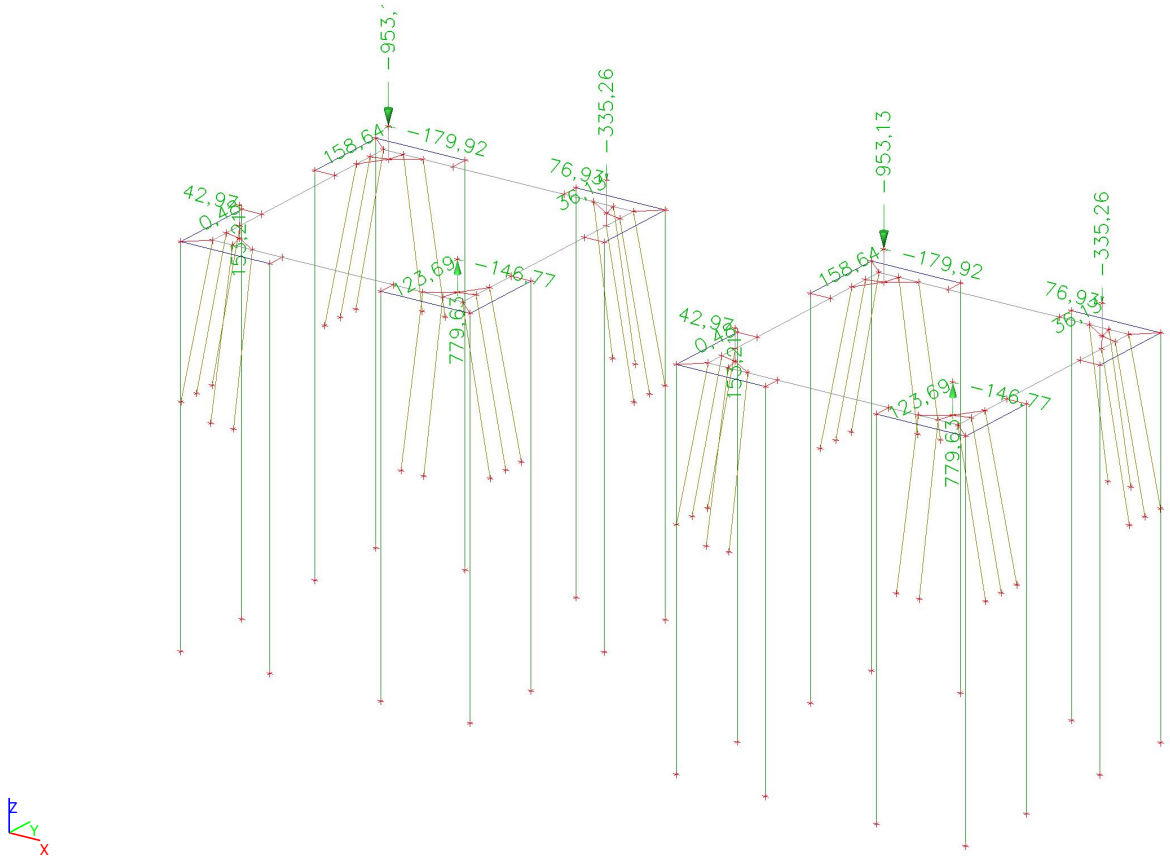


6.1.7.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Kracht	147,92
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Kracht	125,90
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Kracht	790,32
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Kracht	-75,75
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Kracht	33,97
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Kracht	-324,69
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Kracht	181,18
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Kracht	160,87
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Kracht	-964,04
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Kracht	-41,70
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Kracht	-1,83
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Kracht	141,93
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Kracht	147,92
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Kracht	125,90
low max Wnd ;135°_1P2_Z	1P2	low max Wnd ;135°	GCS	Z	Kracht	790,32
low max Wnd ;135°_1X2_X	1X2	low max Wnd ;135°	GCS	X	Kracht	-75,75
low max Wnd ;135°_1X2_Y	1X2	low max Wnd ;135°	GCS	Y	Kracht	33,97
low max Wnd ;135°_1X2_Z	1X2	low max Wnd ;135°	GCS	Z	Kracht	-324,69
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Kracht	181,18
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Kracht	160,87
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Kracht	-964,04
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Kracht	-41,70
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Kracht	-1,83
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Kracht	141,93

6.1.8. Belastingsgevallen - low max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



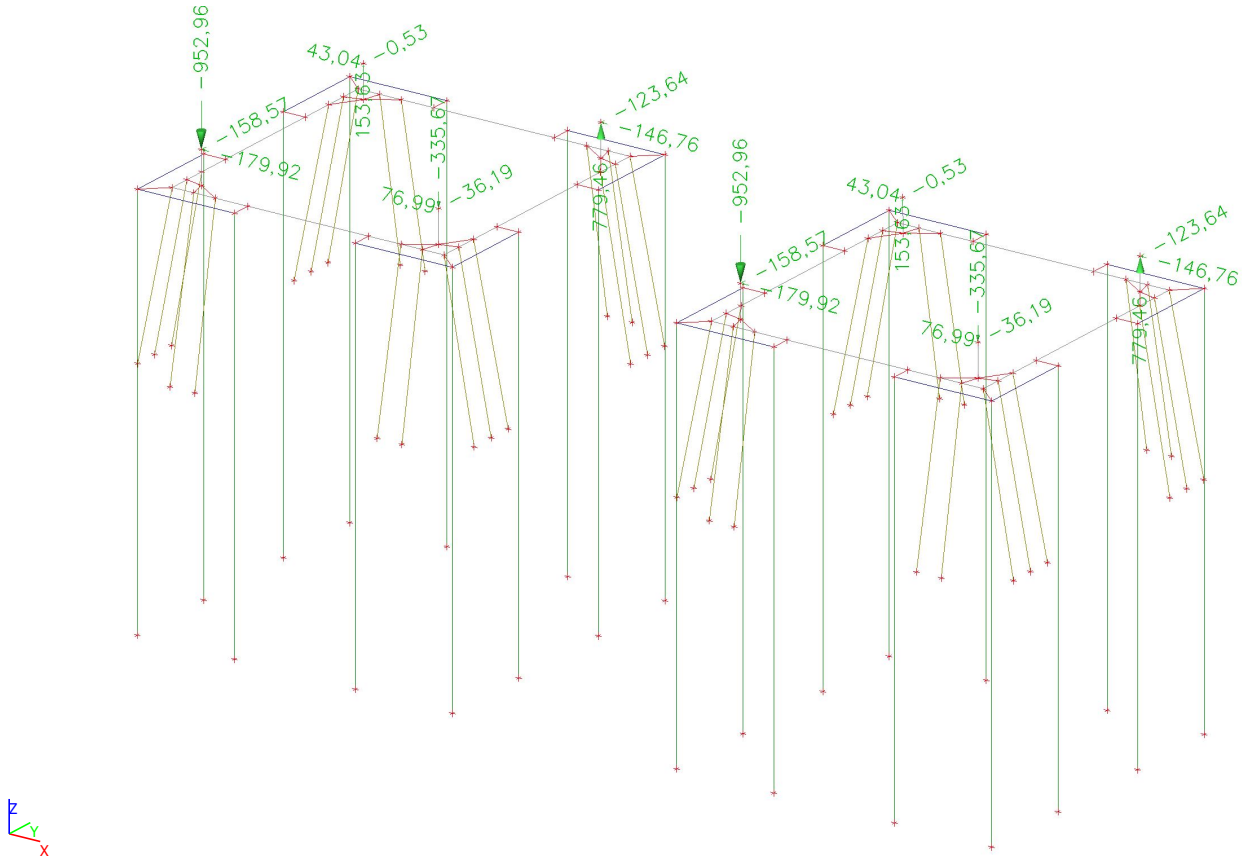
6.1.8.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Kracht	42,97
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Kracht	0,48
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Kracht	153,21
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Kracht	-179,92
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Kracht	158,64
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Kracht	-953,13
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Kracht	76,93
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Kracht	36,13
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Kracht	-335,26
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Kracht	-146,77
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Kracht	123,69
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Kracht	779,63
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Kracht	42,97
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Kracht	0,48
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Kracht	153,21

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X2_X	1X2	low max Wnd ;45°	GCS	X	Kracht	-179,92
low max Wnd ;45°_1X2_Y	1X2	low max Wnd ;45°	GCS	Y	Kracht	158,64
low max Wnd ;45°_1X2_Z	1X2	low max Wnd ;45°	GCS	Z	Kracht	-953,13
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Kracht	76,93
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Kracht	36,13
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Kracht	-335,26
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Kracht	-146,77
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Kracht	123,69
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Kracht	779,63

6.1.9. Belastingsgevallen - low max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;315°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



6.1.9.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Kracht	-179,92
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Kracht	-158,57
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Kracht	-952,96
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Kracht	43,04
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Kracht	-0,53
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Kracht	153,63
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Kracht	-146,76
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Kracht	-123,64
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Kracht	779,46
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Kracht	76,99
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Kracht	-36,19
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Kracht	-335,67
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Kracht	-179,92
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Kracht	-158,57
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Kracht	-952,96
low max Wnd ;315°_1X2_X	1X2	low max Wnd ;315°	GCS	X	Kracht	43,04
low max Wnd ;315°_1X2_Y	1X2	low max Wnd ;315°	GCS	Y	Kracht	-0,53
low max Wnd ;315°_1X2_Z	1X2	low max Wnd ;315°	GCS	Z	Kracht	153,63
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Kracht	-146,76
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Kracht	-123,64
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Kracht	779,46
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Kracht	76,99
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Kracht	-36,19
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Kracht	-335,67

6.2. Niet-lineaire combinaties

Naam	Type	Belastingsgevallen	Coëff. [-]
high max Wnd ;225°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;225°	1,00
high max Wnd ;135°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;135°	1,00
high max Wnd ;45°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;45°	1,00
high max Wnd ;315°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;315°	1,00
low max Wnd ;45°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;45°	1,00
low max Wnd ;135°	Uiterste Grenstoestand	E.G.	0,90

Naam	Type	Belastingsgevallen	Coëff. [-]
		low max Wnd ;135°	1,00
low max Wnd ;315°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;315°	1,00
low max Wnd ;225°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;225°	1,00

6.3. Resultaatklassen

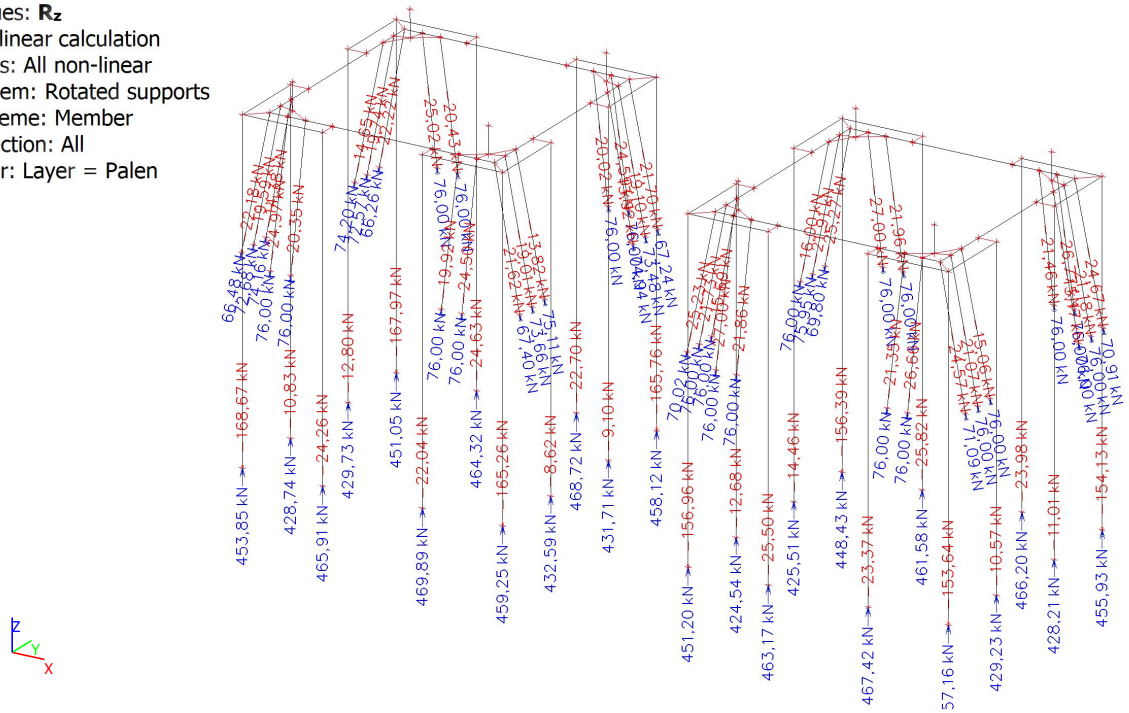
Naam	Lijst
All non-linear	high max Wnd ;225°
	high max Wnd ;135°
	high max Wnd ;45°
	high max Wnd ;315°
	low max Wnd ;45°
	low max Wnd ;135°
	low max Wnd ;315°
	low max Wnd ;225°

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = Funderingspaal - Rectangle (320; 320)
Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn81/N198	low max Wnd ;135°	0,00	0,00	**-27,00**	0,00	0,00	0,00	0,0	0,0
Sn24/N47	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = LEKA Paal - type e (CHS219.1/10.0)
Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn106/N247	low max Wnd ;135°	0,00	0,00	**-168,67**	0,00	0,00	0,00	0,0	0,0
Sn46/N77	high max Wnd ;225°	**0,00**	**0,00**	**469,89**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Element
Selectie: Alle
Filter: Laag = Palen

Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn21/N44	low max Wnd ;135°	0,00	0,00	**-22,18**	0,00	0,00	0,00	0,0	0,0
Sn21/N44	high max Wnd ;315°	**0,00**	**0,00**	**66,48**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn22/N45	low max Wnd ;135°	0,00	0,00	**-19,59**	0,00	0,00	0,00	0,0	0,0
Sn22/N45	high max Wnd ;315°	**0,00**	**0,00**	**72,68**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn23/N46	low max Wnd ;135°	0,00	0,00	**-14,38**	0,00	0,00	0,00	0,0	0,0
Sn23/N46	high max Wnd ;315°	**0,00**	**0,00**	**74,16**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn24/N47	low max Wnd ;135°	0,00	0,00	**-24,97**	0,00	0,00	0,00	0,0	0,0
Sn24/N47	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn26/N48	low max Wnd ;135°	0,00	0,00	**-20,35**	0,00	0,00	0,00	0,0	0,0
Sn26/N48	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn27/N49	low max Wnd ;45°	**0,00**	**0,00**	**-21,62**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn27/N49	high max Wnd ;225°	0,00	0,00	**67,40**	0,00	0,00	**0,00**	0,0	0,0
Sn28/N50	low max Wnd ;45°	**0,00**	**0,00**	**-19,01**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn28/N50	high max Wnd ;225°	0,00	0,00	**73,66**	0,00	0,00	**0,00**	0,0	0,0
Sn29/N51	low max Wnd ;45°	**0,00**	**0,00**	**-13,82**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn29/N51	high max Wnd ;225°	0,00	0,00	**75,11**	0,00	0,00	**0,00**	0,0	0,0
Sn30/N52	low max Wnd ;45°	**0,00**	**0,00**	**-24,50**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn30/N52	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn31/N53	low max Wnd ;45°	**0,00**	**0,00**	**-19,92**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn31/N53	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn32/N10	low max Wnd ;315°	0,00	0,00	**-21,70**	0,00	0,00	0,00	0,0	0,0
Sn32/N10	high max Wnd ;135°	**0,00**	**0,00**	**67,24**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn33/N11	low max Wnd ;315°	0,00	0,00	**-19,10**	0,00	0,00	0,00	0,0	0,0
Sn33/N11	high max Wnd ;135°	**0,00**	**0,00**	**73,48**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn34/N12	low max Wnd ;315°	0,00	0,00	**-13,92**	0,00	0,00	0,00	0,0	0,0
Sn34/N12	high max Wnd ;135°	**0,00**	**0,00**	**74,94**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn35/N13	low max Wnd ;315°	0,00	0,00	**-24,59**	0,00	0,00	0,00	0,0	0,0
Sn35/N13	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn36/N14	low max	0,00	0,00	**-20,02**	0,00	0,00	0,00	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								
Sn36/N14	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn37/N15	low max Wnd ;225°	0,00	0,00	**-25,02**	0,00	0,00	0,00	0,0	0,0
Sn37/N15	high max Wnd ;45°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn38/N2	low max Wnd ;225°	0,00	0,00	**-20,43**	0,00	0,00	0,00	0,0	0,0
Sn38/N2	high max Wnd ;45°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn39/N3	low max Wnd ;225°	0,00	0,00	**-22,22**	0,00	0,00	0,00	0,0	0,0
Sn39/N3	high max Wnd ;45°	**0,00**	**0,00**	**66,26**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn40/N4	low max Wnd ;225°	0,00	0,00	**-19,74**	0,00	0,00	0,00	0,0	0,0
Sn40/N4	high max Wnd ;45°	**0,00**	**0,00**	**72,57**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn41/N54	low max Wnd ;225°	0,00	0,00	**-14,65**	0,00	0,00	0,00	0,0	0,0
Sn41/N54	high max Wnd ;45°	**0,00**	**0,00**	**74,20**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn42/N60	low max Wnd ;225°	0,00	0,00	**-24,63**	0,00	0,00	0,00	0,0	0,0
Sn42/N60	high max Wnd ;45°	**0,00**	**0,00**	**464,32**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn43/N61	low max Wnd ;225°	0,00	0,00	**-12,80**	0,00	0,00	0,00	0,0	0,0
Sn43/N61	high max Wnd ;45°	**0,00**	**0,00**	**429,73**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn44/N70	low max Wnd ;315°	0,00	0,00	**-22,70**	0,00	0,00	0,00	0,0	0,0
Sn44/N70	high max Wnd ;135°	**0,00**	**0,00**	**468,72**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn45/N72	low max Wnd ;315°	0,00	0,00	**-9,10**	0,00	0,00	0,00	0,0	0,0
Sn45/N72	high max Wnd ;135°	**0,00**	**0,00**	**431,71**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn46/N77	low max Wnd ;45°	**0,00**	**0,00**	**-22,04**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn46/N77	high max Wnd ;225°	0,00	0,00	**469,89**	0,00	0,00	**0,00**	0,0	0,0
Sn47/N79	low max Wnd ;45°	**0,00**	**0,00**	**-8,62**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn47/N79	high max Wnd ;225°	0,00	0,00	**432,59**	0,00	0,00	**0,00**	0,0	0,0
Sn48/N82	low max Wnd ;135°	0,00	0,00	**-24,26**	0,00	0,00	0,00	0,0	0,0
Sn48/N82	high max Wnd ;315°	**0,00**	**0,00**	**465,91**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn49/N84	low max Wnd ;135°	0,00	0,00	**-10,83**	0,00	0,00	0,00	0,0	0,0
Sn49/N84	high max Wnd ;315°	**0,00**	**0,00**	**428,74**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn78/N195	low max Wnd ;135°	0,00	0,00	**-25,23**	0,00	0,00	0,00	0,0	0,0
Sn78/N195	high max Wnd ;315°	**0,00**	**0,00**	**70,02**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn79/N196	low max Wnd ;135°	0,00	0,00	**-21,73**	0,00	0,00	0,00	0,0	0,0
Sn79/N196	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn80/N197	low max Wnd ;135°	0,00	0,00	**-15,69**	0,00	0,00	0,00	0,0	0,0
Sn80/N197	high max	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								
Sn81/N198	low max Wnd ;135°	0,00	0,00	**-27,00**	0,00	0,00	0,00	0,0	0,0
Sn81/N198	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn82/N199	low max Wnd ;135°	0,00	0,00	**-21,86**	0,00	0,00	0,00	0,0	0,0
Sn82/N199	high max Wnd ;315°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn83/N200	low max Wnd ;45°	**0,00**	**0,00**	**-24,57**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn83/N200	high max Wnd ;225°	0,00	0,00	**71,09**	0,00	0,00	**0,00**	0,0	0,0
Sn84/N201	low max Wnd ;45°	**0,00**	**0,00**	**-21,07**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn84/N201	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn85/N202	low max Wnd ;45°	**0,00**	**0,00**	**-15,06**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn85/N202	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn86/N203	low max Wnd ;45°	**0,00**	**0,00**	**-26,66**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn86/N203	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn87/N204	low max Wnd ;45°	**0,00**	**0,00**	**-21,35**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn87/N204	high max Wnd ;225°	0,00	0,00	**76,00**	0,00	0,00	**0,00**	0,0	0,0
Sn88/N205	low max Wnd ;315°	0,00	0,00	**-24,67**	0,00	0,00	0,00	0,0	0,0
Sn88/N205	high max Wnd ;135°	**0,00**	**0,00**	**70,91**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn89/N206	low max Wnd ;315°	0,00	0,00	**-21,18**	0,00	0,00	0,00	0,0	0,0
Sn89/N206	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn90/N207	low max Wnd ;315°	0,00	0,00	**-15,17**	0,00	0,00	0,00	0,0	0,0
Sn90/N207	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn91/N208	low max Wnd ;315°	0,00	0,00	**-26,77**	0,00	0,00	0,00	0,0	0,0
Sn91/N208	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn92/N209	low max Wnd ;315°	0,00	0,00	**-21,46**	0,00	0,00	0,00	0,0	0,0
Sn92/N209	high max Wnd ;135°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn93/N210	low max Wnd ;225°	0,00	0,00	**-27,00**	0,00	0,00	0,00	0,0	0,0
Sn93/N210	high max Wnd ;45°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn94/N211	low max Wnd ;225°	0,00	0,00	**-21,96**	0,00	0,00	0,00	0,0	0,0
Sn94/N211	high max Wnd ;45°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn95/N212	low max Wnd ;225°	0,00	0,00	**-25,27**	0,00	0,00	0,00	0,0	0,0
Sn95/N212	high max Wnd ;45°	**0,00**	**0,00**	**69,80**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn96/N213	low max Wnd ;225°	0,00	0,00	**-21,91**	0,00	0,00	0,00	0,0	0,0
Sn96/N213	high max Wnd ;45°	**0,00**	**0,00**	**75,95**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn97/N214	low max	0,00	0,00	**-16,00**	0,00	0,00	0,00	0,0	0,0

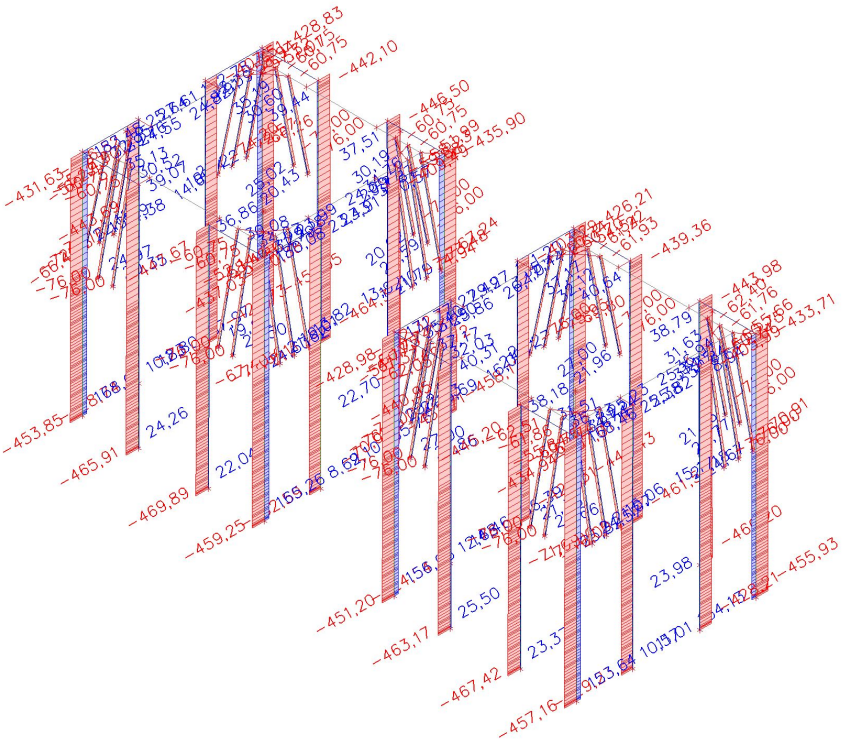
Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;225°								
Sn97/N214	high max Wnd ;45°	**0,00**	**0,00**	**76,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn98/N220	low max Wnd ;225°	0,00	0,00	**-25,82**	0,00	0,00	0,00	0,0	0,0
Sn98/N220	high max Wnd ;45°	**0,00**	**0,00**	**461,58**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn99/N221	low max Wnd ;225°	0,00	0,00	**-14,46**	0,00	0,00	0,00	0,0	0,0
Sn99/N221	high max Wnd ;45°	**0,00**	**0,00**	**425,51**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn100/N226	low max Wnd ;315°	0,00	0,00	**-23,98**	0,00	0,00	0,00	0,0	0,0
Sn100/N226	high max Wnd ;135°	**0,00**	**0,00**	**466,20**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn101/N228	low max Wnd ;315°	0,00	0,00	**-11,01**	0,00	0,00	0,00	0,0	0,0
Sn101/N228	high max Wnd ;135°	**0,00**	**0,00**	**428,21**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn102/N233	low max Wnd ;45°	**0,00**	**0,00**	**-23,37**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn102/N233	high max Wnd ;225°	0,00	0,00	**467,42**	0,00	0,00	**0,00**	0,0	0,0
Sn103/N235	low max Wnd ;45°	**0,00**	**0,00**	**-10,57**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn103/N235	high max Wnd ;225°	0,00	0,00	**429,23**	0,00	0,00	**0,00**	0,0	0,0
Sn104/N238	low max Wnd ;135°	0,00	0,00	**-25,50**	0,00	0,00	0,00	0,0	0,0
Sn104/N238	high max Wnd ;315°	**0,00**	**0,00**	**463,17**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn105/N240	low max Wnd ;135°	0,00	0,00	**-12,68**	0,00	0,00	0,00	0,0	0,0
Sn105/N240	high max Wnd ;315°	**0,00**	**0,00**	**424,54**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn106/N247	low max Wnd ;135°	0,00	0,00	**-168,67**	0,00	0,00	0,00	0,0	0,0
Sn106/N247	high max Wnd ;315°	**0,00**	**0,00**	**453,85**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn107/N248	low max Wnd ;45°	**0,00**	**0,00**	**-165,26**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn107/N248	high max Wnd ;225°	0,00	0,00	**459,25**	0,00	0,00	**0,00**	0,0	0,0
Sn108/N249	low max Wnd ;135°	0,00	0,00	**-156,96**	0,00	0,00	0,00	0,0	0,0
Sn108/N249	high max Wnd ;315°	**0,00**	**0,00**	**451,20**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn109/N250	low max Wnd ;45°	**0,00**	**0,00**	**-153,64**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn109/N250	high max Wnd ;225°	0,00	0,00	**457,16**	0,00	0,00	**0,00**	0,0	0,0
Sn110/N251	low max Wnd ;315°	0,00	0,00	**-154,13**	0,00	0,00	0,00	0,0	0,0
Sn110/N251	high max Wnd ;135°	**0,00**	**0,00**	**455,93**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn111/N252	low max Wnd ;225°	0,00	0,00	**-156,39**	0,00	0,00	0,00	0,0	0,0
Sn111/N252	high max Wnd ;45°	**0,00**	**0,00**	**448,43**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn112/N253	low max Wnd ;315°	0,00	0,00	**-165,76**	0,00	0,00	0,00	0,0	0,0
Sn112/N253	high max Wnd ;135°	**0,00**	**0,00**	**458,12**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn113/N254	low max Wnd ;225°	0,00	0,00	**-167,97**	0,00	0,00	0,00	0,0	0,0
Sn113/N254	high max	**0,00**	**0,00**	**451,05**	**0,00**	**0,00**	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;45°								

7.2. Krachten van de Funderingspalen

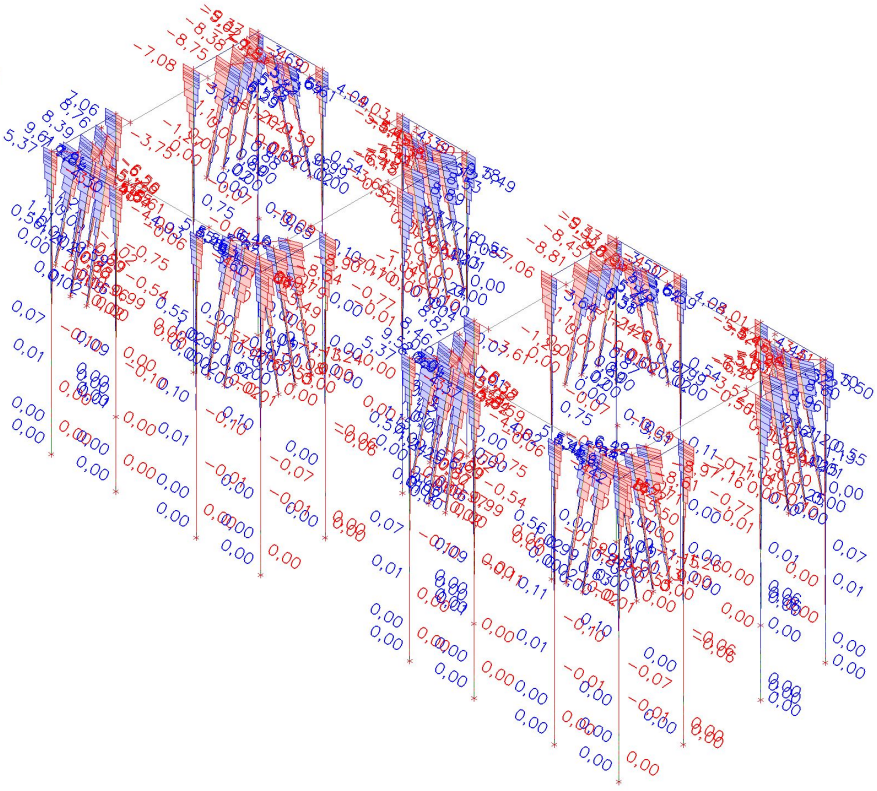
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



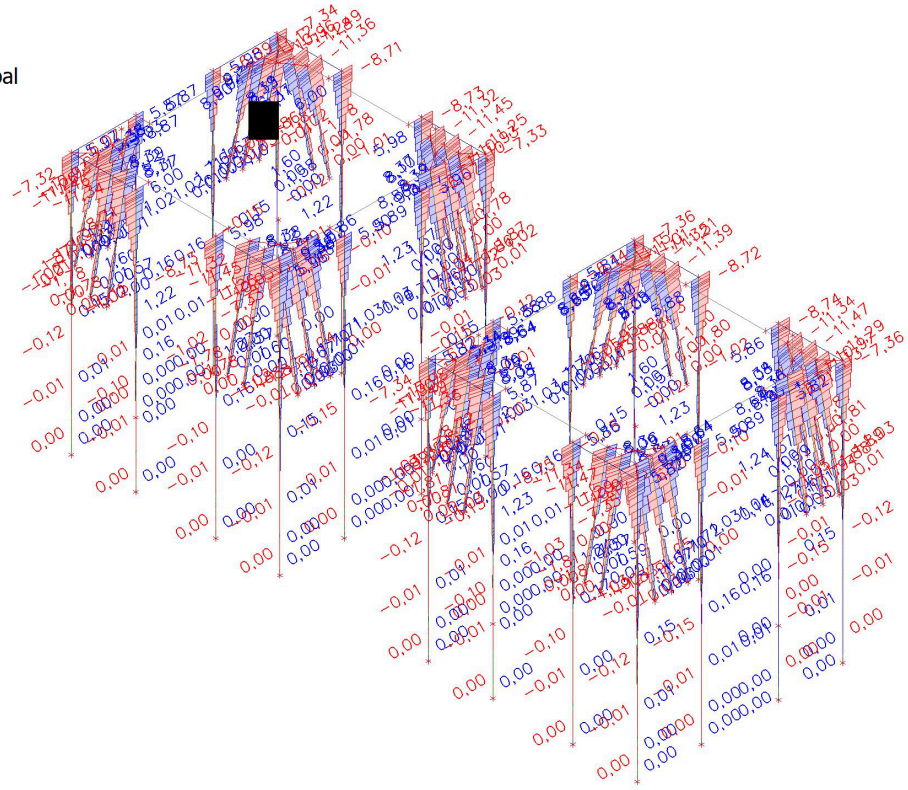
7.2.2. Interne 1D- krachten; V_y

Values: V_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



7.2.3. Interne 1D- krachten; V_z

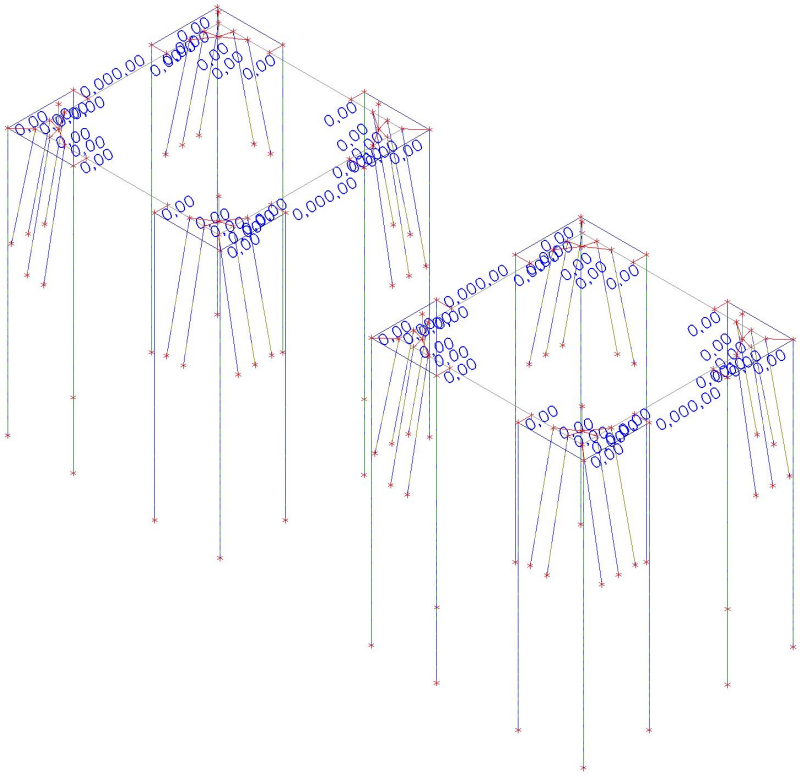
Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





7.2.4. Interne 1D- krachten; M_x

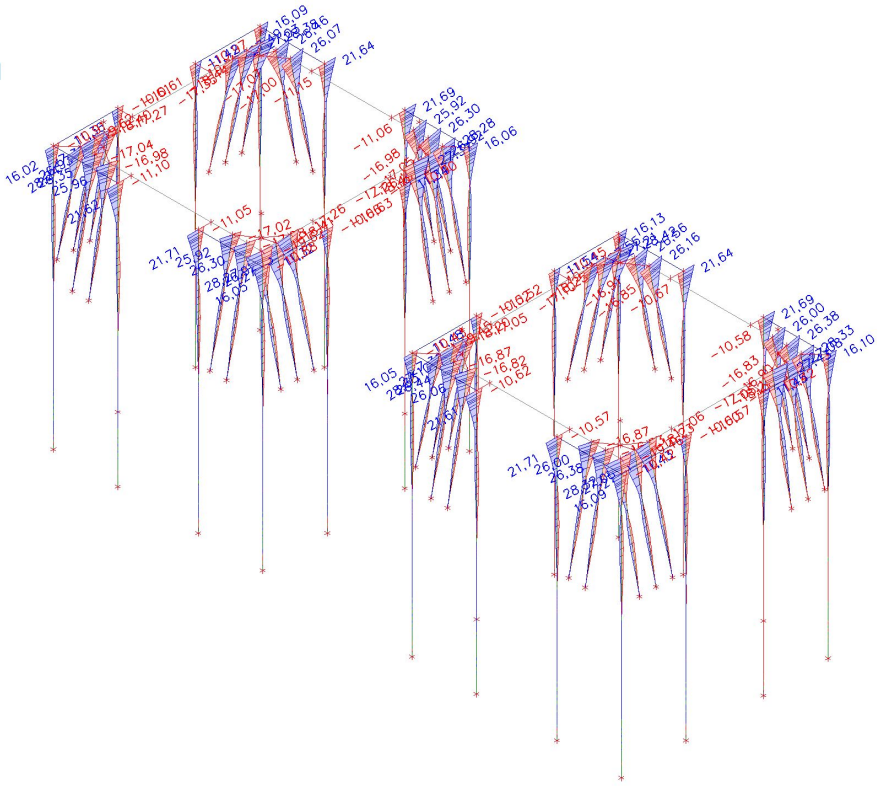
Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





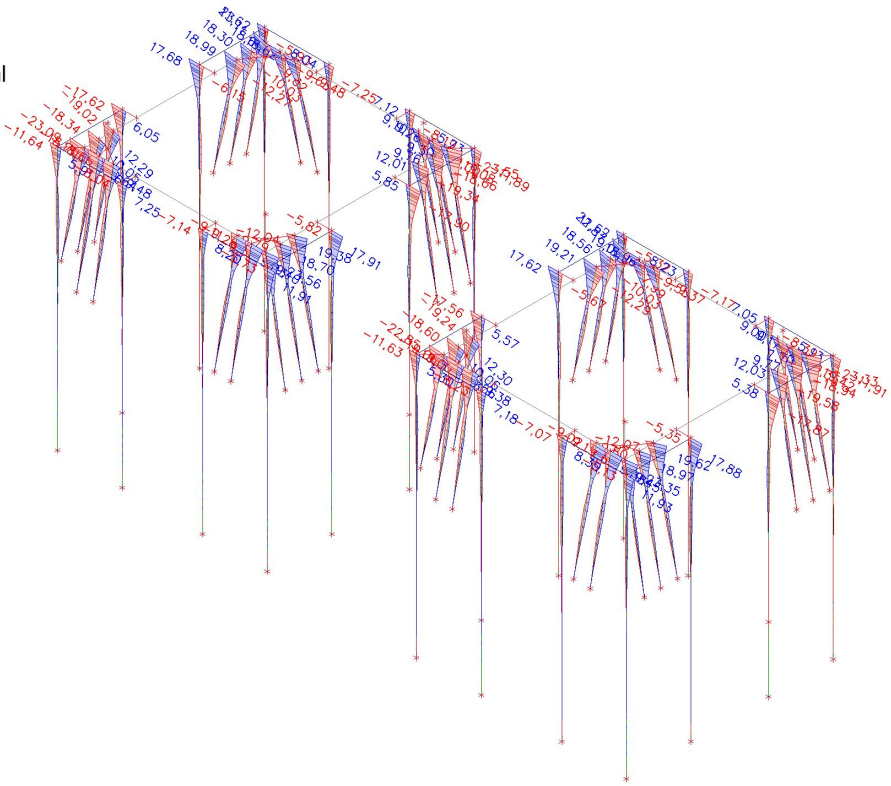
7.2.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Funderingspaal - Rectangle (320; 320)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_P_4	7,647	high max Wnd ;315°	Funderingspaal - Rectangle (320; 320)	**-76,00**	-0,02	0,00	0,00	0,00	0,00
Paal_P_61	0,000	low max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	**37,17**	-4,57	7,02	**0,00**	-12,81	5,64
Paal_P_7	0,000	high max Wnd ;225°	Funderingspaal - Rectangle (320; 320)	-52,14	**-9,79**	-11,17	0,00	28,27	**23,56**
Paal_P_73	0,000	high max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	-39,89	5,03	**-11,51**	0,00	26,56	-7,47
Paal_P_19	0,800-	low max Wnd ;315°	Funderingspaal - Rectangle (320; 320)	-3,71	-6,91	**9,38**	0,00	-12,15	9,41
Paal_P_19	0,000	low max Wnd ;315°	Funderingspaal - Rectangle (320; 320)	-2,65	-7,12	9,38	0,00	**-19,66**	15,02
Paal_P_75	0,000	high max Wnd ;45°	Funderingspaal - Rectangle (320; 320)	-54,54	-9,53	-11,22	0,00	**28,42**	22,87
Paal_P_12	0,000	high max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	-51,99	**9,78**	-11,17	0,00	28,28	**-23,55**

7.2.8. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = LEKA Paal - type e (CHS219.1/10.0)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_P_26	18,300	high max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	**-469,89**	0,00	0,00	0,00	0,00	0,00
Paal_P_86	0,000	low max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	**183,48**	-3,69	5,97	**0,00**	-10,91	5,91
Paal_P_27	0,000	high max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	-410,38	**-7,17**	-5,57	0,00	9,41	**17,91**
Paal_P_82	0,000	high max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	-445,20	-3,16	**-8,75**	0,00	**21,71**	4,25
Paal_P_22	0,000	low max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	39,44	2,68	**6,00**	0,00	**-11,15**	-2,80
Paal_P_25	0,000	high max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	-409,49	**7,17**	-5,58	0,00	9,45	**-17,90**

7.3. Krachten van de Poeren

7.3.1. Interne 1D-krachten

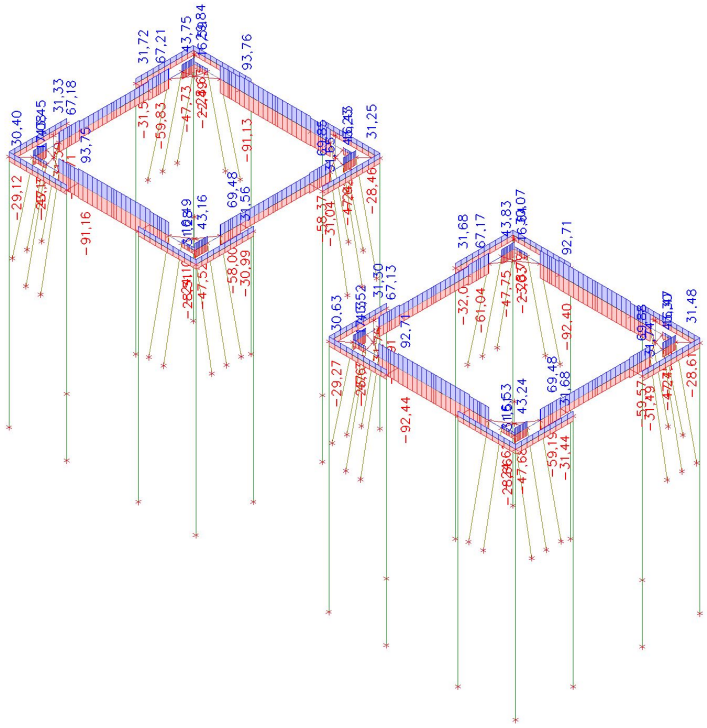
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Laag = Poeren

Naam	dx [m]	Belasting	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer 5	0,000	high max Wnd ;225°	**-1028,57**	**250,68**	14,17	1,53	-20,90	-260,73
Poer 8	1,475	low max Wnd ;225°	**791,82**	188,77	20,52	-0,25	0,00	9,50
Poer 7	0,000	high max Wnd ;315°	-1012,31	**-247,00**	15,20	-1,64	-22,41	**257,05**
Poer 8	0,000	high max Wnd ;135°	-380,35	-82,79	**-32,10**	**3,46**	**47,21**	82,95
Poer 5	0,000	high max Wnd ;135°	78,84	-19,57	-31,09	**-3,36**	45,86	18,29
Poer 6	0,000	high max Wnd ;225°	82,30	-19,54	**31,13**	3,36	**-45,92**	18,16
Poer 6	0,000	high max Wnd ;135°	-1024,60	250,59	-14,16	-1,53	20,89	**-260,73**

7.4. Krachten van de Funderingsbalken

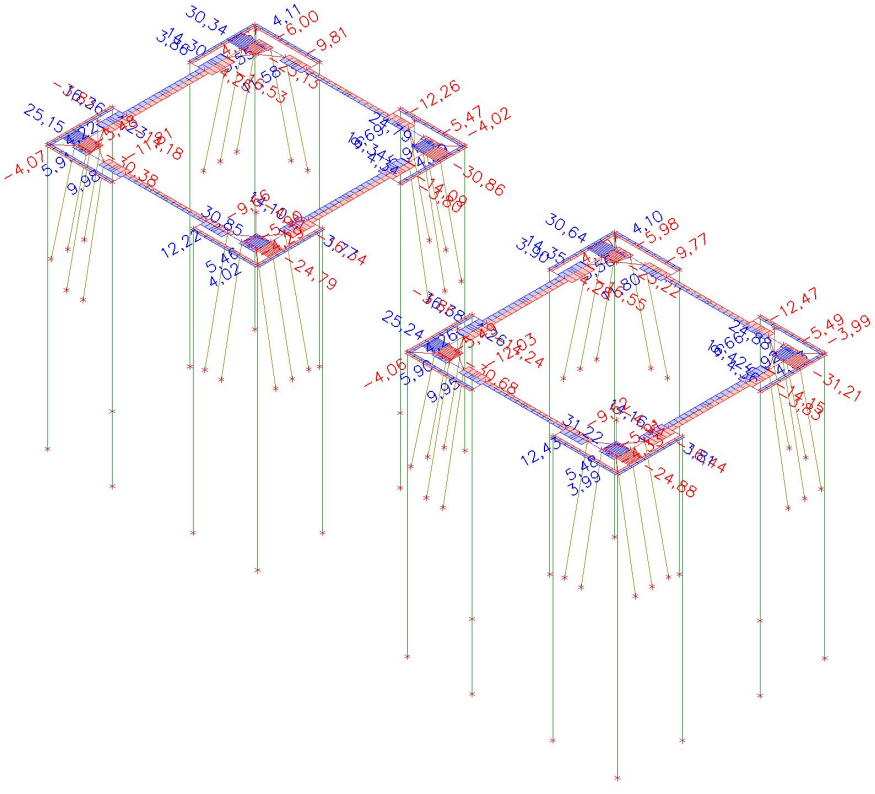
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



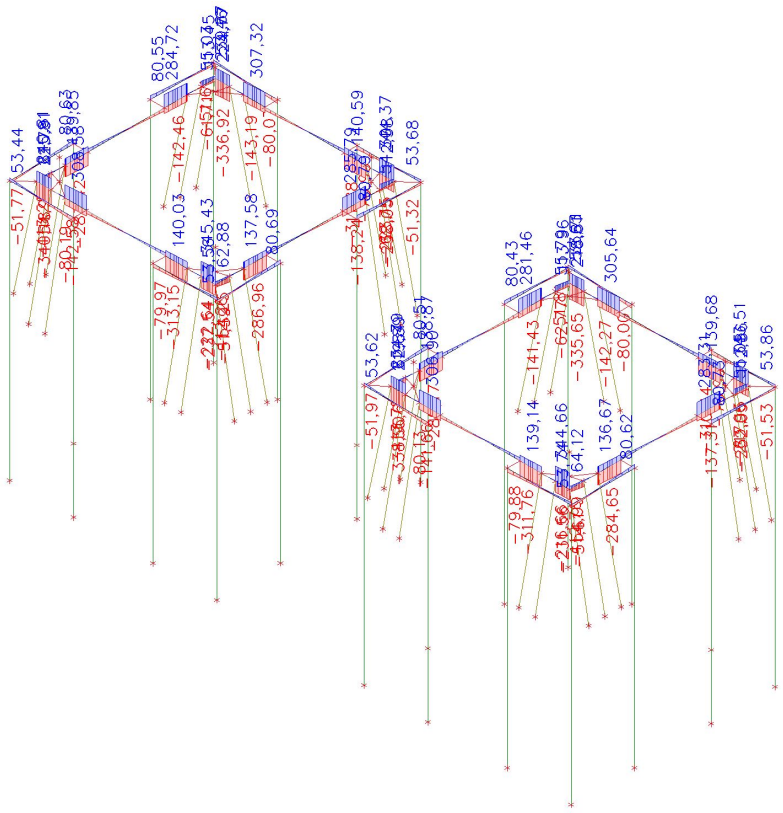
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



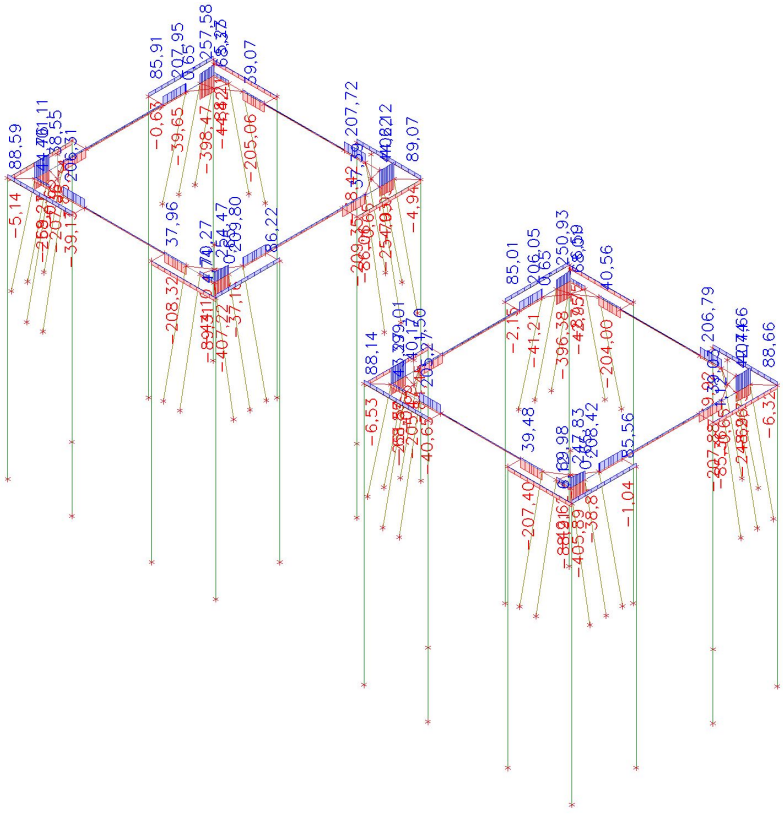
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



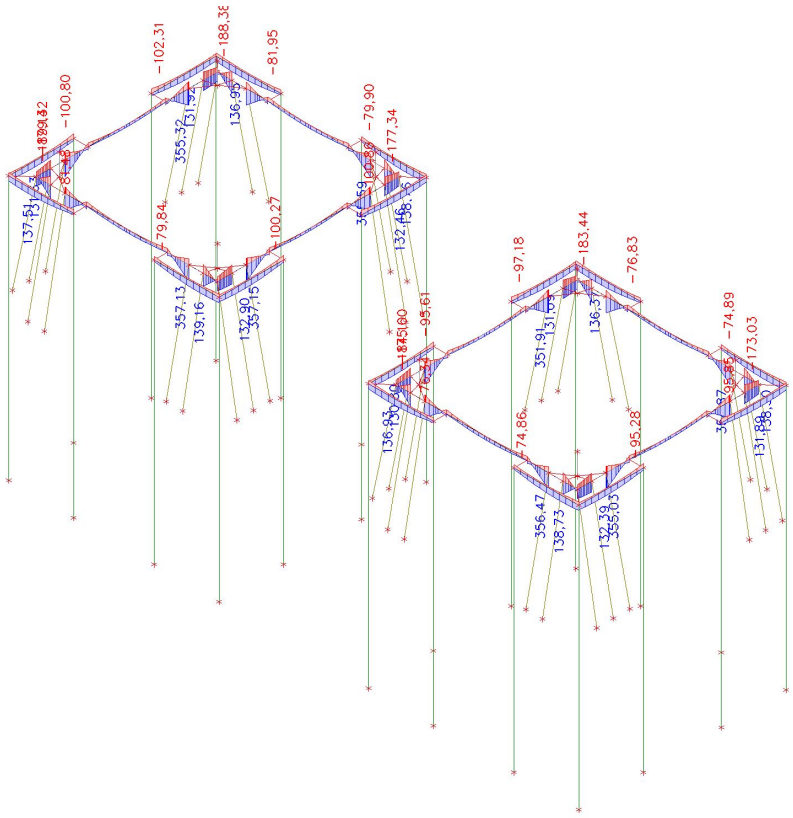
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



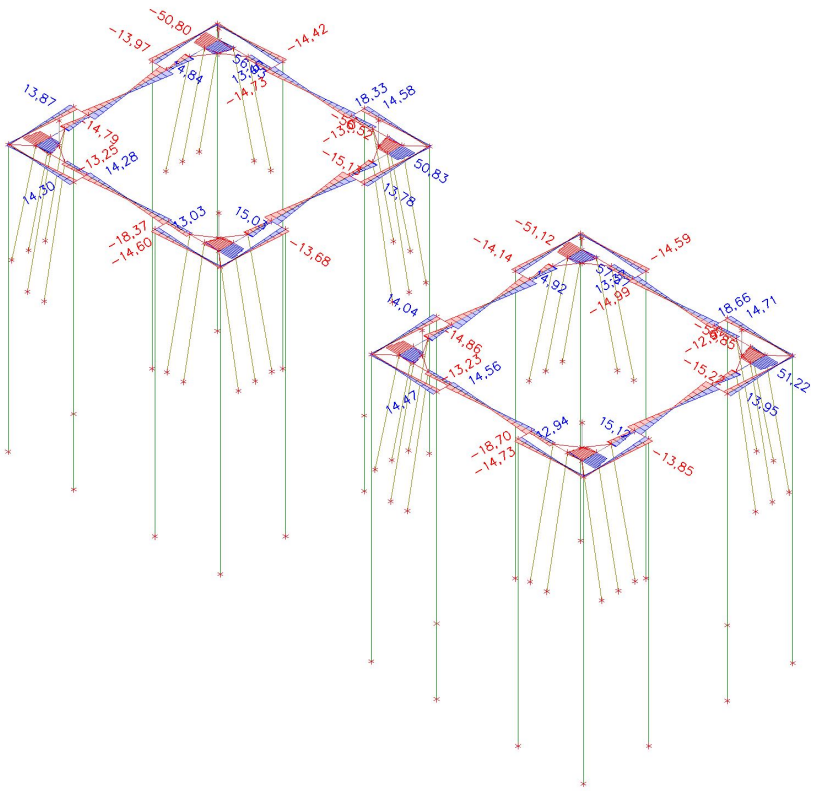
7.4.5. Interne 1D- krachten; M_y

Values: **M_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: **M_z**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Balk - Rectangle (750; 900)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Balk 15	3,500+	high max Wnd ;45°	Balk - Rectangle (750; 900)	**-92,44**	-4,76	63,56	-11,57	-16,39	9,76
Balk 4	3,500+	low max Wnd ;135°	Balk - Rectangle (750; 900)	**93,76**	-4,46	38,42	-14,59	-53,36	11,10
Balk 13	11,600+	high max Wnd ;135°	Balk - Rectangle (750; 900)	-47,75	**-31,21**	-5,00	395,51	229,31	-6,35
Balk 13	0,000	high max Wnd ;225°	Balk - Rectangle (750; 900)	-47,68	**31,22**	64,12	-405,89	197,22	-53,43
Balk 7	12,600	high max Wnd ;315°	Balk - Rectangle (750; 900)	-23,13	5,91	**-340,18**	-69,21	-51,73	1,35
Balk 7	0,000	high max Wnd ;225°	Balk - Rectangle (750; 900)	-24,10	-5,90	**345,43**	70,27	-52,64	1,40
Balk 5	0,000	high max Wnd ;225°	Balk - Rectangle (750; 900)	-47,52	30,85	62,88	**-407,22**	198,77	-53,34
Balk 5	12,190+	high max Wnd ;135°	Balk - Rectangle (750; 900)	-47,62	-30,86	-35,72	**406,12**	218,28	-40,89
Balk 7	11,600+	low max Wnd ;135°	Balk - Rectangle (750; 900)	17,08	-5,48	240,81	44,76	**-189,14**	4,32
Balk 5	2,000+	high max Wnd ;225°	Balk - Rectangle (750; 900)	36,17	-16,34	-251,17	209,80	**357,15**	17,49
Balk 13	12,600	low max Wnd ;45°	Balk - Rectangle (750; 900)	-34,02	-8,49	-17,96	146,57	74,39	**-56,85**
Balk 14	12,600	low max Wnd ;135°	Balk - Rectangle (750; 900)	-33,83	8,07	-17,28	-142,49	72,07	**57,27**

7.4.8. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Ringbalk - Rectangle (750; 1000)

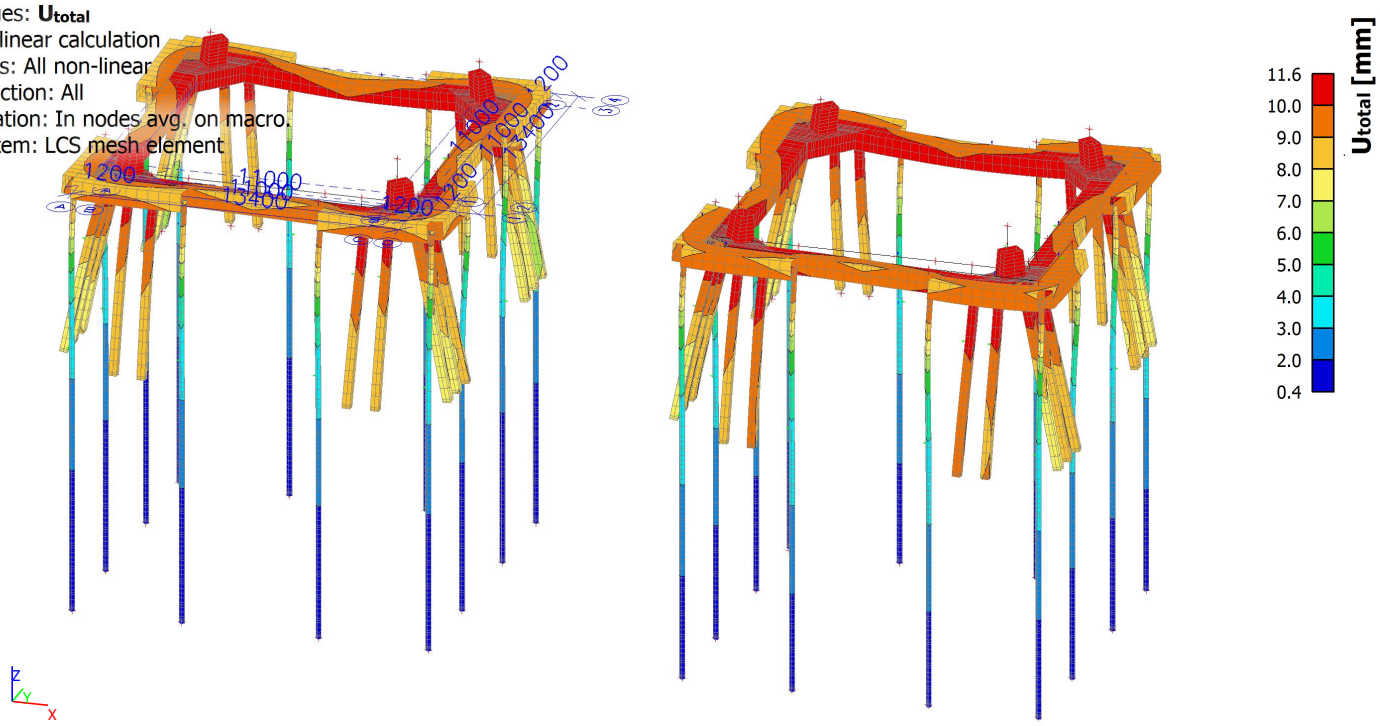
Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
S244	0,000	low max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	**-32,02**	-1,18	43,66	-2,15	-83,15	5,28
S246	0,000	high max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	**31,74**	-0,52	69,30	-85,36	35,29	3,22
S248	0,000	high max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	-13,69	**-4,34**	80,62	51,71	-83,28	**15,12**
S233	4,500	high max	Ringbalk -	3,33	-4,07	**-80,19**	68,16	-44,96	-13,25

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
		Wnd ;225°	Rectangle (750; 1000)						
S230	0,000	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	-13,58	4,34	**80,79**	-52,18	-83,56	-15,13
S229	0,000	high max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	31,25	-1,46	35,91	**89,07**	112,91	3,90
S223	0,000	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	-30,37	-1,18	69,10	16,86	**-102,31**	5,10
S231	1,350	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	31,28	1,45	2,39	**-89,31**	**139,16**	-1,92
S246	0,000	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	-13,90	**4,36**	80,73	-51,57	-84,03	**-15,22**

7.5. Vervormingen

7.5.1. 3D displacement; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro.
System: LCS mesh element



7.5.2. 3D verplaatsing

Niet-lineaire berekening
Klasse: All non-linear
Selectie: Alle
Locatie: In knopen gem. bij macro. Systeem: LCS net element
Resultaten op 1D-element:
Extreme 1D: Element

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Balk 4	2,750	7	high max Wnd ;315°	2,8	6,2	-0,3	-0,7	0,8	0,0	**6,8**
Balk 4	3,500-	1	high max Wnd ;135°	-3,0	-7,2	-7,7	-1,8	-0,5	0,0	**11,0**
Balk 5	2,670-	7	high max Wnd ;45°	6,2	2,9	-0,3	-0,7	0,9	0,0	**6,9**
Balk 5	0,000	1	high max Wnd ;225°	-6,8	-3,5	-8,3	-0,8	0,6	0,0	**11,3**
Balk 6	8,280	1	low max Wnd ;225°	-6,2	-3,1	-0,4	0,3	-0,9	0,0	**6,9**
Balk 6	0,000	7	high max Wnd ;315°	-6,8	3,4	-8,2	0,8	0,6	0,0	**11,2**
Poer 5	0,000	5	low max Wnd ;135°	-1,2	2,3	-6,6	0,1	0,1	0,5	**7,1**
Poer 5	1,475	7	high max Wnd ;225°	-7,9	-7,2	2,3	0,0	0,0	-0,4	**11,0**
Poer 6	0,000	7	low max Wnd ;225°	-1,2	2,3	6,6	-0,1	-0,1	0,5	**7,1**
Poer 6	1,475	5	high max Wnd ;135°	-7,9	-7,4	-2,3	0,0	0,0	-0,5	**11,1**
Paal_P_3	5,643-	7	low max Wnd ;45°	1,1	-0,1	0,2	0,1	0,9	-0,4	**1,2**
Paal_P_3	0,200-	5	high max Wnd ;315°	7,2	2,5	-6,3	0,1	0,3	0,6	**9,9**
Paal_P_2	5,643-	5	high max Wnd ;135°	-1,1	-0,1	0,1	0,2	0,8	0,2	**1,2**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_2	0,000	5	high max Wnd ;315°	7,8	1,6	-6,6	0,1	0,3	0,3	**10,3**
Paal_P_1	5,643-	5	high max Wnd ;135°	-0,4	-0,2	0,1	0,2	0,9	0,2	**0,4**
Paal_P_1	0,000	5	high max Wnd ;315°	8,0	0,9	-6,8	0,1	0,3	0,3	**10,5**
Poer 7	0,000	3	low max Wnd ;45°	-1,1	-2,4	-6,6	-0,1	0,1	-0,5	**7,1**
Poer 7	1,475	1	high max Wnd ;315°	-7,8	7,1	2,4	0,0	0,0	0,4	**10,8**
Poer 8	0,000	1	low max Wnd ;315°	-1,1	-2,4	6,6	0,1	-0,1	-0,5	**7,1**
Poer 8	1,475	3	high max Wnd ;45°	-7,9	7,1	-2,3	0,0	-0,1	0,4	**10,9**
Balk 7	2,750	1	high max Wnd ;45°	2,8	-6,2	-0,3	0,7	0,8	0,0	**6,8**
Balk 7	3,500-	7	high max Wnd ;225°	-3,0	7,2	-7,7	1,8	-0,5	0,0	**11,0**
Paal_P_4	6,107	5	low max Wnd ;45°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_4	0,000	5	high max Wnd ;315°	8,5	3,0	-5,0	-0,1	0,3	0,3	**10,3**
Paal_P_6	6,107	7	low max Wnd ;45°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_6	0,000	5	high max Wnd ;315°	8,8	3,2	-4,9	-0,1	0,3	0,3	**10,6**
Paal_P_7	5,643-	1	low max Wnd ;135°	1,2	0,1	0,2	-0,1	0,9	0,4	**1,2**
Paal_P_7	0,200-	3	high max Wnd ;225°	7,3	-2,6	-6,3	-0,1	0,3	-0,6	**10,0**
Paal_P_8	5,643-	3	high max Wnd ;45°	-1,0	0,1	0,1	-0,2	0,8	-0,2	**1,1**
Paal_P_8	0,000	3	high max Wnd ;225°	7,9	-1,7	-6,6	-0,1	0,3	-0,3	**10,4**
Paal_P_9	5,643-	3	high max Wnd ;45°	-0,3	0,2	0,1	-0,2	0,8	-0,1	**0,3**
Paal_P_9	0,000	3	high max Wnd ;225°	8,1	-1,0	-6,9	-0,1	0,3	-0,3	**10,6**
Paal_P_10	6,107	7	low max Wnd ;135°	-0,1	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_10	0,000	3	high max Wnd ;225°	8,6	-3,1	-5,0	0,1	0,3	-0,3	**10,4**
Paal_P_11	6,107	1	low max Wnd ;135°	0,0	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_11	0,000	3	high max Wnd ;225°	8,9	-3,3	-4,9	0,1	0,3	-0,3	**10,7**
Paal_P_12	5,643-	7	low max Wnd ;225°	1,2	-0,1	0,2	0,1	0,9	-0,4	**1,2**
Paal_P_12	0,200-	5	high max Wnd ;135°	7,3	2,6	-6,3	0,1	0,3	0,6	**10,0**
Paal_P_13	5,643-	5	high max Wnd ;315°	-1,1	-0,1	0,1	0,2	0,8	0,2	**1,1**
Paal_P_13	0,000	5	high max Wnd ;135°	7,9	1,7	-6,6	0,1	0,3	0,3	**10,4**
Paal_P_14	5,643-	5	high max Wnd ;315°	-0,3	-0,2	0,1	0,2	0,8	0,1	**0,3**
Paal_P_14	0,000	5	high max Wnd ;135°	8,1	1,0	-6,9	0,1	0,3	0,3	**10,6**
Paal_P_15	6,107	5	low max Wnd ;225°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_15	0,000	5	high max Wnd ;135°	8,6	3,1	-5,0	-0,1	0,3	0,3	**10,4**
Paal_P_16	6,107	7	low max Wnd ;225°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_16	0,000	5	high max Wnd ;135°	8,8	3,3	-4,9	-0,1	0,3	0,3	**10,7**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_17	6,107	6	low max Wnd ;315°	0,0	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_17	0,000	3	high max Wnd ;45°	8,5	-3,0	-5,0	0,1	0,3	-0,3	**10,3**
Paal_P_18	6,107	1	low max Wnd ;315°	0,0	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_18	0,000	3	high max Wnd ;45°	8,8	-3,2	-4,9	0,1	0,3	-0,3	**10,5**
Paal_P_19	5,643-	1	low max Wnd ;315°	1,1	0,1	0,2	-0,1	0,9	0,4	**1,1**
Paal_P_19	0,200-	3	high max Wnd ;45°	7,2	-2,5	-6,3	-0,1	0,3	-0,6	**9,9**
Paal_P_20	5,643-	3	high max Wnd ;225°	-1,2	0,1	0,1	-0,2	0,8	-0,2	**1,2**
Paal_P_20	0,000	3	high max Wnd ;45°	7,8	-1,6	-6,6	-0,1	0,3	-0,3	**10,3**
Paal_P_21	5,643-	3	high max Wnd ;225°	-0,4	0,2	0,1	-0,2	0,9	-0,2	**0,4**
Paal_P_21	0,000	3	high max Wnd ;45°	8,0	-0,9	-6,8	-0,1	0,3	-0,3	**10,6**
S222	4,500	1	low max Wnd ;315°	-3,1	-6,0	-0,9	0,6	0,1	0,0	**6,8**
S222	2,700-	7	high max Wnd ;45°	-3,0	7,0	-6,6	1,3	-0,1	0,0	**10,1**
S223	0,000	1	high max Wnd ;225°	-6,2	-3,1	-0,4	0,6	-0,8	0,0	**7,0**
S223	2,250	7	high max Wnd ;45°	6,5	3,6	-6,4	1,3	0,1	0,0	**9,8**
Paal_P_22	18,300	5	high max Wnd ;225°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_22	0,600-	4	high max Wnd ;45°	5,2	-2,6	-7,1	0,0	0,4	0,7	**9,2**
Paal_P_23	18,300	7	low max Wnd ;225°	-0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_23	0,000	2	high max Wnd ;45°	5,1	-3,0	-6,5	0,0	-0,6	-1,9	**8,8**
S229	4,500	7	high max Wnd ;315°	2,8	6,2	-0,3	-0,6	0,7	0,0	**6,8**
S229	2,700-	1	high max Wnd ;135°	-3,1	-7,1	-6,7	-1,3	-0,2	0,0	**10,2**
Paal_P_24	18,300	5	high max Wnd ;315°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_24	0,600-	2	high max Wnd ;135°	5,2	2,8	-7,2	0,0	0,4	-0,8	**9,3**
S230	0,000	7	high max Wnd ;315°	-6,2	2,9	-0,4	-0,6	-0,8	0,0	**6,9**
S230	2,250	1	high max Wnd ;135°	6,5	-3,7	-6,5	-1,3	0,1	0,0	**9,9**
Paal_P_25	18,300	7	low max Wnd ;315°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_25	0,000	4	high max Wnd ;135°	5,1	3,2	-6,6	0,0	-0,6	1,9	**8,9**
S231	4,500	1	high max Wnd ;45°	2,8	-6,2	-0,3	0,6	0,7	0,0	**6,8**
S231	2,700-	7	high max Wnd ;225°	-3,1	7,0	-6,7	1,3	-0,2	0,0	**10,2**
Paal_P_26	18,300	5	high max Wnd ;45°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_26	0,600-	4	high max Wnd ;225°	5,3	-2,8	-7,2	0,0	0,4	0,8	**9,3**
S232	0,000	1	high max Wnd ;45°	-6,2	-2,9	-0,5	0,7	-0,8	0,0	**6,9**
S232	2,250	7	high max Wnd ;225°	6,5	3,7	-6,5	1,3	0,1	0,0	**9,9**
Paal_P_27	18,300	7	low max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_27	0,000	2	high max Wnd ;225°	5,1	-3,2	-6,5	0,0	-0,6	-1,9	**8,9**
S233	4,500	7	low max Wnd ;45°	-3,1	6,0	-0,9	-0,6	0,1	0,0	**6,8**
S233	2,700-	1	high max Wnd ;315°	-3,0	-7,0	-6,6	-1,3	-0,2	0,0	**10,1**
Paal_P_28	18,300	5	high max Wnd ;135°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_28	0,600-	2	high max Wnd ;315°	5,2	2,7	-7,2	0,0	0,4	-0,7	**9,2**
S234	0,000	7	high max Wnd ;135°	-6,2	3,0	-0,4	-0,6	-0,8	0,0	**7,0**
S234	2,250	1	high max Wnd ;315°	6,5	-3,6	-6,4	-1,3	0,1	0,0	**9,8**
Paal_P_29	18,300	7	low max Wnd ;135°	-0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_29	0,000	4	high max Wnd ;315°	5,1	3,0	-6,5	0,0	-0,6	1,9	**8,8**
Balk 12	2,750	7	high max Wnd ;315°	2,8	6,2	-0,3	-0,7	0,9	0,0	**6,8**
Balk 12	3,500-	1	high max Wnd ;135°	-3,0	-7,3	-8,1	-1,8	-0,5	0,0	**11,3**
Balk 13	4,320	7	low max Wnd ;45°	6,2	3,0	-0,5	-0,4	0,9	0,0	**6,9**
Balk 13	0,000	1	high max Wnd ;225°	-6,9	-3,5	-8,7	-0,8	0,6	0,0	**11,6**
Balk 14	8,280	1	low max Wnd ;225°	-6,2	-3,1	-0,4	0,4	-0,9	0,0	**6,9**
Balk 14	0,000	7	high max Wnd ;315°	-6,9	3,4	-8,6	0,8	0,6	0,0	**11,5**
Poer 13	0,000	5	low max Wnd ;135°	-1,3	2,3	-6,7	0,1	0,1	0,5	**7,2**
Poer 13	1,475	7	high max Wnd ;225°	-8,3	-7,3	2,4	0,0	0,0	-0,4	**11,3**
Poer 14	0,000	7	low max Wnd ;225°	-1,3	2,3	6,7	-0,1	-0,1	0,5	**7,2**
Poer 14	1,475	5	high max Wnd ;135°	-8,3	-7,5	-2,4	0,0	0,0	-0,5	**11,4**
Paal_P_58	5,643-	7	low max Wnd ;45°	1,2	-0,1	0,2	0,1	0,9	-0,4	**1,2**
Paal_P_58	0,200-	5	high max Wnd ;315°	7,6	2,4	-6,4	0,1	0,3	0,6	**10,2**
Paal_P_59	5,643-	5	high max Wnd ;135°	-1,3	-0,1	0,0	0,2	0,8	0,2	**1,3**
Paal_P_59	0,000	5	high max Wnd ;315°	8,2	1,5	-6,6	0,1	0,3	0,3	**10,7**
Paal_P_60	5,643-	5	high max Wnd ;135°	-0,4	-0,1	0,0	0,2	0,8	0,1	**0,4**
Paal_P_60	0,000	5	high max Wnd ;315°	8,3	0,8	-6,9	0,1	0,3	0,3	**10,9**
Poer 15	0,000	3	low max Wnd ;45°	-1,2	-2,4	-6,6	-0,1	0,1	-0,5	**7,1**
Poer 15	1,475	1	high max Wnd ;315°	-8,2	7,2	2,5	0,0	0,0	0,4	**11,2**
Poer 16	0,000	1	low max Wnd ;315°	-1,2	-2,4	6,6	0,1	-0,1	-0,5	**7,1**
Poer 16	1,475	3	high max Wnd ;45°	-8,3	7,2	-2,4	0,0	-0,1	0,4	**11,2**
Balk 15	2,750	1	high max Wnd ;45°	2,8	-6,2	-0,3	0,7	0,9	0,0	**6,8**
Balk 15	3,500-	7	high max Wnd ;225°	-3,0	7,3	-8,1	1,8	-0,5	0,0	**11,3**
Paal_P_61	6,107	1	low max Wnd ;45°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_61	0,000	5	high max Wnd ;315°	8,9	3,0	-5,0	-0,1	0,3	0,3	**10,7**

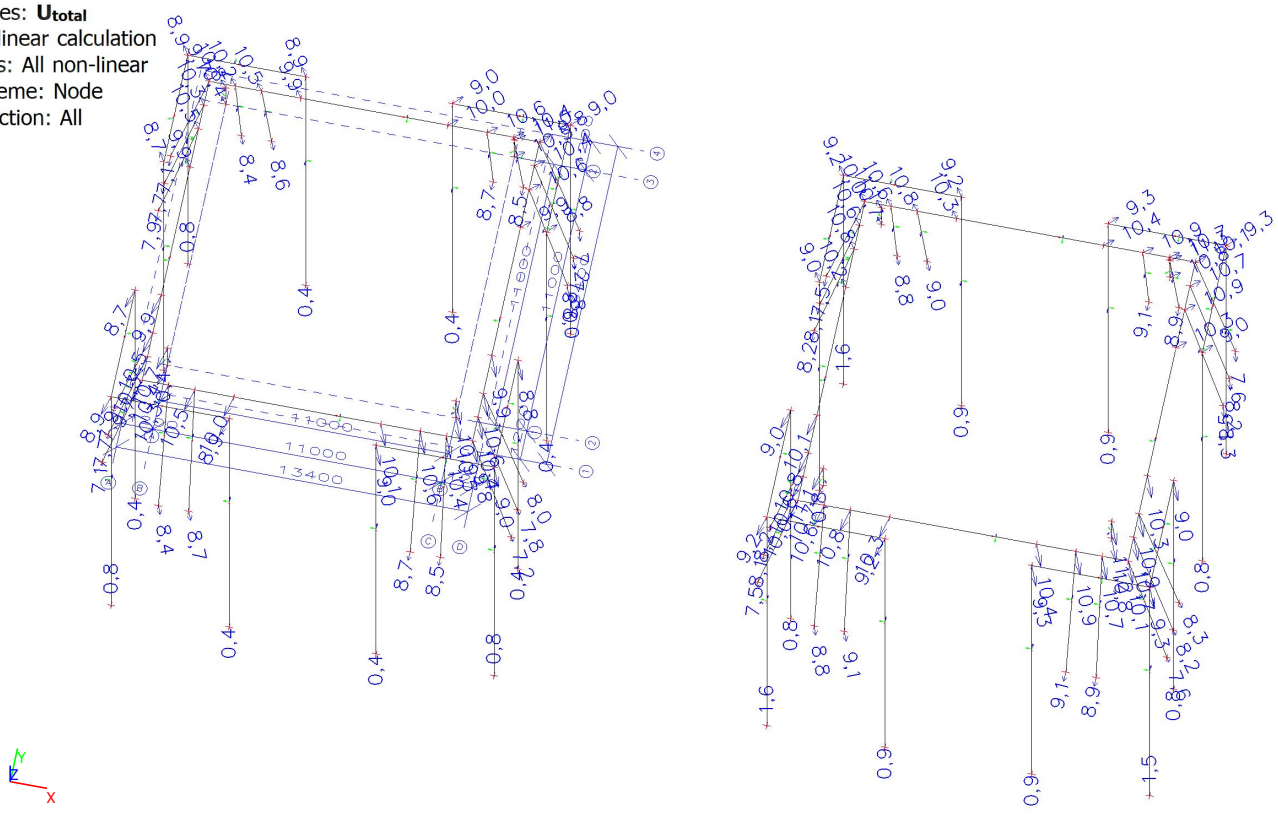
Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_62	6,107	7	low max Wnd ;45°	0,1	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_62	0,000	5	high max Wnd ;315°	9,2	3,2	-4,9	-0,1	0,3	0,3	**10,9**
Paal_P_63	5,643-	1	low max Wnd ;135°	1,3	0,1	0,2	-0,1	0,9	0,4	**1,3**
Paal_P_63	0,200-	3	high max Wnd ;225°	7,7	-2,5	-6,4	-0,1	0,3	-0,6	**10,3**
Paal_P_64	5,643-	3	high max Wnd ;45°	-1,2	0,1	0,0	-0,2	0,8	-0,2	**1,2**
Paal_P_64	0,000	3	high max Wnd ;225°	8,3	-1,6	-6,7	-0,1	0,3	-0,3	**10,8**
Paal_P_65	5,643-	3	high max Wnd ;45°	-0,3	0,1	0,0	-0,2	0,8	-0,1	**0,3**
Paal_P_65	0,000	3	high max Wnd ;225°	8,4	-0,9	-6,9	-0,1	0,3	-0,3	**11,0**
Paal_P_66	6,107	7	low max Wnd ;135°	0,0	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_66	0,000	3	high max Wnd ;225°	9,0	-3,2	-5,0	0,1	0,3	-0,3	**10,8**
Paal_P_67	6,107	1	low max Wnd ;135°	0,1	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_67	0,000	3	high max Wnd ;225°	9,3	-3,3	-4,9	0,1	0,3	-0,3	**11,0**
Paal_P_68	5,643-	7	low max Wnd ;225°	1,2	-0,1	0,2	0,1	0,9	-0,4	**1,3**
Paal_P_68	0,200-	5	high max Wnd ;135°	7,7	2,5	-6,4	0,1	0,3	0,6	**10,3**
Paal_P_69	5,643-	5	high max Wnd ;315°	-1,2	-0,1	0,0	0,2	0,8	0,2	**1,2**
Paal_P_69	0,000	5	high max Wnd ;135°	8,3	1,6	-6,7	0,1	0,3	0,3	**10,8**
Paal_P_70	5,643-	5	high max Wnd ;315°	-0,3	-0,1	0,0	0,2	0,8	0,1	**0,4**
Paal_P_70	0,000	5	high max Wnd ;135°	8,4	0,9	-7,0	0,1	0,3	0,3	**11,0**
Paal_P_71	6,107	1	low max Wnd ;225°	0,0	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_71	0,000	5	high max Wnd ;135°	9,0	3,2	-5,0	-0,1	0,3	0,3	**10,8**
Paal_P_72	6,107	7	low max Wnd ;225°	0,1	-0,1	0,0	0,0	0,8	-0,5	**0,1**
Paal_P_72	0,000	5	high max Wnd ;135°	9,2	3,3	-4,9	-0,1	0,3	0,3	**11,0**
Paal_P_73	6,107	7	low max Wnd ;315°	-0,1	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_73	0,000	3	high max Wnd ;45°	8,9	-3,0	-5,0	0,1	0,3	-0,3	**10,7**
Paal_P_74	6,107	1	low max Wnd ;315°	0,0	0,1	0,0	0,0	0,8	0,5	**0,1**
Paal_P_74	0,000	3	high max Wnd ;45°	9,2	-3,2	-4,9	0,1	0,3	-0,3	**10,9**
Paal_P_75	5,643-	1	low max Wnd ;315°	1,2	0,1	0,2	-0,1	0,9	0,4	**1,2**
Paal_P_75	0,200-	3	high max Wnd ;45°	7,6	-2,4	-6,4	-0,1	0,3	-0,6	**10,2**
Paal_P_76	5,643-	3	high max Wnd ;225°	-1,3	0,1	0,0	-0,2	0,8	-0,2	**1,3**
Paal_P_76	0,000	3	high max Wnd ;45°	8,2	-1,5	-6,7	-0,1	0,3	-0,3	**10,6**
Paal_P_77	5,643-	3	high max Wnd ;225°	-0,5	0,1	0,0	-0,2	0,8	-0,1	**0,5**
Paal_P_77	0,000	3	high max Wnd ;45°	8,3	-0,8	-6,9	-0,1	0,3	-0,3	**10,9**
S243	4,500	1	low max Wnd ;315°	-3,1	-6,0	-0,9	0,6	0,1	0,0	**6,8**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
S243	2,700-	7	high max Wnd ;45°	-3,0	7,1	-7,0	1,3	-0,1	0,0	**10,4**
S244	0,000	7	low max Wnd ;225°	-6,2	-3,2	0,2	0,3	-0,9	0,0	**7,0**
S244	2,250	7	high max Wnd ;45°	6,6	3,6	-6,8	1,3	0,1	0,0	**10,1**
Paal_P_78	18,300	8	high max Wnd ;225°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_78	0,600-	4	high max Wnd ;45°	5,6	-2,6	-7,2	0,0	0,4	0,7	**9,5**
Paal_P_79	18,300	5	high max Wnd ;225°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_79	0,000	2	high max Wnd ;45°	5,4	-3,0	-6,6	0,0	-0,6	-1,9	**9,1**
S245	4,500	7	high max Wnd ;315°	2,8	6,2	-0,3	-0,7	0,8	0,0	**6,8**
S245	2,700-	1	high max Wnd ;135°	-3,2	-7,1	-7,1	-1,3	-0,2	0,0	**10,5**
Paal_P_80	18,300	5	high max Wnd ;315°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_80	0,500	2	high max Wnd ;135°	5,7	2,9	-7,2	0,0	0,6	-0,7	**9,6**
S246	0,000	7	high max Wnd ;315°	-6,2	2,9	-0,4	-0,7	-0,9	0,0	**6,9**
S246	2,250	1	high max Wnd ;135°	6,6	-3,7	-6,9	-1,3	0,1	0,0	**10,2**
Paal_P_81	18,300	7	low max Wnd ;315°	-0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_81	0,000	4	high max Wnd ;135°	5,5	3,2	-6,6	0,0	-0,6	1,9	**9,2**
S247	4,500	1	high max Wnd ;45°	2,8	-6,2	-0,3	0,7	0,8	0,0	**6,8**
S247	2,700-	7	high max Wnd ;225°	-3,2	7,1	-7,1	1,3	-0,2	0,0	**10,5**
Paal_P_82	18,300	5	high max Wnd ;45°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_82	0,500	4	high max Wnd ;225°	5,7	-2,9	-7,2	0,0	0,6	0,7	**9,6**
S248	0,000	1	high max Wnd ;45°	-6,2	-2,9	-0,5	0,7	-0,9	0,0	**6,9**
S248	2,250	7	high max Wnd ;225°	6,6	3,7	-6,9	1,3	0,1	0,0	**10,2**
Paal_P_83	18,300	7	low max Wnd ;45°	-0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_83	0,000	2	high max Wnd ;225°	5,5	-3,2	-6,6	0,0	-0,6	-1,9	**9,2**
S249	4,500	7	low max Wnd ;45°	-3,1	6,0	-0,9	-0,7	0,1	0,0	**6,8**
S249	2,700-	1	high max Wnd ;315°	-3,0	-7,1	-7,0	-1,3	-0,1	0,0	**10,4**
Paal_P_84	18,300	6	high max Wnd ;135°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_84	0,600-	2	high max Wnd ;315°	5,6	2,7	-7,2	0,0	0,4	-0,7	**9,5**
S250	0,000	1	low max Wnd ;135°	-6,2	3,2	0,2	-0,3	-0,9	0,0	**7,0**
S250	2,250	1	high max Wnd ;315°	6,6	-3,6	-6,8	-1,3	0,1	0,0	**10,1**
Paal_P_85	18,300	7	low max Wnd ;135°	-0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_85	0,000	4	high max Wnd ;315°	5,4	3,0	-6,6	0,0	-0,6	1,8	**9,1**
Paal_P_86	18,300	5	low max Wnd ;45°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_86	0,200-	4	high max Wnd ;315°	5,2	3,2	-6,6	0,0	0,3	0,5	**9,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_87	18,300	5	low max Wnd ;135°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_87	0,200-	2	high max Wnd ;225°	5,2	-3,3	-6,6	0,0	0,3	-0,5	**9,1**
Paal_P_88	18,300	5	low max Wnd ;45°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_P_88	0,200-	4	high max Wnd ;315°	5,5	3,2	-6,7	0,0	0,2	0,5	**9,3**
Paal_P_89	18,300	5	low max Wnd ;135°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_P_89	0,200-	2	high max Wnd ;225°	5,6	-3,3	-6,7	0,0	0,2	-0,5	**9,4**
Paal_P_90	18,300	5	low max Wnd ;225°	0,1	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_P_90	0,200-	4	high max Wnd ;135°	5,6	3,3	-6,7	0,0	0,2	0,5	**9,4**
Paal_P_91	18,300	5	low max Wnd ;315°	0,1	0,0	0,0	-0,1	0,0	0,0	**0,1**
Paal_P_91	0,200-	2	high max Wnd ;45°	5,5	-3,2	-6,7	0,0	0,3	-0,5	**9,3**
Paal_P_92	18,300	5	low max Wnd ;225°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_92	0,200-	4	high max Wnd ;135°	5,2	3,3	-6,7	0,0	0,3	0,5	**9,1**
Paal_P_93	18,300	5	low max Wnd ;315°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_93	0,200-	2	high max Wnd ;45°	5,1	-3,2	-6,6	0,0	0,3	-0,5	**9,0**

7.5.3. Displacement of nodes; U_total

Values: **U_{total}**
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Verplaatsing van knopen

Niet-lineaire berekening
Klasse: All non-linear
Extreme: Knoop
Selectie: Alle

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N5	low max Wnd ;45°	**-3,1**	6,5	**1,9**	-0,6	-0,5	0,0	7,5
N5	high max Wnd ;225°	3,2	**-6,6**	**-7,3**	-0,3	-0,3	0,0	**10,4**
N5	high max Wnd ;45°	-3,1	**6,5**	0,7	**-0,7**	**-0,7**	0,0	7,3
N5	low max Wnd ;225°	**3,2**	-6,5	-6,2	**-0,1**	**-0,1**	0,0	9,5
N5	low max Wnd ;315°	-2,9	-6,4	-3,4	-0,2	-0,3	**0,0**	7,8
N5	high max Wnd ;135°	3,0	6,5	-2,4	-0,6	-0,4	**0,1**	7,6
N6	low max Wnd ;45°	**-3,2**	6,5	**1,3**	-0,6	-0,5	0,0	7,4
N6	high max Wnd ;225°	3,2	**-6,6**	**-7,6**	-0,3	-0,3	0,0	**10,6**
N6	high max Wnd ;45°	-3,1	**6,5**	0,0	**-0,7**	**-0,7**	0,0	7,2
N6	low max Wnd ;225°	**3,2**	-6,5	-6,4	**-0,1**	**-0,1**	0,0	9,6
N6	low max Wnd ;315°	-2,9	-6,4	-3,6	-0,2	-0,3	**0,0**	7,9
N6	high max Wnd ;135°	3,0	6,5	-3,0	-0,6	-0,4	**0,1**	7,7
N7	low max Wnd ;45°	**-3,1**	6,5	**1,9**	-0,6	-0,5	0,0	7,4
N7	high max Wnd ;225°	**3,2**	**-6,6**	**-7,4**	-0,3	-0,3	0,0	**10,4**
N7	high max Wnd ;45°	-3,1	**6,5**	0,7	**-0,7**	**-0,7**	0,0	7,2
N7	low max Wnd ;225°	3,2	-6,5	-6,2	**-0,1**	**-0,1**	0,0	9,5
N7	low max Wnd ;315°	-3,0	-6,4	-3,5	-0,2	-0,3	**0,0**	7,9
N7	high max Wnd ;135°	3,1	6,4	-2,3	-0,6	-0,4	**0,1**	7,5
N1	low max Wnd ;45°	**-3,1**	6,5	**1,4**	-0,6	-0,5	0,0	7,3
N1	high max Wnd ;225°	**3,2**	**-6,6**	**-7,7**	-0,3	-0,3	0,0	**10,6**
N1	high max Wnd ;45°	-3,1	**6,5**	0,0	**-0,7**	**-0,7**	0,0	7,2
N1	low max Wnd ;225°	3,2	-6,5	-6,4	**-0,1**	**-0,1**	0,0	9,6
N1	low max Wnd ;315°	-3,0	-6,3	-3,8	-0,2	-0,3	**0,0**	8,0
N1	high max Wnd ;135°	3,1	6,3	-2,7	-0,6	-0,4	**0,1**	7,6
N17	low max Wnd ;315°	**-3,1**	-6,5	-5,5	-0,5	0,6	0,0	9,1
N17	high max Wnd ;135°	**3,2**	**6,5**	1,1	-0,5	0,4	0,0	7,4
N17	high max Wnd ;315°	-3,1	**-6,5**	**-6,5**	**-0,6**	**0,8**	0,0	**9,7**
N17	low max Wnd ;135°	3,2	6,5	**2,2**	-0,3	**0,3**	0,0	7,6
N17	high max Wnd ;45°	-3,0	6,5	-1,8	-0,6	0,4	**-0,1**	7,3
N17	low max Wnd ;225°	3,1	-6,4	-2,9	**-0,3**	0,5	**0,0**	7,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N21	low max Wnd ;45°	**-3,1**	6,5	-5,5	0,5	0,6	0,0	9,0
N21	high max Wnd ;225°	**3,2**	**-6,5**	1,1	0,5	0,4	0,0	7,4
N21	high max Wnd ;45°	-3,1	**6,6**	**-6,4**	**0,6**	**0,8**	0,0	**9,7**
N21	low max Wnd ;225°	3,2	-6,5	**2,2**	0,3	**0,3**	0,0	7,6
N21	low max Wnd ;135°	3,1	6,4	-2,9	**0,3**	0,5	**0,0**	7,7
N21	high max Wnd ;315°	-3,0	-6,5	-1,8	0,6	0,4	**0,1**	7,3
1Y	low max Wnd ;225°	**3,7**	**-6,8**	-6,5	**0,4**	**0,4**	0,0	10,1
1Y	high max Wnd ;225°	3,4	-6,8	**-7,8**	0,3	0,3	0,0	**10,9**
1Y	low max Wnd ;45°	-4,5	7,8	**1,7**	-1,0	-1,0	0,0	9,1
1Y	high max Wnd ;45°	**-4,6**	**7,9**	0,4	**-1,1**	**-1,1**	0,0	9,2
1Y	low max Wnd ;315°	-3,1	-6,2	-3,7	-0,1	-0,1	**-0,1**	7,9
1Y	high max Wnd ;135°	2,3	7,2	-2,6	-0,5	-0,5	**0,1**	8,0
1XY	high max Wnd ;135°	3,6	6,9	**-7,8**	-0,3	0,4	0,0	**11,0**
1XY	low max Wnd ;315°	-4,5	-7,8	**1,8**	1,0	-1,1	0,0	9,2
1XY	low max Wnd ;135°	**3,8**	**6,9**	-6,5	**-0,4**	**0,5**	0,0	10,2
1XY	high max Wnd ;315°	**-4,7**	**-8,0**	0,5	**1,1**	**-1,2**	0,0	9,3
1XY	high max Wnd ;225°	2,2	-7,2	-2,6	0,5	-0,6	**-0,1**	8,0
1XY	low max Wnd ;45°	-3,1	6,2	-3,7	0,1	0,0	**0,1**	7,8
N24	low max Wnd ;315°	**-3,1**	-6,5	**1,9**	0,6	-0,5	0,0	7,5
N24	high max Wnd ;135°	3,2	**6,6**	**-7,3**	0,3	-0,3	0,0	**10,4**
N24	low max Wnd ;135°	**3,2**	6,5	-6,2	**0,1**	**-0,1**	0,0	9,5
N24	high max Wnd ;315°	-3,1	**-6,5**	0,7	**0,7**	**-0,7**	0,0	7,3
N24	high max Wnd ;225°	3,0	-6,5	-2,4	0,6	-0,4	**-0,1**	7,5
N24	low max Wnd ;45°	-2,9	6,4	-3,4	0,2	-0,3	**0,1**	7,8
N25	low max Wnd ;315°	**-3,2**	-6,5	**1,3**	0,6	-0,5	0,0	7,4
N25	high max Wnd ;135°	3,2	**6,6**	**-7,6**	0,3	-0,3	0,0	**10,6**
N25	low max Wnd ;135°	**3,2**	6,5	-6,3	**0,1**	**-0,1**	0,0	9,6
N25	high max Wnd ;315°	-3,2	**-6,5**	0,0	**0,7**	**-0,7**	0,0	7,2
N25	high max Wnd ;225°	2,9	-6,5	-3,0	0,6	-0,4	**-0,1**	7,7
N25	low max Wnd ;45°	-2,9	6,4	-3,6	0,2	-0,3	**0,1**	7,9
N26	low max Wnd ;315°	**-3,1**	-6,5	**1,9**	0,6	-0,5	0,0	7,4
N26	high max Wnd ;135°	**3,2**	**6,6**	**-7,3**	0,3	-0,3	0,0	**10,4**
N26	low max Wnd ;135°	3,2	6,5	-6,2	**0,1**	**-0,1**	0,0	9,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N26	high max Wnd ;315°	-3,1	**-6,5**	0,7	**0,7**	**-0,7**	0,0	7,2
N26	high max Wnd ;225°	3,1	-6,4	-2,3	0,6	-0,4	**-0,1**	7,5
N26	low max Wnd ;45°	-3,0	6,4	-3,5	0,2	-0,3	**0,1**	7,8
N27	low max Wnd ;315°	**-3,1**	-6,5	**1,4**	0,6	-0,5	0,0	7,3
N27	high max Wnd ;135°	**3,2**	**6,6**	**-7,6**	0,3	-0,3	0,0	**10,6**
N27	low max Wnd ;135°	3,2	6,5	-6,3	**0,1**	**-0,1**	0,0	9,6
N27	high max Wnd ;315°	-3,1	**-6,5**	0,0	**0,7**	**-0,7**	0,0	7,2
N27	high max Wnd ;225°	3,1	-6,3	-2,7	0,6	-0,4	**-0,1**	7,5
N27	low max Wnd ;45°	-3,0	6,3	-3,8	0,2	-0,3	**0,1**	8,0
N28	high max Wnd ;315°	-3,1	**-6,6**	**-7,3**	-0,3	0,3	0,0	**10,3**
N28	low max Wnd ;135°	3,2	6,5	**1,9**	-0,6	0,5	0,0	7,5
N28	high max Wnd ;135°	**3,3**	**6,6**	0,7	**-0,7**	**0,7**	0,0	7,4
N28	low max Wnd ;315°	**-3,1**	-6,5	-6,2	**-0,1**	**0,1**	0,0	9,5
N28	high max Wnd ;45°	-2,9	6,5	-2,4	-0,6	0,4	**-0,1**	7,5
N28	low max Wnd ;225°	3,0	-6,4	-3,3	-0,2	0,3	**0,1**	7,8
N29	high max Wnd ;315°	-3,1	**-6,6**	**-7,6**	-0,3	0,3	0,0	**10,5**
N29	low max Wnd ;135°	3,3	6,5	**1,4**	-0,6	0,5	0,0	7,4
N29	high max Wnd ;135°	**3,3**	**6,6**	0,1	**-0,7**	**0,7**	0,0	7,3
N29	low max Wnd ;315°	**-3,1**	-6,5	-6,3	**-0,1**	**0,1**	0,0	9,6
N29	high max Wnd ;45°	-2,8	6,5	-2,9	-0,6	0,4	**-0,1**	7,6
N29	low max Wnd ;225°	3,0	-6,4	-3,5	-0,2	0,3	**0,1**	7,9
N30	high max Wnd ;315°	-3,1	**-6,6**	**-7,3**	-0,3	0,3	0,0	**10,3**
N30	low max Wnd ;135°	3,2	6,5	**2,0**	-0,6	0,5	0,0	7,5
N30	high max Wnd ;135°	**3,2**	**6,5**	0,7	**-0,7**	**0,7**	0,0	7,3
N30	low max Wnd ;315°	**-3,1**	-6,5	-6,2	**-0,1**	**0,1**	0,0	9,5
N30	high max Wnd ;45°	-3,0	6,4	-2,2	-0,6	0,4	**-0,1**	7,4
N30	low max Wnd ;225°	3,1	-6,4	-3,4	-0,2	0,3	**0,1**	7,9
N31	high max Wnd ;315°	-3,1	**-6,5**	**-7,6**	-0,3	0,3	0,0	**10,5**
N31	low max Wnd ;135°	3,2	6,5	**1,4**	-0,6	0,5	0,0	7,4
N31	high max Wnd ;135°	**3,2**	**6,5**	0,1	**-0,7**	**0,7**	0,0	7,3
N31	low max Wnd ;315°	**-3,1**	-6,5	-6,3	**-0,1**	**0,1**	0,0	9,5
N31	high max Wnd ;45°	-3,0	6,3	-2,7	-0,6	0,4	**-0,1**	7,5
N31	low max Wnd ;225°	3,1	-6,3	-3,7	-0,2	0,3	**0,1**	8,0

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1P	high max Wnd ;315°	-3,3	-6,7	**-7,7**	0,2	-0,3	0,0	**10,7**
1P	low max Wnd ;135°	4,6	7,8	**1,8**	-1,0	1,0	0,0	9,2
1P	high max Wnd ;135°	**4,8**	**8,0**	0,5	**-1,1**	**1,1**	0,0	9,3
1P	low max Wnd ;315°	**-3,6**	**-6,8**	-6,5	**0,4**	**-0,4**	0,0	10,1
1P	high max Wnd ;45°	-2,1	7,2	-2,6	-0,6	0,5	**-0,1**	8,0
1P	low max Wnd ;225°	3,2	-6,2	-3,6	-0,1	0,1	**0,1**	7,9
1X	high max Wnd ;225°	**4,8**	**-8,0**	0,5	**1,1**	**1,2**	0,0	9,3
1X	high max Wnd ;45°	-3,4	6,7	**-7,7**	-0,3	-0,4	0,0	**10,8**
1X	low max Wnd ;225°	4,6	-7,8	**1,8**	1,0	1,1	0,0	9,2
1X	low max Wnd ;45°	**-3,7**	**6,9**	-6,5	**-0,4**	**-0,5**	0,0	10,1
1X	low max Wnd ;135°	3,2	6,2	-3,6	0,1	0,0	**-0,1**	7,9
1X	high max Wnd ;315°	-2,1	-7,2	-2,6	0,5	0,6	**0,1**	7,9
N34	high max Wnd ;225°	**3,3**	**-6,5**	0,8	**0,7**	**0,7**	0,0	7,3
N34	high max Wnd ;45°	-3,1	**6,6**	**-7,3**	0,3	0,3	0,0	**10,3**
N34	low max Wnd ;225°	3,2	-6,5	**2,0**	0,5	0,5	0,0	7,5
N34	low max Wnd ;45°	**-3,1**	6,5	-6,2	**0,2**	**0,2**	0,0	9,5
N34	low max Wnd ;135°	3,0	6,4	-3,3	0,2	0,3	**-0,1**	7,8
N34	high max Wnd ;315°	-2,9	-6,5	-2,3	0,6	0,4	**0,1**	7,5
N35	high max Wnd ;225°	**3,3**	**-6,5**	0,1	**0,7**	**0,7**	0,0	7,3
N35	high max Wnd ;45°	-3,1	**6,6**	**-7,6**	0,3	0,3	0,0	**10,5**
N35	low max Wnd ;225°	3,3	-6,5	**1,4**	0,5	0,5	0,0	7,4
N35	low max Wnd ;45°	**-3,1**	6,5	-6,3	**0,2**	**0,2**	0,0	9,6
N35	low max Wnd ;135°	3,0	6,4	-3,5	0,2	0,3	**-0,1**	7,9
N35	high max Wnd ;315°	-2,8	-6,5	-2,9	0,6	0,4	**0,1**	7,6
N36	high max Wnd ;225°	**3,2**	**-6,5**	0,8	**0,7**	**0,7**	0,0	7,3
N36	high max Wnd ;45°	-3,1	**6,6**	**-7,3**	0,3	0,3	0,0	**10,2**
N36	low max Wnd ;225°	3,2	-6,5	**2,0**	0,5	0,5	0,0	7,5
N36	low max Wnd ;45°	**-3,1**	6,5	-6,1	**0,2**	**0,2**	0,0	9,4
N36	low max Wnd ;135°	3,1	6,4	-3,4	0,2	0,3	**-0,1**	7,9
N36	high max Wnd ;315°	-3,0	-6,4	-2,2	0,6	0,4	**0,1**	7,4
N37	high max Wnd ;225°	**3,2**	**-6,5**	0,1	**0,7**	**0,7**	0,0	7,2
N37	high max Wnd ;45°	-3,1	**6,5**	**-7,6**	0,3	0,3	0,0	**10,5**
N37	low max Wnd ;225°	3,2	-6,5	**1,4**	0,5	0,5	0,0	7,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N37	low max Wnd ;45°	**-3,1**	6,5	-6,3	**0,2**	**0,2**	0,0	9,5
N37	low max Wnd ;135°	3,1	6,3	-3,7	0,2	0,3	**-0,1**	8,0
N37	high max Wnd ;315°	-3,0	-6,3	-2,7	0,6	0,4	**0,1**	7,5
N38	low max Wnd ;45°	**-3,1**	6,5	**1,6**	-0,6	-0,5	0,0	7,4
N38	high max Wnd ;225°	3,2	**-6,6**	**-7,5**	-0,3	-0,3	0,0	**10,5**
N38	high max Wnd ;45°	-3,1	**6,5**	0,3	**-0,7**	**-0,7**	0,0	7,2
N38	low max Wnd ;225°	**3,2**	-6,5	-6,3	**-0,1**	**-0,1**	0,0	9,6
N38	low max Wnd ;315°	-2,9	-6,4	-3,6	-0,2	-0,3	**0,0**	7,9
N38	high max Wnd ;135°	3,0	6,4	-2,7	-0,6	-0,4	**0,1**	7,6
N39	high max Wnd ;315°	-3,1	**-6,6**	**-7,5**	-0,3	0,3	0,0	**10,4**
N39	low max Wnd ;135°	3,2	6,5	**1,6**	-0,6	0,5	0,0	7,4
N39	high max Wnd ;135°	**3,3**	**6,5**	0,3	**-0,7**	**0,7**	0,0	7,3
N39	low max Wnd ;315°	**-3,1**	-6,5	-6,2	**-0,1**	**0,1**	0,0	9,5
N39	high max Wnd ;45°	-2,9	6,4	-2,6	-0,6	0,4	**-0,1**	7,5
N39	low max Wnd ;225°	3,0	-6,4	-3,5	-0,2	0,3	**0,1**	7,9
N40	low max Wnd ;315°	**-3,1**	-6,5	**1,6**	0,6	-0,5	0,0	7,4
N40	high max Wnd ;135°	**3,2**	**6,6**	**-7,5**	0,3	-0,3	0,0	**10,5**
N40	low max Wnd ;135°	3,2	6,5	-6,3	**0,1**	**-0,1**	0,0	9,6
N40	high max Wnd ;315°	-3,1	**-6,5**	0,3	**0,7**	**-0,7**	0,0	7,2
N40	high max Wnd ;225°	3,0	-6,4	-2,7	0,6	-0,4	**-0,1**	7,6
N40	low max Wnd ;45°	-2,9	6,4	-3,6	0,2	-0,3	**0,1**	7,9
N41	high max Wnd ;225°	**3,3**	**-6,5**	0,4	**0,7**	**0,7**	0,0	7,3
N41	high max Wnd ;45°	-3,1	**6,6**	**-7,4**	0,3	0,3	0,0	**10,4**
N41	low max Wnd ;225°	3,2	-6,5	**1,6**	0,5	0,5	0,0	7,4
N41	low max Wnd ;45°	**-3,1**	6,5	-6,2	**0,2**	**0,2**	0,0	9,5
N41	low max Wnd ;135°	3,0	6,4	-3,5	0,2	0,3	**-0,1**	7,9
N41	high max Wnd ;315°	-2,9	-6,4	-2,6	0,6	0,4	**0,1**	7,5
N44	high max Wnd ;225°	**-1,0**	**1,5**	-3,1	**1,0**	0,3	-0,3	3,6
N44	low max Wnd ;45°	**0,7**	-1,4	-1,5	**-0,8**	-0,4	0,0	2,2
N44	high max Wnd ;45°	0,6	**-1,5**	-2,3	-0,8	**-0,5**	0,0	2,8
N44	low max Wnd ;225°	-1,0	1,5	-2,2	1,0	**0,3**	-0,2	2,9
N44	high max Wnd ;315°	-0,4	1,5	**-7,0**	1,0	-0,4	**-0,3**	**7,1**
N44	low max Wnd ;135°	0,2	-1,4	**2,8**	-0,8	0,2	**0,1**	3,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N45	high max Wnd ;225°	**-1,2**	1,6	-3,5	**1,0**	0,3	-0,2	4,0
N45	low max Wnd ;135°	0,2	**-1,4**	**2,5**	-0,8	0,2	**0,0**	2,9
N45	low max Wnd ;45°	**0,5**	-1,4	-1,9	**-0,8**	-0,4	0,0	2,5
N45	high max Wnd ;45°	0,4	-1,4	-3,0	-0,8	**-0,4**	0,0	3,3
N45	low max Wnd ;225°	-1,1	1,5	-2,4	1,0	**0,3**	-0,2	3,1
N45	high max Wnd ;315°	-0,7	**1,6**	**-7,5**	1,0	-0,3	**-0,3**	**7,7**
N46	high max Wnd ;225°	**-1,2**	1,6	-3,6	1,0	0,3	-0,2	4,2
N46	low max Wnd ;45°	**0,4**	-1,4	-2,5	-0,8	-0,4	0,0	2,8
N46	low max Wnd ;135°	0,0	**-1,5**	**1,8**	**-0,8**	0,2	**0,0**	2,4
N46	high max Wnd ;45°	0,3	-1,4	-3,6	-0,7	**-0,4**	-0,1	3,9
N46	low max Wnd ;225°	-1,1	1,6	-2,5	0,9	**0,3**	-0,2	3,1
N46	high max Wnd ;315°	-0,7	**1,7**	**-7,6**	**1,0**	-0,3	**-0,3**	**7,9**
N47	low max Wnd ;225°	**-0,7**	**0,7**	-4,7	0,9	**0,3**	0,0	4,8
N47	high max Wnd ;315°	0,7	0,0	**-8,4**	0,8	-0,4	**0,1**	**8,4**
N47	low max Wnd ;45°	0,8	-1,2	0,3	**-0,8**	-0,4	0,1	1,4
N47	high max Wnd ;225°	-0,7	0,7	-5,7	**0,9**	0,3	0,1	5,8
N47	high max Wnd ;45°	**0,8**	**-1,3**	-0,7	-0,8	**-0,5**	0,1	1,7
N47	low max Wnd ;135°	-0,6	-0,4	**3,3**	-0,6	0,3	**0,0**	3,4
N48	high max Wnd ;315°	**0,9**	-0,1	**-8,6**	0,8	-0,4	**0,2**	**8,7**
N48	low max Wnd ;45°	0,8	-1,2	0,1	**-0,8**	-0,4	0,1	1,4
N48	high max Wnd ;225°	-0,6	0,5	-6,2	**0,9**	0,3	0,1	6,3
N48	high max Wnd ;45°	0,8	**-1,4**	-1,1	-0,8	**-0,5**	0,1	1,9
N48	low max Wnd ;225°	-0,6	**0,6**	-5,0	0,8	**0,3**	0,1	5,1
N48	low max Wnd ;135°	**-0,7**	-0,6	**2,7**	-0,7	0,3	**0,0**	2,9
N49	high max Wnd ;135°	-0,6	**-1,5**	-2,4	-0,8	**0,5**	0,0	2,9
N49	high max Wnd ;225°	0,4	1,5	**-7,1**	1,0	0,4	**0,3**	**7,2**
N49	low max Wnd ;135°	**-0,7**	-1,4	-1,5	**-0,8**	0,4	0,0	2,2
N49	high max Wnd ;315°	**1,0**	**1,5**	-3,2	**1,0**	-0,3	0,3	3,7
N49	low max Wnd ;315°	1,0	1,5	-2,3	1,0	**-0,3**	0,2	2,9
N49	low max Wnd ;45°	-0,2	-1,4	**2,8**	-0,8	-0,2	**-0,1**	3,1
N50	high max Wnd ;225°	0,7	**1,6**	**-7,6**	1,0	0,3	**0,3**	**7,8**
N50	low max Wnd ;135°	**-0,5**	-1,4	-2,0	**-0,8**	0,4	0,0	2,5
N50	high max Wnd ;315°	**1,2**	1,6	-3,6	**1,0**	-0,3	0,2	4,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N50	low max Wnd ;315°	1,1	1,5	-2,5	1,0	**-0,3**	0,2	3,1
N50	high max Wnd ;135°	-0,4	-1,4	-3,1	-0,8	**0,4**	0,0	3,4
N50	low max Wnd ;45°	-0,2	**-1,4**	**2,4**	-0,8	-0,2	**0,0**	2,8
N51	low max Wnd ;135°	**-0,4**	-1,4	-2,5	-0,8	0,4	0,0	2,9
N51	high max Wnd ;315°	**1,2**	1,6	-3,7	1,0	-0,3	0,2	4,3
N51	high max Wnd ;225°	0,7	**1,8**	**-7,8**	**1,0**	0,3	**0,3**	**8,0**
N51	low max Wnd ;315°	1,1	1,6	-2,6	0,9	**-0,3**	0,2	3,2
N51	high max Wnd ;135°	-0,3	-1,4	-3,7	-0,7	**0,4**	0,1	4,0
N51	low max Wnd ;45°	0,0	**-1,5**	**1,7**	**-0,8**	-0,2	**0,0**	2,3
N52	high max Wnd ;135°	**-0,8**	**-1,3**	-0,8	-0,8	**0,5**	-0,1	1,7
N52	low max Wnd ;135°	-0,8	-1,2	0,2	**-0,8**	0,4	-0,1	1,4
N52	high max Wnd ;315°	0,7	0,6	-5,8	**0,9**	-0,3	-0,1	5,9
N52	low max Wnd ;315°	**0,7**	**0,7**	-4,7	0,9	**-0,3**	0,0	4,8
N52	high max Wnd ;225°	-0,7	0,0	**-8,5**	0,8	0,4	**-0,1**	**8,5**
N52	low max Wnd ;45°	0,6	-0,4	**3,2**	-0,6	-0,3	**0,0**	3,3
N53	high max Wnd ;135°	-0,8	**-1,4**	-1,1	**-0,8**	**0,5**	-0,1	2,0
N53	high max Wnd ;315°	0,5	0,5	-6,3	**0,9**	-0,3	-0,1	6,3
N53	low max Wnd ;315°	0,6	**0,6**	-5,1	0,8	**-0,3**	-0,1	5,2
N53	high max Wnd ;225°	**-0,9**	-0,1	**-8,7**	0,8	0,5	**-0,2**	**8,7**
N53	low max Wnd ;45°	**0,7**	-0,6	**2,7**	-0,7	-0,3	**0,0**	2,8
N10	low max Wnd ;225°	**-0,7**	1,4	-1,5	**0,8**	0,4	0,0	2,2
N10	high max Wnd ;45°	**1,0**	**-1,5**	-3,2	**-1,0**	-0,3	-0,3	3,7
N10	low max Wnd ;45°	1,0	-1,5	-2,3	-1,0	**-0,3**	-0,2	2,9
N10	high max Wnd ;225°	-0,6	**1,5**	-2,4	0,8	**0,5**	0,0	2,9
N10	high max Wnd ;135°	0,4	-1,5	**-7,0**	-1,0	0,4	**-0,3**	**7,2**
N10	low max Wnd ;315°	-0,2	1,4	**2,8**	0,8	-0,2	**0,1**	3,1
N11	low max Wnd ;225°	**-0,5**	1,4	-2,0	**0,8**	0,4	0,0	2,5
N11	high max Wnd ;45°	**1,2**	-1,6	-3,5	**-1,0**	-0,3	-0,2	4,0
N11	low max Wnd ;45°	1,1	-1,5	-2,5	-1,0	**-0,3**	-0,2	3,1
N11	high max Wnd ;225°	-0,4	1,4	-3,0	0,8	**0,4**	0,0	3,4
N11	high max Wnd ;135°	0,7	**-1,6**	**-7,6**	-1,0	0,3	**-0,3**	**7,8**
N11	low max Wnd ;315°	-0,2	**1,4**	**2,4**	0,8	-0,2	**0,0**	2,8
N12	low max Wnd ;225°	**-0,4**	1,4	-2,5	0,8	0,4	0,0	2,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N12	high max Wnd ;45°	**1,2**	-1,6	-3,7	-1,0	-0,3	-0,2	4,2
N12	low max Wnd ;45°	1,1	-1,6	-2,5	-0,9	**-0,3**	-0,2	3,2
N12	high max Wnd ;225°	-0,3	1,4	-3,7	0,7	**0,4**	-0,1	3,9
N12	high max Wnd ;135°	0,7	**-1,8**	**-7,7**	**-1,0**	0,3	**-0,3**	**8,0**
N12	low max Wnd ;315°	0,0	**1,5**	**1,8**	**0,8**	-0,2	**0,0**	2,3
N13	high max Wnd ;225°	**-0,8**	**1,3**	-0,8	0,8	**0,5**	0,1	1,7
N13	high max Wnd ;135°	-0,7	0,0	**-8,5**	-0,8	0,4	**0,1**	**8,5**
N13	high max Wnd ;45°	0,7	-0,6	-5,8	**-0,9**	-0,3	0,1	5,9
N13	low max Wnd ;225°	-0,8	1,2	0,2	**0,8**	0,4	0,1	1,4
N13	low max Wnd ;45°	**0,7**	**-0,7**	-4,7	-0,9	**-0,3**	0,0	4,8
N13	low max Wnd ;315°	0,6	0,4	**3,2**	0,6	-0,3	**0,0**	3,3
N14	high max Wnd ;135°	**-0,9**	0,1	**-8,7**	-0,8	0,5	**0,2**	**8,7**
N14	high max Wnd ;45°	0,5	-0,5	-6,3	**-0,9**	-0,3	0,1	6,3
N14	low max Wnd ;45°	0,6	**-0,6**	-5,1	-0,8	**-0,3**	0,1	5,1
N14	high max Wnd ;225°	-0,8	**1,4**	-1,1	**0,8**	**0,5**	0,1	2,0
N14	low max Wnd ;315°	**0,7**	0,6	**2,7**	0,7	-0,3	**0,0**	2,8
N15	low max Wnd ;135°	**-0,7**	**-0,7**	-4,7	-0,9	**0,3**	0,0	4,8
N15	high max Wnd ;135°	-0,7	-0,7	-5,7	**-0,9**	0,3	-0,1	5,8
N15	low max Wnd ;315°	0,8	1,2	0,3	**0,8**	-0,4	-0,1	1,4
N15	high max Wnd ;315°	**0,8**	**1,3**	-0,7	0,7	**-0,5**	-0,1	1,7
N15	high max Wnd ;45°	0,7	0,0	**-8,4**	-0,8	-0,4	**-0,1**	**8,4**
N15	low max Wnd ;225°	-0,6	0,4	**3,3**	0,6	0,3	**0,0**	3,4
N2	low max Wnd ;225°	**-0,7**	0,6	**2,7**	0,7	0,3	**0,0**	2,9
N2	low max Wnd ;135°	-0,6	**-0,6**	-5,0	-0,8	**0,3**	-0,1	5,1
N2	high max Wnd ;135°	-0,6	-0,5	-6,2	**-0,9**	0,3	-0,1	6,3
N2	low max Wnd ;315°	0,8	1,2	0,1	**0,8**	-0,4	-0,1	1,4
N2	high max Wnd ;315°	0,8	**1,3**	-1,1	0,8	**-0,5**	-0,1	1,9
N2	high max Wnd ;45°	**0,9**	0,1	**-8,6**	-0,8	-0,4	**-0,2**	**8,6**
N3	high max Wnd ;45°	-0,4	-1,5	**-6,9**	-1,0	-0,4	**0,3**	**7,1**
N3	high max Wnd ;135°	**-1,0**	**-1,5**	-3,1	**-1,0**	0,3	0,3	3,6
N3	low max Wnd ;315°	**0,7**	1,4	-1,5	**0,8**	-0,4	0,0	2,2
N3	high max Wnd ;315°	0,6	**1,4**	-2,3	0,8	**-0,5**	0,0	2,8
N3	low max Wnd ;135°	-1,0	-1,5	-2,2	-1,0	**0,3**	0,2	2,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N3	low max Wnd ;225°	0,2	1,4	**2,8**	0,8	0,2	**-0,1**	3,2
N4	high max Wnd ;45°	-0,7	**-1,6**	**-7,5**	-1,0	-0,3	**0,3**	**7,7**
N4	high max Wnd ;135°	**-1,2**	-1,6	-3,4	**-1,0**	0,3	0,2	4,0
N4	low max Wnd ;315°	**0,5**	1,4	-1,9	**0,8**	-0,4	0,0	2,5
N4	high max Wnd ;315°	0,4	1,4	-2,9	0,8	**-0,4**	0,0	3,3
N4	low max Wnd ;135°	-1,1	-1,5	-2,4	-1,0	**0,3**	0,2	3,1
N4	low max Wnd ;225°	0,2	**1,4**	**2,5**	0,8	0,2	**0,0**	2,9
N54	high max Wnd ;135°	**-1,2**	-1,6	-3,6	-1,0	0,3	0,2	4,2
N54	low max Wnd ;315°	**0,4**	1,4	-2,4	0,8	-0,4	0,0	2,8
N54	high max Wnd ;45°	-0,7	**-1,8**	**-7,7**	**-1,0**	-0,3	**0,3**	**7,9**
N54	high max Wnd ;315°	0,3	1,4	-3,6	0,7	**-0,4**	0,1	3,8
N54	low max Wnd ;135°	-1,1	-1,6	-2,5	-0,9	**0,3**	0,2	3,1
N54	low max Wnd ;225°	0,0	**1,5**	**1,8**	**0,8**	0,2	**0,0**	2,4
N55	low max Wnd ;315°	**-3,1**	-6,5	**2,1**	0,3	**-0,3**	0,0	7,5
N55	high max Wnd ;315°	-3,1	**-6,5**	1,0	0,5	-0,4	0,0	7,3
N55	low max Wnd ;45°	-3,0	6,4	-3,0	**0,3**	-0,5	**0,0**	7,7
N55	high max Wnd ;135°	**3,2**	**6,6**	**-6,5**	**0,6**	**-0,8**	0,0	**9,8**
N55	high max Wnd ;225°	3,1	-6,5	-1,9	0,6	-0,4	**-0,1**	7,4
N56	low max Wnd ;45°	**-3,1**	6,5	**2,1**	-0,3	**-0,3**	0,0	7,5
N56	high max Wnd ;45°	-3,1	**6,5**	1,0	-0,5	-0,4	0,0	7,3
N56	high max Wnd ;225°	**3,2**	**-6,6**	**-6,5**	**-0,6**	**-0,8**	0,0	**9,8**
N56	low max Wnd ;315°	-3,0	-6,4	-3,0	**-0,3**	-0,5	**0,0**	7,7
N56	high max Wnd ;135°	3,1	6,5	-1,9	-0,6	-0,4	**0,1**	7,4
N57	low max Wnd ;45°	**-3,1**	6,5	-4,5	0,5	0,6	0,0	8,5
N57	high max Wnd ;225°	**3,2**	**-6,6**	1,9	0,5	0,4	0,0	7,6
N57	high max Wnd ;45°	-3,1	**6,6**	**-5,1**	**0,6**	**0,8**	0,0	**8,9**
N57	low max Wnd ;225°	3,2	-6,5	**2,7**	0,3	**0,3**	0,0	7,7
N57	low max Wnd ;135°	3,1	6,5	-2,1	**0,3**	0,5	**0,0**	7,5
N57	high max Wnd ;315°	-3,0	-6,5	-0,9	0,6	0,4	**0,1**	7,2
N58	high max Wnd ;225°	**3,2**	**-6,4**	-0,6	0,6	**0,8**	0,0	7,2
N58	high max Wnd ;45°	-3,0	**6,5**	**-5,3**	**1,8**	-0,5	0,0	**8,9**
N58	low max Wnd ;225°	3,2	-6,4	**0,5**	**0,3**	0,7	0,0	7,2
N58	low max Wnd ;45°	**-3,1**	6,4	-4,3	1,4	**-0,5**	0,0	8,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N58	low max Wnd ;135°	3,1	6,3	-2,9	1,0	0,0	**0,0**	7,6
N58	high max Wnd ;315°	-3,0	-6,2	-2,1	1,0	0,1	**0,0**	7,3
N59	high max Wnd ;225°	**3,3**	**-6,5**	-0,7	**0,8**	0,6	0,0	7,4
N59	high max Wnd ;45°	-3,0	**6,5**	**-4,9**	-0,6	**1,9**	0,0	**8,7**
N59	low max Wnd ;45°	**-3,1**	6,5	-3,9	**-0,6**	1,5	0,0	8,2
N59	low max Wnd ;225°	3,3	-6,5	**0,3**	0,8	**0,2**	0,0	7,3
N59	low max Wnd ;135°	2,9	6,5	-2,3	-0,3	1,0	**0,0**	7,5
N59	high max Wnd ;315°	-2,7	-6,5	-2,5	0,4	1,1	**0,0**	7,5
N60	low max Wnd ;225°	0,0	**0,0**	**0,1**	0,0	0,0	0,0	0,1
N60	high max Wnd ;45°	0,0	0,0	**-0,4**	0,0	**0,0**	0,0	**0,4**
N60	low max Wnd ;135°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N60	high max Wnd ;315°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N61	high max Wnd ;45°	0,0	0,0	**-0,4**	**0,0**	0,0	0,0	**0,4**
N61	low max Wnd ;225°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	0,0	0,1
N61	low max Wnd ;135°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N61	high max Wnd ;315°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N68	low max Wnd ;315°	**-3,1**	-6,5	**2,7**	0,3	**-0,3**	0,0	7,7
N68	high max Wnd ;315°	-3,1	**-6,5**	1,9	0,5	-0,4	0,0	7,5
N68	low max Wnd ;45°	-3,0	6,5	-2,2	**0,3**	-0,5	**0,0**	7,5
N68	high max Wnd ;135°	**3,2**	**6,6**	**-5,2**	**0,6**	**-0,8**	0,0	**9,0**
N68	high max Wnd ;225°	3,2	-6,5	-0,9	0,6	-0,4	**-0,1**	7,3
N69	high max Wnd ;135°	**3,2**	**6,6**	**-5,3**	**1,8**	0,5	0,0	**9,0**
N69	low max Wnd ;315°	**-3,1**	-6,4	**0,4**	**0,3**	-0,7	0,0	7,1
N69	high max Wnd ;315°	-3,1	**-6,4**	-0,6	0,6	**-0,7**	0,0	7,1
N69	low max Wnd ;135°	3,2	6,4	-4,3	1,4	**0,5**	0,0	8,4
N69	high max Wnd ;225°	3,2	-6,2	-2,2	1,0	-0,1	**0,0**	7,3
N69	low max Wnd ;45°	-3,0	6,3	-2,9	1,0	0,0	**0,0**	7,5
N70	low max Wnd ;315°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	0,0	0,1
N70	high max Wnd ;135°	0,0	0,0	**-0,4**	0,0	0,0	0,0	**0,4**
N70	low max Wnd ;45°	0,0	0,0	-0,2	**0,0**	0,0	**0,0**	0,2
N70	high max Wnd ;225°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N71	low max Wnd ;315°	**-3,2**	-6,5	**0,2**	**0,8**	**-0,3**	0,0	7,2
N71	high max Wnd ;315°	-3,2	**-6,5**	-0,8	0,8	-0,6	0,0	7,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N71	low max Wnd ;135°	**3,2**	6,4	-4,0	**-0,7**	-1,5	0,0	8,2
N71	high max Wnd ;135°	3,2	**6,6**	**-4,9**	-0,6	**-1,9**	0,0	**8,8**
N71	high max Wnd ;225°	2,9	-6,5	-2,5	0,4	-1,1	**0,0**	7,6
N71	low max Wnd ;45°	-2,8	6,5	-2,3	-0,3	-1,0	**0,0**	7,4
N72	low max Wnd ;315°	**0,0**	0,0	**0,0**	0,0	0,0	0,0	0,0
N72	high max Wnd ;135°	0,0	0,0	**-0,4**	**0,0**	0,0	0,0	**0,4**
N72	high max Wnd ;225°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N72	low max Wnd ;45°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N73	high max Wnd ;225°	**3,3**	**-6,5**	-1,3	**0,8**	0,6	0,0	7,4
N73	high max Wnd ;45°	-3,0	**6,6**	**-6,7**	-0,6	**1,9**	0,0	**9,9**
N73	low max Wnd ;45°	**-3,1**	6,5	-5,4	**-0,6**	1,5	0,0	9,0
N73	low max Wnd ;225°	3,3	-6,5	**0,0**	0,8	**0,2**	0,0	7,3
N73	low max Wnd ;135°	2,9	6,5	-3,2	-0,3	1,0	**0,0**	7,8
N73	high max Wnd ;315°	-2,7	-6,5	-3,6	0,4	1,1	**0,0**	7,9
N74	high max Wnd ;225°	**3,2**	**-6,4**	-1,2	0,6	**0,8**	0,0	7,3
N74	high max Wnd ;45°	-3,0	**6,5**	**-6,9**	**1,8**	-0,5	0,0	**9,9**
N74	low max Wnd ;225°	3,2	-6,4	**0,2**	**0,3**	0,7	0,0	7,2
N74	low max Wnd ;45°	**-3,1**	6,4	-5,5	1,4	**-0,5**	0,0	9,0
N74	low max Wnd ;135°	3,1	6,3	-3,8	1,0	0,0	**0,0**	7,9
N74	high max Wnd ;315°	-3,0	-6,2	-3,0	1,0	0,1	**0,0**	7,6
N75	low max Wnd ;45°	**-3,1**	6,5	**2,7**	-0,3	**-0,3**	0,0	7,7
N75	high max Wnd ;225°	**3,2**	**-6,6**	**-5,2**	**-0,6**	**-0,8**	0,0	**9,0**
N75	low max Wnd ;315°	-3,0	-6,5	-2,2	**-0,3**	-0,5	**0,0**	7,5
N75	high max Wnd ;135°	3,2	**6,5**	-0,9	-0,6	-0,4	**0,1**	7,3
N76	low max Wnd ;45°	**-3,1**	6,4	**0,4**	**-0,3**	-0,7	0,0	7,1
N76	high max Wnd ;225°	**3,2**	**-6,5**	**-5,3**	**-1,8**	0,5	0,0	**9,0**
N76	high max Wnd ;45°	-3,1	**6,4**	-0,7	-0,6	**-0,7**	0,0	7,2
N76	low max Wnd ;225°	3,2	-6,4	-4,3	-1,4	**0,5**	0,0	8,4
N76	low max Wnd ;315°	-3,0	-6,3	-2,9	-1,0	0,0	**0,0**	7,5
N76	high max Wnd ;135°	3,2	6,3	-2,2	-1,0	-0,1	**0,0**	7,3
N77	high max Wnd ;225°	0,0	0,0	**-0,4**	0,0	0,0	0,0	**0,4**
N77	low max Wnd ;45°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	0,0	0,1
N77	high max Wnd ;135°	0,0	0,0	-0,2	**0,0**	0,0	**0,0**	0,2

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N77	low max Wnd ;315°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N78	low max Wnd ;45°	**-3,2**	6,5	**0,2**	**-0,8**	**-0,3**	0,0	7,2
N78	low max Wnd ;225°	**3,2**	-6,4	-4,0	**0,7**	-1,5	0,0	8,2
N78	high max Wnd ;225°	3,2	**-6,5**	**-4,9**	0,6	**-1,9**	0,0	**8,8**
N78	low max Wnd ;315°	-2,8	-6,5	-2,3	0,3	-1,0	**0,0**	7,4
N78	high max Wnd ;135°	2,9	**6,5**	-2,5	-0,4	-1,1	**0,0**	7,6
N79	high max Wnd ;225°	0,0	0,0	**-0,4**	0,0	0,0	0,0	**0,4**
N79	low max Wnd ;45°	0,0	0,0	**0,0**	**0,0**	0,0	0,0	0,0
N79	low max Wnd ;315°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N79	high max Wnd ;135°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N80	low max Wnd ;315°	**-3,1**	-6,5	-4,6	-0,5	0,6	0,0	8,5
N80	high max Wnd ;135°	**3,2**	**6,6**	2,0	-0,5	0,4	0,0	7,6
N80	high max Wnd ;315°	-3,1	**-6,5**	**-5,1**	**-0,6**	**0,8**	0,0	**8,9**
N80	low max Wnd ;135°	3,2	6,5	**2,7**	-0,3	**0,3**	0,0	7,8
N80	high max Wnd ;45°	-3,0	6,5	-0,9	-0,6	0,4	**-0,1**	7,2
N80	low max Wnd ;225°	3,1	-6,5	-2,2	**-0,3**	0,5	**0,0**	7,5
N81	high max Wnd ;315°	-3,1	**-6,5**	**-5,3**	**-1,8**	-0,5	0,0	**8,9**
N81	low max Wnd ;135°	3,2	6,4	**0,5**	**-0,3**	0,7	0,0	7,2
N81	low max Wnd ;315°	**-3,1**	-6,4	-4,3	-1,4	**-0,5**	0,0	8,3
N81	high max Wnd ;135°	**3,2**	**6,5**	-0,6	-0,6	**0,8**	0,0	7,2
N81	high max Wnd ;45°	-3,0	6,3	-2,1	-1,0	0,1	**0,0**	7,3
N81	low max Wnd ;225°	3,1	-6,3	-2,9	-1,0	0,0	**0,0**	7,6
N82	low max Wnd ;135°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	0,0	0,1
N82	high max Wnd ;315°	0,0	0,0	**-0,4**	0,0	**0,0**	0,0	**0,4**
N82	high max Wnd ;45°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N82	low max Wnd ;225°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N83	low max Wnd ;315°	**-3,1**	-6,4	-3,9	**0,6**	1,4	0,0	8,2
N83	high max Wnd ;315°	-3,0	**-6,5**	**-4,9**	0,6	**1,9**	0,0	**8,7**
N83	high max Wnd ;135°	**3,3**	**6,6**	-0,7	**-0,8**	0,6	0,0	7,4
N83	low max Wnd ;135°	3,3	6,5	**0,2**	-0,8	**0,3**	0,0	7,3
N83	high max Wnd ;45°	-2,8	6,5	-2,5	-0,4	1,1	**0,0**	7,5
N83	low max Wnd ;225°	2,9	-6,5	-2,3	0,3	1,0	**0,0**	7,5
N84	high max Wnd ;315°	0,0	0,0	**-0,4**	0,0	0,0	0,0	**0,4**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N84	low max Wnd ;135°	0,0	0,0	**0,1**	**0,0**	0,0	0,0	0,1
N84	high max Wnd ;45°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N84	low max Wnd ;225°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N85	high max Wnd ;135°	**3,2**	**6,6**	**-6,9**	**1,8**	0,5	0,0	**10,0**
N85	low max Wnd ;315°	**-3,1**	-6,4	**0,2**	**0,3**	-0,7	0,0	7,1
N85	high max Wnd ;315°	-3,1	**-6,4**	-1,2	0,6	**-0,7**	0,0	7,2
N85	low max Wnd ;135°	3,2	6,4	-5,5	1,4	**0,5**	0,0	9,1
N85	high max Wnd ;225°	3,1	-6,2	-3,1	1,0	-0,1	**0,0**	7,6
N85	low max Wnd ;45°	-3,0	6,3	-3,8	1,0	0,0	**0,0**	7,9
N86	low max Wnd ;315°	**-3,2**	-6,5	**0,0**	**0,8**	**-0,3**	0,0	7,2
N86	high max Wnd ;315°	-3,2	**-6,5**	-1,4	0,8	-0,6	0,0	7,4
N86	low max Wnd ;135°	**3,2**	6,5	-5,4	**-0,7**	-1,5	0,0	9,0
N86	high max Wnd ;135°	3,2	**6,6**	**-6,8**	-0,6	**-1,9**	0,0	**9,9**
N86	high max Wnd ;225°	2,9	-6,5	-3,6	0,4	-1,1	**0,0**	8,0
N86	low max Wnd ;45°	-2,8	6,5	-3,3	-0,3	-1,0	**0,0**	7,8
N87	high max Wnd ;45°	-3,2	**6,5**	-1,4	-0,8	-0,7	0,0	7,4
N87	low max Wnd ;45°	**-3,2**	6,5	**0,0**	**-0,8**	**-0,3**	0,0	7,2
N87	low max Wnd ;225°	**3,2**	-6,4	-5,4	**0,7**	-1,5	0,0	9,0
N87	high max Wnd ;225°	3,2	**-6,6**	**-6,8**	0,6	**-1,9**	0,0	**9,9**
N87	low max Wnd ;315°	-2,8	-6,5	-3,3	0,3	-1,0	**0,0**	7,8
N87	high max Wnd ;135°	2,9	6,5	-3,7	-0,4	-1,1	**0,0**	8,0
N88	low max Wnd ;315°	**-3,1**	-6,5	-5,4	**0,6**	1,4	0,0	9,0
N88	high max Wnd ;315°	-3,0	**-6,5**	**-6,7**	0,6	**1,9**	0,0	**9,9**
N88	high max Wnd ;135°	**3,3**	**6,5**	-1,4	**-0,8**	0,6	0,0	7,5
N88	low max Wnd ;135°	3,3	6,5	**0,0**	-0,8	**0,3**	0,0	7,3
N88	high max Wnd ;45°	-2,8	6,5	-3,6	-0,4	1,1	**0,0**	7,9
N88	low max Wnd ;225°	2,9	-6,5	-3,2	0,3	1,0	**0,0**	7,8
N89	low max Wnd ;45°	**-3,1**	6,4	**0,2**	**-0,3**	-0,7	0,0	7,1
N89	high max Wnd ;225°	**3,2**	**-6,5**	**-6,9**	**-1,8**	0,5	0,0	**10,1**
N89	high max Wnd ;45°	-3,1	**6,4**	-1,2	-0,6	**-0,7**	0,0	7,2
N89	low max Wnd ;225°	3,2	-6,4	-5,6	-1,4	**0,5**	0,0	9,1
N89	low max Wnd ;315°	-3,0	-6,3	-3,8	-1,0	0,0	**0,0**	7,9
N89	high max Wnd ;135°	3,1	6,3	-3,1	-1,0	-0,1	**0,0**	7,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N90	high max Wnd ;315°	-3,1	**-6,5**	**-6,9**	**-1,8**	-0,5	0,0	**10,0**
N90	low max Wnd ;135°	3,2	6,4	**0,2**	**-0,3**	0,7	0,0	7,2
N90	low max Wnd ;315°	**-3,1**	-6,4	-5,5	-1,4	**-0,5**	0,0	9,0
N90	high max Wnd ;135°	**3,2**	**6,5**	-1,2	-0,6	**0,8**	0,0	7,3
N90	high max Wnd ;45°	-3,0	6,3	-3,0	-1,0	0,1	**0,0**	7,6
N90	low max Wnd ;225°	3,1	-6,3	-3,8	-1,0	0,0	**0,0**	8,0
N169	low max Wnd ;45°	**-3,2**	6,5	**2,1**	-0,7	-0,6	0,0	7,6
N169	high max Wnd ;225°	3,2	**-6,6**	**-7,7**	-0,3	-0,3	0,0	**10,7**
N169	high max Wnd ;45°	-3,2	**6,6**	0,8	**-0,8**	**-0,7**	0,0	7,3
N169	low max Wnd ;225°	**3,2**	-6,5	-6,5	**-0,1**	**-0,1**	0,0	9,7
N169	low max Wnd ;315°	-2,9	-6,5	-3,5	-0,2	-0,3	**0,0**	7,9
N169	high max Wnd ;135°	3,1	6,6	-2,6	-0,6	-0,5	**0,1**	7,7
N170	low max Wnd ;45°	**-3,2**	6,5	**1,5**	-0,7	-0,6	0,0	7,4
N170	high max Wnd ;225°	3,2	**-6,6**	**-8,0**	-0,3	-0,3	0,0	**10,9**
N170	high max Wnd ;45°	-3,2	**6,6**	0,0	**-0,8**	**-0,7**	0,0	7,3
N170	low max Wnd ;225°	**3,2**	-6,5	-6,6	**-0,1**	**-0,1**	0,0	9,8
N170	low max Wnd ;315°	-2,9	-6,5	-3,7	-0,2	-0,3	**0,0**	8,0
N170	high max Wnd ;135°	3,0	6,6	-3,2	-0,6	-0,5	**0,1**	7,9
N171	low max Wnd ;45°	**-3,1**	6,5	**2,2**	-0,7	-0,6	0,0	7,6
N171	high max Wnd ;225°	**3,2**	**-6,6**	**-7,8**	-0,3	-0,3	0,0	**10,7**
N171	high max Wnd ;45°	-3,1	**6,6**	0,8	**-0,8**	**-0,7**	0,0	7,3
N171	low max Wnd ;225°	3,2	-6,5	-6,5	**-0,1**	**-0,1**	0,0	9,7
N171	low max Wnd ;315°	-3,0	-6,4	-3,7	-0,2	-0,3	**0,0**	8,0
N171	high max Wnd ;135°	3,1	6,5	-2,4	-0,6	-0,5	**0,1**	7,6
N172	low max Wnd ;45°	**-3,1**	6,5	**1,6**	-0,7	-0,6	0,0	7,4
N172	high max Wnd ;225°	**3,2**	**-6,6**	**-8,1**	-0,3	-0,3	0,0	**10,9**
N172	high max Wnd ;45°	-3,1	**6,5**	0,0	**-0,8**	**-0,7**	0,0	7,2
N172	low max Wnd ;225°	3,2	-6,5	-6,6	**-0,1**	**-0,1**	0,0	9,8
N172	low max Wnd ;315°	-3,0	-6,4	-4,0	-0,2	-0,3	**0,0**	8,1
N172	high max Wnd ;135°	3,1	6,4	-2,9	-0,6	-0,5	**0,1**	7,7
N173	low max Wnd ;315°	**-3,1**	-6,5	-5,8	-0,4	0,6	0,0	9,3
N173	high max Wnd ;135°	**3,3**	**6,6**	1,3	-0,6	0,5	0,0	7,5
N173	low max Wnd ;135°	3,2	6,5	**2,6**	-0,5	0,4	0,0	7,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N173	high max Wnd ;315°	-3,1	**-6,6**	**-6,8**	**-0,6**	**0,8**	0,0	**10,0**
N173	low max Wnd ;45°	-3,0	6,4	-1,0	-0,4	**0,3**	-0,1	7,1
N173	high max Wnd ;45°	-3,0	6,6	-1,9	-0,6	0,5	**-0,1**	7,5
N173	low max Wnd ;225°	3,1	-6,5	-3,1	**-0,3**	0,5	**0,0**	7,8
N174	low max Wnd ;45°	**-3,1**	6,5	-5,8	0,4	0,6	0,0	9,2
N174	high max Wnd ;225°	**3,3**	**-6,6**	1,3	0,6	0,5	0,0	7,5
N174	high max Wnd ;45°	-3,1	**6,6**	**-6,8**	**0,6**	**0,8**	0,0	**10,0**
N174	low max Wnd ;225°	3,2	-6,5	**2,6**	0,4	0,4	0,0	7,7
N174	low max Wnd ;315°	-3,0	-6,4	-1,0	0,4	**0,3**	0,1	7,1
N174	low max Wnd ;135°	3,1	6,5	-3,1	**0,3**	0,5	**0,0**	7,8
N174	high max Wnd ;315°	-3,0	-6,5	-1,9	0,6	0,5	**0,1**	7,4
1Y2	low max Wnd ;225°	**3,7**	**-6,9**	-6,8	**0,4**	**0,4**	0,0	10,4
1Y2	high max Wnd ;225°	3,5	-6,9	**-8,2**	0,3	0,3	0,0	**11,2**
1Y2	low max Wnd ;45°	-4,6	8,0	**2,0**	-1,1	-1,1	0,0	9,4
1Y2	high max Wnd ;45°	**-4,8**	**8,1**	0,5	**-1,1**	**-1,2**	0,0	9,4
1Y2	low max Wnd ;315°	-3,2	-6,3	-3,8	-0,1	-0,1	**-0,1**	8,0
1Y2	high max Wnd ;135°	2,3	7,3	-2,8	-0,6	-0,5	**0,1**	8,2
1XY2	high max Wnd ;135°	3,6	7,0	**-8,2**	-0,3	0,4	0,0	**11,3**
1XY2	low max Wnd ;315°	-4,7	-8,0	**2,0**	1,1	-1,2	0,0	9,5
1XY2	low max Wnd ;135°	**3,8**	**7,0**	-6,8	**-0,5**	**0,5**	0,0	10,5
1XY2	high max Wnd ;315°	**-4,9**	**-8,2**	0,5	**1,2**	**-1,3**	0,0	9,5
1XY2	high max Wnd ;225°	2,2	-7,3	-2,8	0,5	-0,6	**-0,1**	8,1
1XY2	low max Wnd ;45°	-3,1	6,3	-3,8	0,1	0,0	**0,1**	8,0
N177	low max Wnd ;315°	**-3,2**	-6,5	**2,2**	0,7	-0,6	0,0	7,6
N177	high max Wnd ;135°	3,2	**6,7**	**-7,7**	0,3	-0,3	0,0	**10,7**
N177	low max Wnd ;135°	**3,2**	6,5	-6,5	**0,1**	**-0,1**	0,0	9,7
N177	high max Wnd ;315°	-3,2	**-6,6**	0,8	**0,8**	**-0,7**	0,0	7,3
N177	high max Wnd ;225°	3,1	-6,6	-2,6	0,6	-0,5	**-0,1**	7,7
N177	low max Wnd ;45°	-2,9	6,5	-3,5	0,2	-0,3	**0,1**	7,9
N178	low max Wnd ;315°	**-3,2**	-6,5	**1,5**	0,7	-0,6	0,0	7,4
N178	high max Wnd ;135°	3,2	**6,7**	**-8,0**	0,3	-0,3	0,0	**10,9**
N178	low max Wnd ;135°	**3,2**	6,5	-6,6	**0,1**	**-0,1**	0,0	9,8
N178	high max Wnd ;315°	-3,2	**-6,6**	0,0	**0,8**	**-0,7**	0,0	7,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N178	high max Wnd ;225°	3,0	-6,6	-3,1	0,6	-0,5	**-0,1**	7,9
N178	low max Wnd ;45°	-2,9	6,5	-3,7	0,2	-0,3	**0,1**	8,0
N179	low max Wnd ;315°	**-3,1**	-6,5	**2,2**	0,7	-0,6	0,0	7,6
N179	high max Wnd ;135°	**3,2**	**6,7**	**-7,7**	0,3	-0,3	0,0	**10,7**
N179	low max Wnd ;135°	3,2	6,5	-6,5	**0,1**	**-0,1**	0,0	9,7
N179	high max Wnd ;315°	-3,1	**-6,5**	0,8	**0,8**	**-0,7**	0,0	7,3
N179	high max Wnd ;225°	3,1	-6,5	-2,4	0,6	-0,5	**-0,1**	7,6
N179	low max Wnd ;45°	-3,0	6,4	-3,6	0,2	-0,3	**0,1**	8,0
N180	low max Wnd ;315°	**-3,1**	-6,5	**1,6**	0,7	-0,6	0,0	7,4
N180	high max Wnd ;135°	**3,2**	**6,7**	**-8,0**	0,3	-0,3	0,0	**10,9**
N180	low max Wnd ;135°	3,2	6,5	-6,6	**0,1**	**-0,1**	0,0	9,8
N180	high max Wnd ;315°	-3,1	**-6,5**	0,1	**0,8**	**-0,7**	0,0	7,2
N180	high max Wnd ;225°	3,1	-6,4	-2,9	0,6	-0,5	**-0,1**	7,7
N180	low max Wnd ;45°	-3,0	6,4	-4,0	0,2	-0,3	**0,1**	8,1
N181	high max Wnd ;315°	-3,1	**-6,6**	**-7,6**	-0,3	0,3	0,0	**10,6**
N181	low max Wnd ;135°	3,3	6,6	**2,2**	-0,7	0,6	0,0	7,6
N181	high max Wnd ;135°	**3,3**	**6,6**	0,9	**-0,8**	**0,8**	0,0	7,4
N181	low max Wnd ;315°	**-3,1**	-6,5	-6,4	**-0,1**	**0,1**	0,0	9,7
N181	high max Wnd ;45°	-2,9	6,6	-2,5	-0,6	0,5	**-0,1**	7,6
N181	low max Wnd ;225°	3,0	-6,5	-3,5	-0,2	0,3	**0,1**	7,9
N182	high max Wnd ;315°	-3,1	**-6,6**	**-7,9**	-0,3	0,3	0,0	**10,8**
N182	low max Wnd ;135°	3,3	6,6	**1,6**	-0,7	0,6	0,0	7,5
N182	high max Wnd ;135°	**3,3**	**6,6**	0,1	**-0,8**	**0,8**	0,0	7,4
N182	low max Wnd ;315°	**-3,1**	-6,5	-6,6	**-0,1**	**0,1**	0,0	9,7
N182	high max Wnd ;45°	-2,8	6,6	-3,1	-0,6	0,5	**-0,1**	7,8
N182	low max Wnd ;225°	3,0	-6,5	-3,7	-0,2	0,3	**0,1**	8,0
N183	high max Wnd ;315°	-3,1	**-6,6**	**-7,7**	-0,3	0,3	0,0	**10,6**
N183	low max Wnd ;135°	3,2	6,5	**2,2**	-0,7	0,6	0,0	7,6
N183	high max Wnd ;135°	**3,3**	**6,6**	0,9	**-0,8**	**0,8**	0,0	7,4
N183	low max Wnd ;315°	**-3,1**	-6,5	-6,4	**-0,1**	**0,1**	0,0	9,7
N183	high max Wnd ;45°	-3,0	6,5	-2,4	-0,6	0,5	**-0,1**	7,5
N183	low max Wnd ;225°	3,1	-6,4	-3,6	-0,2	0,3	**0,1**	8,0
N184	high max Wnd ;315°	-3,1	**-6,6**	**-8,0**	-0,3	0,3	0,0	**10,8**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N184	low max Wnd ;135°	3,2	6,5	**1,6**	-0,7	0,6	0,0	7,4
N184	high max Wnd ;135°	**3,3**	**6,6**	0,1	**-0,8**	**0,8**	0,0	7,3
N184	low max Wnd ;315°	**-3,1**	-6,5	-6,6	**-0,1**	**0,1**	0,0	9,7
N184	high max Wnd ;45°	-3,0	6,4	-2,8	-0,6	0,5	**-0,1**	7,6
N184	low max Wnd ;225°	3,1	-6,4	-3,9	-0,2	0,3	**0,1**	8,1
1P2	high max Wnd ;315°	-3,3	-6,8	**-8,1**	0,3	-0,3	0,0	**11,1**
1P2	low max Wnd ;135°	4,7	8,0	**2,0**	-1,1	1,1	0,0	9,5
1P2	high max Wnd ;135°	**4,9**	**8,2**	0,6	**-1,2**	**1,2**	0,0	9,6
1P2	low max Wnd ;315°	**-3,6**	**-6,9**	-6,7	**0,4**	**-0,4**	0,0	10,3
1P2	high max Wnd ;45°	-2,1	7,4	-2,7	-0,6	0,6	**-0,1**	8,1
1P2	low max Wnd ;225°	3,3	-6,2	-3,8	-0,1	0,1	**0,1**	8,0
1X2	high max Wnd ;225°	**5,0**	**-8,2**	0,6	**1,2**	**1,3**	0,0	9,6
1X2	high max Wnd ;45°	-3,4	6,9	**-8,1**	-0,3	-0,4	0,0	**11,1**
1X2	low max Wnd ;225°	4,8	-8,0	**2,1**	1,1	1,2	0,0	9,5
1X2	low max Wnd ;45°	**-3,7**	**6,9**	-6,8	**-0,4**	**-0,5**	0,0	10,3
1X2	low max Wnd ;135°	3,2	6,2	-3,8	0,1	0,1	**-0,1**	8,0
1X2	high max Wnd ;315°	-2,1	-7,3	-2,7	0,5	0,6	**0,1**	8,1
N187	high max Wnd ;225°	**3,3**	**-6,6**	0,9	**0,8**	**0,8**	0,0	7,4
N187	high max Wnd ;45°	-3,1	**6,6**	**-7,6**	0,3	0,3	0,0	**10,6**
N187	low max Wnd ;225°	3,3	-6,5	**2,2**	0,6	0,6	0,0	7,6
N187	low max Wnd ;45°	**-3,1**	6,5	-6,4	**0,1**	**0,1**	0,0	9,7
N187	low max Wnd ;135°	3,0	6,5	-3,5	0,2	0,3	**-0,1**	7,9
N187	high max Wnd ;315°	-2,9	-6,6	-2,5	0,6	0,5	**0,1**	7,6
N188	high max Wnd ;225°	**3,3**	**-6,6**	0,1	**0,8**	**0,8**	0,0	7,4
N188	high max Wnd ;45°	-3,1	**6,6**	**-7,9**	0,3	0,3	0,0	**10,8**
N188	low max Wnd ;225°	3,3	-6,5	**1,6**	0,6	0,6	0,0	7,5
N188	low max Wnd ;45°	**-3,1**	6,5	-6,6	**0,1**	**0,1**	0,0	9,8
N188	low max Wnd ;135°	3,0	6,5	-3,7	0,2	0,3	**-0,1**	8,0
N188	high max Wnd ;315°	-2,8	-6,6	-3,1	0,6	0,5	**0,1**	7,8
N189	high max Wnd ;225°	**3,3**	**-6,6**	0,9	**0,8**	**0,8**	0,0	7,4
N189	high max Wnd ;45°	-3,1	**6,6**	**-7,6**	0,3	0,3	0,0	**10,6**
N189	low max Wnd ;225°	3,2	-6,5	**2,3**	0,6	0,6	0,0	7,6
N189	low max Wnd ;45°	**-3,1**	6,5	-6,4	**0,1**	**0,1**	0,0	9,6

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N189	low max Wnd ;135°	3,1	6,4	-3,6	0,2	0,3	**-0,1**	8,0
N189	high max Wnd ;315°	-3,0	-6,5	-2,3	0,6	0,5	**0,1**	7,5
N190	high max Wnd ;225°	**3,3**	**-6,5**	0,1	**0,8**	**0,8**	0,0	7,3
N190	high max Wnd ;45°	-3,1	**6,6**	**-7,9**	0,3	0,3	0,0	**10,8**
N190	low max Wnd ;225°	3,2	-6,5	**1,6**	0,6	0,6	0,0	7,4
N190	low max Wnd ;45°	**-3,1**	6,5	-6,6	**0,1**	**0,1**	0,0	9,7
N190	low max Wnd ;135°	3,1	6,4	-3,9	0,2	0,3	**-0,1**	8,1
N190	high max Wnd ;315°	-3,0	-6,4	-2,8	0,6	0,5	**0,1**	7,6
N191	low max Wnd ;45°	**-3,2**	6,5	**1,8**	-0,7	-0,6	0,0	7,5
N191	high max Wnd ;225°	3,2	**-6,6**	**-7,9**	-0,3	-0,3	0,0	**10,8**
N191	high max Wnd ;45°	-3,2	**6,6**	0,3	**-0,8**	**-0,7**	0,0	7,3
N191	low max Wnd ;225°	**3,2**	-6,5	-6,6	**-0,1**	**-0,1**	0,0	9,8
N191	low max Wnd ;315°	-2,9	-6,4	-3,8	-0,2	-0,3	**0,0**	8,0
N191	high max Wnd ;135°	3,1	6,5	-2,8	-0,6	-0,5	**0,1**	7,7
N192	high max Wnd ;315°	-3,1	**-6,6**	**-7,8**	-0,3	0,3	0,0	**10,7**
N192	low max Wnd ;135°	3,2	6,5	**1,8**	-0,7	0,6	0,0	7,5
N192	high max Wnd ;135°	**3,3**	**6,6**	0,4	**-0,8**	**0,8**	0,0	7,4
N192	low max Wnd ;315°	**-3,1**	-6,5	-6,5	**-0,1**	**0,1**	0,0	9,7
N192	high max Wnd ;45°	-2,9	6,5	-2,7	-0,6	0,5	**-0,1**	7,6
N192	low max Wnd ;225°	3,0	-6,4	-3,7	-0,2	0,3	**0,1**	8,0
N193	low max Wnd ;315°	**-3,2**	-6,5	**1,8**	0,7	-0,6	0,0	7,5
N193	high max Wnd ;135°	3,2	**6,7**	**-7,9**	0,3	-0,3	0,0	**10,8**
N193	low max Wnd ;135°	**3,2**	6,5	-6,6	**0,1**	**-0,1**	0,0	9,8
N193	high max Wnd ;315°	-3,2	**-6,6**	0,3	**0,8**	**-0,7**	0,0	7,3
N193	high max Wnd ;225°	3,1	-6,5	-2,8	0,6	-0,5	**-0,1**	7,7
N193	low max Wnd ;45°	-2,9	6,4	-3,7	0,2	-0,3	**0,1**	8,0
N194	high max Wnd ;225°	**3,3**	**-6,6**	0,4	**0,8**	**0,8**	0,0	7,4
N194	high max Wnd ;45°	-3,1	**6,6**	**-7,8**	0,3	0,3	0,0	**10,7**
N194	low max Wnd ;225°	3,2	-6,5	**1,9**	0,6	0,6	0,0	7,5
N194	low max Wnd ;45°	**-3,1**	6,5	-6,5	**0,1**	**0,1**	0,0	9,7
N194	low max Wnd ;135°	3,0	6,4	-3,7	0,2	0,3	**-0,1**	8,0
N194	high max Wnd ;315°	-2,9	-6,5	-2,7	0,6	0,5	**0,1**	7,6
N195	high max Wnd ;225°	**-1,1**	**1,5**	-3,3	**1,1**	0,3	-0,3	3,8

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N195	low max Wnd ;45°	**0,7**	-1,5	-1,5	**-0,8**	-0,4	0,0	2,2
N195	high max Wnd ;45°	0,6	**-1,5**	-2,4	-0,8	**-0,5**	0,0	2,9
N195	low max Wnd ;225°	-1,0	1,5	-2,4	1,0	**0,3**	-0,2	3,0
N195	high max Wnd ;315°	-0,5	1,5	**-7,3**	1,0	-0,4	**-0,3**	**7,5**
N195	low max Wnd ;135°	0,3	-1,3	**3,2**	-0,8	0,2	**0,0**	3,5
N196	high max Wnd ;225°	**-1,2**	1,6	-3,7	**1,0**	0,3	-0,2	4,2
N196	low max Wnd ;135°	0,2	-1,4	**2,7**	-0,7	0,2	0,0	3,1
N196	low max Wnd ;45°	**0,5**	-1,4	-2,0	**-0,8**	-0,4	**0,0**	2,5
N196	high max Wnd ;45°	0,4	**-1,4**	-3,1	-0,8	**-0,4**	0,0	3,4
N196	low max Wnd ;225°	-1,1	1,5	-2,6	1,0	**0,3**	-0,2	3,2
N196	high max Wnd ;315°	-0,8	**1,6**	**-7,9**	1,0	-0,3	**-0,3**	**8,1**
N197	high max Wnd ;225°	**-1,3**	1,6	-3,8	1,0	0,3	-0,2	4,4
N197	low max Wnd ;135°	0,1	**-1,5**	**2,0**	-0,8	0,2	0,0	2,5
N197	low max Wnd ;45°	**0,4**	-1,4	-2,6	**-0,8**	-0,4	**0,0**	2,9
N197	high max Wnd ;45°	0,2	-1,4	-3,8	-0,8	**-0,4**	-0,1	4,0
N197	low max Wnd ;225°	-1,1	1,6	-2,6	1,0	**0,4**	-0,2	3,3
N197	high max Wnd ;315°	-0,8	**1,8**	**-8,0**	**1,0**	-0,3	**-0,3**	**8,2**
N198	high max Wnd ;315°	0,7	-0,1	**-8,8**	0,8	-0,4	**0,1**	**8,8**
N198	low max Wnd ;135°	-0,6	-0,4	**3,6**	-0,6	0,2	0,1	3,6
N198	high max Wnd ;225°	-0,7	0,6	-6,0	**0,9**	0,3	0,1	6,0
N198	high max Wnd ;45°	**0,8**	**-1,3**	-0,8	**-0,8**	**-0,5**	0,1	1,8
N198	low max Wnd ;225°	**-0,7**	**0,7**	-4,9	0,9	**0,3**	**0,0**	5,0
N199	high max Wnd ;315°	**0,9**	-0,2	**-9,0**	0,8	-0,4	**0,2**	**9,1**
N199	high max Wnd ;225°	-0,6	0,5	-6,5	**0,9**	0,3	0,1	6,5
N199	high max Wnd ;45°	0,8	**-1,4**	-1,2	**-0,8**	**-0,5**	0,1	2,0
N199	low max Wnd ;225°	-0,6	**0,6**	-5,2	0,8	**0,3**	0,1	5,3
N199	low max Wnd ;135°	**-0,7**	-0,5	**2,9**	-0,6	0,3	**0,0**	3,0
N200	high max Wnd ;135°	-0,6	**-1,5**	-2,5	-0,8	**0,5**	0,0	3,0
N200	high max Wnd ;225°	0,5	1,5	**-7,4**	1,0	0,4	**0,3**	**7,6**
N200	low max Wnd ;135°	**-0,7**	-1,5	-1,6	**-0,8**	0,4	0,0	2,3
N200	high max Wnd ;315°	**1,1**	**1,5**	-3,4	**1,0**	-0,3	0,3	3,9
N200	low max Wnd ;315°	1,0	1,5	-2,4	1,0	**-0,3**	0,2	3,0
N200	low max Wnd ;45°	-0,3	-1,3	**3,1**	-0,8	-0,2	**0,0**	3,4

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N201	high max Wnd ;135°	-0,4	**-1,4**	-3,2	-0,8	**0,4**	0,0	3,5
N201	high max Wnd ;225°	0,8	**1,6**	**-8,0**	1,0	0,3	**0,3**	**8,2**
N201	low max Wnd ;45°	-0,2	-1,4	**2,6**	-0,7	-0,1	0,0	3,0
N201	high max Wnd ;315°	**1,2**	1,6	-3,8	**1,0**	-0,3	0,2	4,2
N201	low max Wnd ;315°	1,1	1,5	-2,7	1,0	**-0,3**	0,2	3,3
N201	low max Wnd ;135°	**-0,5**	-1,4	-2,1	**-0,8**	0,4	**0,0**	2,6
N202	high max Wnd ;315°	**1,3**	1,6	-3,9	1,0	-0,3	0,2	4,5
N202	low max Wnd ;45°	-0,1	**-1,5**	**1,9**	-0,8	-0,2	0,0	2,4
N202	high max Wnd ;225°	0,8	**1,8**	**-8,1**	**1,0**	0,3	**0,3**	**8,3**
N202	low max Wnd ;315°	1,1	1,6	-2,7	1,0	**-0,3**	0,2	3,3
N202	high max Wnd ;135°	-0,2	-1,4	-3,9	-0,8	**0,4**	0,1	4,1
N202	low max Wnd ;135°	**-0,4**	-1,4	-2,6	**-0,8**	0,4	**0,0**	3,0
N203	low max Wnd ;45°	0,6	-0,4	**3,5**	-0,6	-0,2	-0,1	3,6
N203	high max Wnd ;135°	**-0,8**	**-1,3**	-0,9	**-0,8**	**0,5**	-0,1	1,8
N203	high max Wnd ;315°	0,7	0,6	-6,0	**0,9**	-0,3	-0,1	6,1
N203	low max Wnd ;315°	**0,7**	**0,7**	-4,9	0,9	**-0,3**	**0,0**	5,0
N203	high max Wnd ;225°	-0,7	-0,1	**-8,9**	0,8	0,4	**-0,1**	**8,9**
N204	high max Wnd ;135°	-0,8	**-1,4**	-1,3	**-0,8**	**0,5**	-0,1	2,1
N204	high max Wnd ;315°	0,5	0,5	-6,5	**0,9**	-0,3	-0,1	6,6
N204	low max Wnd ;315°	0,6	**0,6**	-5,3	0,8	**-0,3**	-0,1	5,3
N204	high max Wnd ;225°	**-0,9**	-0,2	**-9,1**	0,8	0,5	**-0,2**	**9,1**
N204	low max Wnd ;45°	**0,7**	-0,5	**2,8**	-0,6	-0,2	**-0,1**	3,0
N205	low max Wnd ;225°	**-0,7**	1,4	-1,6	**0,8**	0,4	0,0	2,2
N205	high max Wnd ;45°	**1,1**	**-1,5**	-3,4	**-1,0**	-0,3	-0,3	3,8
N205	low max Wnd ;45°	1,0	-1,5	-2,4	-1,0	**-0,3**	-0,2	3,0
N205	high max Wnd ;225°	-0,6	**1,5**	-2,5	0,8	**0,5**	0,0	3,0
N205	high max Wnd ;135°	0,5	-1,5	**-7,4**	-1,0	0,4	**-0,3**	**7,6**
N205	low max Wnd ;315°	-0,3	1,3	**3,1**	0,8	-0,2	**0,0**	3,4
N206	low max Wnd ;225°	**-0,5**	1,4	-2,1	**0,8**	0,4	**0,0**	2,6
N206	low max Wnd ;315°	-0,2	1,4	**2,7**	0,7	-0,1	0,0	3,0
N206	high max Wnd ;45°	**1,2**	-1,6	-3,7	**-1,0**	-0,3	-0,2	4,2
N206	low max Wnd ;45°	1,1	-1,5	-2,6	-1,0	**-0,3**	-0,2	3,2
N206	high max Wnd ;225°	-0,4	**1,4**	-3,2	0,8	**0,4**	0,0	3,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N206	high max Wnd ;135°	0,8	**-1,6**	**-8,0**	-1,0	0,3	**-0,3**	**8,2**
N207	low max Wnd ;225°	**-0,4**	1,4	-2,6	**0,8**	0,4	**0,0**	3,0
N207	high max Wnd ;45°	**1,3**	-1,6	-3,9	-1,0	-0,3	-0,2	4,4
N207	low max Wnd ;315°	-0,1	**1,5**	**1,9**	0,8	-0,2	0,0	2,4
N207	low max Wnd ;45°	1,1	-1,6	-2,7	-1,0	**-0,3**	-0,2	3,3
N207	high max Wnd ;225°	-0,2	1,4	-3,8	0,8	**0,4**	-0,1	4,1
N207	high max Wnd ;135°	0,8	**-1,8**	**-8,1**	**-1,1**	0,3	**-0,3**	**8,3**
N208	high max Wnd ;225°	**-0,8**	**1,3**	-0,9	**0,8**	**0,5**	0,1	1,8
N208	high max Wnd ;135°	-0,7	0,1	**-8,9**	-0,8	0,4	**0,1**	**8,9**
N208	low max Wnd ;315°	0,6	0,4	**3,5**	0,6	-0,2	0,1	3,6
N208	high max Wnd ;45°	0,7	-0,6	-6,0	**-0,9**	-0,3	0,1	6,1
N208	low max Wnd ;45°	**0,7**	**-0,7**	-4,9	-0,9	**-0,3**	**0,0**	5,0
N209	high max Wnd ;135°	**-0,9**	0,2	**-9,1**	-0,8	0,5	**0,2**	**9,1**
N209	high max Wnd ;45°	0,5	-0,5	-6,5	**-0,9**	-0,3	0,1	6,5
N209	low max Wnd ;45°	0,6	**-0,6**	-5,3	-0,8	**-0,3**	0,1	5,3
N209	high max Wnd ;225°	-0,8	**1,4**	-1,2	**0,8**	**0,5**	0,1	2,1
N209	low max Wnd ;315°	**0,7**	0,5	**2,8**	0,6	-0,2	**0,0**	3,0
N210	low max Wnd ;135°	**-0,7**	**-0,7**	-4,8	-0,9	**0,3**	**0,0**	4,9
N210	low max Wnd ;225°	-0,6	0,3	**3,6**	0,6	0,2	0,0	3,6
N210	high max Wnd ;135°	-0,7	-0,6	-5,9	**-0,9**	0,3	-0,1	6,0
N210	high max Wnd ;315°	**0,8**	**1,3**	-0,8	**0,8**	**-0,5**	-0,1	1,7
N210	high max Wnd ;45°	0,7	0,1	**-8,8**	-0,8	-0,4	**-0,1**	**8,8**
N211	low max Wnd ;225°	**-0,7**	0,5	**2,9**	0,6	0,3	**0,0**	3,0
N211	low max Wnd ;135°	-0,6	**-0,6**	-5,2	-0,8	**0,3**	-0,1	5,3
N211	high max Wnd ;135°	-0,6	-0,5	-6,4	**-0,9**	0,3	-0,1	6,5
N211	high max Wnd ;315°	0,8	**1,4**	-1,2	**0,8**	**-0,5**	-0,1	2,0
N211	high max Wnd ;45°	**0,9**	0,1	**-9,0**	-0,8	-0,4	**-0,2**	**9,0**
N212	high max Wnd ;45°	-0,5	-1,5	**-7,3**	-1,0	-0,4	**0,3**	**7,5**
N212	high max Wnd ;135°	**-1,1**	**-1,5**	-3,3	**-1,1**	0,3	0,3	3,8
N212	low max Wnd ;315°	**0,7**	1,5	-1,5	**0,8**	-0,4	0,0	2,2
N212	high max Wnd ;315°	0,6	**1,5**	-2,4	0,8	**-0,5**	0,0	2,9
N212	low max Wnd ;135°	-1,0	-1,5	-2,4	-1,0	**0,3**	0,2	3,0
N212	low max Wnd ;225°	0,3	1,3	**3,2**	0,8	0,2	**0,0**	3,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N213	high max Wnd ;45°	-0,8	**-1,6**	**-7,9**	-1,0	-0,3	**0,3**	**8,1**
N213	low max Wnd ;225°	0,2	1,4	**2,8**	0,7	0,2	0,0	3,1
N213	high max Wnd ;135°	**-1,2**	-1,6	-3,6	**-1,0**	0,3	0,2	4,2
N213	high max Wnd ;315°	0,4	**1,4**	-3,1	0,8	**-0,4**	0,0	3,4
N213	low max Wnd ;135°	-1,1	-1,5	-2,6	-1,0	**0,3**	0,2	3,2
N213	low max Wnd ;315°	**0,5**	1,4	-2,0	**0,8**	-0,4	**0,0**	2,5
N214	high max Wnd ;135°	**-1,3**	-1,6	-3,8	-1,0	0,3	0,2	4,4
N214	low max Wnd ;225°	0,1	**1,5**	**2,0**	0,8	0,2	0,0	2,5
N214	high max Wnd ;45°	-0,8	**-1,8**	**-8,0**	**-1,1**	-0,3	**0,3**	**8,2**
N214	high max Wnd ;315°	0,2	1,4	-3,7	0,8	**-0,4**	0,1	4,0
N214	low max Wnd ;135°	-1,1	-1,6	-2,6	-1,0	**0,3**	0,2	3,3
N214	low max Wnd ;315°	**0,4**	1,4	-2,5	**0,8**	-0,4	**0,0**	2,9
N215	low max Wnd ;315°	**-3,1**	-6,5	**2,5**	0,5	-0,4	0,0	7,7
N215	low max Wnd ;135°	**3,2**	6,5	-5,9	0,4	-0,6	0,0	9,3
N215	high max Wnd ;315°	-3,1	**-6,6**	1,3	0,6	-0,5	0,0	7,4
N215	low max Wnd ;45°	-3,0	6,5	-3,1	**0,3**	-0,5	**0,0**	7,8
N215	high max Wnd ;135°	3,2	**6,7**	**-6,9**	**0,6**	**-0,8**	0,0	**10,1**
N215	low max Wnd ;225°	3,1	-6,4	-1,0	0,4	**-0,3**	-0,1	7,2
N215	high max Wnd ;225°	3,1	-6,5	-2,0	0,6	-0,5	**-0,1**	7,5
N216	low max Wnd ;45°	**-3,1**	6,5	**2,5**	-0,5	-0,4	0,0	7,7
N216	high max Wnd ;45°	-3,1	**6,6**	1,2	-0,6	-0,5	0,0	7,4
N216	high max Wnd ;225°	**3,2**	**-6,6**	**-6,9**	**-0,6**	**-0,8**	0,0	**10,1**
N216	low max Wnd ;135°	3,1	6,4	-1,0	-0,4	**-0,3**	0,1	7,2
N216	low max Wnd ;315°	-3,0	-6,5	-3,1	**-0,3**	-0,5	**0,0**	7,8
N216	high max Wnd ;135°	3,1	6,6	-2,0	-0,6	-0,5	**0,1**	7,5
N217	low max Wnd ;45°	**-3,1**	6,5	-4,9	0,4	0,6	0,0	8,7
N217	high max Wnd ;225°	**3,2**	-6,6	2,3	0,6	0,5	0,0	7,7
N217	high max Wnd ;315°	-3,1	**-6,6**	-0,9	0,6	0,5	**0,1**	7,3
N217	high max Wnd ;45°	-3,1	**6,6**	**-5,5**	**0,6**	**0,8**	0,0	**9,2**
N217	low max Wnd ;225°	3,2	-6,6	**3,3**	0,4	0,4	0,0	8,0
N217	low max Wnd ;315°	-3,0	-6,4	-0,3	0,4	**0,3**	0,1	7,1
N217	low max Wnd ;135°	3,1	6,5	-2,3	**0,3**	0,5	**0,0**	7,6
N218	high max Wnd ;225°	**3,2**	**-6,5**	-0,6	0,7	**0,8**	0,0	7,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N218	high max Wnd ;45°	-3,0	**6,6**	**-5,7**	**1,7**	-0,5	0,0	**9,2**
N218	low max Wnd ;225°	3,2	-6,4	**0,6**	**0,4**	0,8	0,0	7,2
N218	low max Wnd ;45°	**-3,1**	6,4	-4,6	1,4	**-0,5**	0,0	8,5
N218	low max Wnd ;135°	3,1	6,3	-3,1	1,0	0,0	**0,0**	7,7
N218	high max Wnd ;315°	-3,1	-6,3	-2,3	1,0	0,2	**0,0**	7,4
N219	high max Wnd ;225°	**3,3**	-6,6	-0,7	0,9	0,7	0,0	7,4
N219	high max Wnd ;315°	-2,8	**-6,6**	-2,7	0,4	1,1	**0,0**	7,6
N219	high max Wnd ;45°	-3,1	**6,6**	**-5,2**	-0,6	**1,9**	0,0	**9,0**
N219	low max Wnd ;45°	**-3,1**	6,5	-4,2	**-0,6**	1,4	0,0	8,3
N219	low max Wnd ;225°	3,3	-6,5	**0,4**	**0,9**	**0,3**	0,0	7,3
N219	low max Wnd ;135°	2,9	6,5	-2,4	-0,3	1,0	**0,0**	7,5
N220	low max Wnd ;225°	0,0	**0,0**	**0,3**	0,0	0,0	0,0	0,3
N220	high max Wnd ;45°	0,0	0,0	**-0,9**	0,0	**0,0**	0,0	**0,9**
N220	low max Wnd ;135°	0,0	0,0	-0,5	0,0	0,0	**0,0**	0,5
N220	high max Wnd ;315°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N221	high max Wnd ;45°	0,0	0,0	**-0,8**	**0,0**	0,0	0,0	**0,8**
N221	low max Wnd ;225°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	0,0	0,1
N221	low max Wnd ;135°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N221	high max Wnd ;315°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N224	low max Wnd ;315°	**-3,1**	-6,6	**3,3**	0,5	-0,4	0,0	8,0
N224	low max Wnd ;45°	-3,0	6,5	-2,3	**0,3**	-0,5	**0,0**	7,5
N224	high max Wnd ;135°	**3,2**	**6,7**	**-5,6**	**0,6**	**-0,8**	0,0	**9,3**
N224	low max Wnd ;225°	3,1	-6,4	-0,4	0,4	**-0,3**	-0,1	7,2
N224	high max Wnd ;225°	3,2	**-6,6**	-1,0	0,6	-0,5	**-0,1**	7,4
N225	high max Wnd ;135°	3,2	**6,6**	**-5,7**	**1,8**	0,5	0,0	**9,3**
N225	low max Wnd ;315°	**-3,1**	-6,4	**0,6**	**0,4**	-0,8	0,0	7,2
N225	high max Wnd ;315°	-3,1	**-6,5**	-0,7	0,7	**-0,8**	0,0	7,2
N225	low max Wnd ;135°	**3,2**	6,5	-4,6	1,3	**0,5**	0,0	8,6
N225	high max Wnd ;225°	3,2	-6,3	-2,3	1,0	-0,2	**0,0**	7,5
N225	low max Wnd ;45°	-3,0	6,3	-3,1	1,0	0,0	**0,0**	7,7
N226	high max Wnd ;135°	0,0	0,0	**-0,9**	0,0	0,0	0,0	**0,9**
N226	low max Wnd ;315°	**0,0**	**0,0**	**0,2**	**0,0**	**0,0**	0,0	0,2
N226	low max Wnd ;45°	0,0	0,0	-0,5	**0,0**	0,0	**0,0**	0,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N226	high max Wnd ;225°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N227	low max Wnd ;315°	**-3,2**	-6,5	**0,3**	**0,9**	**-0,3**	0,0	7,3
N227	low max Wnd ;135°	**3,2**	6,5	-4,2	**-0,7**	-1,4	0,0	8,4
N227	high max Wnd ;135°	3,2	**6,6**	**-5,3**	-0,6	**-1,9**	0,0	**9,0**
N227	high max Wnd ;225°	2,9	**-6,6**	-2,7	0,4	-1,1	**0,0**	7,7
N227	low max Wnd ;45°	-2,9	6,5	-2,5	-0,3	-1,0	**0,0**	7,5
N228	low max Wnd ;315°	0,0	**0,0**	**0,1**	0,0	0,0	0,0	0,1
N228	high max Wnd ;135°	0,0	0,0	**-0,8**	**0,0**	0,0	0,0	**0,8**
N228	high max Wnd ;225°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N228	low max Wnd ;45°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N229	high max Wnd ;225°	**3,3**	**-6,6**	-1,4	0,9	0,7	0,0	7,5
N229	high max Wnd ;45°	-3,1	**6,6**	**-7,1**	-0,6	**1,9**	0,0	**10,2**
N229	low max Wnd ;45°	**-3,1**	6,5	-5,7	**-0,6**	1,4	0,0	9,1
N229	low max Wnd ;225°	3,3	-6,5	**0,1**	**0,9**	**0,3**	0,0	7,3
N229	low max Wnd ;135°	2,9	6,5	-3,4	-0,3	1,0	**0,0**	7,9
N229	high max Wnd ;315°	-2,8	-6,6	-3,8	0,4	1,1	**0,0**	8,1
N230	high max Wnd ;225°	**3,3**	**-6,5**	-1,3	0,7	**0,8**	0,0	7,4
N230	high max Wnd ;45°	-3,0	**6,6**	**-7,3**	**1,7**	-0,5	0,0	**10,3**
N230	low max Wnd ;225°	3,2	-6,4	**0,3**	**0,4**	0,8	0,0	7,2
N230	low max Wnd ;45°	**-3,1**	6,4	-5,8	1,4	**-0,5**	0,0	9,2
N230	low max Wnd ;135°	3,1	6,3	-4,0	1,0	0,0	**0,0**	8,1
N230	high max Wnd ;315°	-3,0	-6,3	-3,2	1,0	0,2	**0,0**	7,7
N231	low max Wnd ;45°	**-3,1**	6,5	**3,3**	-0,5	-0,4	0,0	8,0
N231	high max Wnd ;225°	**3,2**	**-6,6**	**-5,6**	**-0,6**	**-0,8**	0,0	**9,3**
N231	low max Wnd ;135°	3,1	6,5	-0,4	-0,4	**-0,3**	0,1	7,2
N231	low max Wnd ;315°	-3,0	-6,5	-2,3	**-0,3**	-0,5	**0,0**	7,5
N231	high max Wnd ;135°	3,2	**6,6**	-1,0	-0,6	-0,5	**0,1**	7,4
N232	low max Wnd ;45°	**-3,1**	6,4	**0,6**	**-0,4**	-0,8	0,0	7,2
N232	high max Wnd ;225°	**3,2**	**-6,6**	**-5,7**	**-1,8**	0,5	0,0	**9,3**
N232	high max Wnd ;45°	-3,1	**6,5**	-0,7	-0,7	**-0,8**	0,0	7,2
N232	low max Wnd ;225°	3,2	-6,5	-4,6	-1,4	**0,5**	0,0	8,6
N232	low max Wnd ;315°	-3,0	-6,3	-3,1	-1,0	0,0	**0,0**	7,7
N232	high max Wnd ;135°	3,2	6,3	-2,3	-1,0	-0,2	**0,0**	7,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N233	high max Wnd ;225°	0,0	0,0	**-0,9**	0,0	0,0	0,0	**0,9**
N233	low max Wnd ;45°	**0,0**	**0,0**	**0,2**	**0,0**	**0,0**	0,0	0,2
N233	high max Wnd ;135°	0,0	0,0	-0,4	**0,0**	0,0	**0,0**	0,4
N233	low max Wnd ;315°	0,0	0,0	-0,5	0,0	0,0	**0,0**	0,5
N234	low max Wnd ;45°	**-3,2**	6,5	**0,3**	**-0,9**	**-0,3**	0,0	7,3
N234	low max Wnd ;225°	**3,2**	-6,5	-4,2	**0,7**	-1,4	0,0	8,4
N234	high max Wnd ;225°	3,2	**-6,6**	**-5,3**	0,6	**-1,9**	0,0	**9,0**
N234	low max Wnd ;315°	-2,9	-6,5	-2,5	0,3	-1,0	**0,0**	7,5
N234	high max Wnd ;135°	2,9	**6,6**	-2,7	-0,4	-1,1	**0,0**	7,7
N235	high max Wnd ;225°	0,0	0,0	**-0,8**	0,0	0,0	0,0	**0,8**
N235	low max Wnd ;45°	0,0	0,0	**0,1**	**0,0**	0,0	0,0	0,1
N235	low max Wnd ;315°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N235	high max Wnd ;135°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N236	low max Wnd ;315°	**-3,1**	-6,5	-4,9	-0,4	0,6	0,0	8,7
N236	high max Wnd ;135°	**3,3**	6,6	2,4	-0,6	0,5	0,0	7,7
N236	low max Wnd ;135°	3,2	6,6	**3,3**	-0,5	0,4	0,0	8,0
N236	high max Wnd ;315°	-3,1	**-6,6**	**-5,5**	**-0,6**	**0,8**	0,0	**9,2**
N236	low max Wnd ;45°	-3,1	6,5	-0,3	-0,4	**0,3**	-0,1	7,1
N236	high max Wnd ;45°	-3,1	**6,6**	-0,9	-0,6	0,5	**-0,1**	7,3
N236	low max Wnd ;225°	3,1	-6,5	-2,3	**-0,3**	0,5	**0,0**	7,6
N237	high max Wnd ;315°	-3,1	**-6,6**	**-5,7**	**-1,7**	-0,5	0,0	**9,2**
N237	low max Wnd ;135°	3,2	6,4	**0,6**	**-0,4**	0,8	0,0	7,2
N237	low max Wnd ;315°	**-3,1**	-6,4	-4,6	-1,3	**-0,5**	0,0	8,5
N237	high max Wnd ;135°	**3,2**	**6,5**	-0,6	-0,7	**0,8**	0,0	7,3
N237	high max Wnd ;45°	-3,1	6,3	-2,3	-1,0	0,2	**0,0**	7,4
N237	low max Wnd ;225°	3,1	-6,3	-3,1	-1,0	0,0	**0,0**	7,7
N238	low max Wnd ;135°	**0,0**	**0,0**	**0,3**	**0,0**	**0,0**	0,0	0,3
N238	high max Wnd ;315°	0,0	0,0	**-0,9**	0,0	**0,0**	0,0	**0,9**
N238	high max Wnd ;45°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N238	low max Wnd ;225°	0,0	0,0	-0,5	0,0	0,0	**0,0**	0,5
N239	low max Wnd ;315°	**-3,1**	-6,5	-4,2	**0,7**	1,4	0,0	8,3
N239	high max Wnd ;135°	**3,3**	6,6	-0,8	-0,9	0,7	0,0	7,4
N239	high max Wnd ;315°	-3,0	**-6,6**	**-5,2**	0,6	**1,8**	0,0	**9,0**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N239	low max Wnd ;135°	3,3	6,5	**0,3**	**-0,9**	**0,3**	0,0	7,3
N239	high max Wnd ;45°	-2,8	**6,6**	-2,7	-0,4	1,1	**0,0**	7,7
N239	low max Wnd ;225°	3,0	-6,5	-2,4	0,3	1,0	**0,0**	7,5
N240	high max Wnd ;315°	0,0	0,0	**-0,8**	0,0	0,0	0,0	**0,8**
N240	low max Wnd ;135°	0,0	0,0	**0,1**	**0,0**	0,0	0,0	0,1
N240	high max Wnd ;45°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N240	low max Wnd ;225°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N241	high max Wnd ;135°	3,2	**6,6**	**-7,3**	**1,8**	0,5	0,0	**10,4**
N241	low max Wnd ;315°	**-3,1**	-6,4	**0,2**	**0,4**	-0,8	0,0	7,1
N241	high max Wnd ;315°	-3,1	**-6,5**	-1,3	0,7	**-0,8**	0,0	7,3
N241	low max Wnd ;135°	**3,2**	6,5	-5,8	1,3	**0,5**	0,0	9,3
N241	high max Wnd ;225°	3,2	-6,3	-3,3	1,0	-0,2	**0,0**	7,8
N241	low max Wnd ;45°	-3,0	6,3	-4,0	1,0	0,0	**0,0**	8,0
N242	low max Wnd ;315°	**-3,2**	-6,5	**0,0**	**0,9**	**-0,3**	0,0	7,3
N242	low max Wnd ;135°	**3,2**	6,5	-5,7	**-0,7**	-1,4	0,0	9,2
N242	high max Wnd ;135°	3,2	**6,7**	**-7,1**	-0,6	**-1,9**	0,0	**10,3**
N242	high max Wnd ;225°	2,9	**-6,6**	-3,9	0,4	-1,1	**0,0**	8,2
N242	low max Wnd ;45°	-2,9	6,5	-3,5	-0,3	-1,0	**0,0**	7,9
N243	low max Wnd ;45°	**-3,2**	6,5	**0,0**	**-0,9**	**-0,3**	0,0	7,3
N243	low max Wnd ;225°	**3,2**	-6,5	-5,7	**0,7**	-1,4	0,0	9,2
N243	high max Wnd ;225°	3,2	**-6,6**	**-7,1**	0,6	**-1,9**	0,0	**10,3**
N243	low max Wnd ;315°	-2,9	-6,5	-3,5	0,3	-1,0	**0,0**	7,9
N243	high max Wnd ;135°	2,9	**6,6**	-3,9	-0,4	-1,1	**0,0**	8,2
N244	low max Wnd ;315°	**-3,1**	-6,5	-5,6	**0,7**	1,4	0,0	9,1
N244	high max Wnd ;135°	**3,3**	**6,6**	-1,5	-0,9	0,7	0,0	7,5
N244	high max Wnd ;315°	-3,0	**-6,6**	**-7,1**	0,6	**1,8**	0,0	**10,1**
N244	low max Wnd ;135°	3,3	6,5	**0,0**	**-0,9**	**0,3**	0,0	7,3
N244	high max Wnd ;45°	-2,8	6,6	-3,8	-0,4	1,1	**0,0**	8,1
N244	low max Wnd ;225°	3,0	-6,5	-3,4	0,3	1,0	**0,0**	7,9
N245	low max Wnd ;45°	**-3,1**	6,4	**0,2**	**-0,4**	-0,8	0,0	7,2
N245	high max Wnd ;225°	**3,2**	**-6,6**	**-7,3**	**-1,8**	0,5	0,0	**10,4**
N245	high max Wnd ;45°	-3,1	**6,5**	-1,3	-0,7	**-0,8**	0,0	7,3
N245	low max Wnd ;225°	3,2	-6,5	-5,8	-1,4	**0,5**	0,0	9,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N245	low max Wnd ;315°	-3,0	-6,3	-4,0	-1,0	0,0	**0,0**	8,1
N245	high max Wnd ;135°	3,2	6,3	-3,3	-1,0	-0,2	**0,0**	7,8
N246	high max Wnd ;315°	-3,1	**-6,6**	**-7,3**	**-1,7**	-0,5	0,0	**10,3**
N246	low max Wnd ;135°	3,2	6,4	**0,3**	**-0,4**	0,8	0,0	7,2
N246	low max Wnd ;315°	**-3,1**	-6,4	-5,8	-1,3	**-0,5**	0,0	9,2
N246	high max Wnd ;135°	**3,3**	**6,5**	-1,3	-0,7	**0,8**	0,0	7,4
N246	high max Wnd ;45°	-3,0	6,3	-3,2	-1,0	0,2	**0,0**	7,7
N246	low max Wnd ;225°	3,1	-6,3	-4,0	-1,0	0,0	**0,0**	8,1
N247	high max Wnd ;315°	0,0	0,0	**-0,4**	0,0	0,0	0,0	0,4
N247	high max Wnd ;45°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N247	low max Wnd ;225°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N247	low max Wnd ;135°	0,0	0,0	**0,8**	0,0	0,0	0,0	**0,8**
N248	high max Wnd ;225°	**0,0**	**0,0**	**-0,4**	**0,0**	**0,0**	0,0	0,4
N248	high max Wnd ;135°	0,0	0,0	-0,1	**0,0**	0,0	**0,1**	0,1
N248	low max Wnd ;45°	0,0	0,0	**0,8**	0,0	**0,0**	0,0	**0,8**
N248	low max Wnd ;315°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N249	high max Wnd ;315°	0,0	0,0	**-0,9**	0,0	0,0	0,0	0,9
N249	high max Wnd ;45°	0,0	0,0	-0,2	0,0	0,0	**-0,1**	0,2
N249	low max Wnd ;225°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N249	low max Wnd ;135°	0,0	0,0	**1,6**	0,0	0,0	0,0	**1,6**
N250	high max Wnd ;225°	0,0	0,0	**-0,9**	0,0	0,0	0,0	0,9
N250	low max Wnd ;45°	0,0	0,0	**1,5**	0,0	**0,0**	0,0	**1,5**
N250	low max Wnd ;315°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N250	high max Wnd ;135°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,1**	0,2
N251	high max Wnd ;135°	0,0	0,0	**-0,9**	0,0	0,0	0,0	0,9
N251	low max Wnd ;315°	0,0	0,0	**1,5**	0,0	**0,0**	0,0	**1,5**
N251	high max Wnd ;225°	0,0	0,0	-0,2	0,0	0,0	**-0,1**	0,2
N251	low max Wnd ;45°	**0,0**	**0,0**	-0,4	**0,0**	**0,0**	**0,0**	0,4
N252	high max Wnd ;45°	0,0	0,0	**-0,9**	0,0	0,0	0,0	0,9
N252	low max Wnd ;135°	0,0	0,0	-0,4	0,0	0,0	**0,0**	0,4
N252	high max Wnd ;315°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,1**	0,2
N252	low max Wnd ;225°	0,0	0,0	**1,6**	0,0	0,0	0,0	**1,6**
N253	high max Wnd ;135°	0,0	0,0	**-0,4**	0,0	0,0	0,0	0,4

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N253	low max Wnd ;315°	0,0	0,0	**0,8**	0,0	**0,0**	0,0	**0,8**
N253	high max Wnd ;225°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N253	low max Wnd ;45°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N254	low max Wnd ;225°	0,0	**0,0**	**0,8**	0,0	0,0	0,0	**0,8**
N254	high max Wnd ;45°	0,0	0,0	**-0,4**	0,0	0,0	0,0	0,4
N254	low max Wnd ;135°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N254	high max Wnd ;315°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,1**	0,1

1. Inhoudsopgave

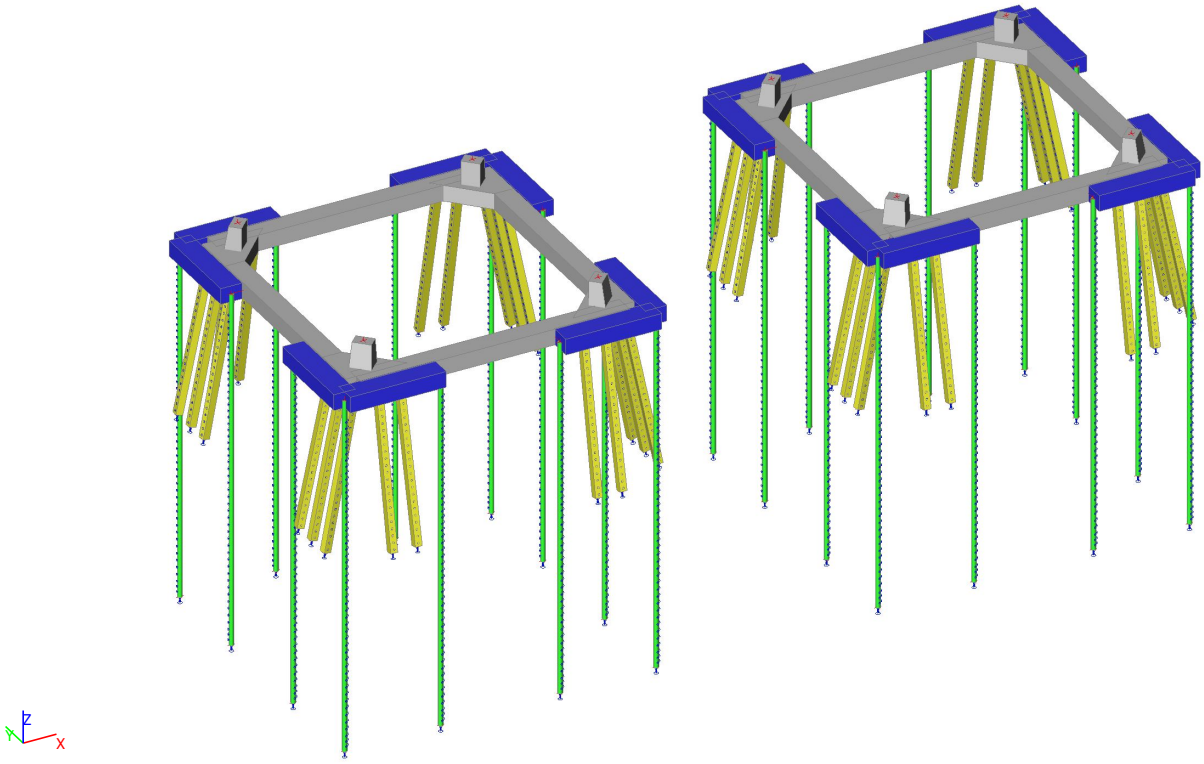
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2. Project

Gebruiker van licentie	[redacted]
Project	De Ronde Venen 380kV
Onderdeel	Balkrooster 5xBeton32x32 mast 147
Auteur	[redacted]
Datum	11-05-2026
Constructie	Algemeen XYZ
Aantal knopen :	168
Aantal staven :	96
Aantal platen :	0
Aantal vaste lichamen :	0
Aantal gebruikte doorsneden :	5
Aantal belastingsgevallen :	9
Aantal gebruikte materialen :	6
Gravitatieversnelling [m/s^2]	9,810
Nationale norm	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materialen

Staal EC3

Naam	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Kleur
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,0	2,1000e+05	0,30	0	40	235,0	360,0	
		8,0769e+04	0,00	40	80	215,0	360,0	

Naam	Type	ρ [kg/m³]	Dichtheid in natte toestand [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Kleur
C20/25 Ongescheurd	Beton	1500,0	2600,0	2,4000e+04	0,20	0,00	20,00	
C20/25 Gescheurd	Beton	2500,0	2600,0	8,0000e+03	0,20	0,00	20,00	
C30/37 Gescheurd	Beton	2500,0	2600,0	1,1000e+04	0,20	0,00	30,00	
C30/37	Beton	1500,0	2600,0	1,0900e+04	0,20	0,00	30,00	

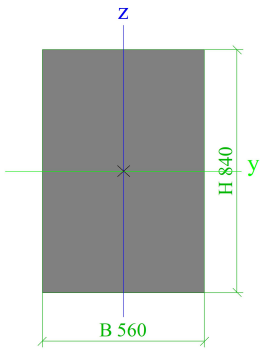
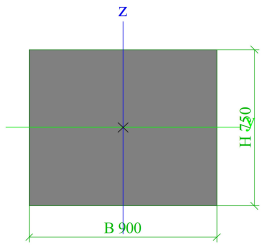
Verklaring van symbolen	
Dichtheid in natte toestand	De waarde van de dichtheid van het kenmerk nieuwe toestand wordt alleen gebruikt als een samengesteld dek wordt ingevoerd en rekening wordt gehouden met de belasting van het eigen gewicht.

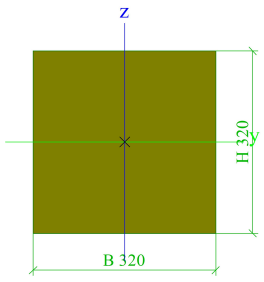
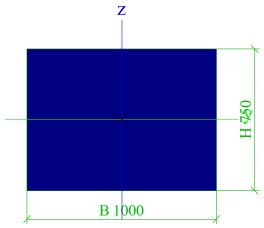
Wapening EC2

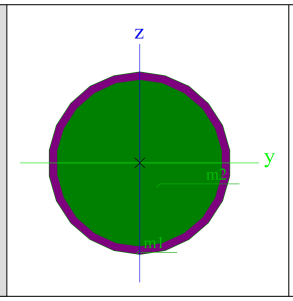
Naam	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 500B	Betonstaal	7850,0	2,0000e+05	8,3333e+04	0,00	500,0

4.2. Doorsneden

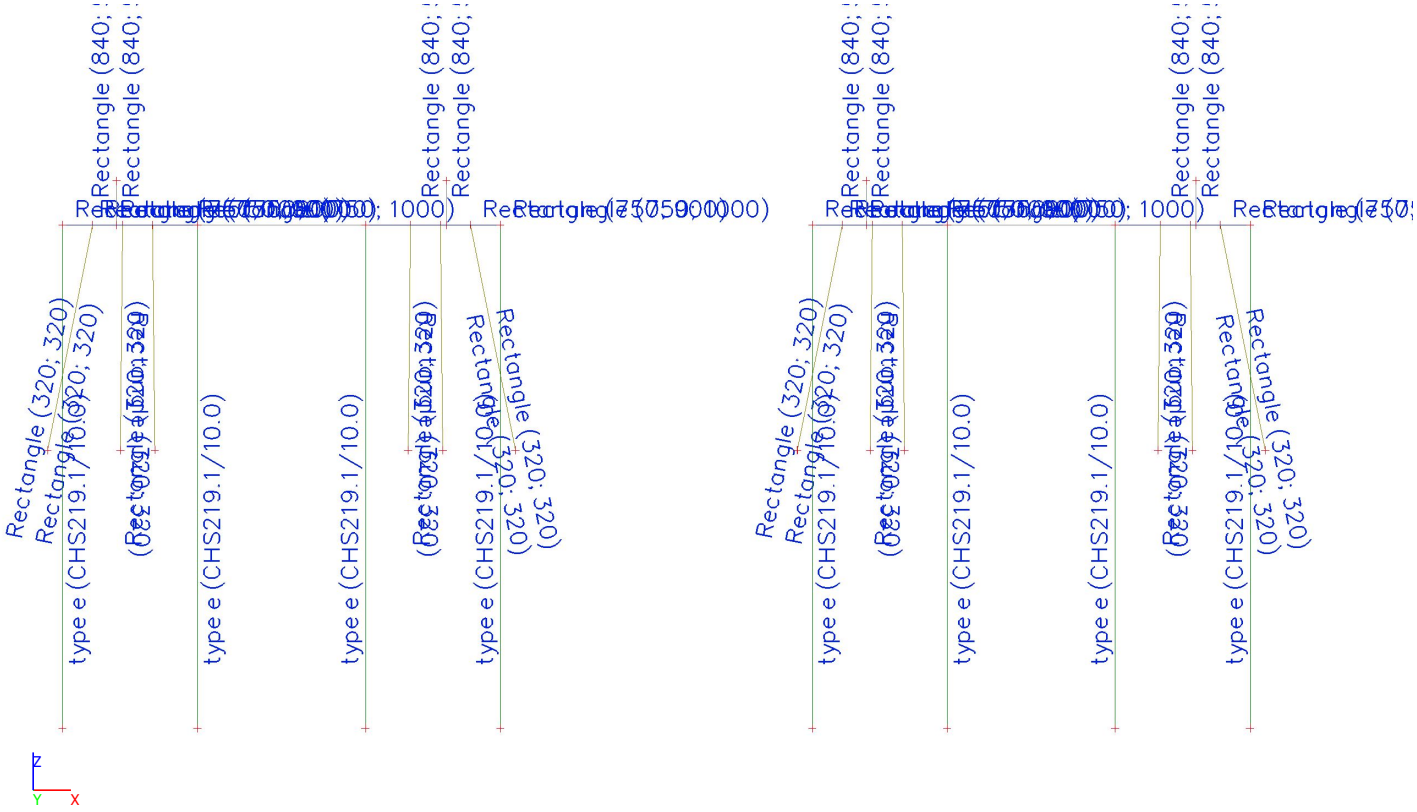
Poer.Opstort		
Type	Rectangle	
Gedetailleerd	840; 560	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	4,7040e-01	
A_y [m²], A_z [m²]	3,9200e-01	3,9200e-01
A_L [m²/m], A_D [m²/m]	2,8000e+00	2,8000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	280	420
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	2,7660e-02	1,2293e-02
i_y [mm], i_z [mm]	242	162
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	6,5856e-02	4,3904e-02
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	2,8888e-02	0,0000e+00
β_y [mm], β_z [mm]	0	0

Afbeelding		
Balk		
Type	Rectangle	
Gedetailleerd	750; 900	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	6,7500e-01	
A_y [m²], A_z [m²]	5,6250e-01	5,6250e-01
A_L [m²/m], A_D [m²/m]	3,3000e+00	3,3000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	450	375
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	3,1641e-02	4,5563e-02
i_y [mm], i_z [mm]	217	260
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	8,4375e-02	1,0125e-01
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	6,3112e-02	0,0000e+00
β_y [mm], β_z [mm]	0	0
Afbeelding		
Funderingspaal		
Type	Rectangle	
Gedetailleerd	320; 320	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C20/25 Ongescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	1,0240e-01	
A_y [m²], A_z [m²]	8,5333e-02	8,5333e-02
A_L [m²/m], A_D [m²/m]	1,2800e+00	1,2800e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	160	160
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	8,7381e-04	8,7381e-04
i_y [mm], i_z [mm]	92	92
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	5,4613e-03	5,4613e-03
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	1,4757e-03	0,0000e+00
β_y [mm], β_z [mm]	0	0

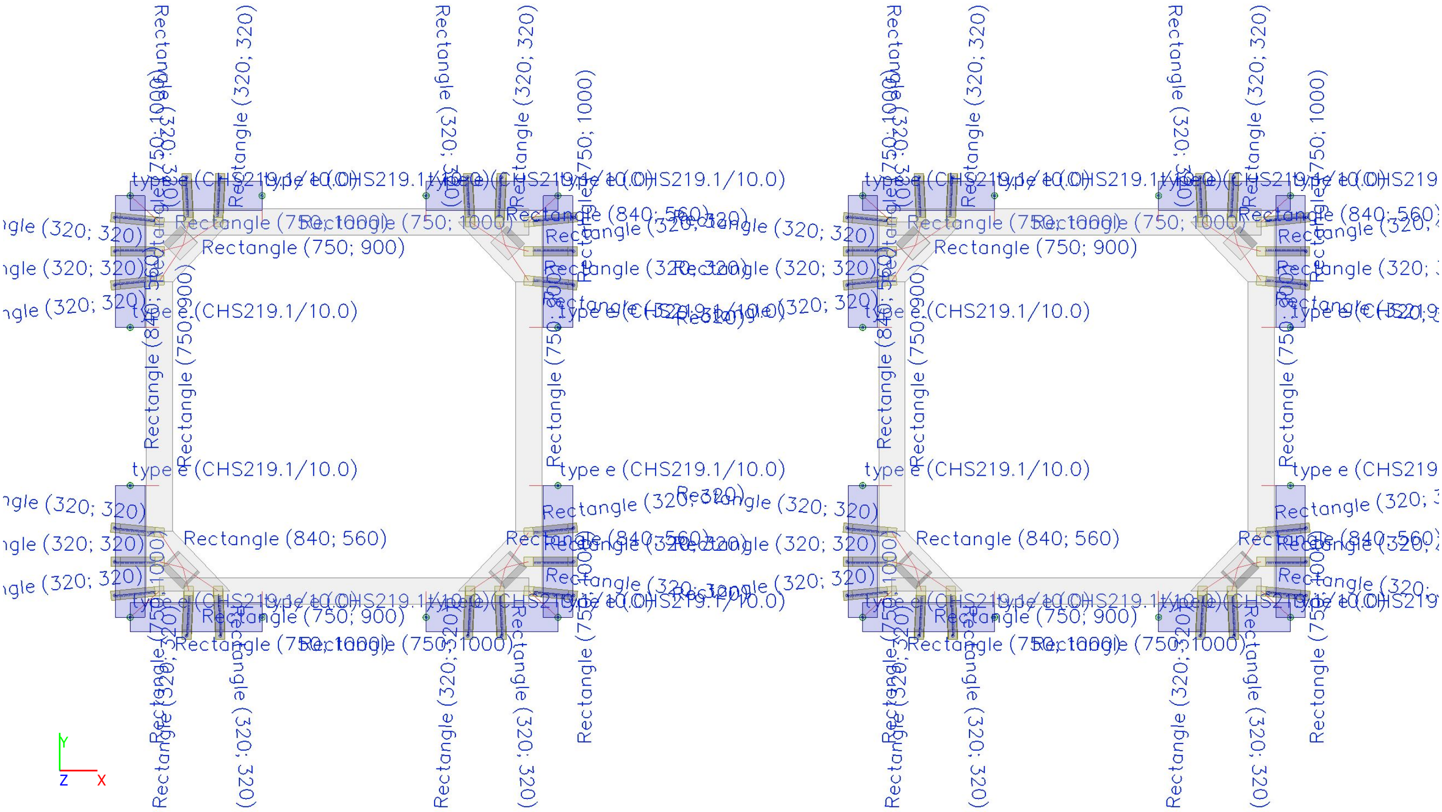
Afbeelding		
Ringbalk		
Type	Rectangle	
Gedetailleerd	750; 1000	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C30/37 Gescheurd	
Bouwwijze	beton	
Kleur		
A [m²]	7,5000e-01	
A_y [m²], A_z [m²]	6,2517e-01	6,2531e-01
A_L [m²/m], A_D [m²/m]	3,5000e+00	3,5000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	500	375
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	3,5156e-02	6,2500e-02
i_y [mm], i_z [mm]	217	289
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	9,3750e-02	1,2500e-01
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	7,6159e-02	2,7801e-04
β_y [mm], β_z [mm]	0	0
Afbeelding		
LEKA Paal		
Type	type e	
Gedetailleerd	CHS219.1/10.0	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	
	C30/37	
Bouwwijze	beton	
Knik y-y, Knik z-z	a	a
A [m²]	8,1834e-03	
A_y [m²], A_z [m²]	5,1515e-03	5,1515e-03
A_L [m²/m], A_D [m²/m]	6,8829e-01	6,8829e-01
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	110	110
α [deg]	0,00	
I_y [m⁴], I_z [m⁴]	3,9972e-05	3,9972e-05
i_y [mm], i_z [mm]	70	70
$W_{el.y}$ [m³], $W_{el.z}$ [m³]	3,6487e-04	3,6487e-04
$W_{pl.y}$ [m³], $W_{pl.z}$ [m³]	4,9123e-04	4,9123e-04
$M_{pl.y.+}$ [Nm], $M_{pl.y.-}$ [Nm]	1,15e+05	1,15e+05
$M_{pl.z.+}$ [Nm], $M_{pl.z.-}$ [Nm]	1,15e+05	1,15e+05
d_y [mm], d_z [mm]	0	0
I_t [m⁴], I_w [m⁶]	8,0625e-05	0,0000e+00
β_y [mm], β_z [mm]	0	0

Afbeelding	

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Instellingen net

Naam	NetInstelling1
Generatie van variabele excentriciteiten op elementen in plaats van constante excentriciteiten	×
Generatie van knopen op staven	×
Elastisch net	✓
Pas automatische netverfijning toe	×
Constructie-entiteiten verbinden	✓
Verdeling op consoles en variabele staven	5
Verdeling voor integratiestrook en 2D-1D upgrade	50
Gemiddeld aantal 1D-netelementen op rechte 1D-elementen	5
Gemiddelde grootte van 2D-netelement [m]	0,250
Gemiddelde grootte van 1D-element op gebogen 1D-elementen [m]	0,100
Minimum lengte van staafelement [m]	0,100
Maximum lengte van staafelement [m]	1000,000
Gemiddelde grootte van voorspankabels, elementen op elastische bedding, niet-lineaire grondveer [m]	1,000
Maximale hoek uit het vlak van vierhoekig element [mrad]	30,0
Minimale afstand tussen definitiepunt en -lijn [m]	0,001
Gemiddelde afmeting van paneelelement [m]	1,000
Netverfijning volgens het liggertype	Geen
Definitie van netelementen afmetingen voor panelen	Handmatig
Groep belastingsgevallen voor automatische netverfijning	high max Wnd ;225°

5. Geometrie

5.1. Knopen

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N5	13,000	1,400	0,000
N6	13,000	2,400	0,000
N7	12,000	0,400	0,000
N1	11,000	0,400	0,000

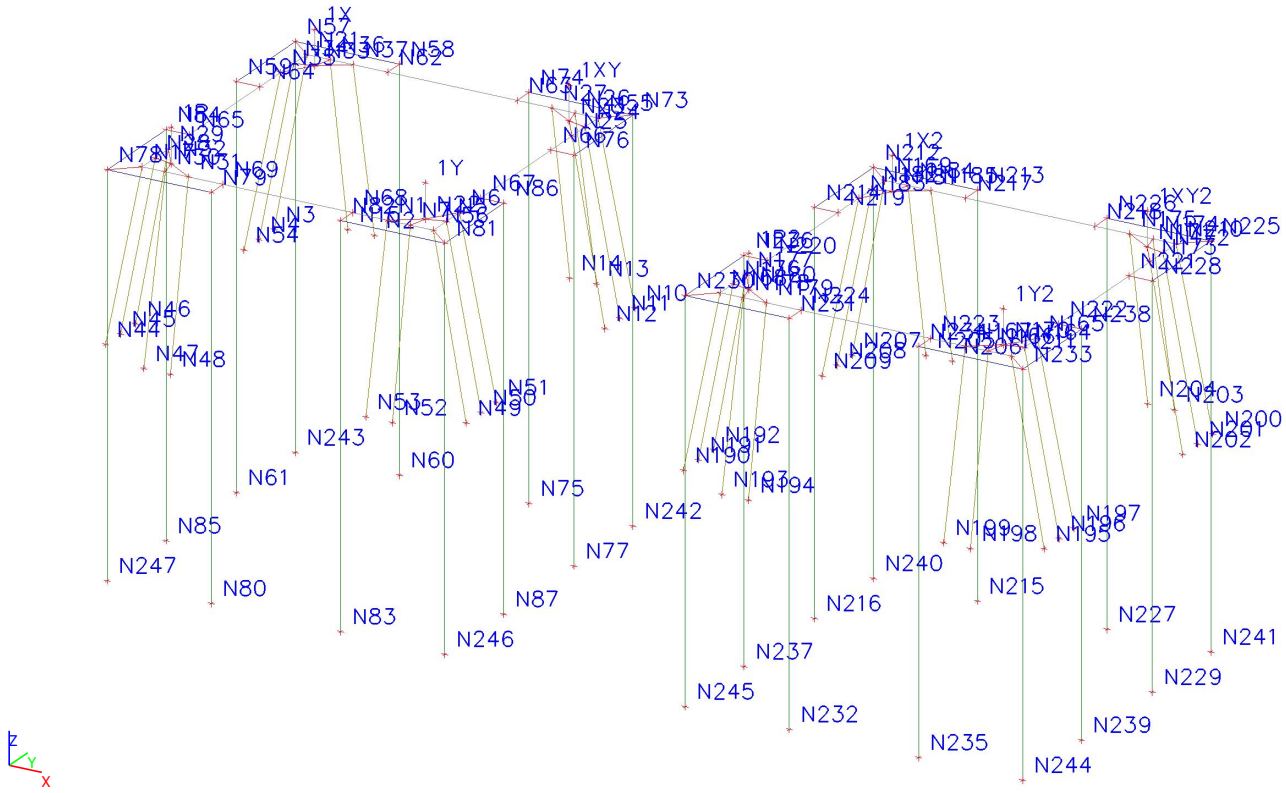
Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N17	0,400	0,400	0,000
N21	0,400	13,000	0,000
1Y	12,200	1,200	1,475
N22	12,200	1,200	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N23	12,200	12,200	0,000
1XY	12,200	12,200	1,475
N24	13,000	12,000	0,000
N25	13,000	11,000	0,000
N26	12,000	13,000	0,000
N27	11,000	13,000	0,000
N28	0,400	1,400	0,000
N29	0,400	2,400	0,000
N30	1,400	0,400	0,000
N31	2,400	0,400	0,000
1P	1,200	1,200	1,475
N32	1,200	1,200	0,000
N33	1,200	12,200	0,000
1X	1,200	12,187	1,475
N34	0,400	12,000	0,000
N35	0,400	11,000	0,000
N36	1,400	13,000	0,000
N37	2,400	13,000	0,000
N38	12,200	1,200	0,000
N39	1,200	1,200	0,000
N40	12,200	12,200	0,000
N41	1,200	12,200	0,000
N44	-1,100	0,250	-7,500
N45	-1,100	1,400	-7,498
N46	-1,100	2,550	-7,500
N47	1,325	-1,100	-7,498
N48	2,475	-1,100	-7,498
N49	14,500	0,250	-7,500
N50	14,500	1,400	-7,498
N51	14,500	2,550	-7,500
N52	12,075	-1,100	-7,498
N53	10,925	-1,100	-7,498
N10	14,500	13,150	-7,500
N11	14,500	12,000	-7,498
N12	14,500	10,850	-7,500
N13	12,075	14,500	-7,498
N14	10,925	14,500	-7,498
N15	1,325	14,500	-7,498
N2	2,475	14,500	-7,498
N3	-1,100	13,150	-7,500
N4	-1,100	12,000	-7,498
N54	-1,100	10,850	-7,500
N55	13,000	13,000	0,000
N56	13,000	0,400	0,000
N57	-0,600	13,900	0,000
N58	3,900	13,900	0,000
N59	-0,600	9,400	0,000
N60	3,900	13,900	-16,770
N61	-0,600	9,400	-16,770
N62	3,900	13,000	0,000
N63	9,500	13,000	0,000
N64	0,400	9,400	0,000
N65	0,400	4,000	0,000
N66	13,000	9,400	0,000
N67	13,000	4,000	0,000
N68	9,500	0,400	0,000
N69	3,900	0,400	0,000
N73	14,000	13,900	0,000
N74	9,500	13,900	0,000
N75	9,500	13,900	-16,770
N76	14,000	9,400	0,000
N77	14,000	9,400	-16,770
N78	-0,600	-0,500	0,000
N79	3,900	-0,500	0,000
N80	3,900	-0,500	-16,770
N81	14,000	-0,500	0,000
N82	9,500	-0,500	0,000
N83	9,500	-0,500	-16,770
N84	-0,600	4,000	0,000
N85	-0,600	4,000	-16,770
N86	14,000	4,000	0,000
N87	14,000	4,000	-16,770
N164	38,000	1,400	0,000
N165	38,000	2,400	0,000
N166	37,000	0,400	0,000
N167	36,000	0,400	0,000
N168	25,400	0,400	0,000
N169	25,400	13,000	0,000
1Y2	37,200	1,200	1,475
N170	37,200	1,200	0,000
N171	37,200	12,200	0,000
1XY2	37,200	12,200	1,475
N172	38,000	12,000	0,000
N173	38,000	11,000	0,000
N174	37,000	13,000	0,000
N175	36,000	13,000	0,000
N176	25,400	1,400	0,000
N177	25,400	2,400	0,000
N178	26,400	0,400	0,000
N179	27,400	0,400	0,000
1P2	26,200	1,200	1,475
N180	26,200	1,200	0,000
N181	26,200	12,200	0,000
1X2	26,200	12,187	1,475
N182	25,400	12,000	0,000
N183	25,400	11,000	0,000
N184	26,400	13,000	0,000
N185	27,400	13,000	0,000
N186	37,200	1,200	0,000
N187	26,200	1,200	0,000
N188	37,200	12,200	0,000
N189	26,200	12,200	0,000
N190	23,900	0,250	-7,500
N191	23,900	1,400	-7,498
N192	23,900	2,550	-7,500
N193	26,325	-1,100	-7,498
N194	27,475	-1,100	-7,498
N195	39,500	0,250	-7,500
N196	39,500	1,400	-7,498
N197	39,500	2,550	-7,500
N198	37,075	-1,100	-7,498
N199	35,925	-1,100	-7,498
N200	39,500	13,150	-7,500
N201	39,500	12,000	-7,498
N202	39,500	10,850	-7,500
N203	37,075	14,500	-7,498
N204	35,925	14,500	-7,498
N205	26,325	14,500	-7,498
N206	27,475	14,500	-7,498
N207	23,900	13,150	-7,500
N208	23,900	12,000	-7,498
N209	23,900	10,850	-7,500
N210	38,000	13,000	0,000
N211	38,000	0,400	0,000
N212	24,400	13,900	0,000
N213	28,900	13,900	0,000
N214	24,400	9,400	0,000
N215	28,900	13,900	-16,770
N216	24,400	9,400	-16,770
N217	28,900	13,000	0,000
N218	34,500	13,000	0,000
N219	25,400	9,400	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N220	25,400	4,000	0,000
N221	38,000	9,400	0,000
N222	38,000	4,000	0,000
N223	34,500	0,400	0,000
N224	28,900	0,400	0,000
N225	39,000	13,900	0,000
N226	34,500	13,900	0,000
N227	34,500	13,900	-16,770
N228	39,000	9,400	0,000
N229	39,000	9,400	-16,770
N230	24,400	-0,500	0,000
N231	28,900	-0,500	0,000
N232	28,900	-0,500	-16,770
N233	39,000	-0,500	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N234	34,500	-0,500	0,000
N235	34,500	-0,500	-16,770
N236	24,400	4,000	0,000
N237	24,400	4,000	-16,770
N238	39,000	4,000	0,000
N239	39,000	4,000	-16,770
N240	24,400	13,900	-16,770
N241	39,000	13,900	-16,770
N242	14,000	13,900	-16,770
N243	-0,600	13,900	-16,770
N244	39,000	-0,500	-16,770
N245	24,400	-0,500	-16,770
N246	14,000	-0,500	-16,770
N247	-0,600	-0,500	-16,770

5.2. Analyse model met knopen



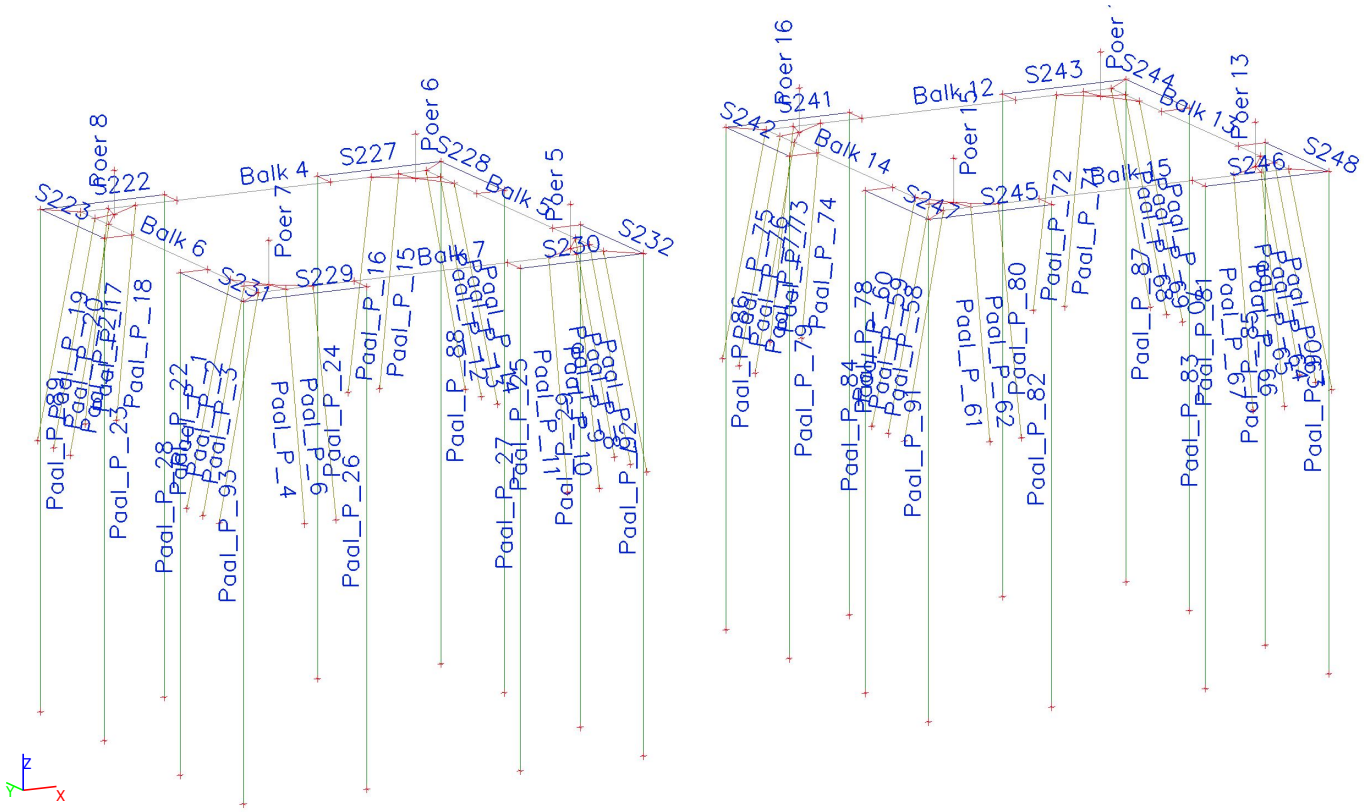
5.3. Staven

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Balk 4	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N55	N21	Balk (80)
Balk 5	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N56	N55	Balk (80)
Balk 6	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N17	N21	Balk (80)
Balk 7	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N56	N17	Balk (80)
Balk 12	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N210	N169	Balk (80)
Balk 13	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N211	N210	Balk (80)
Balk 14	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N168	N169	Balk (80)
Balk 15	Balk - Rectangle (750; 900)	C20/25 Gescheurd	12,600	N211	N168	Balk (80)
S222	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N57	N58	Balk (80)
S223	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N59	N57	Balk (80)
S227	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N73	N74	Balk (80)
S228	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N76	N73	Balk (80)

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
S229	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N78	N79	Balk (80)
S230	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N81	N82	Balk (80)
S231	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N84	N78	Balk (80)
S232	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N86	N81	Balk (80)
S241	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N212	N213	Balk (80)
S242	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N214	N212	Balk (80)
S243	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N225	N226	Balk (80)
S244	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N228	N225	Balk (80)
S245	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N230	N231	Balk (80)
S246	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N233	N234	Balk (80)
S247	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N236	N230	Balk (80)
S248	Ringbalk - Rectangle (750; 1000)	C30/37 Gescheurd	4,500	N238	N233	Balk (80)
Paal_P_3	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N17	N44	Kolom (100)
Paal_P_4	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N30	N47	Kolom (100)
Paal_P_16	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N27	N14	Kolom (100)
Poer 6	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N23	1XY	Kolom (100)
Paal_P_6	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N31	N48	Kolom (100)
Poer 15	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N180	1P2	Kolom (100)
Poer 16	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N181	1X2	Kolom (100)
Paal_P_7	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N56	N49	Kolom (100)
Paal_P_12	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N55	N10	Kolom (100)
Paal_P_14	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N25	N12	Kolom (100)
Paal_P_17	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N36	N15	Kolom (100)
Paal_P_18	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N37	N2	Kolom (100)
Paal_P_19	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N21	N3	Kolom (100)
Paal_P_20	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N34	N4	Kolom (100)
Paal_P_21	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N35	N54	Kolom (100)
Paal_P_22	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N58	N60	Kolom (100)
Paal_P_58	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N168	N190	Kolom (100)
Paal_P_59	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N176	N191	Kolom (100)
Paal_P_60	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N177	N192	Kolom (100)
Paal_P_61	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N178	N193	Kolom (100)
Paal_P_62	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N179	N194	Kolom (100)
Paal_P_63	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N211	N195	Kolom (100)
Paal_P_64	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N164	N196	Kolom (100)
Paal_P_66	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N166	N198	Kolom (100)
Paal_P_67	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N167	N199	Kolom (100)
Paal_P_68	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N210	N200	Kolom (100)
Poer 5	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N22	1Y	Kolom (100)
Poer 7	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N32	1P	Kolom (100)
Poer 8	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N33	1X	Kolom (100)
Poer 13	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N170	1Y2	Kolom (100)
Poer 14	Poer.Opstort - Rectangle (840; 560)	C20/25 Gescheurd	1,475	N171	1XY2	Kolom (100)
Paal_P_1	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N29	N46	Kolom (100)
Paal_P_2	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N28	N45	Kolom (100)
Paal_P_8	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N5	N50	Kolom (100)
Paal_P_65	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N165	N197	Kolom (100)
Paal_P_9	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N6	N51	Kolom (100)
Paal_P_10	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N7	N52	Kolom (100)
Paal_P_11	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N1	N53	Kolom (100)
Paal_P_13	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N24	N11	Kolom (100)
Paal_P_15	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N26	N13	Kolom (100)
Paal_P_23	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N59	N61	Kolom (100)
Paal_P_24	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N74	N75	Kolom (100)
Paal_P_25	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N76	N77	Kolom (100)
Paal_P_26	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N79	N80	Kolom (100)
Paal_P_27	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N82	N83	Kolom (100)
Paal_P_28	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N84	N85	Kolom (100)
Paal_P_29	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N86	N87	Kolom (100)
Paal_P_69	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N172	N201	Kolom (100)
Paal_P_70	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N173	N202	Kolom (100)
Paal_P_71	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N174	N203	Kolom (100)
Paal_P_72	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N175	N204	Kolom (100)
Paal_P_73	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N184	N205	Kolom (100)
Paal_P_74	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,647	N185	N206	Kolom (100)
Paal_P_75	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N169	N207	Kolom (100)

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Paal_P_76	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,646	N182	N208	Kolom (100)
Paal_P_77	Funderingspaal - Rectangle (320; 320)	C20/25 Ongescheurd	7,650	N183	N209	Kolom (100)
Paal_P_78	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N213	N215	Kolom (100)
Paal_P_79	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N214	N216	Kolom (100)
Paal_P_80	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N226	N227	Kolom (100)
Paal_P_81	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N228	N229	Kolom (100)
Paal_P_82	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N231	N232	Kolom (100)
Paal_P_83	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N234	N235	Kolom (100)
Paal_P_84	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N236	N237	Kolom (100)
Paal_P_85	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N238	N239	Kolom (100)
Paal_P_86	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N212	N240	Kolom (100)
Paal_P_87	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N225	N241	Kolom (100)
Paal_P_88	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N73	N242	Kolom (100)
Paal_P_89	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N57	N243	Kolom (100)
Paal_P_90	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N233	N244	Kolom (100)
Paal_P_91	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N230	N245	Kolom (100)
Paal_P_92	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N81	N246	Kolom (100)
Paal_P_93	LEKA Paal - type e (CHS219.1/10.0)	S 235	16,770	N78	N247	Kolom (100)

5.4. Analyse model met Staven

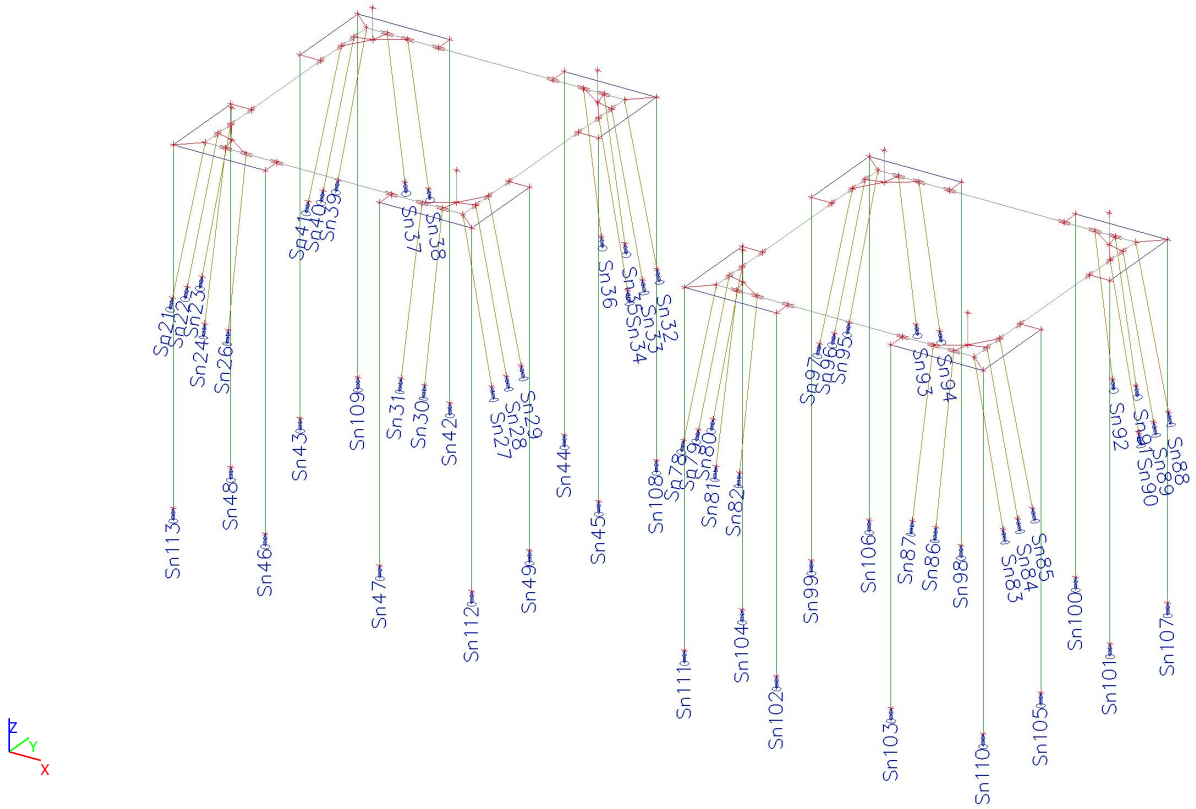


5.5. Knoopsteunpunten

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
Sn21	N44	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn22	N45	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn23	N46	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn24	N47	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn26	N48	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn27	N49	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn28	N50	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn29	N51	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn30	N52	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
Sn31	N53	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn32	N10	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn33	N11	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn34	N12	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn35	N13	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn36	N14	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn37	N15	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn38	N2	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn39	N3	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn40	N4	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn41	N54	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn42	N60	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn43	N61	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn44	N75	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn45	N77	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn46	N80	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn47	N83	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn48	N85	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn49	N87	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn78	N190	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn79	N191	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn80	N192	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn81	N193	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn82	N194	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn83	N195	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn84	N196	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn85	N197	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn86	N198	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx-11,31
Sn87	N199	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx-11,31
Sn88	N200	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry-11,31
Sn89	N201	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-11,31
Sn90	N202	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry-11,31
Sn91	N203	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn92	N204	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn93	N205	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry0,56;Rx11,31
Sn94	N206	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-0,56;Rx11,31
Sn95	N207	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx1,12;Ry11,31
Sn96	N208	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry11,31
Sn97	N209	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Rx-1,12;Ry11,31
Sn98	N215	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn99	N216	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn100	N227	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn101	N229	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn102	N232	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn103	N235	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn104	N237	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn105	N239	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn106	N240	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn107	N241	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn108	N242	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn109	N243	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn110	N244	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn111	N245	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn112	N246	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
Sn113	N247	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	

5.6. Analyse model met Knoopondersteuningen



5.7. Lijnsteunpunten op staven

Naam	Type	Staaf	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
Veen13	Lijn	Paal_P_9	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Lijn	Paal_P_20	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen68	Lijn	Paal_P_68	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen73	Lijn	Paal_P_73	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen77	Lijn	Paal_P_77	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen18	Lijn	Paal_P_4	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Lijn	Paal_P_21	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen66	Lijn	Paal_P_66	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen6	Lijn	Paal_P_14	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen10	Lijn	Paal_P_10	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Lijn	Paal_P_11	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen74	Lijn	Paal_P_74	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen62	Lijn	Paal_P_62	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen76	Lijn	Paal_P_76	1,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			7,500								
Veen64	Lijn	Paal_P_64	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen67	Lijn	Paal_P_67	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Lijn	Paal_P_17	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen69	Lijn	Paal_P_69	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen71	Lijn	Paal_P_71	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Lijn	Paal_P_7	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen70	Lijn	Paal_P_70	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen7	Lijn	Paal_P_12	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen72	Lijn	Paal_P_72	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Lijn	Paal_P_6	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen14	Lijn	Paal_P_15	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen65	Lijn	Paal_P_65	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Lijn	Paal_P_18	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen63	Lijn	Paal_P_63	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen20	Lijn	Paal_P_16	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen60	Lijn	Paal_P_60	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen75	Lijn	Paal_P_75	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Lijn	Paal_P_8	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen17	Lijn	Paal_P_19	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Lijn	Paal_P_13	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen3	Lijn	Paal_P_2	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen61	Lijn	Paal_P_61	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen59	Lijn	Paal_P_59	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen58	Lijn	Paal_P_58	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Lijn	Paal_P_3	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen	Lijn	Paal_P_1	1,000 7,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen89	Lijn	Paal_P_89	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen22	Lijn	Paal_P_22	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen88	Lijn	Paal_P_88	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen87	Lijn	Paal_P_87	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen23	Lijn	Paal_P_23	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen91	Lijn	Paal_P_91	1,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			8,000								
Veen83	Lijn	Paal_P_83	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen84	Lijn	Paal_P_84	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen86	Lijn	Paal_P_86	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen27	Lijn	Paal_P_27	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen82	Lijn	Paal_P_82	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen24	Lijn	Paal_P_24	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen80	Lijn	Paal_P_80	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen85	Lijn	Paal_P_85	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen79	Lijn	Paal_P_79	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen26	Lijn	Paal_P_26	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen78	Lijn	Paal_P_78	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen28	Lijn	Paal_P_28	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen25	Lijn	Paal_P_25	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen29	Lijn	Paal_P_29	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen93	Lijn	Paal_P_93	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen81	Lijn	Paal_P_81	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen90	Lijn	Paal_P_90	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
Veen92	Lijn	Paal_P_92	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-2_Veen.B
(PY-curve-2_V1)42	Lijn	Paal_P_24	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)59	Lijn	Paal_P_89	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)61	Lijn	Paal_P_91	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)58	Lijn	Paal_P_88	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)56	Lijn	Paal_P_86	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)53	Lijn	Paal_P_83	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)41	Lijn	Paal_P_23	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)54	Lijn	Paal_P_84	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)47	Lijn	Paal_P_29	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)46	Lijn	Paal_P_28	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)55	Lijn	Paal_P_85	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)40	Lijn	Paal_P_22	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)45	Lijn	Paal_P_27	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)50	Lijn	Paal_P_80	8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			9,000								
(PY-curve-2_V1)51	Lijn	Paal_P_81	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)52	Lijn	Paal_P_82	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)57	Lijn	Paal_P_87	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)48	Lijn	Paal_P_78	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)44	Lijn	Paal_P_26	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)63	Lijn	Paal_P_93	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)43	Lijn	Paal_P_25	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)60	Lijn	Paal_P_90	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)49	Lijn	Paal_P_79	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)62	Lijn	Paal_P_92	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V2)20	Lijn	Paal_P_90	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)2	Lijn	Paal_P_24	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)21	Lijn	Paal_P_91	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)19	Lijn	Paal_P_89	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)17	Lijn	Paal_P_87	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)1	Lijn	Paal_P_23	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)18	Lijn	Paal_P_88	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)16	Lijn	Paal_P_86	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)14	Lijn	Paal_P_84	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)13	Lijn	Paal_P_83	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)15	Lijn	Paal_P_85	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)6	Lijn	Paal_P_28	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)	Lijn	Paal_P_22	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)7	Lijn	Paal_P_29	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)11	Lijn	Paal_P_81	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)5	Lijn	Paal_P_27	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)12	Lijn	Paal_P_82	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)10	Lijn	Paal_P_80	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)8	Lijn	Paal_P_78	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)9	Lijn	Paal_P_79	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)3	Lijn	Paal_P_25	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)4	Lijn	Paal_P_26	9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			10,000								
(PY-curve-2_V2)23	Lijn	Paal_P_93	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)22	Lijn	Paal_P_92	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V3)20	Lijn	Paal_P_90	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)19	Lijn	Paal_P_89	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)18	Lijn	Paal_P_88	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)17	Lijn	Paal_P_87	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)1	Lijn	Paal_P_23	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)16	Lijn	Paal_P_86	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)15	Lijn	Paal_P_85	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)7	Lijn	Paal_P_29	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)14	Lijn	Paal_P_84	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)6	Lijn	Paal_P_28	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)	Lijn	Paal_P_22	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)13	Lijn	Paal_P_83	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)12	Lijn	Paal_P_82	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)11	Lijn	Paal_P_81	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)5	Lijn	Paal_P_27	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)10	Lijn	Paal_P_80	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)9	Lijn	Paal_P_79	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)4	Lijn	Paal_P_26	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)8	Lijn	Paal_P_78	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)3	Lijn	Paal_P_25	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)23	Lijn	Paal_P_93	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)22	Lijn	Paal_P_92	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)2	Lijn	Paal_P_24	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)21	Lijn	Paal_P_91	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V4)23	Lijn	Paal_P_93	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)21	Lijn	Paal_P_28	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)20	Lijn	Paal_P_26	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)19	Lijn	Paal_P_23	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)17	Lijn	Paal_P_92	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)16	Lijn	Paal_P_88	11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			12,000								
(PY-curve-2_V4)15	Lijn	Paal_P_29	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)14	Lijn	Paal_P_27	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)13	Lijn	Paal_P_25	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)12	Lijn	Paal_P_24	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)11	Lijn	Paal_P_91	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)18	Lijn	Paal_P_22	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)10	Lijn	Paal_P_86	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)9	Lijn	Paal_P_84	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)8	Lijn	Paal_P_83	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)7	Lijn	Paal_P_82	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)22	Lijn	Paal_P_89	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)6	Lijn	Paal_P_80	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)5	Lijn	Paal_P_79	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)4	Lijn	Paal_P_78	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)3	Lijn	Paal_P_90	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)	Lijn	Paal_P_81	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)1	Lijn	Paal_P_85	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)2	Lijn	Paal_P_87	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V5)23	Lijn	Paal_P_93	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)21	Lijn	Paal_P_28	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)20	Lijn	Paal_P_26	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)19	Lijn	Paal_P_23	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)18	Lijn	Paal_P_22	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)17	Lijn	Paal_P_92	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)16	Lijn	Paal_P_88	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)15	Lijn	Paal_P_29	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)14	Lijn	Paal_P_27	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)13	Lijn	Paal_P_25	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)12	Lijn	Paal_P_24	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)11	Lijn	Paal_P_91	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)10	Lijn	Paal_P_86	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)9	Lijn	Paal_P_84	12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B

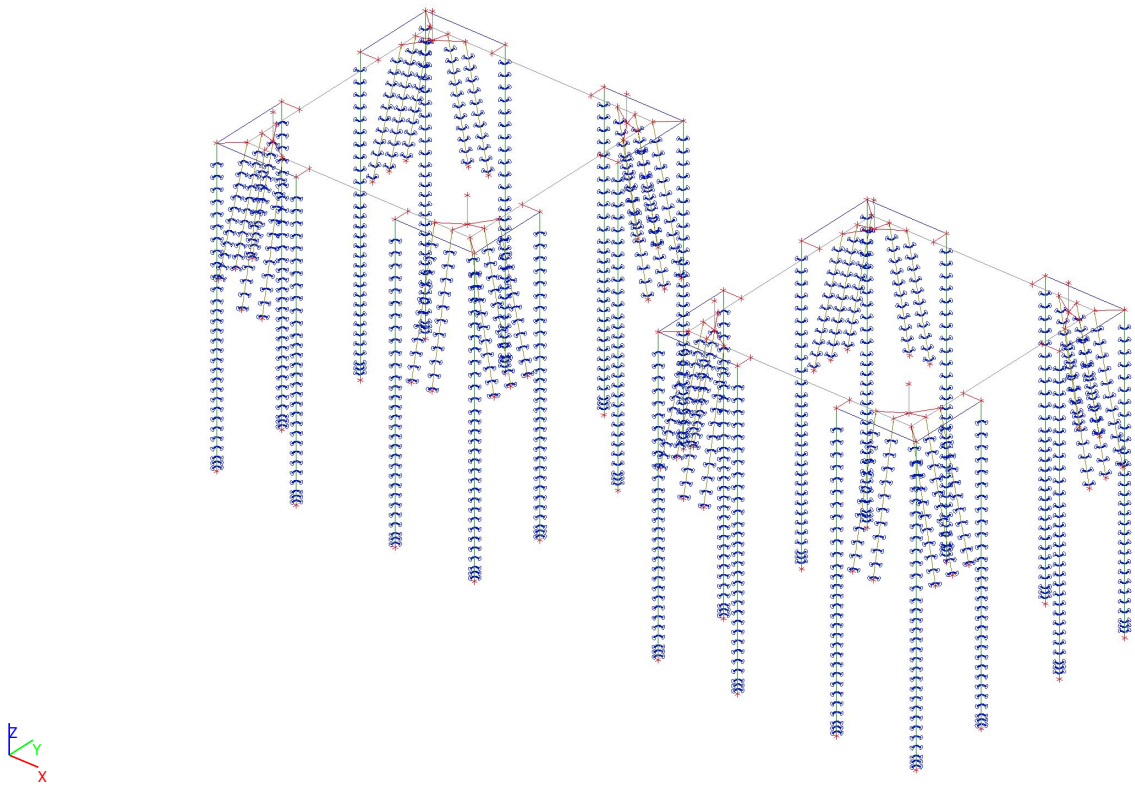
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			13,000								
(PY-curve-2_V5)8	Lijn	Paal_P_82	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)7	Lijn	Paal_P_79	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)22	Lijn	Paal_P_89	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)6	Lijn	Paal_P_78	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)5	Lijn	Paal_P_90	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)4	Lijn	Paal_P_87	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)3	Lijn	Paal_P_85	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)2	Lijn	Paal_P_83	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)1	Lijn	Paal_P_81	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)	Lijn	Paal_P_80	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V6)23	Lijn	Paal_P_93	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)21	Lijn	Paal_P_28	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)20	Lijn	Paal_P_26	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)19	Lijn	Paal_P_23	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)17	Lijn	Paal_P_92	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)16	Lijn	Paal_P_91	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)15	Lijn	Paal_P_88	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)14	Lijn	Paal_P_86	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)13	Lijn	Paal_P_84	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)12	Lijn	Paal_P_83	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)11	Lijn	Paal_P_82	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)10	Lijn	Paal_P_80	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)9	Lijn	Paal_P_79	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)8	Lijn	Paal_P_78	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)7	Lijn	Paal_P_29	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)18	Lijn	Paal_P_22	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)22	Lijn	Paal_P_89	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)6	Lijn	Paal_P_27	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)5	Lijn	Paal_P_25	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)4	Lijn	Paal_P_24	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)3	Lijn	Paal_P_90	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)2	Lijn	Paal_P_87	13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			14,000								
(PY-curve-2_V6)1	Lijn	Paal_P_85	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)	Lijn	Paal_P_81	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V7)23	Lijn	Paal_P_93	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)21	Lijn	Paal_P_28	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)20	Lijn	Paal_P_26	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)19	Lijn	Paal_P_23	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)18	Lijn	Paal_P_22	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)17	Lijn	Paal_P_92	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)16	Lijn	Paal_P_91	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)15	Lijn	Paal_P_88	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)14	Lijn	Paal_P_86	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)13	Lijn	Paal_P_84	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)12	Lijn	Paal_P_82	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)11	Lijn	Paal_P_79	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)10	Lijn	Paal_P_78	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)9	Lijn	Paal_P_29	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)8	Lijn	Paal_P_27	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)7	Lijn	Paal_P_25	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)22	Lijn	Paal_P_89	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)6	Lijn	Paal_P_24	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)5	Lijn	Paal_P_90	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)4	Lijn	Paal_P_87	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)3	Lijn	Paal_P_85	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)2	Lijn	Paal_P_83	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)1	Lijn	Paal_P_81	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)	Lijn	Paal_P_80	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V8)21	Lijn	Paal_P_89	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)20	Lijn	Paal_P_88	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)19	Lijn	Paal_P_29	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)17	Lijn	Paal_P_27	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)16	Lijn	Paal_P_26	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)15	Lijn	Paal_P_25	15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B

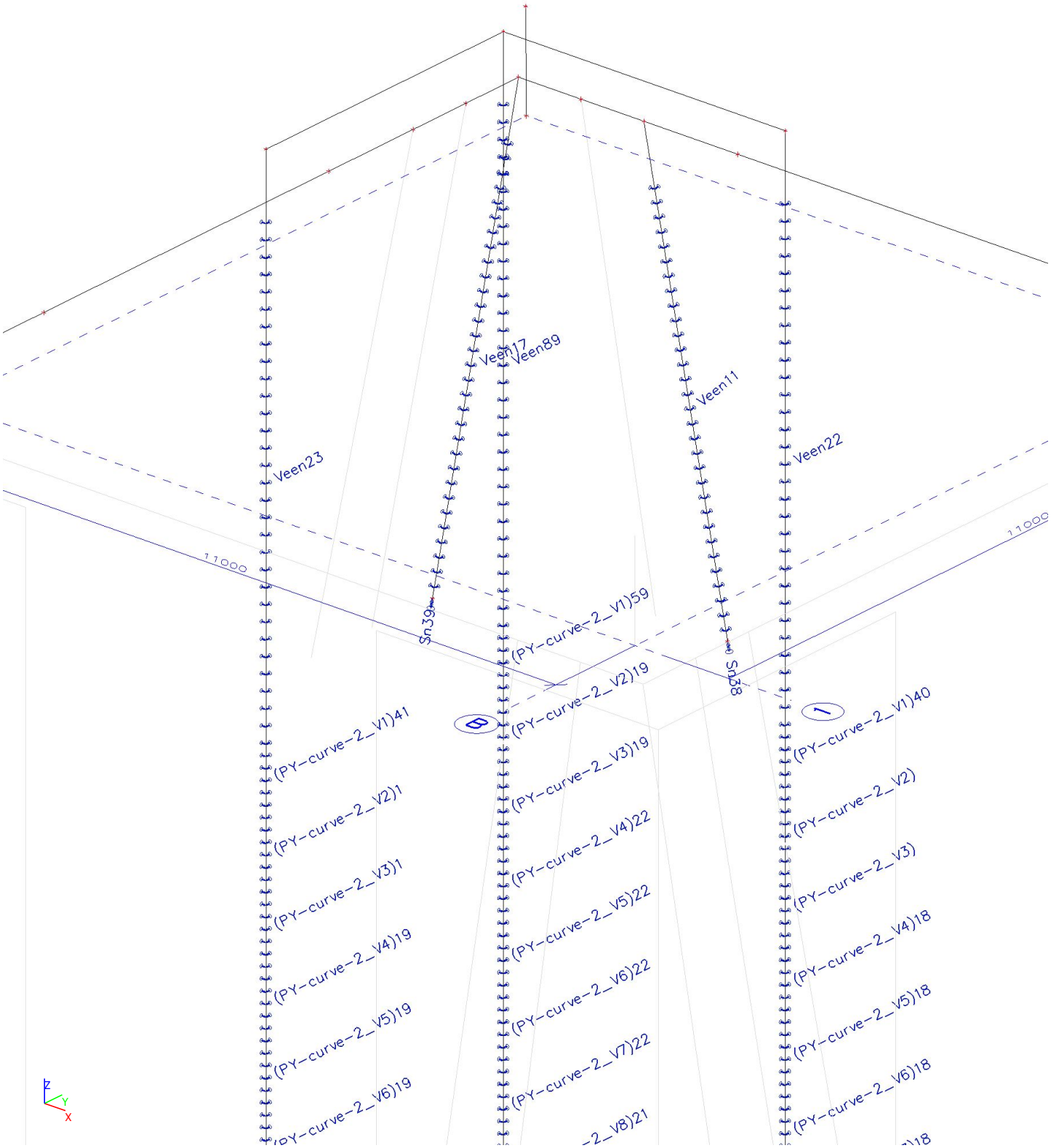
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			16,000								
(PY-curve-2_V8)13	Lijn	Paal_P_23	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)14	Lijn	Paal_P_24	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)12	Lijn	Paal_P_22	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)11	Lijn	Paal_P_91	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)10	Lijn	Paal_P_90	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)9	Lijn	Paal_P_87	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)8	Lijn	Paal_P_86	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)7	Lijn	Paal_P_85	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)18	Lijn	Paal_P_28	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)22	Lijn	Paal_P_92	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)6	Lijn	Paal_P_84	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)5	Lijn	Paal_P_83	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)4	Lijn	Paal_P_82	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)3	Lijn	Paal_P_81	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)2	Lijn	Paal_P_80	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)1	Lijn	Paal_P_79	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)	Lijn	Paal_P_78	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)23	Lijn	Paal_P_93	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V9)23	Lijn	Paal_P_93	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)21	Lijn	Paal_P_28	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)20	Lijn	Paal_P_23	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)19	Lijn	Paal_P_27	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)18	Lijn	Paal_P_26	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)17	Lijn	Paal_P_24	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)16	Lijn	Paal_P_22	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)15	Lijn	Paal_P_92	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)14	Lijn	Paal_P_88	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)13	Lijn	Paal_P_29	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)12	Lijn	Paal_P_25	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)11	Lijn	Paal_P_91	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)10	Lijn	Paal_P_86	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)9	Lijn	Paal_P_84	16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			16,500								
(PY-curve-2_V9)8	Lijn	Paal_P_79	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)7	Lijn	Paal_P_82	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)22	Lijn	Paal_P_89	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)6	Lijn	Paal_P_78	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)5	Lijn	Paal_P_83	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)4	Lijn	Paal_P_80	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)3	Lijn	Paal_P_90	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)2	Lijn	Paal_P_87	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)1	Lijn	Paal_P_85	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)	Lijn	Paal_P_81	16,000 16,500	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B

5.8. Analyse model met Lijnondersteuningen



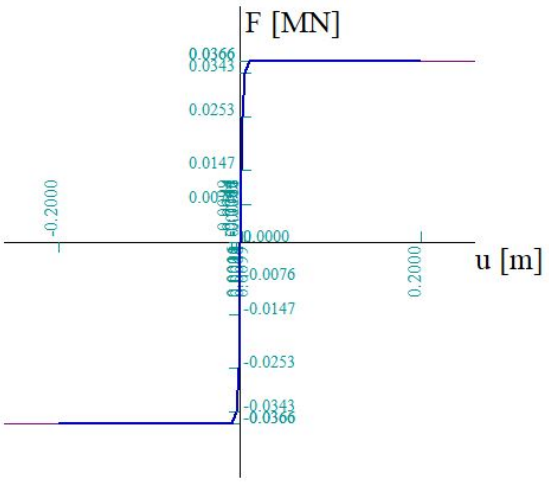
5.9. Analyse model met Lijnondersteuningen



5.10. Niet-lineaire functies

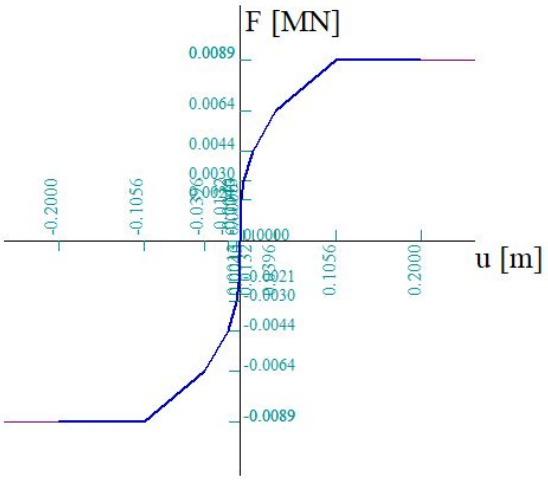
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1	Verplaatsing	-0.200000 / -36623.773526	Vrij	Vrij
		-0.009900 / -36623.773526		
		-0.004400 / -34258.682564		
		-0.002200 / -25265.323475		
		-0.001100 / -14650.070468		
		-0.000550 / -7643.461980		
		0.000000 / 0.000000		
		0.000550 / 7643.461980		
		0.001100 / 14650.070468		
		0.002200 / 25265.323475		
		0.004400 / 34258.682564		
		0.009900 / 36623.773526		
		0.200000 / 36623.773526		

Tekenen



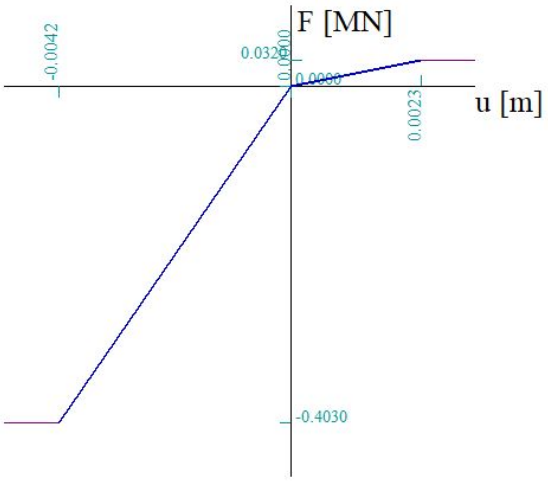
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen	Verplaatsing	-0.200000 / -8894.400000	Vrij	Vrij
		-0.105600 / -8894.400000		
		-0.039600 / -6413.760000		
		-0.013200 / -4447.680000		
		-0.003960 / -2976.960000		
		-0.001320 / -2064.000000		
		0.000000 / 0.000000		
		0.001320 / 2064.000000		
		0.003960 / 2976.960000		
		0.013200 / 4447.680000		
		0.039600 / 6413.760000		
		0.105600 / 8894.400000		
		0.200000 / 8894.400000		

Tekenen



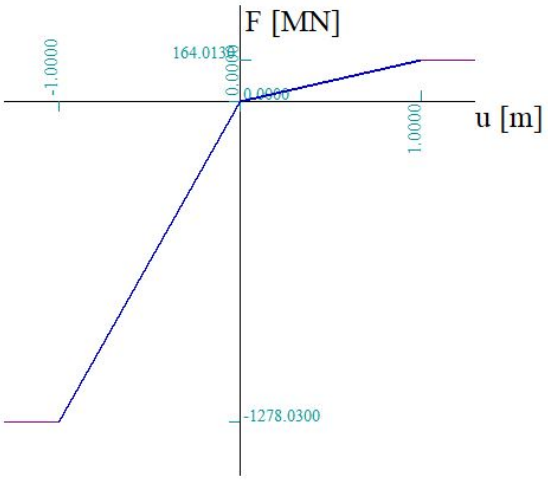
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt	Verplaatsing	-0.004200 / -403000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		0.002330 / 32000.000000		

Tekenen



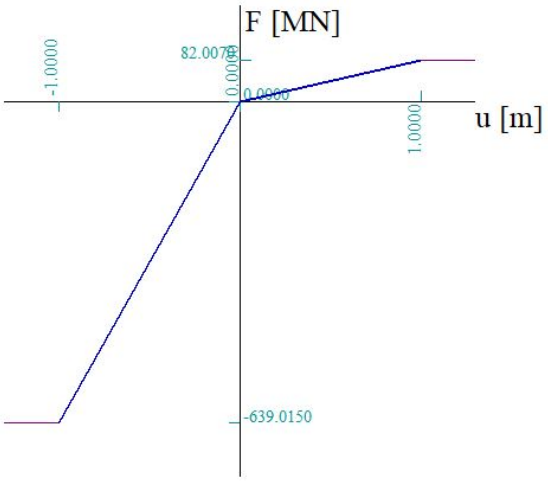
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt.LEKA.BG.	Verplaatsing	-1.000000 / -1278030000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 164013000.000000		

Tekenen



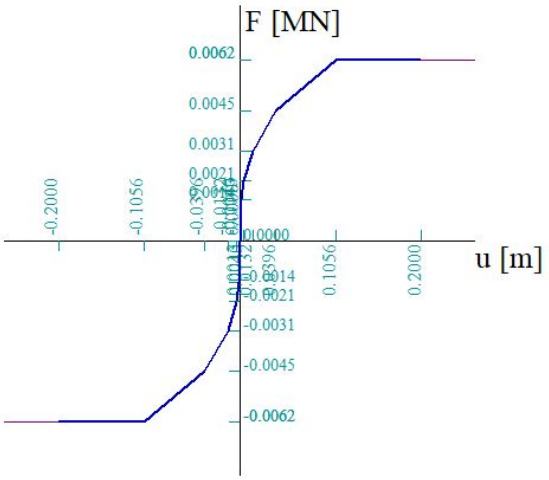
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-S+paalpunt.LEKA.OG.	Verplaatsing	-1.000000 / -639015000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 82007000.000000		

Tekenen



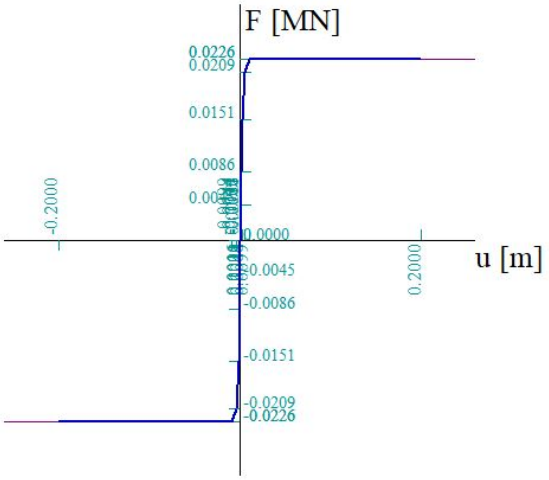
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen.B	Verplaatsing	-0.200000 / -6201.600000	Vrij	Vrij
		-0.105600 / -6201.600000		
		-0.039600 / -4472.127468		
		-0.013200 / -3100.800000		
		-0.003960 / -2075.777692		
		-0.001320 / -1439.263866		
		0.000000 / 0.000000		
		0.001320 / 1439.263866		
		0.003960 / 2075.777692		
		0.013200 / 3100.800000		
		0.039600 / 4472.127468		
		0.105600 / 6201.600000		
		0.200000 / 6201.600000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1.B	Verplaatsing	-0.200000 / -22567.068674	Vrij	Vrij
		-0.009900 / -22567.068674		
		-0.004400 / -20854.373851		
		-0.002200 / -15053.562285		
		-0.001100 / -8622.404267		
		-0.000550 / -4480.666657		
		0.000000 / 0.000000		
		0.000550 / 4480.666657		
		0.001100 / 8622.404267		
		0.002200 / 15053.562285		
		0.004400 / 20854.373851		
		0.009900 / 22567.068674		
		0.200000 / 22567.068674		

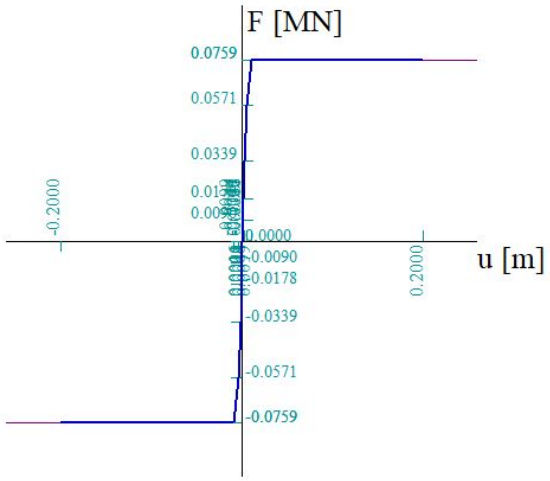
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V2.B	Verplaatsing	-0.200000 / -75873.637049	Vrij	Vrij
		-0.009900 / -75873.637049		
		-0.004400 / -57108.254714		
		-0.002200 / -33922.771015		
		-0.001100 / -17843.746859		
		-0.000550 / -9041.026316		
		0.000000 / 0.000000		
		0.000550 / 9041.026316		
		0.001100 / 17843.746859		
		0.002200 / 33922.771015		

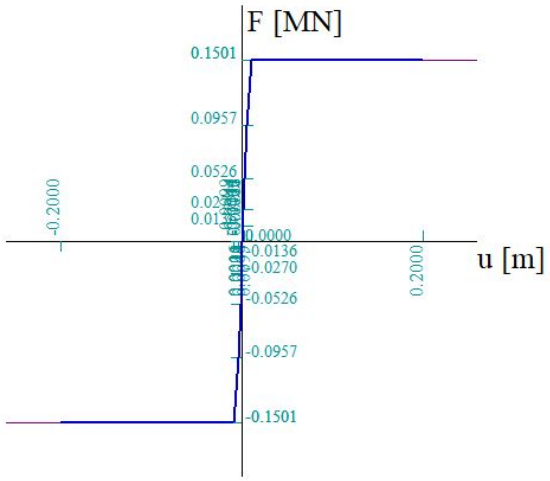
Naam	Type	u / F	Positief einde	Negatief einde
		0.004400 / 57108.254714		
		0.009900 / 75873.637049		
		0.200000 / 75873.637049		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V3.B	Verplaatsing	-0.200000 / -150113.918276	Vrij	Vrij
		-0.009900 / -150113.918276		
		-0.004400 / -95744.093897		
		-0.002200 / -52632.761421		
		-0.001100 / -27005.356255		
		-0.000550 / -13592.230940		
		0.000000 / 0.000000		
		0.000550 / 13592.230940		
		0.001100 / 27005.356255		
		0.002200 / 52632.761421		
		0.004400 / 95744.093897		
		0.009900 / 150113.918276		
		0.200000 / 150113.918276		

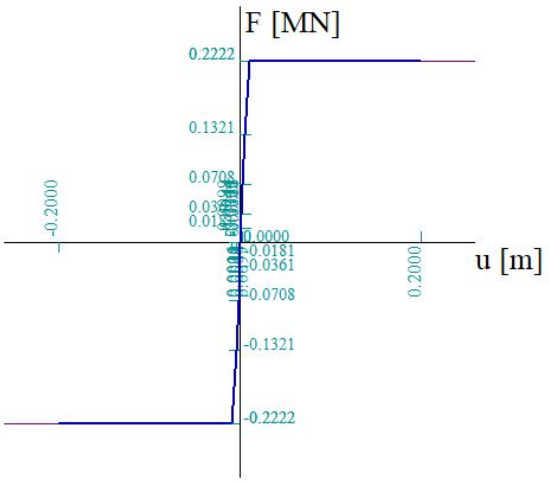
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V4.B	Verplaatsing	-0.200000 / -222224.259266	Vrij	Vrij
		-0.009900 / -222224.259266		
		-0.004400 / -132061.746372		
		-0.002200 / -70849.673664		

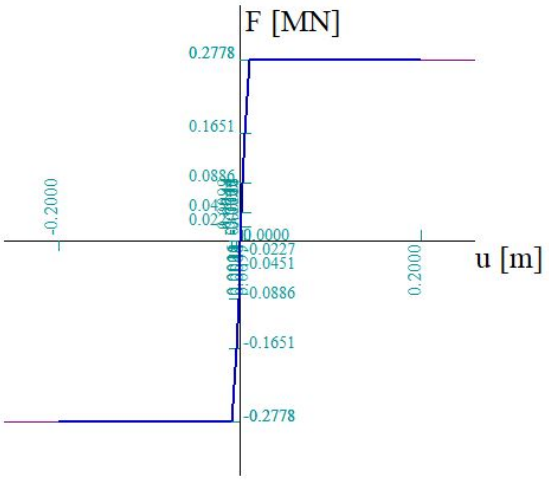
Naam	Type	u / F	Positief einde	Negatief einde
		-0.001100 / -36095.862129		
		-0.000550 / -18134.217245		
		0.000000 / 0.000000		
		0.000550 / 18134.217245		
		0.001100 / 36095.862129		
		0.002200 / 70849.673664		
		0.004400 / 132061.746372		
		0.009900 / 222224.259266		
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Tekenen



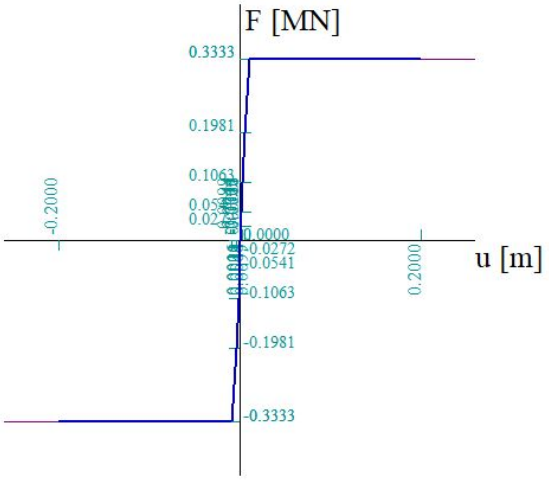
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V5.B	Verplaatsing	-0.200000 / -277780.324083	Vrij	Vrij
		-0.009900 / -277780.324083		
		-0.004400 / -165077.182965		
		-0.002200 / -88562.092080		
		-0.001100 / -45119.827661		
		-0.000550 / -22667.771557		
		0.000000 / 0.000000		
		0.000550 / 22667.771557		
		0.001100 / 45119.827661		
		0.002200 / 88562.092080		
		0.004400 / 165077.182965		
		0.009900 / 277780.324083		
		0.200000 / 277780.324083		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V6.B	Verplaatsing	-0.200000 / -333336.388899	Vrij	Vrij
		-0.009900 / -333336.388899		
		-0.004400 / -198092.619558		
		-0.002200 / -106274.510495		
		-0.001100 / -54143.793193		
		-0.000550 / -27201.325868		
		0.000000 / 0.000000		
		0.000550 / 27201.325868		
		0.001100 / 54143.793193		
		0.002200 / 106274.510495		
		0.004400 / 198092.619558		
		0.009900 / 333336.388899		
		0.200000 / 333336.388899		

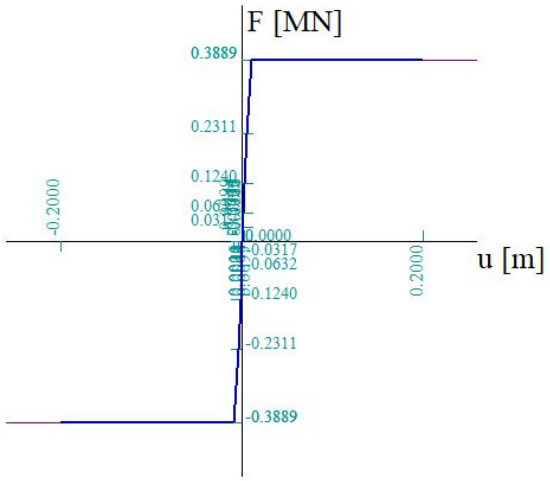
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Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V7.B	Verplaatsing	-0.200000 / -388892.453716	Vrij	Vrij
		-0.009900 / -388892.453716		
		-0.004400 / -231108.056151		
		-0.002200 / -123986.928911		
		-0.001100 / -63167.758725		
		-0.000550 / -31734.880179		
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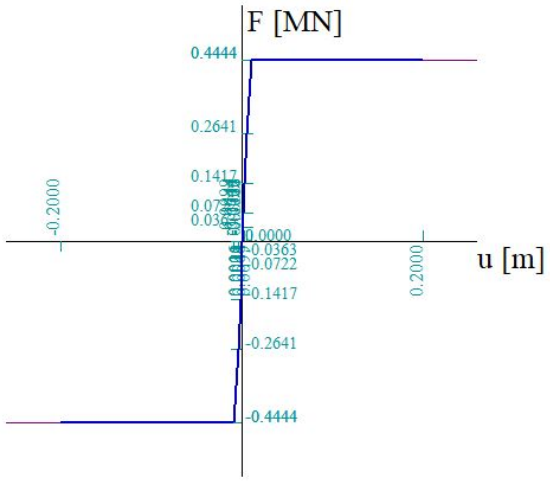
Naam	Type	u / F	Positief einde	Negatief einde
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		0.009900 / 388892.453716		
		0.200000 / 388892.453716		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V8.B	Verplaatsing	-0.200000 / -444448.518533	Vrij	Vrij
		-0.009900 / -444448.518533		
		-0.004400 / -264123.492744		
		-0.002200 / -141699.347327		
		-0.001100 / -72191.724257		
		-0.000550 / -36268.434491		
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		0.000550 / 36268.434491		
		0.001100 / 72191.724257		
		0.002200 / 141699.347327		
		0.004400 / 264123.492744		
		0.009900 / 444448.518533		
		0.200000 / 444448.518533		

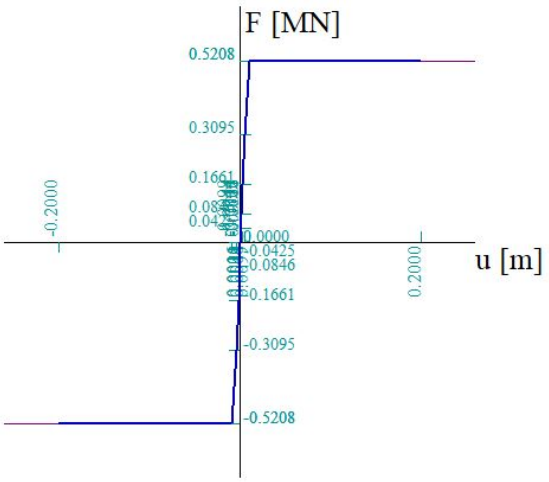
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V9.B	Verplaatsing	-0.200000 / -520838.107655	Vrij	Vrij
		-0.009900 / -520838.107655		
		-0.004400 / -309519.718059		
		-0.002200 / -166053.922649		

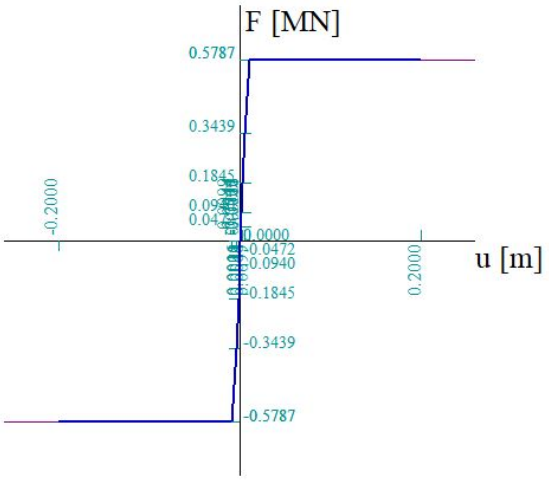
Naam	Type	u / F	Positief einde	Negatief einde
		-0.001100 / -84599.676864		
		-0.000550 / -42502.071669		
		0.000000 / 0.000000		
		0.000550 / 42502.071669		
		0.001100 / 84599.676864		
		0.002200 / 166053.922649		
		0.004400 / 309519.718059		
		0.009900 / 520838.107655		
		0.200000 / 520838.107655		

Tekenen



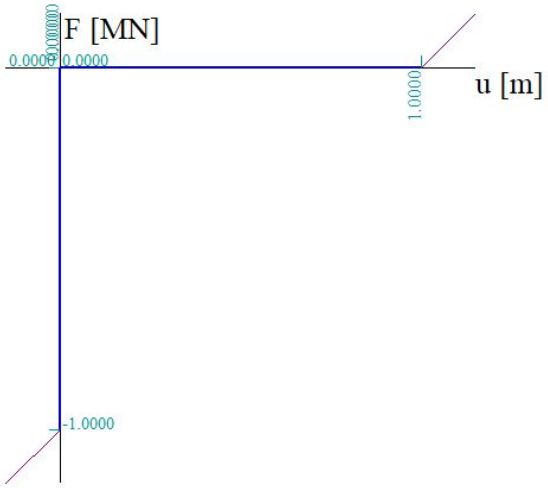
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V10.B	Verplaatsing	-0.200000 / -578709.008506	Vrij	Vrij
		-0.009900 / -578709.008506		
		-0.004400 / -343910.797844		
		-0.002200 / -184504.358499		
		-0.001100 / -93999.640960		
		-0.000550 / -47224.524076		
		0.000000 / 0.000000		
		0.000550 / 47224.524076		
		0.001100 / 93999.640960		
		0.002200 / 184504.358499		
		0.004400 / 343910.797844		
		0.009900 / 578709.008506		
		0.200000 / 578709.008506		

Tekenen



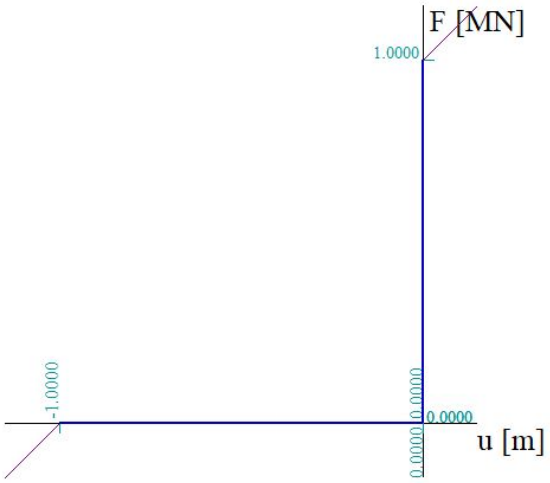
Naam	Type	u / F	Positief einde	Negatief einde
press only	Verplaatsing	-0.000001 / -1000000.000000	Verend	Verend
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Tekenen



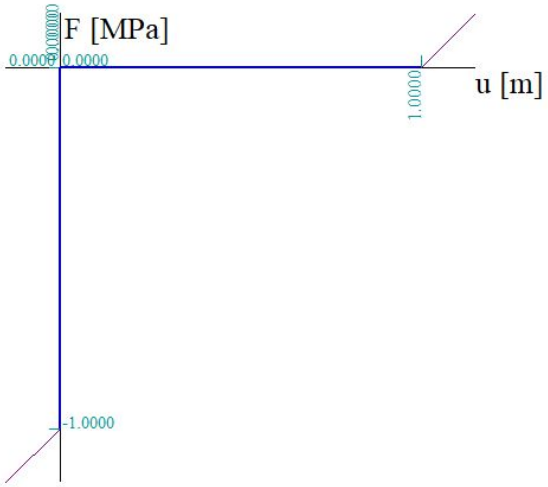
Naam	Type	u / F	Positief einde	Negatief einde
tension only	Verplaatsing	-1.000000 / 0.000000	Verend	Verend
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
soil press only	Niet-lineair bedding		Verend	Verend

Tekenen

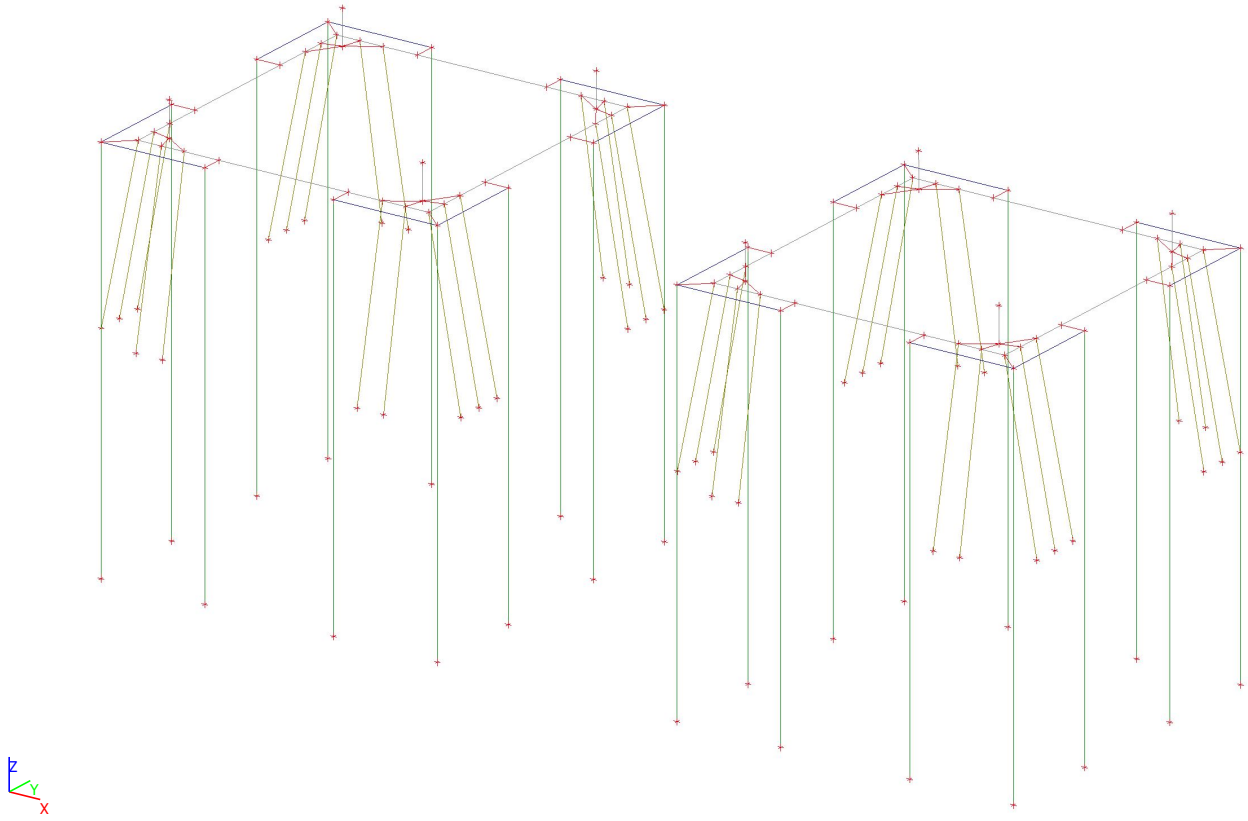


6. Belastingen

6.1. Belastingsgevallen

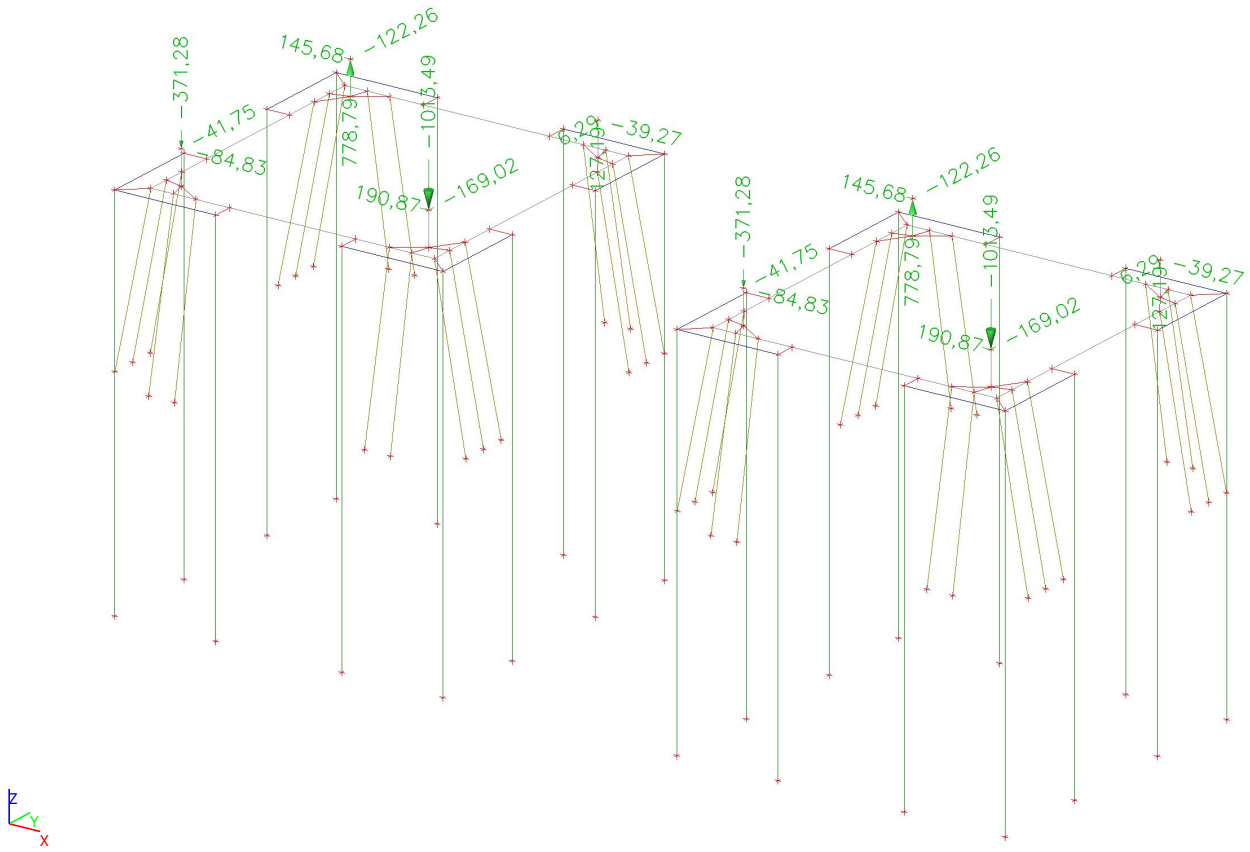
6.1.1. Belastingsgevallen - E.G.

Naam	Omschrijving	Actie type	Lastgroep	Richting
	Spec	Type last		
E.G.		Permanent	LG1	-Z
		Eigen gewicht		



6.1.2. Belastingsgevallen - high max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



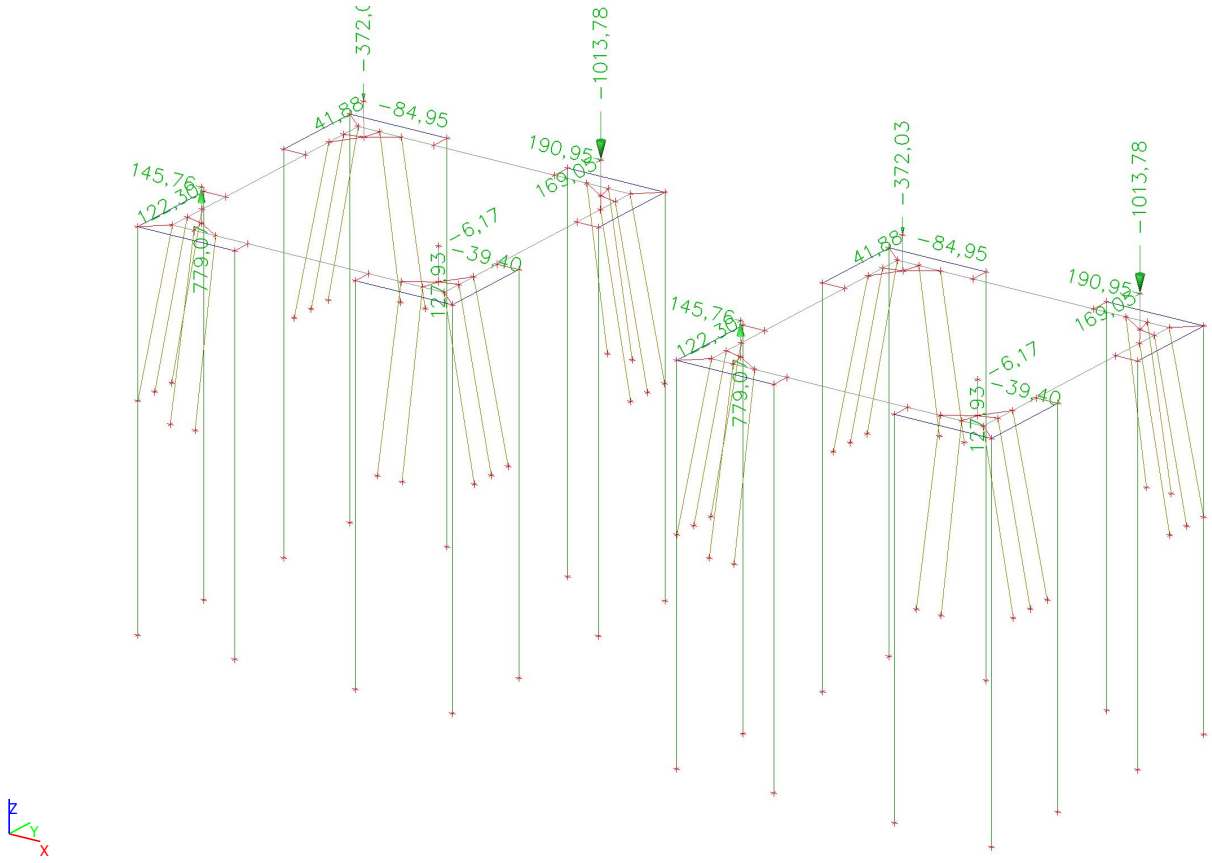
6.1.2.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Kracht	-84,83
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Kracht	-41,75
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Kracht	-371,28
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Kracht	145,68
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Kracht	-122,26
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Kracht	778,79
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Kracht	-39,27
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Kracht	6,29
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Kracht	127,19
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Kracht	190,87
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Kracht	-169,02
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Kracht	-1013,49
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Kracht	-84,83
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Kracht	-41,75
high max Wnd	1P2	high max Wnd ;225°	GCS	Z	Kracht	-371,28

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;225°_1P2_Z						
high max Wnd ;225°_1X_X1	1X2	high max Wnd ;225°	GCS	X	Kracht	145,68
high max Wnd ;225°_1X_Y1	1X2	high max Wnd ;225°	GCS	Y	Kracht	-122,26
high max Wnd ;225°_1X_Z1	1X2	high max Wnd ;225°	GCS	Z	Kracht	778,79
high max Wnd ;225°_1XY2_X	1XY2	high max Wnd ;225°	GCS	X	Kracht	-39,27
high max Wnd ;225°_1XY2_Y	1XY2	high max Wnd ;225°	GCS	Y	Kracht	6,29
high max Wnd ;225°_1XY2_Z	1XY2	high max Wnd ;225°	GCS	Z	Kracht	127,19
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Kracht	190,87
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Kracht	-169,02
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Kracht	-1013,49

6.1.3. Belastingsgevallen - high max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

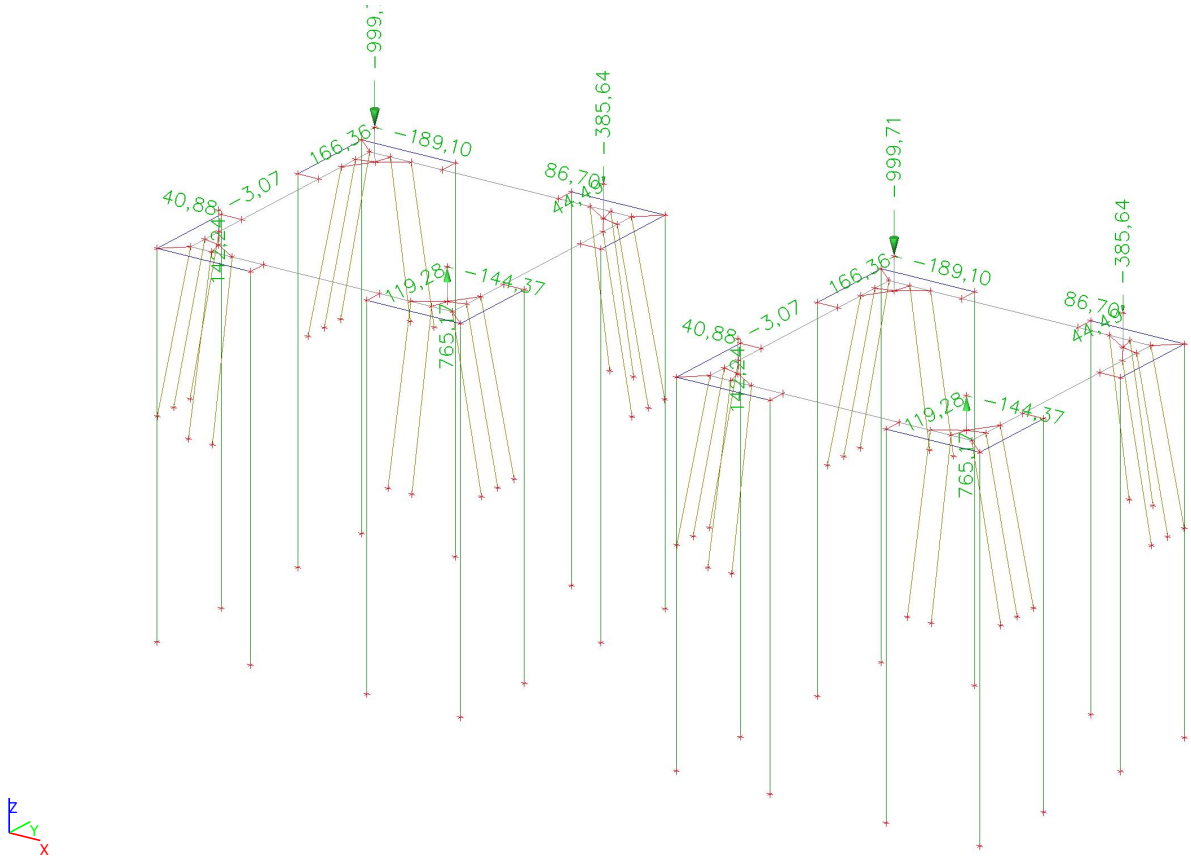


6.1.3.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Kracht	145,76
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Kracht	122,30
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Kracht	779,07
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Kracht	-84,95
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Kracht	41,88
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Kracht	-372,03
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Kracht	190,95
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Kracht	169,05
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Kracht	-1013,78
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Kracht	-39,40
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Kracht	-6,17
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Kracht	127,93
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Kracht	145,76
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Kracht	122,30
high max Wnd ;135°_1P2_Z	1P2	high max Wnd ;135°	GCS	Z	Kracht	779,07
high max Wnd ;135°_1X_X1	1X2	high max Wnd ;135°	GCS	X	Kracht	-84,95
high max Wnd ;135°_1X_Y1	1X2	high max Wnd ;135°	GCS	Y	Kracht	41,88
high max Wnd ;135°_1X_Z1	1X2	high max Wnd ;135°	GCS	Z	Kracht	-372,03
high max Wnd ;135°_1XY2_X	1XY2	high max Wnd ;135°	GCS	X	Kracht	190,95
high max Wnd ;135°_1XY2_Y	1XY2	high max Wnd ;135°	GCS	Y	Kracht	169,05
high max Wnd ;135°_1XY2_Z	1XY2	high max Wnd ;135°	GCS	Z	Kracht	-1013,78
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Kracht	-39,40
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Kracht	-6,17
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Kracht	127,93

6.1.4. Belastingsgevallen - high max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



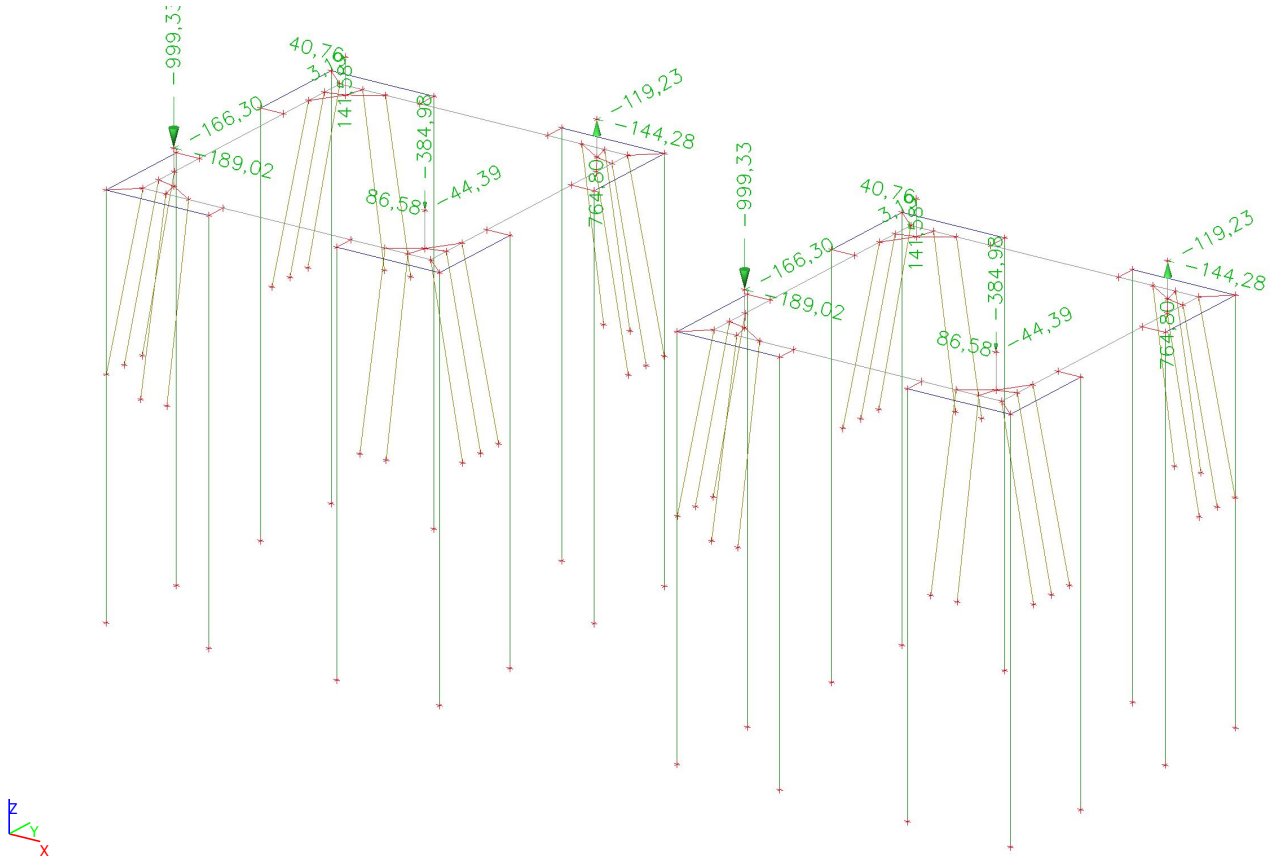
6.1.4.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Kracht	40,88
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Kracht	-3,07
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Kracht	142,24
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Kracht	-189,10
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Kracht	166,36
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Kracht	-999,71
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Kracht	86,70
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Kracht	44,49
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Kracht	-385,64
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Kracht	-144,37
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Kracht	119,28
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Kracht	765,17
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Kracht	40,88
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Kracht	-3,07
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Kracht	142,24

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X_X1	1X2	high max Wnd ;45°	GCS	X	Kracht	-189,10
high max Wnd ;45°_1X_Y1	1X2	high max Wnd ;45°	GCS	Y	Kracht	166,36
high max Wnd ;45°_1X_Z1	1X2	high max Wnd ;45°	GCS	Z	Kracht	-999,71
high max Wnd ;45°_1XY2_X	1XY2	high max Wnd ;45°	GCS	X	Kracht	86,70
high max Wnd ;45°_1XY2_Y	1XY2	high max Wnd ;45°	GCS	Y	Kracht	44,49
high max Wnd ;45°_1XY2_Z	1XY2	high max Wnd ;45°	GCS	Z	Kracht	-385,64
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Kracht	-144,37
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Kracht	119,28
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Kracht	765,17

6.1.5. Belastingsgevallen - high max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;315°	Standaard	Variabel Statisch	LG4	Kort	Geen

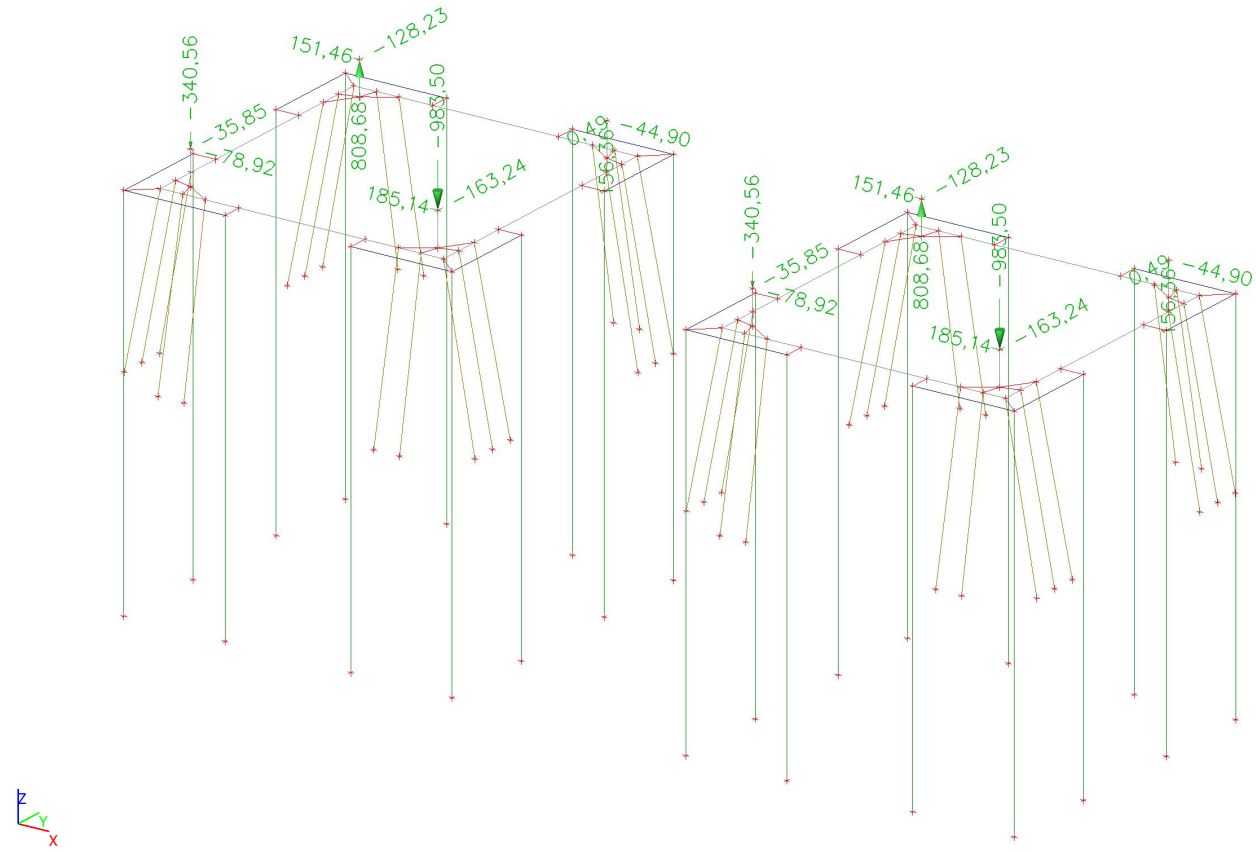


6.1.5.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Kracht	-189,02
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Kracht	-166,30
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Kracht	-999,33
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Kracht	40,76
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Kracht	3,19
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Kracht	141,58
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Kracht	-144,28
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Kracht	-119,23
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Kracht	764,80
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Kracht	86,58
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Kracht	-44,39
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Kracht	-384,98
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Kracht	-189,02
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Kracht	-166,30
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Kracht	-999,33
high max Wnd ;315°_1X_X1	1X2	high max Wnd ;315°	GCS	X	Kracht	40,76
high max Wnd ;315°_1X_Y1	1X2	high max Wnd ;315°	GCS	Y	Kracht	3,19
high max Wnd ;315°_1X_Z1	1X2	high max Wnd ;315°	GCS	Z	Kracht	141,58
high max Wnd ;315°_1XY2_X	1XY2	high max Wnd ;315°	GCS	X	Kracht	-144,28
high max Wnd ;315°_1XY2_Y	1XY2	high max Wnd ;315°	GCS	Y	Kracht	-119,23
high max Wnd ;315°_1XY2_Z	1XY2	high max Wnd ;315°	GCS	Z	Kracht	764,80
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Kracht	86,58
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Kracht	-44,39
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Kracht	-384,98

6.1.6. Belastingsgevallen - low max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



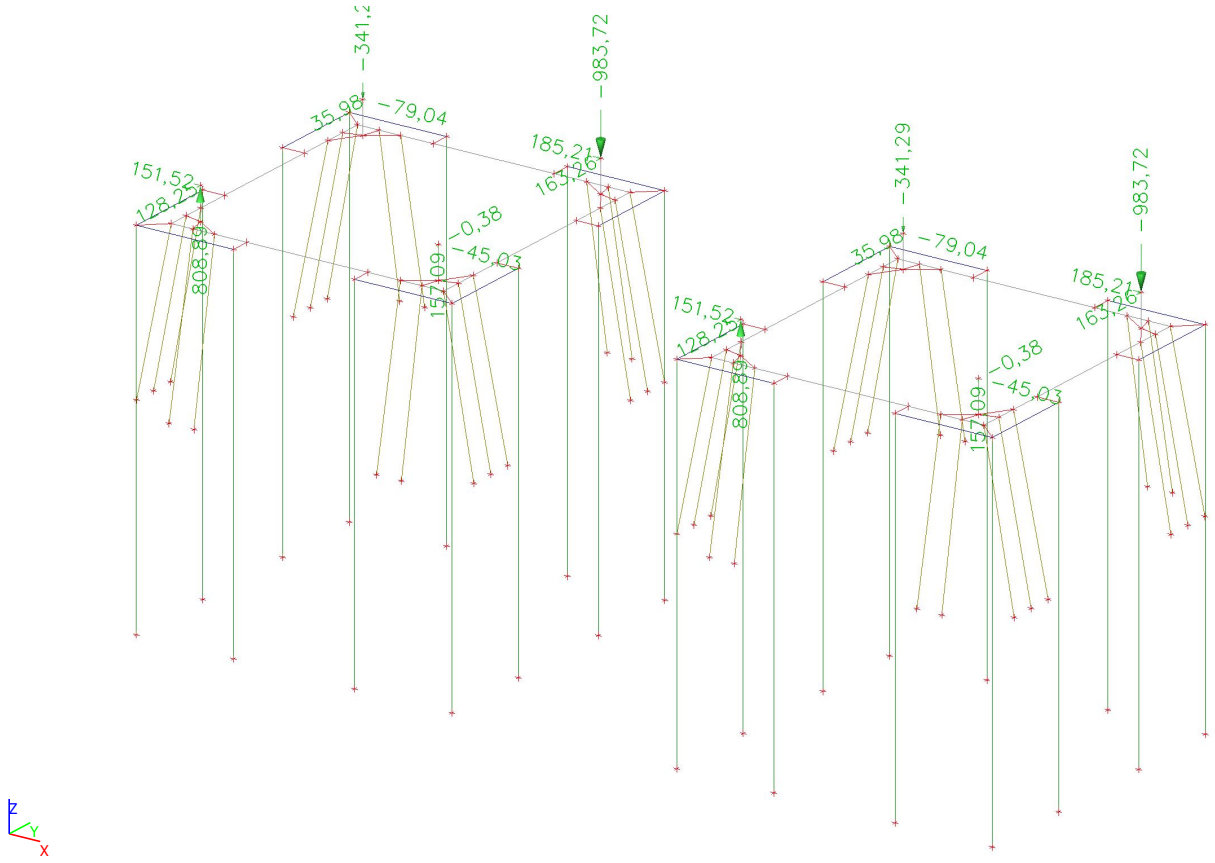
6.1.6.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Kracht	-78,92
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Kracht	-35,85
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Kracht	-340,56
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Kracht	151,46
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Kracht	-128,23
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Kracht	808,68
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Kracht	-44,90
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Kracht	0,49
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Kracht	156,36
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Kracht	185,14
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Kracht	-163,24
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Kracht	-983,50
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Kracht	-78,92
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Kracht	-35,85
low max Wnd	1P2	low max Wnd ;225°	GCS	Z	Kracht	-340,56

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;225°_1P2_Z						
low max Wnd ;225°_1X_X1	1X2	low max Wnd ;225°	GCS	X	Kracht	151,46
low max Wnd ;225°_1X_Y1	1X2	low max Wnd ;225°	GCS	Y	Kracht	-128,23
low max Wnd ;225°_1X_Z1	1X2	low max Wnd ;225°	GCS	Z	Kracht	808,68
low max Wnd ;225°_1XY2_X	1XY2	low max Wnd ;225°	GCS	X	Kracht	-44,90
low max Wnd ;225°_1XY2_Y	1XY2	low max Wnd ;225°	GCS	Y	Kracht	0,49
low max Wnd ;225°_1XY2_Z	1XY2	low max Wnd ;225°	GCS	Z	Kracht	156,36
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Kracht	185,14
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Kracht	-163,24
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Kracht	-983,50

6.1.7. Belastingsgevallen - low max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

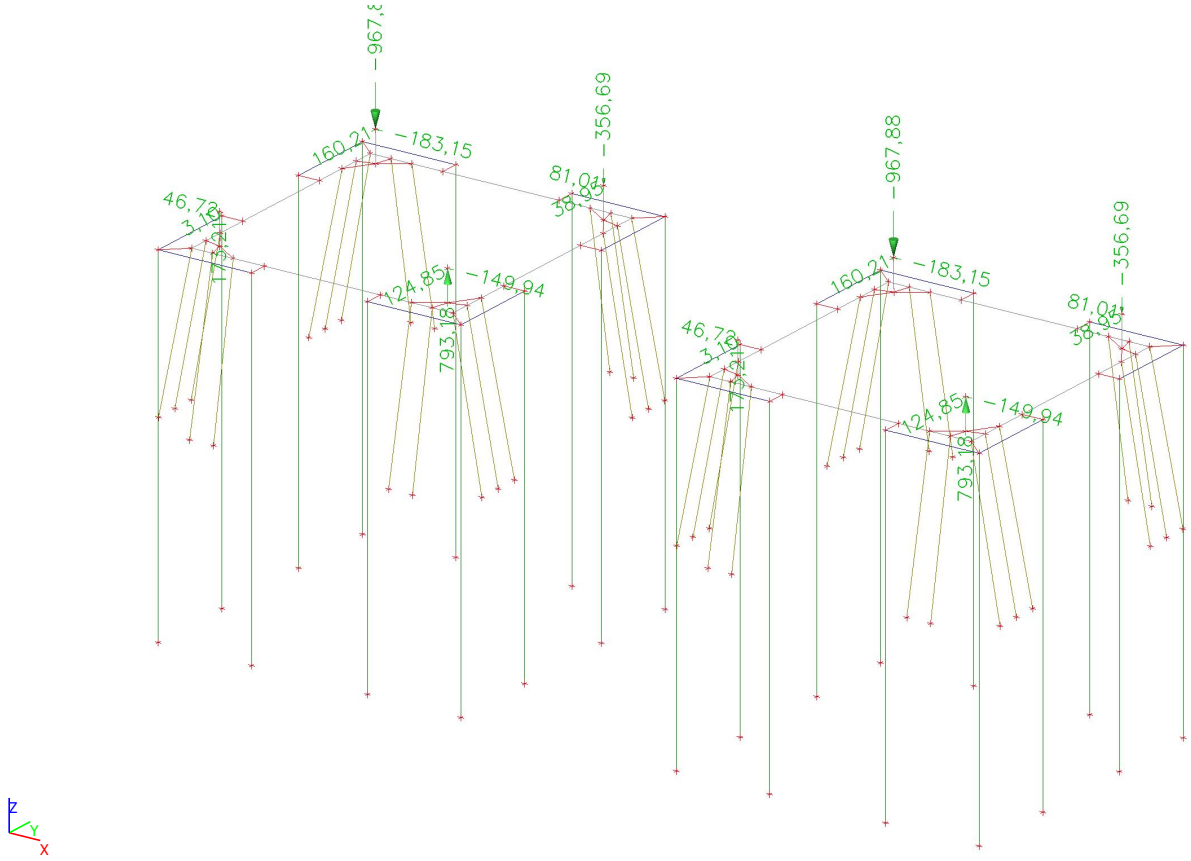


6.1.7.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Kracht	151,52
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Kracht	128,25
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Kracht	808,89
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Kracht	-79,04
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Kracht	35,98
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Kracht	-341,29
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Kracht	185,21
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Kracht	163,26
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Kracht	-983,72
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Kracht	-45,03
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Kracht	-0,38
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Kracht	157,09
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Kracht	151,52
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Kracht	128,25
low max Wnd ;135°_1P2_Z	1P2	low max Wnd ;135°	GCS	Z	Kracht	808,89
low max Wnd ;135°_1X_X1	1X2	low max Wnd ;135°	GCS	X	Kracht	-79,04
low max Wnd ;135°_1X_Y1	1X2	low max Wnd ;135°	GCS	Y	Kracht	35,98
low max Wnd ;135°_1X_Z1	1X2	low max Wnd ;135°	GCS	Z	Kracht	-341,29
low max Wnd ;135°_1XY2_X	1XY2	low max Wnd ;135°	GCS	X	Kracht	185,21
low max Wnd ;135°_1XY2_Y	1XY2	low max Wnd ;135°	GCS	Y	Kracht	163,26
low max Wnd ;135°_1XY2_Z	1XY2	low max Wnd ;135°	GCS	Z	Kracht	-983,72
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Kracht	-45,03
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Kracht	-0,38
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Kracht	157,09

6.1.8. Belastingsgevallen - low max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



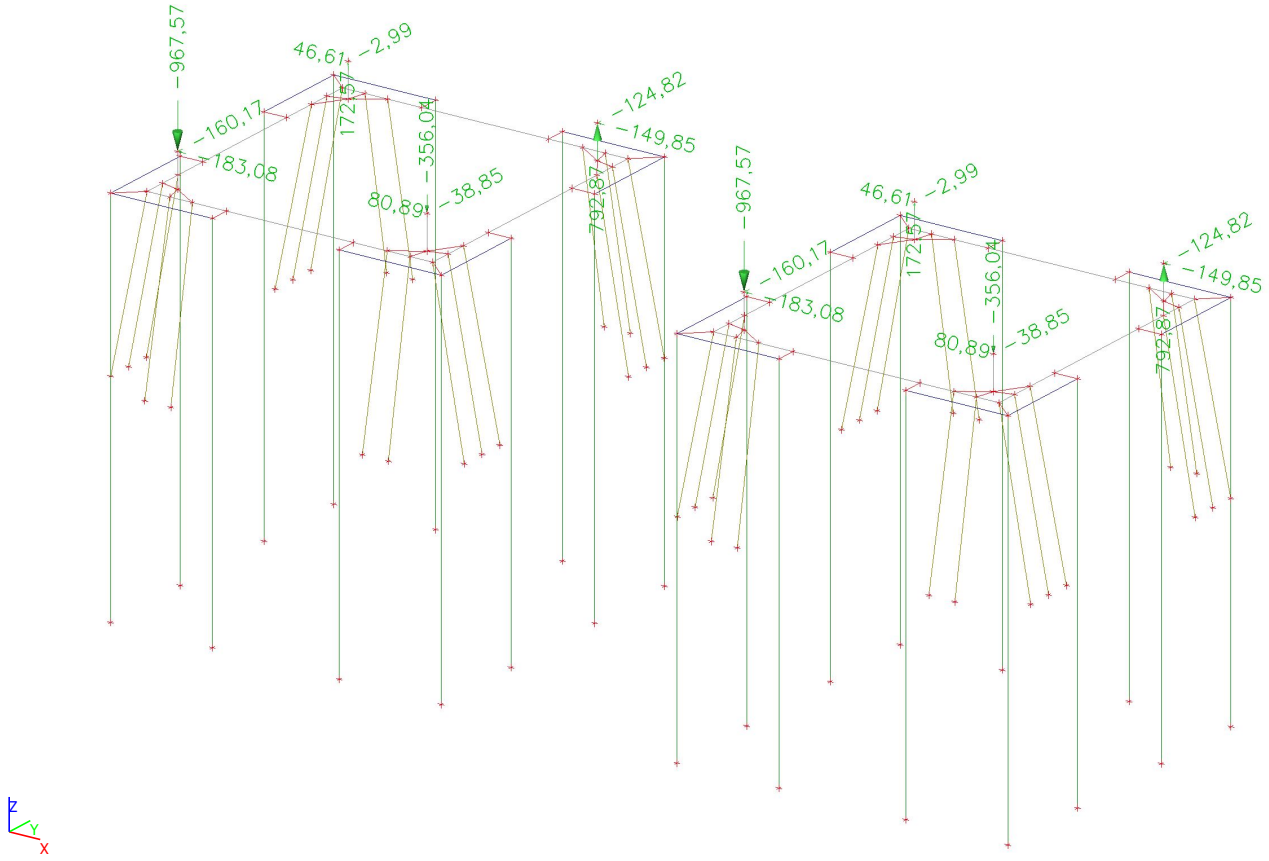
6.1.8.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Kracht	46,72
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Kracht	3,10
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Kracht	173,21
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Kracht	-183,15
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Kracht	160,21
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Kracht	-967,88
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Kracht	81,01
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Kracht	38,95
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Kracht	-356,69
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Kracht	-149,94
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Kracht	124,85
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Kracht	793,18
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Kracht	46,72
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Kracht	3,10
low max Wnd	1P2	low max Wnd ;45°	GCS	Z	Kracht	173,21

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;45°_1P2_Z						
low max Wnd ;45°_1X_X1	1X2	low max Wnd ;45°	GCS	X	Kracht	-183,15
low max Wnd ;45°_1X_Y1	1X2	low max Wnd ;45°	GCS	Y	Kracht	160,21
low max Wnd ;45°_1X_Z1	1X2	low max Wnd ;45°	GCS	Z	Kracht	-967,88
low max Wnd ;45°_1XY2_X	1XY2	low max Wnd ;45°	GCS	X	Kracht	81,01
low max Wnd ;45°_1XY2_Y	1XY2	low max Wnd ;45°	GCS	Y	Kracht	38,95
low max Wnd ;45°_1XY2_Z	1XY2	low max Wnd ;45°	GCS	Z	Kracht	-356,69
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Kracht	-149,94
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Kracht	124,85
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Kracht	793,18

6.1.9. Belastingsgevallen - low max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;315°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



6.1.9.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Kracht	-183,08
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Kracht	-160,17
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Kracht	-967,57
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Kracht	46,61
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Kracht	-2,99
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Kracht	172,57
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Kracht	-149,85
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Kracht	-124,82
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Kracht	792,87
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Kracht	80,89
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Kracht	-38,85
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Kracht	-356,04
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Kracht	-183,08
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Kracht	-160,17
low max Wnd ;315°_1P2_Z	1P2	low max Wnd ;315°	GCS	Z	Kracht	-967,57
low max Wnd ;315°_1X_X1	1X2	low max Wnd ;315°	GCS	X	Kracht	46,61
low max Wnd ;315°_1X_Y1	1X2	low max Wnd ;315°	GCS	Y	Kracht	-2,99
low max Wnd ;315°_1X_Z1	1X2	low max Wnd ;315°	GCS	Z	Kracht	172,57
low max Wnd ;315°_1XY2_X	1XY2	low max Wnd ;315°	GCS	X	Kracht	-149,85
low max Wnd ;315°_1XY2_Y	1XY2	low max Wnd ;315°	GCS	Y	Kracht	-124,82
low max Wnd ;315°_1XY2_Z	1XY2	low max Wnd ;315°	GCS	Z	Kracht	792,87
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Kracht	80,89
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Kracht	-38,85
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Kracht	-356,04

6.2. Niet-lineaire combinaties

Naam	Type	Belastingsgevallen	Coëff. [-]
high max Wnd ;225°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;225°	1,00
high max Wnd ;135°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;135°	1,00
high max Wnd ;45°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;45°	1,00
high max Wnd ;315°	Uiterste Grenstoestand	E.G.	1,35
		high max Wnd ;315°	1,00
low max Wnd ;45°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;45°	1,00
low max Wnd ;135°	Uiterste Grenstoestand	E.G.	0,90

Naam	Type	Belastingsgevallen	Coëff. [-]
		low max Wnd ;135°	1,00
low max Wnd ;315°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;315°	1,00
low max Wnd ;225°	Uiterste Grenstoestand	E.G.	0,90
		low max Wnd ;225°	1,00

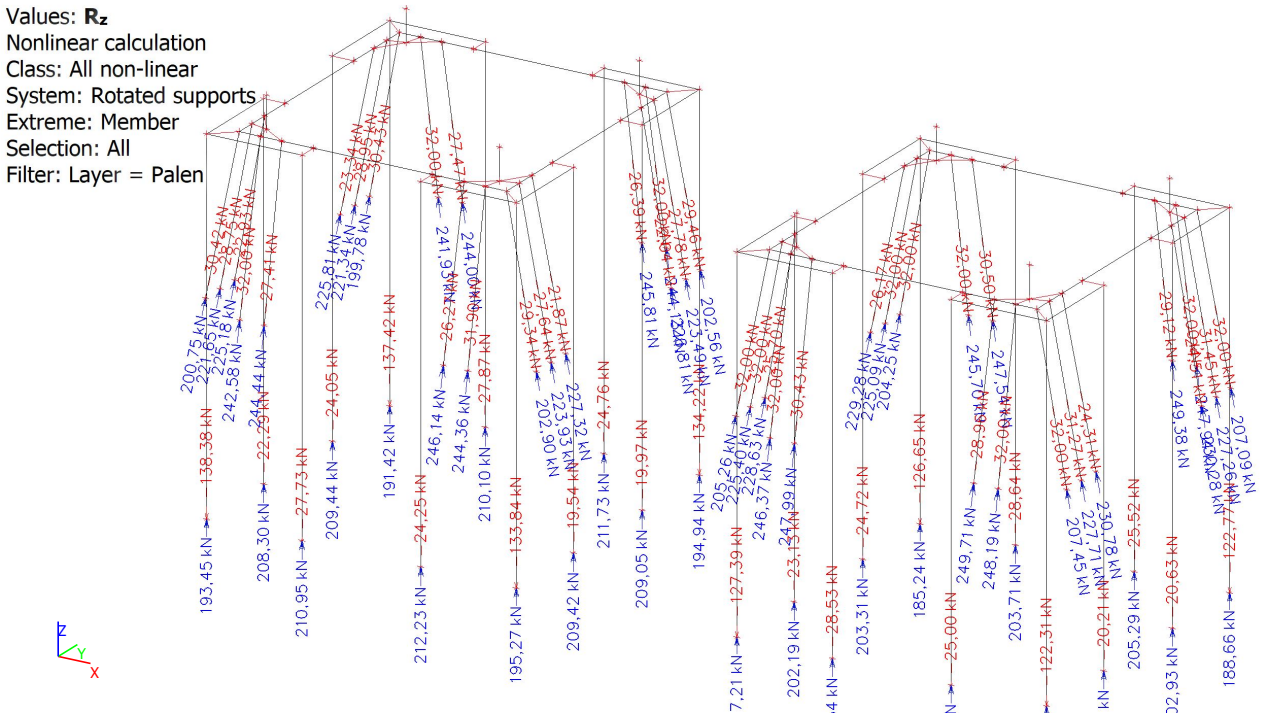
6.3. Resultaatklasses

Naam	Lijst
All non-linear	high max Wnd ;225°
	high max Wnd ;135°
	high max Wnd ;45°
	high max Wnd ;315°
	low max Wnd ;45°
	low max Wnd ;135°
	low max Wnd ;315°
	low max Wnd ;225°

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z



7.1.2. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = Funderingspaal - Rectangle (320; 320)
Knoopreacties

Naam	Belasting	Rx [kN]	Ry [kN]	Rz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	ex [mm]	ey [mm]
Sn24/N47	low max Wnd ;135°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn87/N199	high max Wnd ;225°	**0,00**	**0,00**	**249,71**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = LEKA Paal - type e (CHS219.1/10.0)
Knoopreacties

Naam	Belasting	Rx [kN]	Ry [kN]	Rz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	ex [mm]	ey [mm]
Sn113/N247	low max Wnd ;135°	0,00	0,00	**-138,38**	0,00	0,00	0,00	0,0	0,0
Sn47/N83	high max Wnd ;225°	**0,00**	**0,00**	**212,23**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Element
Selectie: Alle
Filter: Laag = Palen

Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
Sn21/N44	low max Wnd ;135°	0,00	0,00	**-30,42**	0,00	0,00	0,00	0,0	0,0
Sn21/N44	high max Wnd ;315°	**0,00**	**0,00**	**200,75**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn22/N45	low max Wnd ;135°	0,00	0,00	**-28,75**	0,00	0,00	0,00	0,0	0,0
Sn22/N45	high max Wnd ;315°	**0,00**	**0,00**	**221,65**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn23/N46	low max Wnd ;135°	0,00	0,00	**-22,93**	0,00	0,00	0,00	0,0	0,0
Sn23/N46	high max Wnd ;315°	**0,00**	**0,00**	**225,18**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn24/N47	low max Wnd ;135°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn24/N47	high max Wnd ;315°	**0,00**	**0,00**	**242,58**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn26/N48	low max Wnd ;135°	0,00	0,00	**-27,41**	0,00	0,00	0,00	0,0	0,0
Sn26/N48	high max Wnd ;315°	**0,00**	**0,00**	**244,44**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn27/N49	low max Wnd ;45°	**0,00**	**0,00**	**-29,34**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn27/N49	high max Wnd ;225°	0,00	0,00	**202,90**	0,00	0,00	**0,00**	0,0	0,0
Sn28/N50	low max Wnd ;45°	**0,00**	**0,00**	**-27,64**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn28/N50	high max Wnd ;225°	0,00	0,00	**223,93**	0,00	0,00	**0,00**	0,0	0,0
Sn29/N51	low max Wnd ;45°	**0,00**	**0,00**	**-21,87**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn29/N51	high max Wnd ;225°	0,00	0,00	**227,32**	0,00	0,00	**0,00**	0,0	0,0
Sn30/N52	low max Wnd ;45°	**0,00**	**0,00**	**-31,90**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn30/N52	high max Wnd ;225°	0,00	0,00	**244,36**	0,00	0,00	**0,00**	0,0	0,0
Sn31/N53	low max Wnd ;45°	**0,00**	**0,00**	**-26,27**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn31/N53	high max Wnd ;225°	0,00	0,00	**246,14**	0,00	0,00	**0,00**	0,0	0,0
Sn32/N10	low max Wnd ;315°	0,00	0,00	**-29,46**	0,00	0,00	0,00	0,0	0,0
Sn32/N10	high max Wnd ;135°	**0,00**	**0,00**	**202,56**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn33/N11	low max Wnd ;315°	0,00	0,00	**-27,78**	0,00	0,00	0,00	0,0	0,0
Sn33/N11	high max Wnd ;135°	**0,00**	**0,00**	**223,49**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn34/N12	low max Wnd ;315°	0,00	0,00	**-22,04**	0,00	0,00	0,00	0,0	0,0
Sn34/N12	high max Wnd ;135°	**0,00**	**0,00**	**226,81**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn35/N13	low max Wnd ;315°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn35/N13	high max Wnd ;135°	**0,00**	**0,00**	**244,13**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn36/N14	low max	0,00	0,00	**-26,39**	0,00	0,00	0,00	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								
Sn36/N14	high max Wnd ;135°	**0,00**	**0,00**	**245,81**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn37/N15	low max Wnd ;225°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn37/N15	high max Wnd ;45°	**0,00**	**0,00**	**241,93**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn38/N2	low max Wnd ;225°	0,00	0,00	**-27,47**	0,00	0,00	0,00	0,0	0,0
Sn38/N2	high max Wnd ;45°	**0,00**	**0,00**	**244,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn39/N3	low max Wnd ;225°	0,00	0,00	**-30,43**	0,00	0,00	0,00	0,0	0,0
Sn39/N3	high max Wnd ;45°	**0,00**	**0,00**	**199,78**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn40/N4	low max Wnd ;225°	0,00	0,00	**-28,95**	0,00	0,00	0,00	0,0	0,0
Sn40/N4	high max Wnd ;45°	**0,00**	**0,00**	**221,34**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn41/N54	low max Wnd ;225°	0,00	0,00	**-23,34**	0,00	0,00	0,00	0,0	0,0
Sn41/N54	high max Wnd ;45°	**0,00**	**0,00**	**225,81**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn42/N60	low max Wnd ;225°	0,00	0,00	**-27,87**	0,00	0,00	0,00	0,0	0,0
Sn42/N60	high max Wnd ;45°	**0,00**	**0,00**	**210,10**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn43/N61	low max Wnd ;225°	0,00	0,00	**-24,05**	0,00	0,00	0,00	0,0	0,0
Sn43/N61	high max Wnd ;45°	**0,00**	**0,00**	**209,44**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn44/N75	low max Wnd ;315°	0,00	0,00	**-24,76**	0,00	0,00	0,00	0,0	0,0
Sn44/N75	high max Wnd ;135°	**0,00**	**0,00**	**211,73**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn45/N77	low max Wnd ;315°	0,00	0,00	**-19,97**	0,00	0,00	0,00	0,0	0,0
Sn45/N77	high max Wnd ;135°	**0,00**	**0,00**	**209,05**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn46/N80	low max Wnd ;135°	0,00	0,00	**-27,73**	0,00	0,00	0,00	0,0	0,0
Sn46/N80	high max Wnd ;315°	**0,00**	**0,00**	**210,95**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn47/N83	low max Wnd ;45°	**0,00**	**0,00**	**-24,25**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn47/N83	high max Wnd ;225°	0,00	0,00	**212,23**	0,00	0,00	**0,00**	0,0	0,0
Sn48/N85	low max Wnd ;135°	0,00	0,00	**-22,29**	0,00	0,00	0,00	0,0	0,0
Sn48/N85	high max Wnd ;315°	**0,00**	**0,00**	**208,30**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn49/N87	low max Wnd ;45°	**0,00**	**0,00**	**-19,54**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn49/N87	high max Wnd ;225°	0,00	0,00	**209,42**	0,00	0,00	**0,00**	0,0	0,0
Sn78/N190	low max Wnd ;135°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn78/N190	high max Wnd ;315°	**0,00**	**0,00**	**205,26**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn79/N191	low max Wnd ;135°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn79/N191	high max Wnd ;315°	**0,00**	**0,00**	**225,40**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn80/N192	low max Wnd ;135°	0,00	0,00	**-25,70**	0,00	0,00	0,00	0,0	0,0
Sn80/N192	high max	**0,00**	**0,00**	**228,63**	**0,00**	**0,00**	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								
Sn81/N193	low max Wnd ;135°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn81/N193	high max Wnd ;315°	**0,00**	**0,00**	**246,37**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn82/N194	low max Wnd ;135°	0,00	0,00	**-30,43**	0,00	0,00	0,00	0,0	0,0
Sn82/N194	high max Wnd ;315°	**0,00**	**0,00**	**247,99**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn83/N195	low max Wnd ;45°	**0,00**	**0,00**	**-32,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn83/N195	high max Wnd ;225°	0,00	0,00	**207,45**	0,00	0,00	**0,00**	0,0	0,0
Sn84/N196	low max Wnd ;45°	**0,00**	**0,00**	**-31,27**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn84/N196	high max Wnd ;225°	0,00	0,00	**227,71**	0,00	0,00	**0,00**	0,0	0,0
Sn85/N197	low max Wnd ;45°	**0,00**	**0,00**	**-24,31**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn85/N197	high max Wnd ;225°	0,00	0,00	**230,78**	0,00	0,00	**0,00**	0,0	0,0
Sn86/N198	low max Wnd ;45°	**0,00**	**0,00**	**-32,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn86/N198	high max Wnd ;225°	0,00	0,00	**248,19**	0,00	0,00	**0,00**	0,0	0,0
Sn87/N199	low max Wnd ;45°	**0,00**	**0,00**	**-28,96**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn87/N199	high max Wnd ;225°	0,00	0,00	**249,71**	0,00	0,00	**0,00**	0,0	0,0
Sn88/N200	low max Wnd ;315°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn88/N200	high max Wnd ;135°	**0,00**	**0,00**	**207,09**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn89/N201	low max Wnd ;315°	0,00	0,00	**-31,45**	0,00	0,00	0,00	0,0	0,0
Sn89/N201	high max Wnd ;135°	**0,00**	**0,00**	**227,26**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn90/N202	low max Wnd ;315°	0,00	0,00	**-24,51**	0,00	0,00	0,00	0,0	0,0
Sn90/N202	high max Wnd ;135°	**0,00**	**0,00**	**230,28**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn91/N203	low max Wnd ;315°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn91/N203	high max Wnd ;135°	**0,00**	**0,00**	**247,94**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn92/N204	low max Wnd ;315°	0,00	0,00	**-29,12**	0,00	0,00	0,00	0,0	0,0
Sn92/N204	high max Wnd ;135°	**0,00**	**0,00**	**249,38**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn93/N205	low max Wnd ;225°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn93/N205	high max Wnd ;45°	**0,00**	**0,00**	**245,70**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn94/N206	low max Wnd ;225°	0,00	0,00	**-30,50**	0,00	0,00	0,00	0,0	0,0
Sn94/N206	high max Wnd ;45°	**0,00**	**0,00**	**247,54**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn95/N207	low max Wnd ;225°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn95/N207	high max Wnd ;45°	**0,00**	**0,00**	**204,25**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn96/N208	low max Wnd ;225°	0,00	0,00	**-32,00**	0,00	0,00	0,00	0,0	0,0
Sn96/N208	high max Wnd ;45°	**0,00**	**0,00**	**225,09**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn97/N209	low max	0,00	0,00	**-26,17**	0,00	0,00	0,00	0,0	0,0

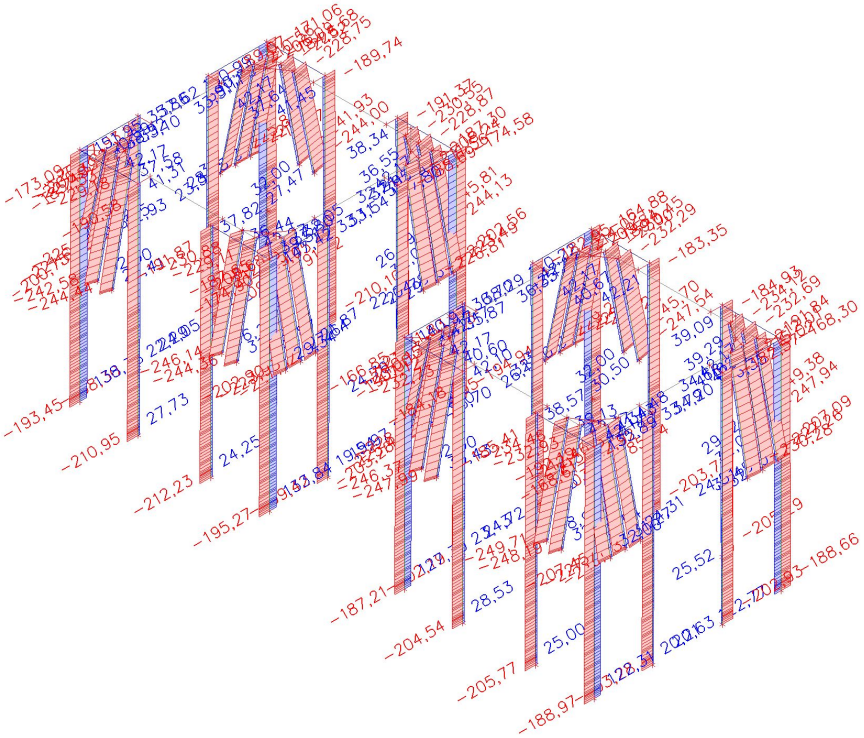
Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;225°								
Sn97/N209	high max Wnd ;45°	**0,00**	**0,00**	**229,28**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn98/N215	low max Wnd ;225°	0,00	0,00	**-28,64**	0,00	0,00	0,00	0,0	0,0
Sn98/N215	high max Wnd ;45°	**0,00**	**0,00**	**203,71**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn99/N216	low max Wnd ;225°	0,00	0,00	**-24,72**	0,00	0,00	0,00	0,0	0,0
Sn99/N216	high max Wnd ;45°	**0,00**	**0,00**	**203,31**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn100/N227	low max Wnd ;315°	0,00	0,00	**-25,52**	0,00	0,00	0,00	0,0	0,0
Sn100/N227	high max Wnd ;135°	**0,00**	**0,00**	**205,29**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn101/N229	low max Wnd ;315°	0,00	0,00	**-20,63**	0,00	0,00	0,00	0,0	0,0
Sn101/N229	high max Wnd ;135°	**0,00**	**0,00**	**202,93**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn102/N232	low max Wnd ;135°	0,00	0,00	**-28,53**	0,00	0,00	0,00	0,0	0,0
Sn102/N232	high max Wnd ;315°	**0,00**	**0,00**	**204,54**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn103/N235	low max Wnd ;45°	**0,00**	**0,00**	**-25,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn103/N235	high max Wnd ;225°	0,00	0,00	**205,77**	0,00	0,00	**0,00**	0,0	0,0
Sn104/N237	low max Wnd ;135°	0,00	0,00	**-23,13**	0,00	0,00	0,00	0,0	0,0
Sn104/N237	high max Wnd ;315°	**0,00**	**0,00**	**202,19**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn105/N239	low max Wnd ;45°	**0,00**	**0,00**	**-20,21**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn105/N239	high max Wnd ;225°	0,00	0,00	**203,28**	0,00	0,00	**0,00**	0,0	0,0
Sn106/N240	low max Wnd ;225°	0,00	0,00	**-126,65**	0,00	0,00	0,00	0,0	0,0
Sn106/N240	high max Wnd ;45°	**0,00**	**0,00**	**185,24**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn107/N241	low max Wnd ;315°	0,00	0,00	**-122,77**	0,00	0,00	0,00	0,0	0,0
Sn107/N241	high max Wnd ;135°	**0,00**	**0,00**	**188,66**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn108/N242	low max Wnd ;315°	0,00	0,00	**-134,22**	0,00	0,00	0,00	0,0	0,0
Sn108/N242	high max Wnd ;135°	**0,00**	**0,00**	**194,94**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn109/N243	low max Wnd ;225°	0,00	0,00	**-137,42**	0,00	0,00	0,00	0,0	0,0
Sn109/N243	high max Wnd ;45°	**0,00**	**0,00**	**191,42**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn110/N244	low max Wnd ;45°	**0,00**	**0,00**	**-122,31**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn110/N244	high max Wnd ;225°	0,00	0,00	**188,97**	0,00	0,00	**0,00**	0,0	0,0
Sn111/N245	low max Wnd ;135°	0,00	0,00	**-127,39**	0,00	0,00	0,00	0,0	0,0
Sn111/N245	high max Wnd ;315°	**0,00**	**0,00**	**187,21**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn112/N246	low max Wnd ;45°	**0,00**	**0,00**	**-133,84**	**0,00**	**0,00**	**0,00**	0,0	0,0
Sn112/N246	high max Wnd ;225°	0,00	0,00	**195,27**	0,00	0,00	**0,00**	0,0	0,0
Sn113/N247	low max Wnd ;135°	0,00	0,00	**-138,38**	0,00	0,00	0,00	0,0	0,0
Sn113/N247	high max	**0,00**	**0,00**	**193,45**	**0,00**	**0,00**	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	Wnd ;315°								

7.2. Krachten van de Funderingspalen

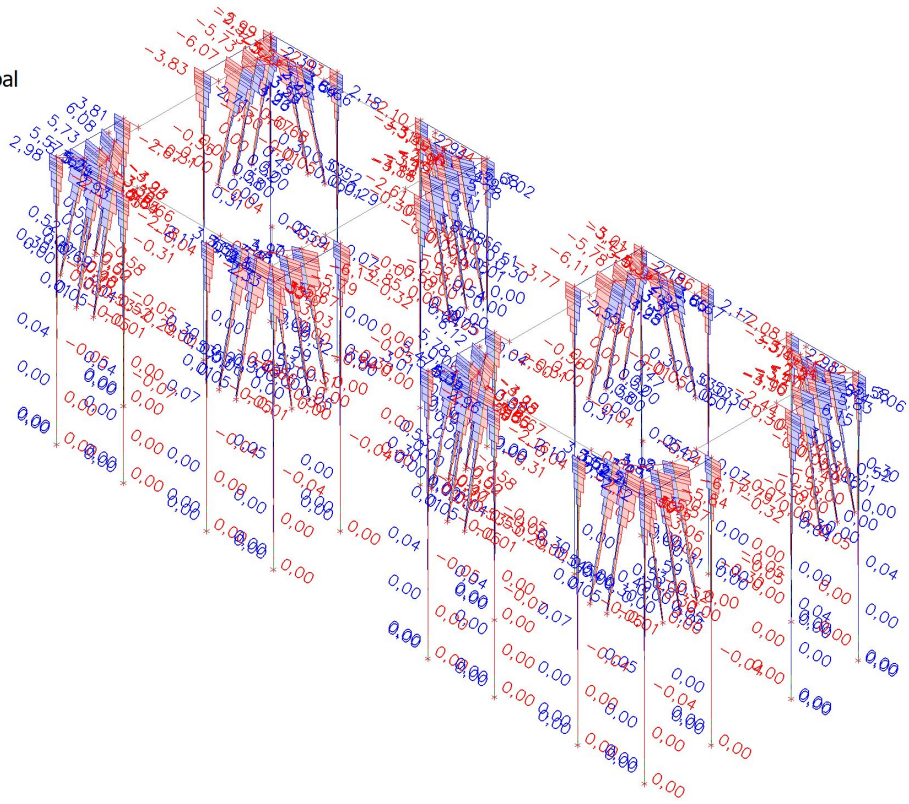
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



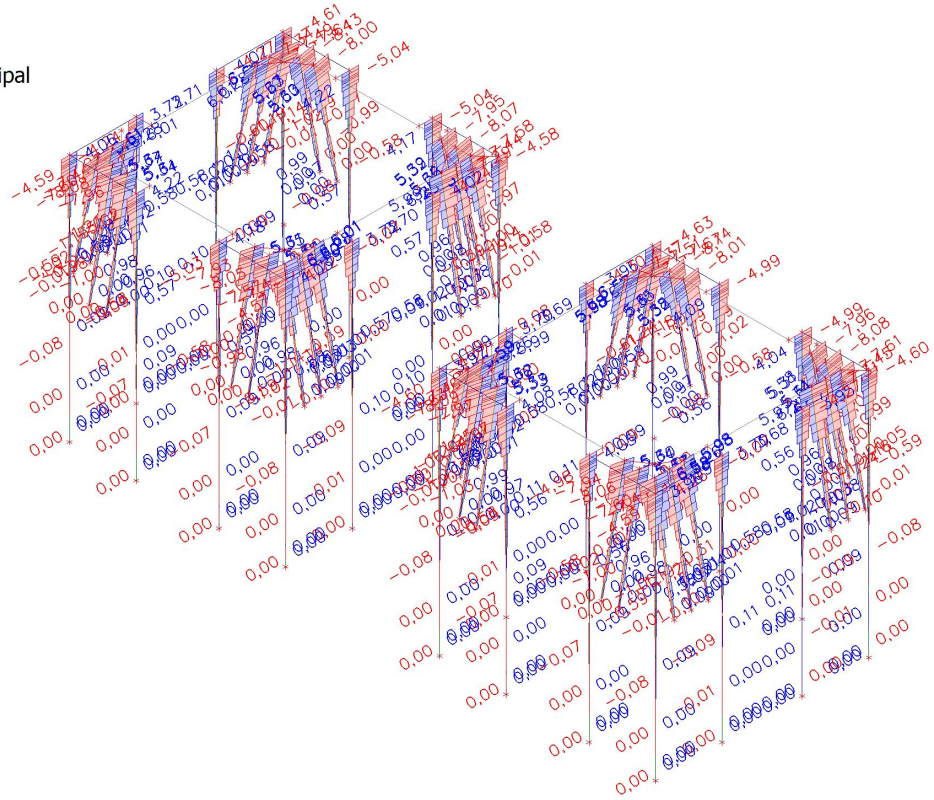
7.2.2. Interne 1D- krachten; V_y

Values: V_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



7.2.3. Interne 1D- krachten; V_z

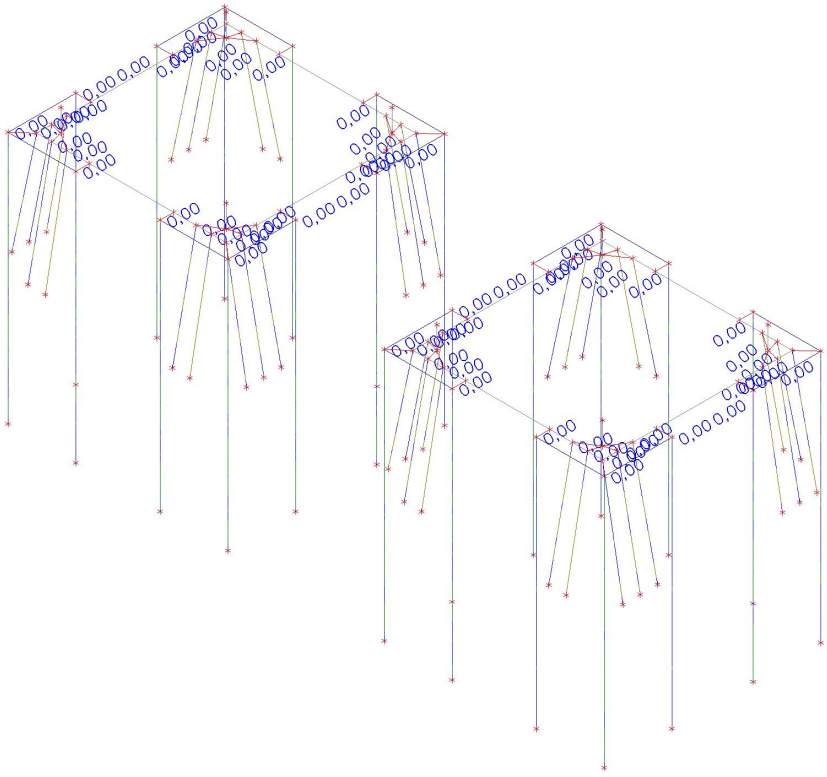
Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





7.2.4. Interne 1D- krachten; M_x

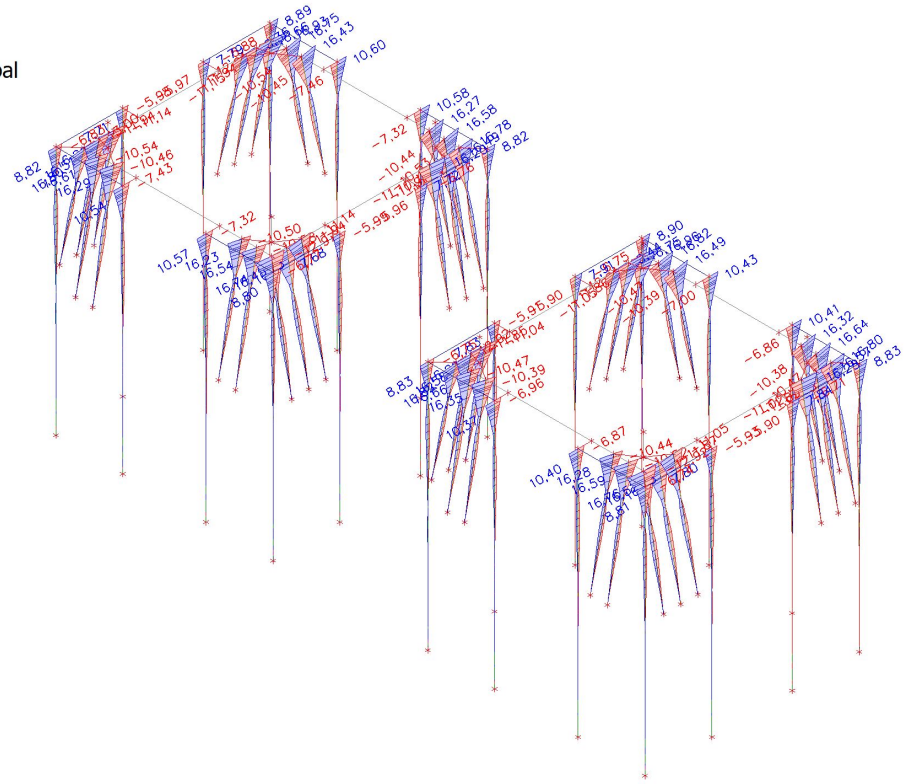
Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





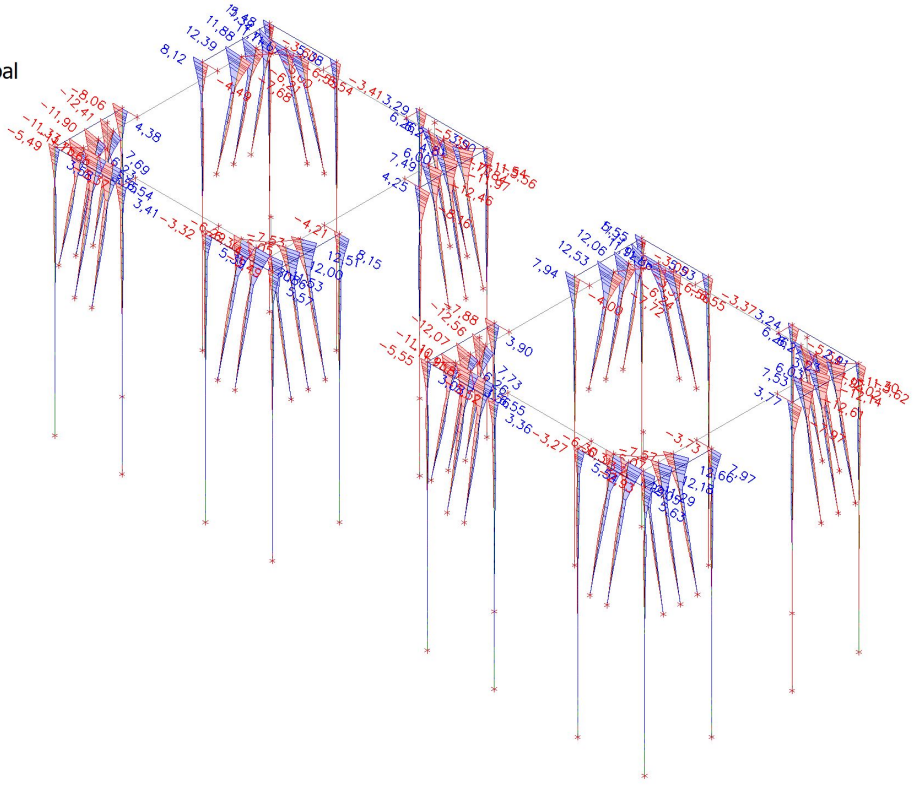
7.2.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen



7.2.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Funderingspaal - Rectangle (320; 320)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_P_67	7,647	high max Wnd ;225°	Funderingspaal - Rectangle (320; 320)	**-249,71**	-0,06	0,00	0,00	0,00	0,00
Paal_P_58	0,000	low max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	**42,17**	-2,29	6,04	**0,00**	-10,79	3,08
Paal_P_65	0,000	high max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	-87,96	**-6,17**	5,46	0,00	-9,35	**12,66**
Paal_P_73	0,000	high max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	-153,55	3,02	**-8,14**	0,00	16,82	-4,88
Paal_P_3	0,800-	low max Wnd ;45°	Funderingspaal - Rectangle (320; 320)	-30,46	4,56	**6,61**	0,00	-7,71	-5,73
Paal_P_3	0,000	low max Wnd ;45°	Funderingspaal - Rectangle (320; 320)	-29,40	4,77	6,61	0,00	**-13,00**	-9,46
Paal_P_75	0,000	high max Wnd ;135°	Funderingspaal - Rectangle (320; 320)	-81,16	1,36	-7,62	0,00	**16,96**	-1,74
Paal_P_70	0,000	high max Wnd ;225°	Funderingspaal - Rectangle (320; 320)	-87,34	**6,15**	5,43	0,00	-9,29	**-12,61**

7.2.8. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = LEKA Paal - type e (CHS219.1/10.0)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Paal_P_27	16,770	high max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	**-212,23**	0,00	0,00	0,00	0,00	0,00
Paal_P_93	0,000	low max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	**151,95**	-2,38	4,06	**0,00**	-6,83	3,58
Paal_P_29	0,000	high max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	-189,05	**-3,85**	-3,84	0,00	6,52	**8,15**
Paal_P_22	0,000	high max Wnd ;45°	LEKA Paal - type e (CHS219.1/10.0)	-189,74	-1,91	**-5,04**	**0,00**	**10,60**	2,94
Paal_P_22	0,000	low max Wnd ;225°	LEKA Paal - type e (CHS219.1/10.0)	41,45	1,09	**4,22**	0,00	**-7,46**	-0,17
Paal_P_25	0,000	high max Wnd ;135°	LEKA Paal - type e (CHS219.1/10.0)	-188,69	**3,85**	-3,86	0,00	6,58	**-8,16**

7.3. Krachten van de Poeren

7.3.1. Interne 1D-krachten

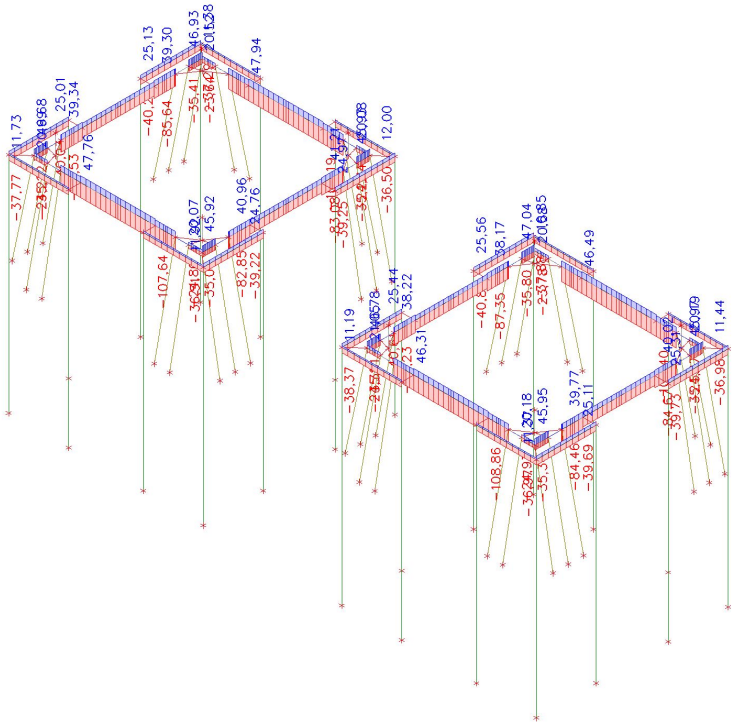
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Laag = Poeren

Naam	dx [m]	Belasting	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer 5	0,000	high max Wnd ;225°	**-1044,89**	254,48	15,45	1,67	-22,79	-264,56
Poer 8	1,475	low max Wnd ;225°	**809,78**	192,73	21,47	-0,26	0,00	9,72
Poer 7	0,000	high max Wnd ;315°	-1030,73	**-251,25**	16,07	-1,74	-23,70	**261,33**
Poer 8	0,000	high max Wnd ;135°	-400,28	-87,19	**-32,95**	**3,55**	**48,47**	87,28
Poer 5	0,000	high max Wnd ;135°	96,53	-23,50	-32,22	**-3,48**	47,53	22,18
Poer 6	0,000	high max Wnd ;225°	99,30	-23,32	**32,22**	3,48	**-47,52**	21,91
Poer 6	0,000	high max Wnd ;135°	-1041,67	**254,56**	-15,49	-1,67	22,84	**-264,74**

7.4. Krachten van de Funderingsbalken

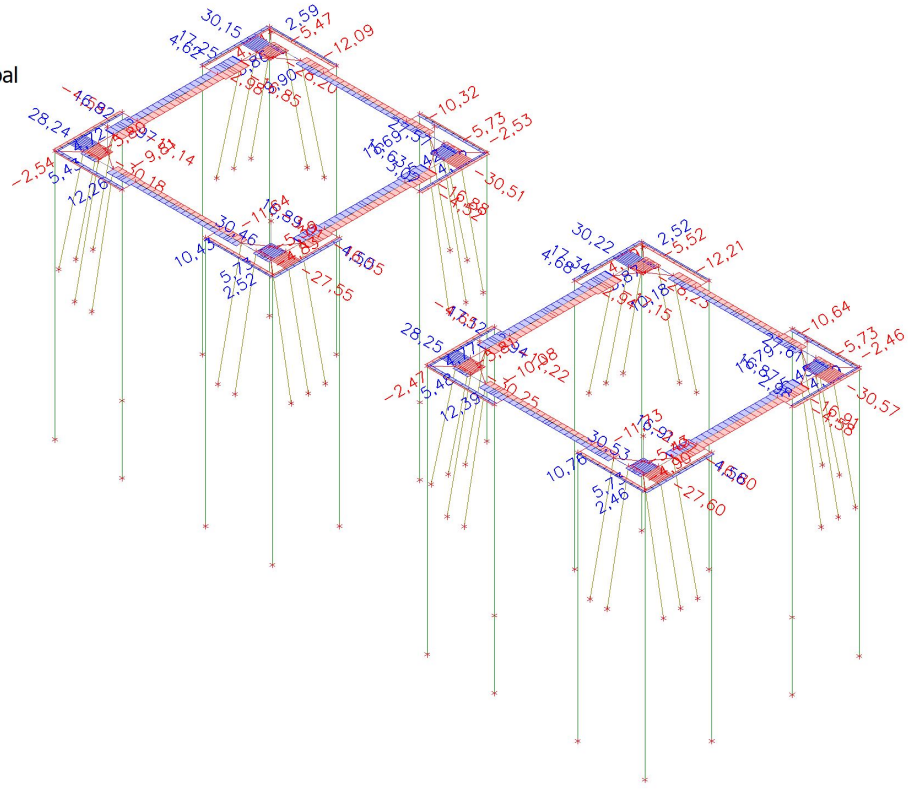
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



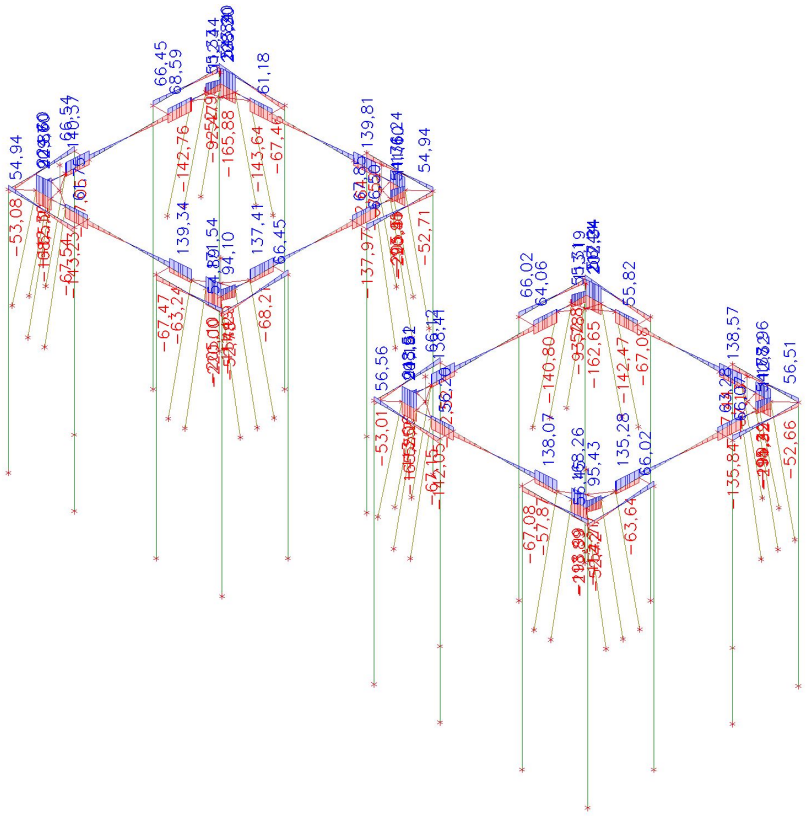
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



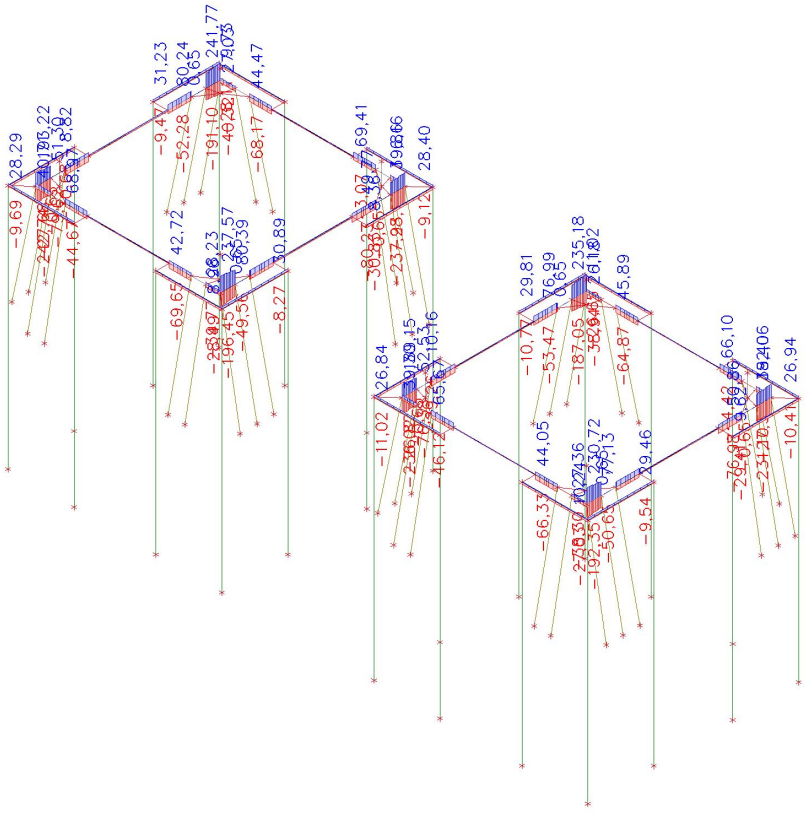
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



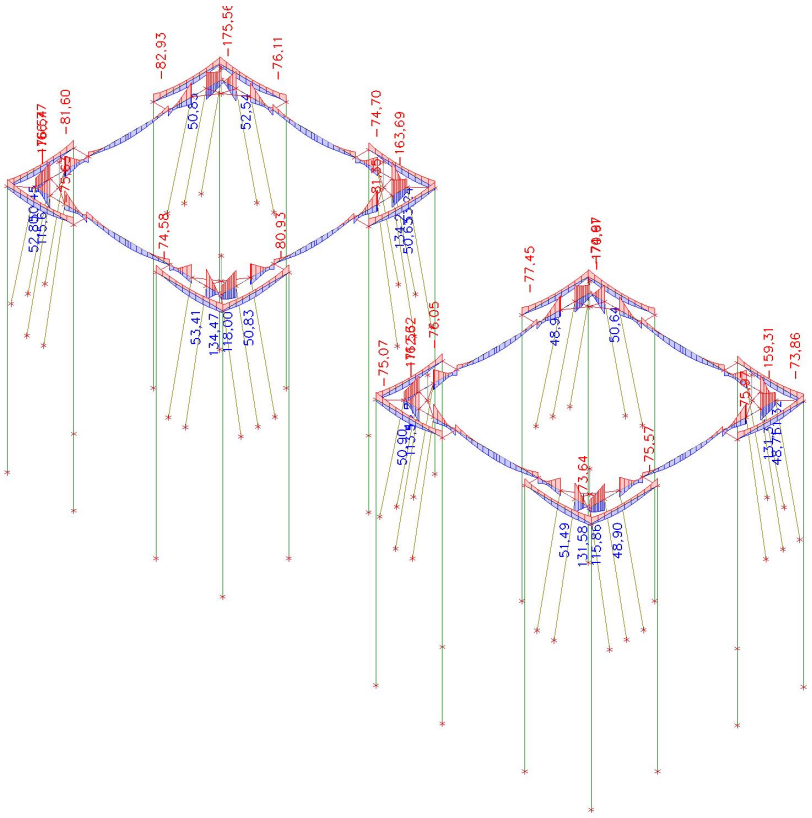
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



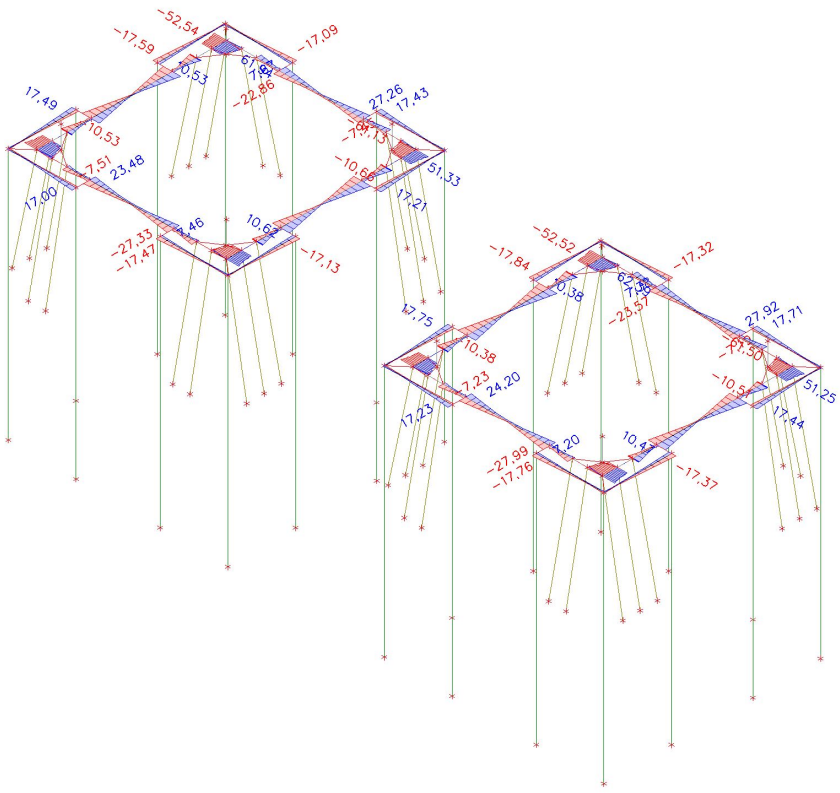
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Balk - Rectangle (750; 900)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Balk 15	2,000+	high max Wnd ;135°	Balk - Rectangle (750; 900)	**-108,86**	8,79	44,53	-29,29	-11,08	-18,02
Balk 4	3,500+	low max Wnd ;135°	Balk - Rectangle (750; 900)	**47,94**	-1,20	41,02	-4,05	-41,02	-0,98
Balk 13	11,600+	high max Wnd ;135°	Balk - Rectangle (750; 900)	-34,77	**-30,57**	-36,33	168,20	107,15	-5,73
Balk 13	0,000	high max Wnd ;225°	Balk - Rectangle (750; 900)	-34,56	**30,53**	95,43	-188,25	43,24	-47,66
Balk 4	1,000-	low max Wnd ;315°	Balk - Rectangle (750; 900)	20,08	-5,73	**-220,41**	39,86	-173,10	-4,43
Balk 6	0,000	low max Wnd ;135°	Balk - Rectangle (750; 900)	46,68	28,24	-55,24	**-242,74**	-90,74	-51,66
Balk 6	12,190+	low max Wnd ;225°	Balk - Rectangle (750; 900)	46,93	-28,20	73,35	**241,77**	-115,84	-40,98
Balk 7	11,600+	low max Wnd ;135°	Balk - Rectangle (750; 900)	20,99	-5,80	**224,60**	40,71	**-176,54**	4,45
Balk 7	1,000-	low max Wnd ;225°	Balk - Rectangle (750; 900)	-21,57	-4,30	156,64	28,23	**134,47**	-3,50
Balk 13	12,600	low max Wnd ;45°	Balk - Rectangle (750; 900)	-35,53	-14,04	-29,72	64,33	5,80	**-61,50**
Balk 14	12,600	low max Wnd ;135°	Balk - Rectangle (750; 900)	-35,80	13,74	-28,25	-60,83	4,34	**62,39**

7.4.8. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Ringbalk - Rectangle (750; 1000)

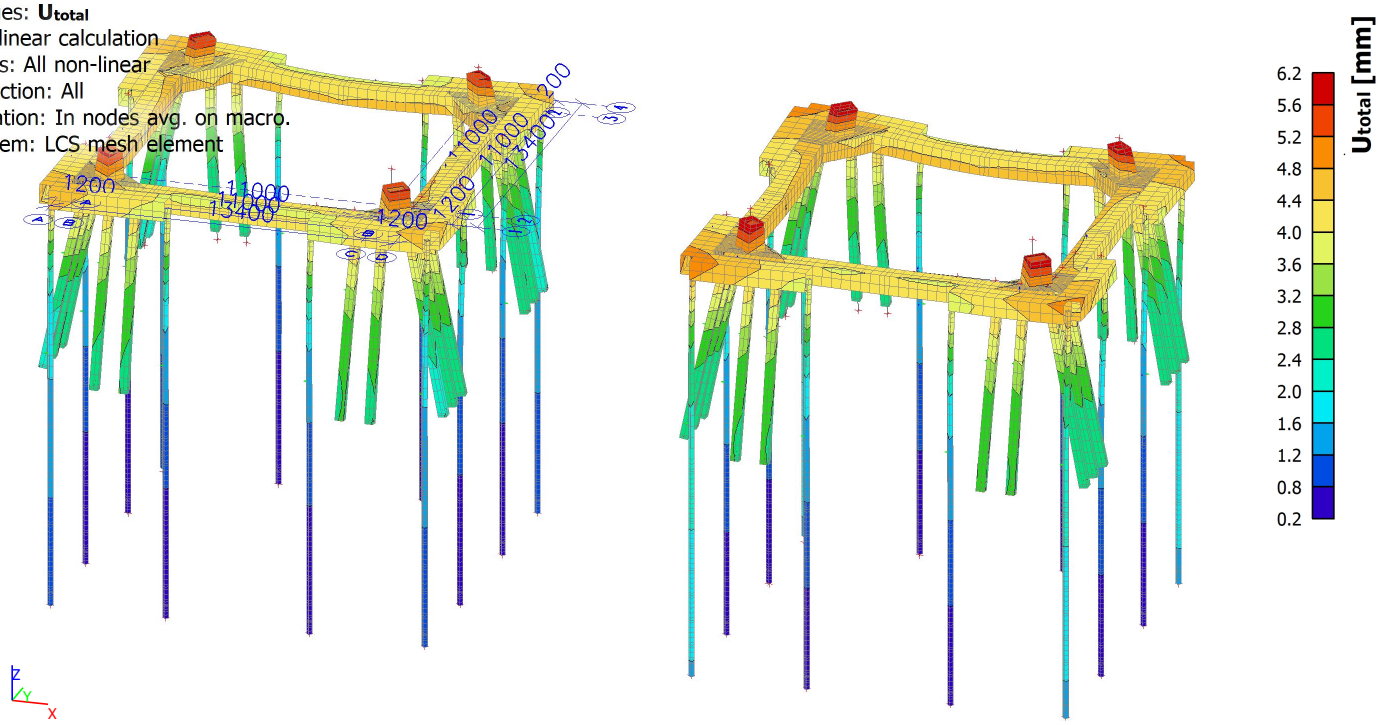
Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
S242	0,000	low max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	**-40,85**	-1,19	37,89	-10,77	-67,62	5,82
S246	0,000	low max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	9,56	**-4,90**	39,92	-11,76	-31,35	4,27
S243	0,000	low max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	9,49	**4,89**	40,02	11,51	-31,62	-4,28
S229	4,500	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	-0,88	-2,43	**-67,54**	20,00	-62,41	-7,36
S231	0,000	high max	Ringbalk -	-14,41	2,97	**66,54**	-15,17	-75,52	-10,53

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
		Wnd ;45°	Rectangle (750; 1000)						
S228	0,000	high max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	23,17	-1,20	61,98	**-30,83**	-26,21	5,08
S223	0,000	high max Wnd ;45°	Ringbalk - Rectangle (750; 1000)	23,45	1,31	61,73	**31,23**	-25,33	-5,47
S223	0,000	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	-35,79	-0,91	60,87	3,48	**-82,93**	4,35
S230	1,800-	high max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	11,92	0,72	0,37	-28,49	**53,41**	-1,01
S242	0,000	low max Wnd ;135°	Ringbalk - Rectangle (750; 1000)	**25,56**	4,68	36,00	17,70	-9,03	**-17,84**
S247	0,000	low max Wnd ;225°	Ringbalk - Rectangle (750; 1000)	25,44	-4,65	35,80	-17,35	-8,41	**17,75**

7.5. Vervormingen

7.5.1. 3D displacement; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Selection: All
Location: In nodes avg. on macro.
System: LCS mesh element



7.5.2. 3D verplaatsing

Niet-lineaire berekening
Klasse: All non-linear
Selectie: Alle
Locatie: In knopen gem. bij macro. Systeem: LCS net element
Resultaten op 1D-element:
Extreme 1D: Element

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Balk 4	2,750	7	high max Wnd ;315°	1,3	3,0	0,0	-0,4	0,7	0,0	**3,2**
Balk 4	3,500-	1	high max Wnd ;135°	-1,4	-3,2	-2,9	-0,6	-0,1	0,0	**4,6**
Balk 5	9,775	7	high max Wnd ;315°	-2,9	1,4	0,0	-0,4	-0,7	0,0	**3,3**
Balk 5	9,000-	1	high max Wnd ;135°	3,0	-1,7	-3,1	-0,7	0,1	0,0	**4,6**
Balk 6	9,620-	1	high max Wnd ;225°	-3,0	-1,5	-0,1	0,4	-0,7	0,0	**3,3**
Balk 6	9,000-	7	high max Wnd ;45°	3,0	1,7	-3,1	0,7	0,1	0,0	**4,6**
Poer 5	0,000	5	high max Wnd ;135°	-0,9	1,1	-3,1	0,1	-0,1	0,4	**3,4**
Poer 5	1,475	7	low max Wnd ;45°	2,1	5,2	-1,1	0,0	-0,1	1,2	**5,7**
Poer 6	0,000	7	high max Wnd ;225°	-0,9	1,1	3,1	-0,1	0,1	0,4	**3,4**
Poer 6	1,475	5	low max Wnd ;315°	2,2	5,3	1,1	0,0	0,1	1,3	**5,8**
Paal_P_3	5,643-	7	low max Wnd ;45°	0,3	-0,1	0,0	0,1	0,4	-0,2	**0,4**
Paal_P_3	0,000	1	low max Wnd ;135°	-2,4	-1,7	3,3	0,0	0,2	0,2	**4,4**
Paal_P_2	5,643-	7	low max Wnd ;45°	0,4	-0,1	0,0	0,1	0,4	-0,3	**0,5**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_2	0,000	1	low max Wnd ;135°	-2,3	-1,3	3,5	0,1	0,4	0,4	**4,4**
Paal_P_1	5,179	5	high max Wnd ;135°	-0,5	-0,2	0,1	0,1	0,4	0,0	**0,6**
Paal_P_1	0,000	5	high max Wnd ;315°	3,0	0,5	-3,2	0,0	0,1	0,0	**4,4**
Poer 7	0,000	3	high max Wnd ;45°	-0,8	-1,1	-3,1	-0,1	-0,1	-0,4	**3,4**
Poer 7	1,475	1	low max Wnd ;135°	2,2	-5,2	-1,1	0,0	-0,1	-1,2	**5,8**
Poer 8	0,000	1	high max Wnd ;315°	-0,8	-1,1	3,1	0,1	0,1	-0,4	**3,4**
Poer 8	1,475	3	low max Wnd ;225°	2,3	-5,3	1,0	0,0	0,1	-1,2	**5,8**
Balk 7	2,750	1	high max Wnd ;45°	1,3	-3,0	0,0	0,4	0,7	0,0	**3,3**
Balk 7	3,500-	7	high max Wnd ;225°	-1,4	3,2	-2,9	0,6	-0,1	0,0	**4,5**
Paal_P_4	6,107	3	low max Wnd ;45°	0,0	-0,1	0,0	0,0	0,3	-0,3	**0,1**
Paal_P_4	0,000	1	low max Wnd ;135°	-2,7	-1,7	3,0	-0,1	0,4	0,4	**4,4**
Paal_P_6	6,107	8	low max Wnd ;45°	0,0	0,0	0,0	0,0	0,3	-0,3	**0,0**
Paal_P_6	0,000	5	high max Wnd ;315°	3,3	1,4	-2,4	0,0	0,1	0,1	**4,3**
Paal_P_7	5,643-	1	low max Wnd ;135°	0,4	0,1	0,0	-0,1	0,4	0,2	**0,4**
Paal_P_7	0,000	7	low max Wnd ;45°	-2,3	1,6	3,2	0,0	0,2	-0,2	**4,3**
Paal_P_8	5,643-	1	low max Wnd ;135°	0,5	0,1	0,0	-0,1	0,4	0,3	**0,5**
Paal_P_8	0,000	3	high max Wnd ;225°	3,0	-0,9	-3,0	0,0	0,1	-0,1	**4,4**
Paal_P_9	5,179	3	high max Wnd ;45°	-0,5	0,2	0,1	-0,1	0,4	0,0	**0,5**
Paal_P_9	0,000	3	high max Wnd ;225°	3,1	-0,5	-3,2	0,0	0,1	0,0	**4,4**
Paal_P_10	6,107	5	low max Wnd ;135°	0,0	0,1	0,0	0,0	0,3	0,3	**0,1**
Paal_P_10	0,000	3	high max Wnd ;225°	3,3	-1,4	-2,4	0,0	0,1	-0,1	**4,3**
Paal_P_11	6,107	1	low max Wnd ;135°	0,0	0,0	0,0	0,0	0,3	0,3	**0,0**
Paal_P_11	0,000	3	high max Wnd ;225°	3,3	-1,4	-2,4	0,0	0,1	-0,1	**4,3**
Paal_P_12	5,643-	7	low max Wnd ;225°	0,4	-0,1	0,0	0,1	0,4	-0,2	**0,4**
Paal_P_12	0,000	1	low max Wnd ;315°	-2,3	-1,6	3,2	0,0	0,2	0,2	**4,3**
Paal_P_13	5,643-	7	low max Wnd ;225°	0,5	-0,1	0,0	0,1	0,4	-0,3	**0,5**
Paal_P_13	0,000	5	high max Wnd ;135°	3,0	0,9	-3,0	0,0	0,1	0,1	**4,4**
Paal_P_14	5,179	5	high max Wnd ;315°	-0,5	-0,2	0,1	0,1	0,4	0,0	**0,5**
Paal_P_14	0,000	5	high max Wnd ;135°	3,1	0,5	-3,2	0,0	0,1	0,0	**4,5**
Paal_P_15	6,107	3	low max Wnd ;225°	0,0	-0,1	0,0	0,0	0,3	-0,3	**0,1**
Paal_P_15	0,000	5	high max Wnd ;135°	3,3	1,4	-2,4	0,0	0,1	0,1	**4,3**
Paal_P_16	6,107	7	low max Wnd ;225°	0,0	0,0	0,0	0,0	0,3	-0,3	**0,0**
Paal_P_16	0,000	5	high max Wnd ;135°	3,3	1,4	-2,4	0,0	0,1	0,1	**4,4**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_17	6,107	5	low max Wnd ;315°	0,0	0,1	0,0	0,0	0,3	0,3	**0,1**
Paal_P_17	0,000	7	low max Wnd ;225°	-2,6	1,7	3,0	0,1	0,4	-0,4	**4,3**
Paal_P_18	6,107	8	low max Wnd ;315°	0,0	0,0	0,0	0,0	0,3	0,3	**0,0**
Paal_P_18	0,000	3	high max Wnd ;45°	3,3	-1,4	-2,4	0,0	0,1	-0,1	**4,3**
Paal_P_19	5,643-	1	low max Wnd ;315°	0,3	0,1	0,0	-0,1	0,4	0,2	**0,4**
Paal_P_19	0,000	7	low max Wnd ;225°	-2,4	1,6	3,2	0,0	0,2	-0,1	**4,3**
Paal_P_20	5,643-	1	low max Wnd ;315°	0,4	0,1	0,0	-0,1	0,4	0,3	**0,5**
Paal_P_20	0,000	7	low max Wnd ;225°	-2,3	1,3	3,4	-0,1	0,4	-0,4	**4,4**
Paal_P_21	5,179	3	high max Wnd ;225°	-0,5	0,2	0,1	-0,1	0,4	0,0	**0,6**
Paal_P_21	0,000	3	high max Wnd ;45°	3,1	-0,5	-3,2	0,0	0,1	0,0	**4,4**
S222	3,600-	1	high max Wnd ;315°	-1,5	-2,7	-0,9	0,4	0,2	0,0	**3,2**
S222	0,000	3	low max Wnd ;225°	1,8	-3,5	2,3	0,2	0,1	0,0	**4,6**
S223	4,050	7	high max Wnd ;315°	-2,9	1,5	-0,4	0,3	-0,2	0,1	**3,3**
S223	4,500	3	low max Wnd ;225°	-3,5	-1,8	2,3	0,1	-0,2	0,0	**4,6**
Paal_P_22	16,770	7	high max Wnd ;225°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_22	0,400-	4	high max Wnd ;45°	2,1	-1,3	-3,1	0,0	0,1	0,2	**4,0**
Paal_P_23	16,770	7	high max Wnd ;225°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_23	0,000	2	high max Wnd ;45°	2,2	-1,4	-3,1	0,0	-0,1	-0,7	**4,0**
S227	3,600-	7	high max Wnd ;225°	-1,5	2,7	-0,9	-0,4	0,2	0,0	**3,2**
S227	0,000	5	low max Wnd ;315°	1,8	3,5	2,3	-0,2	0,1	0,0	**4,5**
Paal_P_24	16,770	7	high max Wnd ;315°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_24	0,400-	2	high max Wnd ;135°	2,1	1,3	-3,1	0,0	0,1	-0,2	**4,0**
S228	0,000	7	high max Wnd ;315°	-3,0	1,4	-0,3	-0,3	-0,6	0,0	**3,3**
S228	4,500	5	low max Wnd ;315°	-3,5	1,8	2,3	-0,1	-0,2	0,0	**4,5**
Paal_P_25	16,770	3	high max Wnd ;315°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_25	0,000	4	high max Wnd ;135°	2,2	1,4	-3,0	0,0	-0,1	0,7	**4,0**
S229	3,600-	7	high max Wnd ;45°	-1,5	2,7	-0,9	-0,4	0,2	0,0	**3,2**
S229	0,000	5	low max Wnd ;135°	1,8	3,5	2,4	-0,2	0,1	0,0	**4,6**
Paal_P_26	16,770	7	high max Wnd ;135°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_26	0,400-	2	high max Wnd ;315°	2,1	1,3	-3,1	0,0	0,1	-0,2	**4,0**
S230	3,600-	1	high max Wnd ;135°	-1,5	-2,7	-0,9	0,4	0,2	0,0	**3,3**
S230	0,000	3	low max Wnd ;45°	1,8	-3,5	2,3	0,2	0,1	0,0	**4,5**
Paal_P_27	16,770	7	high max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_27	0,400-	4	high max Wnd ;225°	2,1	-1,3	-3,1	0,0	0,1	0,2	**4,0**
S231	4,050	1	high max Wnd ;45°	-2,9	-1,5	-0,4	-0,3	-0,2	-0,1	**3,3**
S231	4,500	5	low max Wnd ;135°	-3,5	1,8	2,3	-0,1	-0,2	0,0	**4,6**
Paal_P_28	16,770	3	high max Wnd ;135°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_28	0,000	4	high max Wnd ;315°	2,2	1,4	-3,0	0,0	-0,1	0,7	**4,0**
S232	0,000	1	high max Wnd ;45°	-3,0	-1,4	-0,3	0,3	-0,6	0,0	**3,3**
S232	4,500	3	low max Wnd ;45°	-3,5	-1,8	2,3	0,1	-0,2	0,0	**4,5**
Paal_P_29	16,770	3	high max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	0,0	**0,0**
Paal_P_29	0,000	2	high max Wnd ;225°	2,2	-1,4	-3,0	0,0	-0,1	-0,7	**4,0**
Balk 12	2,750	7	high max Wnd ;315°	1,2	3,0	0,0	-0,4	0,7	0,0	**3,2**
Balk 12	11,600-	5	low max Wnd ;225°	-1,9	3,6	2,4	-0,5	-0,5	0,0	**4,7**
Balk 13	9,775	7	high max Wnd ;315°	-2,9	1,4	0,0	-0,4	-0,7	0,0	**3,2**
Balk 13	11,600-	5	low max Wnd ;315°	-3,6	1,9	2,3	-0,5	-0,5	0,0	**4,7**
Balk 14	9,620-	1	high max Wnd ;225°	-2,9	-1,5	-0,1	0,4	-0,7	0,0	**3,3**
Balk 14	1,000+	3	low max Wnd ;135°	3,7	-2,0	2,4	0,5	0,5	0,0	**4,8**
Poer 13	0,000	5	high max Wnd ;135°	-0,9	1,1	-3,1	0,1	-0,1	0,4	**3,4**
Poer 13	1,475	7	low max Wnd ;45°	2,4	5,4	-1,1	0,0	-0,1	1,3	**6,0**
Poer 14	0,000	7	high max Wnd ;225°	-0,9	1,1	3,1	-0,1	0,1	0,4	**3,4**
Poer 14	1,475	5	low max Wnd ;315°	2,5	5,5	1,1	0,0	0,1	1,4	**6,1**
Paal_P_58	5,643-	7	low max Wnd ;45°	0,3	-0,1	0,0	0,1	0,4	-0,2	**0,4**
Paal_P_58	0,000	1	low max Wnd ;135°	-2,8	-1,6	3,3	0,1	0,3	0,3	**4,6**
Paal_P_59	5,643-	7	low max Wnd ;45°	0,5	-0,1	0,0	0,1	0,4	-0,3	**0,5**
Paal_P_59	0,000	1	low max Wnd ;135°	-2,7	-1,3	3,5	0,1	0,5	0,5	**4,6**
Paal_P_60	5,179	5	high max Wnd ;135°	-0,6	-0,2	0,0	0,1	0,4	0,0	**0,6**
Paal_P_60	0,000	5	high max Wnd ;315°	3,1	0,5	-3,2	0,0	0,1	0,0	**4,4**
Poer 15	0,000	3	high max Wnd ;45°	-0,9	-1,1	-3,1	-0,1	-0,1	-0,4	**3,4**
Poer 15	1,475	1	low max Wnd ;135°	2,5	-5,4	-1,1	0,0	0,0	-1,3	**6,1**
Poer 16	0,000	1	high max Wnd ;315°	-0,8	-1,1	3,0	0,1	0,1	-0,4	**3,4**
Poer 16	1,475	3	low max Wnd ;225°	2,6	-5,5	1,0	0,0	0,1	-1,4	**6,2**
Balk 15	2,750	1	high max Wnd ;45°	1,2	-3,0	0,0	0,4	0,7	0,0	**3,2**
Balk 15	11,600-	3	low max Wnd ;135°	-1,9	-3,6	2,4	0,5	-0,5	0,0	**4,8**
Paal_P_61	6,107	3	low max Wnd ;45°	0,0	-0,1	0,0	0,0	0,3	-0,3	**0,1**
Paal_P_61	0,000	1	low max Wnd ;135°	-3,0	-1,8	2,9	-0,1	0,5	0,5	**4,6**

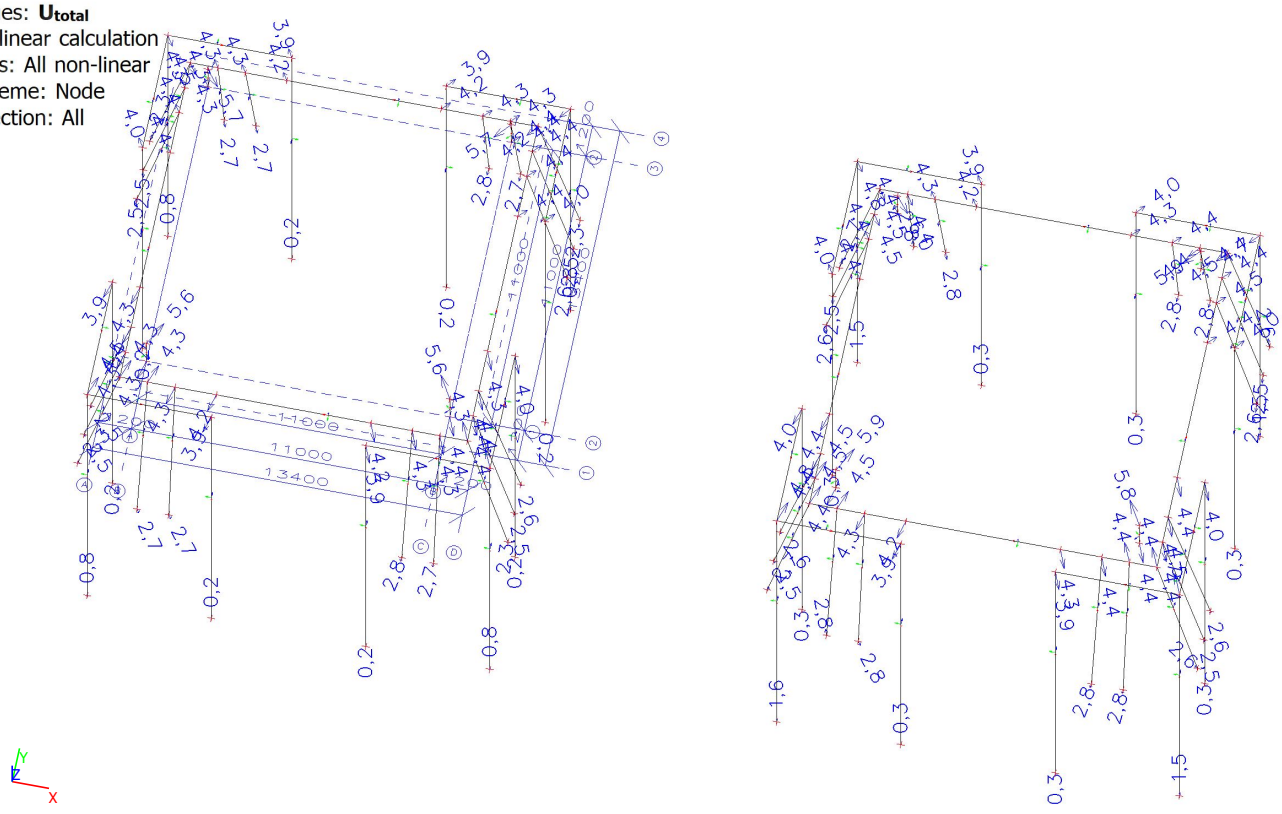
Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_62	6,107	7	low max Wnd ;45°	0,0	0,0	0,0	0,0	0,3	-0,3	**0,0**
Paal_P_62	0,000	5	high max Wnd ;315°	3,4	1,4	-2,4	0,0	0,1	0,0	**4,3**
Paal_P_63	5,643-	1	low max Wnd ;135°	0,4	0,1	0,0	-0,1	0,4	0,2	**0,4**
Paal_P_63	0,000	7	low max Wnd ;45°	-2,7	1,6	3,2	-0,1	0,3	-0,3	**4,5**
Paal_P_64	5,643-	1	low max Wnd ;135°	0,5	0,1	0,0	-0,1	0,4	0,3	**0,5**
Paal_P_64	0,000	7	low max Wnd ;45°	-2,5	1,3	3,4	-0,1	0,5	-0,5	**4,5**
Paal_P_65	5,179	3	high max Wnd ;45°	-0,5	0,2	0,0	-0,1	0,4	0,0	**0,5**
Paal_P_65	0,000	3	high max Wnd ;225°	3,1	-0,5	-3,1	0,0	0,1	0,0	**4,5**
Paal_P_66	6,107	5	low max Wnd ;135°	0,0	0,1	0,0	0,0	0,3	0,3	**0,1**
Paal_P_66	0,000	7	low max Wnd ;45°	-2,9	1,7	2,9	0,1	0,5	-0,5	**4,5**
Paal_P_67	6,107	1	low max Wnd ;135°	0,0	0,0	0,0	0,0	0,3	0,3	**0,0**
Paal_P_67	0,000	3	high max Wnd ;225°	3,4	-1,4	-2,4	0,0	0,1	0,0	**4,4**
Paal_P_68	5,643-	7	low max Wnd ;225°	0,4	-0,1	0,0	0,1	0,4	-0,2	**0,4**
Paal_P_68	0,000	1	low max Wnd ;315°	-2,7	-1,6	3,2	0,1	0,3	0,3	**4,5**
Paal_P_69	5,643-	7	low max Wnd ;225°	0,5	-0,1	0,0	0,1	0,4	-0,3	**0,5**
Paal_P_69	0,000	1	low max Wnd ;315°	-2,6	-1,3	3,4	0,1	0,5	0,5	**4,5**
Paal_P_70	5,179	5	high max Wnd ;315°	-0,5	-0,2	0,0	0,1	0,4	0,0	**0,5**
Paal_P_70	0,000	5	high max Wnd ;135°	3,1	0,5	-3,2	0,0	0,1	0,0	**4,5**
Paal_P_71	6,107	3	low max Wnd ;225°	0,0	-0,1	0,0	0,0	0,3	-0,3	**0,1**
Paal_P_71	0,000	1	low max Wnd ;315°	-2,9	-1,7	2,9	-0,1	0,5	0,5	**4,5**
Paal_P_72	6,107	7	low max Wnd ;225°	0,0	0,0	0,0	0,0	0,3	-0,3	**0,0**
Paal_P_72	0,000	5	high max Wnd ;135°	3,4	1,4	-2,4	0,0	0,1	0,0	**4,4**
Paal_P_73	6,107	5	low max Wnd ;315°	0,0	0,1	0,0	0,0	0,3	0,3	**0,1**
Paal_P_73	0,000	7	low max Wnd ;225°	-3,0	1,8	2,9	0,1	0,5	-0,5	**4,5**
Paal_P_74	6,107	1	low max Wnd ;315°	0,0	0,0	0,0	0,0	0,3	0,3	**0,0**
Paal_P_74	0,000	3	high max Wnd ;45°	3,4	-1,4	-2,4	0,0	0,1	-0,1	**4,3**
Paal_P_75	5,643-	1	low max Wnd ;315°	0,3	0,1	0,0	-0,1	0,4	0,2	**0,4**
Paal_P_75	0,000	7	low max Wnd ;225°	-2,8	1,6	3,3	-0,1	0,2	-0,3	**4,6**
Paal_P_76	5,643-	1	low max Wnd ;315°	0,5	0,1	0,0	-0,1	0,4	0,3	**0,5**
Paal_P_76	0,000	7	low max Wnd ;225°	-2,7	1,3	3,5	-0,1	0,5	-0,5	**4,6**
Paal_P_77	5,179	3	high max Wnd ;225°	-0,6	0,2	0,0	-0,1	0,4	0,0	**0,6**
Paal_P_77	0,000	3	high max Wnd ;45°	3,1	-0,5	-3,2	0,0	0,1	0,0	**4,5**
S241	3,600-	1	high max Wnd ;315°	-1,5	-2,7	-1,0	0,4	0,2	0,0	**3,2**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
S241	0,000	3	low max Wnd ;225°	1,8	-3,6	3,0	0,3	0,2	0,0	**5,0**
S242	4,050	7	high max Wnd ;315°	-2,9	1,5	-0,4	0,3	-0,2	0,1	**3,3**
S242	4,500	3	low max Wnd ;225°	-3,6	-1,8	3,0	0,2	-0,3	0,0	**5,0**
Paal_P_78	16,770	7	high max Wnd ;225°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_78	0,400-	4	high max Wnd ;45°	2,2	-1,3	-3,1	0,0	0,1	0,2	**4,0**
Paal_P_79	16,770	7	high max Wnd ;225°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_79	0,000	2	high max Wnd ;45°	2,3	-1,4	-3,1	0,0	-0,1	-0,6	**4,1**
S243	4,500	7	high max Wnd ;315°	1,2	3,0	-0,2	-0,4	0,7	0,0	**3,2**
S243	0,000	5	low max Wnd ;315°	1,8	3,5	2,9	-0,3	0,2	0,0	**4,9**
Paal_P_80	16,770	7	high max Wnd ;315°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_80	0,400-	2	high max Wnd ;135°	2,2	1,3	-3,1	0,0	0,1	-0,2	**4,0**
S244	0,000	7	high max Wnd ;315°	-2,9	1,4	-0,3	-0,3	-0,7	0,0	**3,3**
S244	4,500	5	low max Wnd ;315°	-3,5	1,8	2,9	-0,2	-0,3	0,0	**4,9**
Paal_P_81	16,770	3	high max Wnd ;315°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_81	0,000	4	high max Wnd ;135°	2,3	1,4	-3,0	0,0	-0,1	0,6	**4,1**
S245	3,600-	7	high max Wnd ;45°	-1,5	2,7	-1,0	-0,4	0,2	0,0	**3,3**
S245	0,000	5	low max Wnd ;135°	1,8	3,6	3,0	-0,3	0,2	0,0	**5,0**
Paal_P_82	16,770	7	high max Wnd ;135°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_82	0,400-	2	high max Wnd ;315°	2,2	1,3	-3,1	0,0	0,1	-0,2	**4,0**
S246	4,500	1	high max Wnd ;45°	1,2	-3,0	-0,3	0,4	0,6	0,0	**3,3**
S246	0,000	3	low max Wnd ;45°	1,8	-3,5	2,9	0,3	0,2	0,0	**4,9**
Paal_P_83	16,770	7	high max Wnd ;45°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_83	0,400-	4	high max Wnd ;225°	2,2	-1,3	-3,1	0,0	0,1	0,2	**4,0**
S247	4,050	1	high max Wnd ;45°	-2,9	-1,5	-0,4	-0,3	-0,2	-0,1	**3,3**
S247	4,500	5	low max Wnd ;135°	-3,6	1,8	3,0	-0,2	-0,3	0,0	**5,0**
Paal_P_84	16,770	3	high max Wnd ;135°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_84	0,000	4	high max Wnd ;315°	2,3	1,4	-3,0	0,0	-0,1	0,6	**4,0**
S248	0,000	1	high max Wnd ;45°	-3,0	-1,4	-0,3	0,4	-0,7	0,0	**3,3**
S248	4,500	3	low max Wnd ;45°	-3,5	-1,8	2,9	0,2	-0,3	0,0	**4,9**
Paal_P_85	16,770	3	high max Wnd ;45°	0,1	0,0	0,0	0,0	0,0	0,0	**0,1**
Paal_P_85	0,000	2	high max Wnd ;225°	2,3	-1,4	-3,0	0,0	-0,1	-0,6	**4,0**
Paal_P_86	16,770	6	low max Wnd ;315°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_86	0,000	1	low max Wnd ;225°	-2,9	1,7	3,5	0,0	0,3	-0,2	**4,8**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_87	16,770	8	low max Wnd ;225°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_87	0,000	1	low max Wnd ;315°	-2,8	-1,7	3,4	0,0	0,3	0,2	**4,7**
Paal_P_88	16,770	8	low max Wnd ;225°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_88	0,000	1	low max Wnd ;315°	-2,2	-1,7	3,4	0,0	0,2	0,1	**4,4**
Paal_P_89	16,770	6	low max Wnd ;315°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_89	0,000	1	low max Wnd ;225°	-2,3	1,7	3,4	0,0	0,2	-0,1	**4,5**
Paal_P_90	16,770	6	low max Wnd ;135°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_90	0,000	1	low max Wnd ;45°	-2,8	1,7	3,4	0,0	0,3	-0,2	**4,7**
Paal_P_91	16,770	8	low max Wnd ;45°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_91	0,000	1	low max Wnd ;135°	-2,9	-1,7	3,5	0,0	0,3	0,2	**4,8**
Paal_P_92	16,770	6	low max Wnd ;135°	0,0	0,0	0,0	-0,1	0,0	0,0	**0,0**
Paal_P_92	0,000	1	low max Wnd ;45°	-2,2	1,7	3,4	0,0	0,2	-0,1	**4,4**
Paal_P_93	16,770	8	low max Wnd ;45°	0,0	0,0	0,0	0,1	0,0	0,0	**0,0**
Paal_P_93	0,000	1	low max Wnd ;135°	-2,3	-1,7	3,5	0,0	0,2	0,1	**4,5**

7.5.3. Displacement of nodes; U_total

Values: **U_{total}**
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Verplaatsing van knopen

Niet-lineaire berekening
Klasse: All non-linear
Extreme: Knoop
Selectie: Alle

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N5	low max Wnd ;45°	**-1,7**	**3,4**	**1,8**	-0,4	-0,4	0,0	4,2
N5	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	**4,4**
N5	high max Wnd ;45°	-1,5	3,2	0,8	**-0,5**	**-0,5**	0,0	3,6
N5	low max Wnd ;225°	1,5	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N5	low max Wnd ;315°	-1,3	**-3,3**	-1,4	-0,1	0,0	**-0,1**	3,8
N5	low max Wnd ;135°	**1,5**	3,1	-0,4	-0,2	-0,2	**0,1**	3,5
N6	low max Wnd ;45°	**-1,7**	**3,4**	**1,4**	-0,4	-0,4	0,0	4,1
N6	high max Wnd ;225°	1,4	-3,0	**-2,9**	-0,1	-0,1	0,0	**4,4**
N6	high max Wnd ;45°	-1,6	3,2	0,3	**-0,5**	**-0,5**	0,0	3,6
N6	low max Wnd ;225°	**1,5**	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N6	low max Wnd ;315°	-1,2	**-3,3**	-1,5	-0,1	0,0	**-0,1**	3,8
N6	low max Wnd ;135°	1,5	3,1	-0,5	-0,2	-0,2	**0,1**	3,5
N7	low max Wnd ;45°	**-1,7**	**3,4**	**1,8**	-0,4	-0,4	0,0	4,2
N7	high max Wnd ;225°	1,4	-3,0	**-2,7**	-0,1	-0,1	0,0	**4,3**
N7	high max Wnd ;45°	-1,5	3,2	0,8	**-0,5**	**-0,5**	0,0	3,6
N7	low max Wnd ;225°	1,5	-3,1	-2,3	**0,0**	**0,0**	0,0	4,2
N7	low max Wnd ;315°	-1,4	**-3,2**	-1,3	-0,1	0,0	**-0,1**	3,7
N7	low max Wnd ;135°	**1,6**	3,1	-0,5	-0,2	-0,2	**0,1**	3,5
N1	low max Wnd ;45°	**-1,7**	**3,4**	**1,4**	-0,4	-0,4	0,0	4,0
N1	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	**4,3**
N1	high max Wnd ;45°	-1,5	3,2	0,3	**-0,5**	**-0,5**	0,0	3,5
N1	low max Wnd ;225°	1,5	-3,1	-2,3	**0,0**	**0,0**	0,0	4,1
N1	low max Wnd ;315°	-1,4	**-3,2**	-1,3	-0,1	0,0	**-0,1**	3,7
N1	low max Wnd ;135°	**1,6**	3,0	-0,7	-0,2	-0,2	**0,1**	3,5
N17	high max Wnd ;315°	-1,4	-3,0	**-2,4**	-0,2	**0,3**	0,0	4,1
N17	high max Wnd ;135°	1,6	3,2	1,0	**-0,3**	0,2	0,0	3,7
N17	low max Wnd ;225°	1,4	**-3,3**	-1,1	-0,2	**0,1**	**0,1**	3,8
N17	low max Wnd ;45°	**-1,6**	3,1	-0,3	**-0,1**	0,2	**-0,1**	3,5
N17	low max Wnd ;135°	**1,8**	**3,4**	**2,0**	-0,2	0,1	0,0	**4,3**
N21	low max Wnd ;225°	**1,7**	**-3,4**	**2,0**	0,2	0,1	0,0	**4,3**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N21	high max Wnd ;45°	-1,4	3,0	**-2,4**	0,2	**0,3**	0,0	4,1
N21	low max Wnd ;315°	**-1,6**	-3,1	-0,3	**0,1**	0,2	**0,1**	3,5
N21	high max Wnd ;225°	1,6	-3,2	1,0	**0,3**	0,2	0,0	3,7
N21	low max Wnd ;135°	1,4	**3,3**	-1,1	0,2	**0,1**	**-0,1**	3,8
1Y	low max Wnd ;45°	**-2,9**	**4,4**	**1,8**	-0,8	-0,9	0,0	**5,6**
1Y	low max Wnd ;225°	**2,2**	**-3,7**	-2,6	**0,5**	**0,6**	0,0	5,0
1Y	high max Wnd ;225°	2,0	-3,5	**-3,0**	0,4	0,6	0,0	5,1
1Y	high max Wnd ;45°	-2,8	4,3	0,7	**-0,8**	**-0,9**	0,0	5,2
1Y	low max Wnd ;315°	-1,1	-3,2	-1,5	0,0	0,2	**-0,1**	3,7
1Y	low max Wnd ;135°	1,1	3,3	-0,5	-0,2	-0,4	**0,1**	3,5
1XY	low max Wnd ;315°	**-3,0**	**-4,5**	**1,8**	0,8	-0,9	0,0	**5,7**
1XY	high max Wnd ;135°	2,2	3,6	**-3,1**	-0,5	0,6	0,0	5,2
1XY	low max Wnd ;135°	**2,3**	**3,8**	-2,6	**-0,6**	**0,7**	0,0	5,2
1XY	high max Wnd ;315°	-2,9	-4,3	0,7	**0,9**	**-1,0**	0,0	5,3
1XY	low max Wnd ;225°	1,0	-3,3	-0,5	0,1	-0,4	**-0,1**	3,5
1XY	low max Wnd ;45°	-1,0	3,2	-1,5	0,0	0,3	**0,1**	3,7
N24	low max Wnd ;315°	**-1,7**	**-3,4**	**1,8**	0,4	-0,4	0,0	4,2
N24	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,4**
N24	low max Wnd ;135°	1,5	3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N24	high max Wnd ;315°	-1,6	-3,2	0,8	**0,5**	**-0,5**	0,0	3,6
N24	low max Wnd ;225°	**1,5**	-3,1	-0,4	0,2	-0,2	**-0,1**	3,5
N24	low max Wnd ;45°	-1,3	**3,3**	-1,4	0,1	0,0	**0,1**	3,8
N25	low max Wnd ;315°	**-1,8**	**-3,4**	**1,4**	0,4	-0,4	0,0	4,1
N25	high max Wnd ;135°	1,4	3,0	**-2,9**	0,1	-0,1	0,0	**4,4**
N25	low max Wnd ;135°	**1,5**	3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N25	high max Wnd ;315°	-1,6	-3,2	0,3	**0,5**	**-0,5**	0,0	3,6
N25	low max Wnd ;225°	1,5	-3,1	-0,5	0,2	-0,2	**-0,1**	3,5
N25	low max Wnd ;45°	-1,2	**3,3**	-1,5	0,1	0,0	**0,1**	3,8
N26	low max Wnd ;315°	**-1,7**	**-3,4**	**1,8**	0,4	-0,4	0,0	4,2
N26	high max Wnd ;135°	1,4	3,0	**-2,7**	0,1	-0,1	0,0	**4,3**
N26	low max Wnd ;135°	1,5	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N26	high max Wnd ;315°	-1,5	-3,2	0,8	**0,5**	**-0,5**	0,0	3,6
N26	low max Wnd ;225°	**1,6**	-3,1	-0,5	0,2	-0,2	**-0,1**	3,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N26	low max Wnd ;45°	-1,4	**3,3**	-1,3	0,1	0,0	**0,1**	3,7
N27	low max Wnd ;315°	**-1,7**	**-3,4**	**1,4**	0,4	-0,4	0,0	4,0
N27	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,3**
N27	low max Wnd ;135°	1,5	3,1	-2,3	**0,0**	**0,0**	0,0	4,1
N27	high max Wnd ;315°	-1,5	-3,2	0,3	**0,5**	**-0,5**	0,0	3,5
N27	low max Wnd ;225°	**1,6**	-3,0	-0,7	0,2	-0,2	**-0,1**	3,5
N27	low max Wnd ;45°	-1,4	**3,2**	-1,3	0,1	0,0	**0,1**	3,7
N28	low max Wnd ;225°	1,3	**-3,3**	-1,3	-0,1	0,0	**0,1**	3,8
N28	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	**4,3**
N28	low max Wnd ;135°	**1,8**	**3,4**	**1,9**	-0,4	0,4	0,0	4,3
N28	high max Wnd ;135°	1,6	3,2	0,8	**-0,5**	**0,5**	0,0	3,7
N28	low max Wnd ;315°	-1,5	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N28	low max Wnd ;45°	**-1,5**	3,2	-0,4	-0,2	0,2	**-0,1**	3,5
N29	low max Wnd ;225°	1,3	**-3,3**	-1,5	-0,1	0,0	**0,1**	3,9
N29	high max Wnd ;315°	-1,4	-3,0	**-2,9**	-0,1	0,1	0,0	**4,4**
N29	low max Wnd ;135°	**1,8**	**3,4**	**1,5**	-0,4	0,4	0,0	4,2
N29	high max Wnd ;135°	1,6	3,2	0,4	**-0,5**	**0,5**	0,0	3,6
N29	low max Wnd ;315°	**-1,5**	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N29	low max Wnd ;45°	-1,4	3,2	-0,5	-0,2	0,2	**-0,1**	3,5
N30	low max Wnd ;225°	1,4	**-3,3**	-1,3	-0,1	0,0	**0,1**	3,8
N30	high max Wnd ;315°	-1,4	-3,0	**-2,7**	-0,1	0,1	0,0	4,3
N30	high max Wnd ;135°	1,6	3,2	0,8	**-0,5**	**0,5**	0,0	3,7
N30	low max Wnd ;315°	-1,4	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N30	low max Wnd ;45°	**-1,6**	3,1	-0,4	-0,2	0,2	**-0,1**	3,5
N30	low max Wnd ;135°	**1,8**	**3,4**	**1,9**	-0,4	0,4	0,0	**4,3**
N31	low max Wnd ;225°	1,4	**-3,2**	-1,3	-0,1	0,0	**0,1**	3,7
N31	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	**4,3**
N31	low max Wnd ;135°	**1,8**	**3,4**	**1,5**	-0,4	0,4	0,0	4,1
N31	high max Wnd ;135°	1,6	3,2	0,3	**-0,5**	**0,5**	0,0	3,6
N31	low max Wnd ;315°	-1,4	-3,1	-2,2	**0,0**	**0,0**	0,0	4,1
N31	low max Wnd ;45°	**-1,6**	3,0	-0,7	-0,2	0,2	**-0,1**	3,5
1P	high max Wnd ;315°	-2,0	-3,5	**-3,0**	0,4	-0,5	0,0	5,0
1P	high max Wnd ;135°	2,8	4,4	0,7	**-0,9**	**0,9**	0,0	5,2

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1P	low max Wnd ;315°	**-2,2**	**-3,7**	-2,5	**0,5**	**-0,6**	0,0	5,0
1P	low max Wnd ;45°	-1,0	3,3	-0,5	-0,2	0,4	**-0,1**	3,5
1P	low max Wnd ;225°	1,1	-3,2	-1,4	0,0	-0,2	**0,1**	3,7
1P	low max Wnd ;135°	**2,9**	**4,5**	**1,8**	-0,8	0,9	0,0	**5,6**
1X	low max Wnd ;225°	**3,0**	**-4,5**	**1,9**	0,8	0,9	0,0	**5,7**
1X	high max Wnd ;45°	-2,1	3,5	**-3,0**	-0,4	-0,6	0,0	5,1
1X	low max Wnd ;45°	**-2,3**	**3,8**	-2,6	**-0,5**	**-0,7**	0,0	5,1
1X	high max Wnd ;225°	2,9	-4,3	0,8	**0,9**	**1,0**	0,0	5,3
1X	low max Wnd ;135°	1,1	3,2	-1,4	0,0	-0,2	**-0,1**	3,7
1X	low max Wnd ;315°	-1,0	-3,3	-0,5	0,1	0,4	**0,1**	3,5
N34	low max Wnd ;315°	**-1,5**	-3,1	-0,4	0,2	0,2	**0,1**	3,5
N34	low max Wnd ;225°	**1,8**	**-3,4**	**1,9**	0,4	0,4	0,0	4,3
N34	high max Wnd ;45°	-1,4	3,1	**-2,8**	0,1	0,1	0,0	**4,3**
N34	low max Wnd ;45°	-1,5	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N34	high max Wnd ;225°	1,6	-3,2	0,9	**0,4**	**0,5**	0,0	3,7
N34	low max Wnd ;135°	1,3	**3,3**	-1,3	0,1	0,0	**-0,1**	3,8
N35	low max Wnd ;225°	**1,8**	**-3,4**	**1,5**	0,4	0,4	0,0	4,2
N35	high max Wnd ;45°	-1,4	3,1	**-2,9**	0,1	0,1	0,0	**4,4**
N35	low max Wnd ;45°	**-1,5**	3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N35	high max Wnd ;225°	1,6	-3,2	0,4	**0,4**	**0,5**	0,0	3,6
N35	low max Wnd ;135°	1,3	**3,3**	-1,5	0,1	0,0	**-0,1**	3,9
N35	low max Wnd ;315°	-1,4	-3,1	-0,5	0,2	0,2	**0,1**	3,5
N36	low max Wnd ;315°	**-1,6**	-3,1	-0,4	0,2	0,2	**0,1**	3,5
N36	low max Wnd ;225°	**1,8**	**-3,4**	**1,9**	0,4	0,4	0,0	4,3
N36	high max Wnd ;45°	-1,4	3,0	**-2,7**	0,1	0,1	0,0	**4,3**
N36	low max Wnd ;45°	-1,4	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N36	high max Wnd ;225°	1,6	-3,2	0,8	**0,4**	**0,5**	0,0	3,7
N36	low max Wnd ;135°	1,4	**3,3**	-1,2	0,1	0,0	**-0,1**	3,8
N37	low max Wnd ;315°	**-1,6**	-3,0	-0,7	0,2	0,2	**0,1**	3,5
N37	low max Wnd ;225°	**1,8**	**-3,4**	**1,5**	0,4	0,4	0,0	4,1
N37	high max Wnd ;45°	-1,4	3,0	**-2,8**	0,1	0,1	0,0	**4,3**
N37	low max Wnd ;45°	-1,4	3,1	-2,2	**0,0**	**0,0**	0,0	4,1
N37	high max Wnd ;225°	1,6	-3,2	0,4	**0,4**	**0,5**	0,0	3,6

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N37	low max Wnd ;135°	1,4	**3,2**	-1,3	0,1	0,0	**-0,1**	3,7
N38	low max Wnd ;45°	**-1,7**	**3,4**	**1,6**	-0,4	-0,4	0,0	4,1
N38	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	**4,4**
N38	high max Wnd ;45°	-1,5	3,2	0,5	**-0,5**	**-0,5**	0,0	3,6
N38	low max Wnd ;225°	1,5	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N38	low max Wnd ;315°	-1,3	**-3,3**	-1,4	-0,1	0,0	**-0,1**	3,8
N38	low max Wnd ;135°	**1,6**	3,1	-0,6	-0,2	-0,2	**0,1**	3,5
N39	low max Wnd ;225°	1,4	**-3,3**	-1,4	-0,1	0,0	**0,1**	3,8
N39	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	**4,3**
N39	low max Wnd ;135°	**1,8**	**3,4**	**1,6**	-0,4	0,4	0,0	4,2
N39	high max Wnd ;135°	1,6	3,2	0,5	**-0,5**	**0,5**	0,0	3,6
N39	low max Wnd ;315°	-1,5	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N39	low max Wnd ;45°	**-1,5**	3,1	-0,5	-0,2	0,2	**-0,1**	3,5
N40	low max Wnd ;315°	**-1,7**	**-3,4**	**1,6**	0,4	-0,4	0,0	4,1
N40	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,4**
N40	low max Wnd ;135°	1,5	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N40	high max Wnd ;315°	-1,5	-3,2	0,5	**0,5**	**-0,5**	0,0	3,6
N40	low max Wnd ;225°	**1,6**	-3,1	-0,5	0,2	-0,2	**-0,1**	3,5
N40	low max Wnd ;45°	-1,3	**3,3**	-1,4	0,1	0,0	**0,1**	3,8
N41	low max Wnd ;315°	**-1,5**	-3,1	-0,5	0,2	0,2	**0,1**	3,5
N41	low max Wnd ;225°	**1,8**	**-3,4**	**1,7**	0,4	0,4	0,0	4,2
N41	high max Wnd ;45°	-1,4	3,0	**-2,8**	0,1	0,1	0,0	**4,3**
N41	low max Wnd ;45°	-1,4	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N41	high max Wnd ;225°	1,6	-3,2	0,6	**0,4**	**0,5**	0,0	3,6
N41	low max Wnd ;135°	1,4	**3,3**	-1,3	0,1	0,0	**-0,1**	3,8
N44	low max Wnd ;225°	**-0,3**	**0,8**	-0,7	**0,4**	**0,1**	-0,1	1,1
N44	low max Wnd ;45°	0,5	**-0,7**	-0,5	**-0,4**	-0,2	0,0	1,0
N44	high max Wnd ;45°	**0,5**	-0,7	-0,8	-0,3	**-0,2**	0,0	1,2
N44	high max Wnd ;315°	0,2	0,7	**-2,2**	0,4	-0,2	**-0,1**	2,3
N44	low max Wnd ;135°	0,4	-0,7	**2,2**	-0,4	0,1	**0,0**	**2,3**
N45	low max Wnd ;225°	**-0,3**	**0,8**	-0,8	**0,4**	**0,1**	-0,1	1,2
N45	low max Wnd ;135°	0,4	**-0,7**	**2,1**	-0,3	0,0	**0,0**	2,2
N45	low max Wnd ;45°	0,5	-0,7	-0,6	**-0,4**	-0,2	0,0	1,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N45	high max Wnd ;45°	**0,5**	-0,7	-0,9	-0,3	**-0,2**	0,0	1,3
N45	high max Wnd ;315°	0,1	0,7	**-2,4**	0,4	-0,1	**-0,1**	**2,5**
N46	low max Wnd ;225°	**-0,3**	**0,8**	-0,8	**0,5**	**0,1**	0,0	1,2
N46	low max Wnd ;135°	0,3	**-0,8**	**1,6**	**-0,4**	0,1	**0,0**	1,8
N46	low max Wnd ;45°	**0,4**	-0,7	-0,8	-0,4	**-0,2**	0,0	1,2
N46	high max Wnd ;315°	0,1	0,8	**-2,4**	0,4	-0,1	**-0,1**	**2,5**
N47	high max Wnd ;225°	-0,3	**0,7**	-1,9	0,4	0,1	0,1	2,0
N47	high max Wnd ;315°	0,3	0,4	**-2,7**	0,3	-0,1	**0,1**	**2,7**
N47	low max Wnd ;135°	-0,3	0,1	**2,4**	-0,2	0,1	0,0	2,5
N47	low max Wnd ;45°	**0,4**	**-0,4**	0,2	**-0,3**	**-0,2**	0,0	0,7
N47	low max Wnd ;225°	**-0,3**	0,7	-1,6	**0,4**	**0,2**	**0,0**	1,8
N48	low max Wnd ;135°	**-0,4**	0,0	**2,0**	-0,3	0,1	0,0	2,1
N48	high max Wnd ;315°	0,4	0,4	**-2,7**	0,3	-0,2	**0,1**	**2,7**
N48	low max Wnd ;225°	-0,3	**0,6**	-1,6	**0,4**	**0,2**	0,0	1,8
N48	low max Wnd ;45°	**0,4**	**-0,5**	0,0	**-0,3**	**-0,2**	**0,0**	0,6
N49	high max Wnd ;135°	**-0,5**	-0,7	-0,8	-0,3	**0,2**	0,0	1,2
N49	high max Wnd ;225°	-0,2	0,7	**-2,2**	0,4	0,2	**0,1**	**2,3**
N49	low max Wnd ;135°	-0,5	**-0,7**	-0,5	**-0,4**	0,2	0,0	1,0
N49	low max Wnd ;315°	**0,3**	**0,8**	-0,7	**0,4**	**-0,1**	0,1	1,1
N49	low max Wnd ;45°	-0,4	-0,7	**2,1**	-0,4	-0,1	**0,0**	2,3
N50	high max Wnd ;135°	**-0,5**	-0,7	-1,0	-0,3	**0,2**	0,0	1,3
N50	high max Wnd ;225°	-0,1	0,7	**-2,4**	0,4	0,1	**0,1**	**2,5**
N50	low max Wnd ;135°	-0,5	-0,7	-0,6	**-0,4**	0,2	0,0	1,1
N50	low max Wnd ;315°	**0,3**	**0,8**	-0,8	**0,4**	**-0,1**	0,1	1,2
N50	low max Wnd ;45°	-0,4	**-0,7**	**2,0**	-0,3	0,0	**0,0**	2,1
N51	high max Wnd ;225°	-0,1	0,8	**-2,4**	0,4	0,2	**0,1**	**2,6**
N51	low max Wnd ;135°	**-0,4**	-0,7	-0,8	**-0,4**	**0,2**	0,0	1,2
N51	low max Wnd ;315°	**0,3**	**0,8**	-0,9	**0,4**	**-0,1**	0,1	1,2
N51	low max Wnd ;45°	-0,3	**-0,8**	**1,6**	-0,3	-0,1	**0,0**	1,8
N52	high max Wnd ;315°	0,3	**0,7**	-1,9	0,4	-0,1	-0,1	2,0
N52	high max Wnd ;225°	-0,3	0,4	**-2,7**	0,3	0,2	-0,1	**2,7**
N52	low max Wnd ;45°	0,3	0,1	**2,4**	-0,2	-0,1	0,0	2,4
N52	low max Wnd ;135°	**-0,4**	**-0,5**	0,2	**-0,3**	**0,2**	0,0	0,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N52	low max Wnd ;315°	**0,3**	0,6	-1,6	**0,4**	**-0,2**	**0,0**	1,8
N52	high max Wnd ;45°	0,2	0,0	1,3	-0,2	-0,1	**-0,1**	1,4
N53	low max Wnd ;45°	**0,4**	0,0	**2,0**	-0,3	-0,1	0,0	2,0
N53	low max Wnd ;135°	**-0,4**	**-0,5**	0,0	**-0,3**	**0,2**	**0,0**	0,6
N53	low max Wnd ;315°	0,3	**0,6**	-1,7	**0,4**	**-0,2**	0,0	1,8
N53	high max Wnd ;225°	-0,4	0,4	**-2,7**	0,3	0,2	**-0,1**	**2,8**
N10	high max Wnd ;225°	**-0,5**	0,7	-0,8	0,3	**0,2**	0,0	1,2
N10	low max Wnd ;225°	-0,5	**0,7**	-0,5	**0,4**	0,2	0,0	1,0
N10	low max Wnd ;45°	**0,3**	**-0,8**	-0,7	**-0,4**	**-0,1**	-0,1	1,1
N10	high max Wnd ;135°	-0,2	-0,7	**-2,2**	-0,4	0,2	**-0,1**	**2,3**
N10	low max Wnd ;315°	-0,4	0,7	**2,1**	0,4	-0,1	**0,0**	2,3
N11	high max Wnd ;225°	**-0,5**	0,7	-1,0	0,3	0,2	0,0	1,3
N11	low max Wnd ;225°	-0,5	0,7	-0,6	**0,4**	**0,2**	0,0	1,1
N11	low max Wnd ;45°	**0,3**	**-0,8**	-0,8	**-0,4**	**-0,1**	-0,1	1,2
N11	high max Wnd ;135°	-0,1	-0,7	**-2,4**	-0,4	0,1	**-0,1**	**2,5**
N11	low max Wnd ;315°	-0,4	**0,7**	**2,0**	0,3	0,0	**0,0**	2,2
N12	low max Wnd ;225°	**-0,4**	0,7	-0,8	**0,3**	**0,2**	0,0	1,2
N12	low max Wnd ;45°	**0,3**	**-0,8**	-0,9	**-0,4**	**-0,1**	-0,1	1,2
N12	high max Wnd ;135°	-0,1	-0,8	**-2,4**	-0,4	0,2	**-0,1**	**2,6**
N12	low max Wnd ;315°	-0,3	**0,8**	**1,6**	0,3	-0,1	**0,0**	1,8
N13	high max Wnd ;45°	0,3	**-0,7**	-1,9	-0,4	-0,1	0,1	2,0
N13	high max Wnd ;135°	-0,3	-0,4	**-2,7**	-0,3	0,2	**0,1**	**2,7**
N13	low max Wnd ;315°	0,3	-0,1	**2,4**	0,2	-0,1	0,0	2,4
N13	low max Wnd ;45°	**0,3**	-0,7	-1,6	**-0,4**	**-0,2**	0,0	1,8
N13	low max Wnd ;225°	**-0,4**	**0,4**	0,2	**0,3**	**0,2**	**0,0**	0,7
N14	high max Wnd ;135°	-0,4	-0,4	**-2,7**	-0,3	0,2	**0,1**	**2,8**
N14	low max Wnd ;315°	**0,4**	0,0	**2,0**	0,2	-0,1	0,0	2,0
N14	low max Wnd ;45°	0,3	**-0,6**	-1,7	**-0,4**	**-0,2**	0,0	1,8
N14	low max Wnd ;225°	**-0,4**	**0,5**	0,0	**0,3**	**0,2**	**0,0**	0,6
N15	high max Wnd ;135°	-0,3	**-0,7**	-1,9	-0,4	0,1	-0,1	2,0
N15	low max Wnd ;225°	-0,3	-0,1	**2,4**	0,2	0,1	0,0	2,5
N15	low max Wnd ;135°	**-0,3**	-0,7	-1,6	**-0,4**	**0,2**	0,0	1,8
N15	low max Wnd ;315°	**0,4**	**0,4**	0,2	**0,3**	**-0,2**	**0,0**	0,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N15	high max Wnd ;45°	0,3	-0,4	**-2,7**	-0,4	-0,1	**-0,1**	**2,7**
N2	low max Wnd ;225°	**-0,4**	0,0	**2,0**	0,3	0,1	0,0	2,1
N2	low max Wnd ;135°	-0,3	**-0,6**	-1,6	**-0,4**	**0,2**	0,0	1,8
N2	low max Wnd ;315°	**0,4**	**0,5**	0,0	**0,3**	**-0,2**	**0,0**	0,6
N2	high max Wnd ;45°	0,4	-0,4	**-2,7**	-0,3	-0,2	**-0,1**	**2,7**
N3	high max Wnd ;45°	0,2	-0,7	**-2,2**	-0,4	-0,2	**0,1**	2,3
N3	low max Wnd ;135°	**-0,3**	**-0,8**	-0,7	**-0,5**	**0,1**	0,1	1,1
N3	low max Wnd ;315°	0,5	**0,7**	-0,5	**0,4**	-0,2	0,0	1,0
N3	high max Wnd ;315°	**0,5**	0,7	-0,8	0,3	**-0,2**	0,0	1,2
N3	low max Wnd ;225°	0,4	0,7	**2,2**	0,4	0,1	**0,0**	**2,3**
N4	high max Wnd ;45°	0,1	-0,8	**-2,4**	-0,4	-0,1	**0,1**	**2,5**
N4	low max Wnd ;135°	**-0,3**	**-0,8**	-0,8	**-0,5**	**0,1**	0,1	1,2
N4	low max Wnd ;315°	0,5	0,7	-0,6	**0,4**	-0,2	0,0	1,1
N4	high max Wnd ;315°	**0,5**	0,7	-0,9	0,3	**-0,2**	0,0	1,2
N4	low max Wnd ;225°	0,4	**0,7**	**2,1**	0,3	0,0	**0,0**	2,2
N54	high max Wnd ;45°	0,1	-0,8	**-2,4**	-0,4	-0,2	**0,1**	**2,5**
N54	low max Wnd ;135°	**-0,3**	**-0,8**	-0,8	**-0,5**	**0,1**	0,0	1,2
N54	low max Wnd ;315°	**0,4**	0,7	-0,8	0,4	**-0,2**	0,0	1,1
N54	low max Wnd ;225°	0,3	**0,8**	**1,7**	**0,4**	0,1	**0,0**	1,9
N55	low max Wnd ;315°	**-1,7**	**-3,4**	**1,9**	0,2	-0,1	0,0	**4,2**
N55	high max Wnd ;315°	-1,5	-3,2	0,9	**0,3**	-0,2	0,0	3,7
N55	high max Wnd ;135°	1,4	3,0	**-2,4**	0,2	**-0,3**	0,0	4,1
N55	low max Wnd ;225°	**1,6**	-3,1	-0,3	**0,1**	-0,2	**-0,1**	3,5
N55	low max Wnd ;45°	-1,4	**3,3**	-1,2	0,2	**-0,1**	**0,1**	3,8
N56	low max Wnd ;45°	**-1,7**	**3,4**	**1,9**	-0,2	-0,1	0,0	**4,3**
N56	high max Wnd ;45°	-1,5	3,2	0,9	**-0,3**	-0,2	0,0	3,7
N56	high max Wnd ;225°	1,4	-3,0	**-2,4**	-0,2	**-0,3**	0,0	4,1
N56	low max Wnd ;315°	-1,4	**-3,3**	-1,2	-0,2	**-0,1**	**-0,1**	3,8
N56	low max Wnd ;135°	**1,6**	3,1	-0,3	**-0,1**	-0,2	**0,1**	3,5
N57	low max Wnd ;225°	**1,7**	**-3,4**	**2,2**	0,2	0,1	0,0	**4,5**
N57	high max Wnd ;45°	-1,3	3,1	**-1,9**	0,2	**0,3**	0,0	3,9
N57	low max Wnd ;315°	**-1,6**	-3,2	0,0	**0,1**	0,2	**0,1**	3,6
N57	high max Wnd ;225°	1,5	-3,2	1,5	**0,3**	0,2	0,0	3,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N57	low max Wnd ;135°	1,5	**3,4**	-0,9	0,2	**0,1**	**-0,1**	3,8
N58	low max Wnd ;315°	**-1,6**	-3,0	-0,8	0,3	0,2	0,0	3,5
N58	high max Wnd ;45°	-1,3	3,0	**-2,1**	**0,6**	-0,1	0,0	**3,9**
N58	low max Wnd ;225°	**1,7**	**-3,3**	**0,5**	**0,1**	**0,6**	**0,0**	3,8
N58	low max Wnd ;45°	-1,4	3,1	-1,6	0,4	**-0,1**	0,0	3,8
N58	low max Wnd ;135°	1,5	**3,1**	-1,1	0,3	0,1	**0,0**	3,6
N59	low max Wnd ;135°	1,2	**3,4**	-1,2	0,0	0,3	0,0	3,8
N59	high max Wnd ;45°	-1,4	3,1	**-2,1**	-0,1	**0,7**	0,0	**4,0**
N59	low max Wnd ;45°	**-1,5**	3,2	-1,6	**-0,2**	0,5	**0,0**	3,9
N59	low max Wnd ;225°	**1,8**	**-3,4**	**0,4**	**0,6**	**0,0**	0,0	3,9
N59	low max Wnd ;315°	-1,4	-3,2	-0,7	0,2	0,3	**0,0**	3,5
N60	high max Wnd ;45°	**0,0**	**0,0**	**-0,2**	**0,0**	**0,0**	0,0	0,2
N60	low max Wnd ;225°	0,0	0,0	**0,2**	**0,0**	0,0	**0,0**	**0,2**
N60	low max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N61	high max Wnd ;45°	**0,0**	**0,0**	**-0,2**	**0,0**	**0,0**	0,0	**0,2**
N61	low max Wnd ;315°	0,0	0,0	-0,1	**0,0**	0,0	**0,0**	0,1
N61	low max Wnd ;225°	0,0	0,0	**0,1**	0,0	**0,0**	0,0	0,1
N61	high max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N62	low max Wnd ;315°	**-1,6**	-3,0	-1,0	0,3	0,2	0,0	3,5
N62	high max Wnd ;45°	-1,4	3,0	**-2,7**	**0,6**	-0,1	0,0	**4,2**
N62	low max Wnd ;225°	**1,7**	**-3,3**	**0,5**	**0,1**	**0,6**	**0,0**	3,8
N62	low max Wnd ;45°	-1,4	3,1	-2,0	0,4	**-0,1**	0,0	4,0
N62	low max Wnd ;135°	1,4	**3,1**	-1,4	0,3	0,1	**0,0**	3,7
N63	low max Wnd ;225°	**1,6**	-2,9	-1,0	0,3	-0,1	**0,0**	3,5
N63	high max Wnd ;135°	1,4	3,0	**-2,7**	**0,6**	0,1	0,0	**4,2**
N63	low max Wnd ;315°	**-1,7**	**-3,3**	**0,4**	**0,1**	**-0,6**	0,0	3,8
N63	low max Wnd ;135°	1,5	3,1	-2,0	0,4	**0,2**	0,0	4,0
N63	low max Wnd ;45°	-1,4	**3,1**	-1,4	0,3	-0,1	**0,0**	3,7
N64	low max Wnd ;135°	1,2	**3,4**	-1,5	0,0	0,3	0,0	3,9
N64	high max Wnd ;45°	-1,4	3,1	**-2,8**	-0,1	**0,7**	0,0	**4,4**
N64	low max Wnd ;45°	**-1,5**	3,2	-2,1	**-0,2**	0,5	**0,0**	4,1
N64	low max Wnd ;225°	**1,8**	**-3,4**	**0,4**	**0,6**	**0,0**	0,0	3,9
N64	low max Wnd ;315°	-1,4	-3,2	-0,9	0,2	0,3	**0,0**	3,6

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N65	low max Wnd ;315°	**-1,5**	-3,2	-2,1	**0,2**	0,5	**0,0**	4,1
N65	low max Wnd ;225°	1,2	**-3,4**	-1,5	0,0	0,3	0,0	3,9
N65	high max Wnd ;315°	-1,4	-3,0	**-2,8**	0,1	**0,7**	0,0	**4,3**
N65	low max Wnd ;135°	**1,8**	**3,4**	**0,4**	**-0,6**	**0,0**	0,0	3,9
N65	low max Wnd ;45°	-1,4	3,2	-0,9	-0,3	0,3	**0,0**	3,6
N66	low max Wnd ;315°	**-1,7**	**-3,4**	**0,4**	**0,6**	**0,0**	0,0	3,8
N66	low max Wnd ;45°	-1,2	**3,3**	-1,5	0,0	-0,3	0,0	3,9
N66	low max Wnd ;135°	**1,5**	3,2	-2,1	**-0,2**	-0,5	0,0	4,1
N66	high max Wnd ;135°	1,4	3,0	**-2,8**	-0,1	**-0,7**	0,0	**4,4**
N66	low max Wnd ;225°	1,4	-3,1	-0,9	0,2	-0,3	**0,0**	3,6
N66	high max Wnd ;45°	-1,1	3,1	-2,2	0,1	-0,5	**0,0**	4,0
N67	low max Wnd ;315°	-1,2	**-3,3**	-1,5	0,0	-0,3	0,0	3,9
N67	low max Wnd ;225°	**1,5**	-3,2	-2,1	**0,2**	-0,5	0,0	4,1
N67	high max Wnd ;225°	1,4	-3,0	**-2,8**	0,1	**-0,7**	0,0	**4,3**
N67	low max Wnd ;45°	**-1,7**	**3,4**	**0,3**	**-0,6**	**0,0**	**0,0**	3,8
N67	low max Wnd ;135°	1,4	3,1	-0,9	-0,2	-0,3	**0,0**	3,6
N68	low max Wnd ;135°	**1,6**	3,0	-1,0	-0,3	-0,1	0,0	3,5
N68	high max Wnd ;225°	1,4	-3,0	**-2,7**	**-0,6**	0,1	0,0	**4,2**
N68	low max Wnd ;45°	**-1,7**	**3,3**	**0,4**	**-0,1**	**-0,6**	**0,0**	3,8
N68	low max Wnd ;225°	1,5	-3,1	-2,0	-0,4	**0,2**	0,0	4,0
N68	low max Wnd ;315°	-1,4	**-3,1**	-1,4	-0,3	-0,1	**0,0**	3,7
N69	low max Wnd ;45°	**-1,6**	3,0	-1,0	-0,3	0,2	0,0	3,5
N69	low max Wnd ;225°	1,4	**-3,1**	-1,4	-0,3	0,1	**0,0**	3,7
N69	high max Wnd ;315°	-1,4	-2,9	**-2,7**	**-0,6**	-0,1	0,0	**4,2**
N69	low max Wnd ;315°	-1,4	-3,1	-2,0	-0,4	**-0,1**	0,0	4,0
N69	low max Wnd ;135°	**1,7**	**3,4**	**0,4**	**-0,1**	**0,6**	**0,0**	3,8
N73	low max Wnd ;315°	**-1,7**	**-3,4**	**2,2**	0,2	-0,1	0,0	**4,4**
N73	high max Wnd ;315°	-1,5	-3,2	1,4	**0,3**	-0,2	0,0	3,8
N73	high max Wnd ;135°	1,4	3,1	**-2,0**	0,2	**-0,3**	0,0	3,9
N73	low max Wnd ;225°	**1,7**	-3,2	0,0	**0,1**	-0,2	**-0,1**	3,6
N73	low max Wnd ;45°	-1,4	**3,4**	-0,9	0,2	**-0,1**	**0,1**	3,8
N74	low max Wnd ;225°	**1,6**	-2,9	-0,8	0,3	-0,1	**0,0**	3,5
N74	high max Wnd ;135°	1,4	3,0	**-2,1**	**0,6**	0,1	0,0	**3,9**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N74	low max Wnd ;315°	**-1,7**	**-3,3**	**0,5**	**0,1**	**-0,6**	0,0	3,8
N74	low max Wnd ;135°	1,5	3,1	-1,6	0,4	**0,2**	0,0	3,8
N74	low max Wnd ;45°	-1,4	**3,1**	-1,1	0,3	-0,1	**0,0**	3,6
N75	high max Wnd ;135°	0,0	0,0	**-0,2**	0,0	0,0	0,0	**0,2**
N75	low max Wnd ;315°	0,0	0,0	**0,2**	**0,0**	0,0	**0,0**	0,2
N75	low max Wnd ;45°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,0**	0,1
N76	low max Wnd ;315°	**-1,7**	**-3,4**	**0,4**	**0,6**	**0,0**	0,0	3,8
N76	low max Wnd ;45°	-1,2	**3,3**	-1,2	0,0	-0,3	0,0	3,7
N76	low max Wnd ;135°	**1,5**	3,2	-1,6	**-0,2**	-0,5	0,0	3,9
N76	high max Wnd ;135°	1,4	3,0	**-2,1**	-0,1	**-0,7**	0,0	**4,0**
N76	low max Wnd ;225°	1,4	-3,2	-0,7	0,2	-0,3	**0,0**	3,5
N76	high max Wnd ;45°	-1,1	3,2	-1,7	0,1	-0,5	**0,0**	3,7
N77	low max Wnd ;315°	0,0	0,0	**0,1**	**0,0**	0,0	0,0	0,1
N77	high max Wnd ;135°	0,0	0,0	**-0,2**	0,0	**0,0**	0,0	**0,2**
N77	low max Wnd ;225°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N77	high max Wnd ;45°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,0**	0,1
N78	high max Wnd ;315°	-1,3	-3,0	**-1,9**	-0,2	**0,3**	0,0	3,9
N78	high max Wnd ;135°	1,5	3,3	1,5	**-0,3**	0,2	0,0	3,9
N78	low max Wnd ;225°	1,5	**-3,4**	-0,9	-0,2	**0,1**	**0,1**	3,8
N78	low max Wnd ;45°	**-1,6**	3,2	0,0	**-0,1**	0,2	**-0,1**	3,6
N78	low max Wnd ;135°	**1,7**	**3,5**	**2,3**	-0,2	0,1	0,0	**4,5**
N79	low max Wnd ;45°	**-1,6**	3,0	-0,8	-0,3	0,2	0,0	3,5
N79	low max Wnd ;225°	1,5	**-3,1**	-1,1	-0,3	0,1	**0,0**	3,6
N79	high max Wnd ;315°	-1,3	-2,9	**-2,1**	**-0,6**	-0,1	0,0	**3,9**
N79	low max Wnd ;315°	-1,4	-3,1	-1,6	-0,4	**-0,1**	0,0	3,8
N79	low max Wnd ;135°	**1,7**	**3,4**	**0,5**	**-0,1**	**0,6**	**0,0**	3,8
N80	high max Wnd ;315°	**0,0**	**0,0**	**-0,2**	**0,0**	**0,0**	0,0	0,2
N80	low max Wnd ;225°	0,0	0,0	-0,1	0,0	**0,0**	**0,0**	0,1
N80	low max Wnd ;135°	0,0	0,0	**0,2**	0,0	0,0	**0,0**	**0,2**
N81	low max Wnd ;45°	**-1,7**	**3,4**	**2,2**	-0,2	-0,1	0,0	**4,4**
N81	high max Wnd ;45°	-1,5	3,2	1,4	**-0,3**	-0,2	0,0	3,8
N81	high max Wnd ;225°	1,4	-3,0	**-2,0**	-0,2	**-0,3**	0,0	3,9
N81	low max Wnd ;315°	-1,4	**-3,4**	-0,9	-0,2	**-0,1**	**-0,1**	3,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N81	low max Wnd ;135°	**1,6**	3,2	0,0	**-0,1**	-0,2	**0,1**	3,6
N82	low max Wnd ;135°	**1,6**	3,0	-0,8	-0,3	-0,1	0,0	3,5
N82	high max Wnd ;225°	1,4	-3,0	**-2,1**	**-0,6**	0,1	0,0	**3,9**
N82	low max Wnd ;45°	**-1,7**	**3,3**	**0,5**	**-0,1**	**-0,6**	**0,0**	3,8
N82	low max Wnd ;225°	1,5	-3,1	-1,7	-0,4	**0,2**	0,0	3,8
N82	low max Wnd ;315°	-1,4	**-3,1**	-1,1	-0,3	-0,1	**0,0**	3,6
N83	low max Wnd ;45°	**0,0**	**0,0**	**0,1**	**0,0**	**0,0**	**0,0**	0,1
N83	high max Wnd ;225°	0,0	0,0	**-0,2**	**0,0**	0,0	0,0	**0,2**
N83	low max Wnd ;315°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N84	low max Wnd ;315°	**-1,5**	-3,2	-1,6	**0,2**	0,5	**0,0**	3,9
N84	low max Wnd ;225°	1,2	**-3,4**	-1,2	0,0	0,3	0,0	3,8
N84	high max Wnd ;315°	-1,4	-3,0	**-2,1**	0,1	**0,7**	0,0	**3,9**
N84	low max Wnd ;135°	**1,8**	**3,4**	**0,4**	**-0,6**	**0,0**	0,0	3,9
N84	low max Wnd ;45°	-1,4	3,2	-0,7	-0,3	0,3	**0,0**	3,5
N85	high max Wnd ;315°	0,0	0,0	**-0,2**	0,0	0,0	0,0	**0,2**
N85	low max Wnd ;135°	0,0	0,0	**0,1**	0,0	**0,0**	0,0	0,1
N85	low max Wnd ;45°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N85	high max Wnd ;225°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,0**	0,1
N86	low max Wnd ;315°	-1,2	**-3,3**	-1,2	0,0	-0,3	0,0	3,7
N86	low max Wnd ;225°	**1,5**	-3,2	-1,6	**0,2**	-0,5	0,0	3,9
N86	high max Wnd ;225°	1,4	-3,0	**-2,1**	0,1	**-0,7**	0,0	**4,0**
N86	low max Wnd ;45°	**-1,7**	**3,4**	**0,4**	**-0,6**	**0,0**	**0,0**	3,8
N86	low max Wnd ;135°	1,4	3,2	-0,7	-0,2	-0,3	**0,0**	3,5
N87	high max Wnd ;225°	0,0	0,0	**-0,2**	0,0	**0,0**	0,0	**0,2**
N87	low max Wnd ;45°	0,0	0,0	**0,1**	0,0	0,0	**0,0**	0,1
N87	low max Wnd ;135°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,0**	0,1
N164	low max Wnd ;45°	**-1,7**	**3,4**	**2,1**	-0,5	-0,5	0,0	**4,4**
N164	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	4,4
N164	high max Wnd ;45°	-1,5	3,2	0,9	**-0,5**	**-0,5**	0,0	3,7
N164	low max Wnd ;225°	1,5	-3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N164	low max Wnd ;315°	-1,3	**-3,3**	-1,4	-0,1	0,0	**-0,1**	3,8
N164	low max Wnd ;135°	**1,6**	3,1	-0,4	-0,2	-0,2	**0,1**	3,5
N165	low max Wnd ;45°	**-1,8**	**3,4**	**1,6**	-0,5	-0,5	0,0	4,2

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N165	high max Wnd ;225°	1,4	-3,0	**-2,9**	-0,1	-0,1	0,0	**4,5**
N165	high max Wnd ;45°	-1,6	3,2	0,4	**-0,5**	**-0,5**	0,0	3,6
N165	low max Wnd ;225°	**1,5**	-3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N165	low max Wnd ;315°	-1,2	**-3,3**	-1,5	-0,1	0,0	**-0,1**	3,9
N165	low max Wnd ;135°	1,5	3,1	-0,6	-0,2	-0,2	**0,1**	3,5
N166	low max Wnd ;45°	**-1,7**	**3,4**	**2,1**	-0,5	-0,5	0,0	**4,4**
N166	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	4,3
N166	high max Wnd ;45°	-1,5	3,2	0,9	**-0,5**	**-0,5**	0,0	3,6
N166	low max Wnd ;225°	1,5	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N166	low max Wnd ;315°	-1,4	**-3,3**	-1,3	-0,1	0,0	**-0,1**	3,8
N166	low max Wnd ;135°	**1,6**	3,1	-0,5	-0,2	-0,2	**0,1**	3,5
N167	low max Wnd ;45°	**-1,7**	**3,4**	**1,6**	-0,5	-0,5	0,0	4,1
N167	high max Wnd ;225°	1,4	-3,0	**-2,8**	-0,1	-0,1	0,0	**4,4**
N167	high max Wnd ;45°	-1,5	3,2	0,3	**-0,5**	**-0,5**	0,0	3,5
N167	low max Wnd ;225°	1,5	-3,1	-2,3	**0,0**	**0,0**	0,0	4,2
N167	low max Wnd ;315°	-1,4	**-3,2**	-1,4	-0,1	0,0	**-0,1**	3,7
N167	low max Wnd ;135°	**1,6**	3,0	-0,7	-0,2	-0,2	**0,1**	3,5
N168	high max Wnd ;315°	-1,4	-3,0	**-2,5**	-0,2	0,3	0,0	4,1
N168	high max Wnd ;135°	1,6	3,2	1,2	**-0,4**	**0,3**	0,0	3,8
N168	low max Wnd ;225°	1,4	**-3,3**	-1,2	-0,2	**0,1**	**0,1**	3,8
N168	low max Wnd ;45°	**-1,6**	3,1	-0,3	**-0,1**	0,2	**-0,1**	3,5
N168	low max Wnd ;135°	**1,8**	**3,5**	**2,4**	-0,3	0,2	0,0	**4,5**
N169	low max Wnd ;225°	**1,8**	**-3,4**	**2,4**	0,3	0,2	0,0	**4,5**
N169	high max Wnd ;45°	-1,3	3,0	**-2,5**	0,2	0,3	0,0	4,1
N169	low max Wnd ;315°	**-1,6**	-3,1	-0,3	**0,1**	0,2	**0,1**	3,5
N169	high max Wnd ;225°	1,6	-3,2	1,2	**0,3**	**0,3**	0,0	3,8
N169	low max Wnd ;135°	1,4	**3,4**	-1,2	0,2	**0,1**	**-0,1**	3,8
1Y2	low max Wnd ;45°	**-3,0**	**4,6**	**2,0**	-0,9	-1,0	0,0	**5,8**
1Y2	low max Wnd ;225°	**2,2**	**-3,7**	-2,6	**0,5**	**0,6**	0,0	5,1
1Y2	high max Wnd ;225°	2,0	-3,5	**-3,1**	0,5	0,6	0,0	5,1
1Y2	high max Wnd ;45°	-2,9	4,4	0,7	**-0,9**	**-1,0**	0,0	5,3
1Y2	low max Wnd ;315°	-1,1	-3,2	-1,5	0,0	0,2	**-0,1**	3,7
1Y2	low max Wnd ;135°	1,0	3,3	-0,5	-0,2	-0,4	**0,1**	3,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1XY2	low max Wnd ;315°	**-3,1**	**-4,6**	**2,0**	0,9	-1,0	0,0	**5,9**
1XY2	high max Wnd ;135°	2,2	3,6	**-3,1**	-0,5	0,7	0,0	5,2
1XY2	low max Wnd ;135°	**2,3**	**3,8**	-2,6	**-0,6**	**0,7**	0,0	5,2
1XY2	high max Wnd ;315°	-3,0	-4,4	0,8	**0,9**	**-1,1**	0,0	5,4
1XY2	low max Wnd ;225°	1,0	-3,3	-0,5	0,1	-0,4	**-0,1**	3,5
1XY2	low max Wnd ;45°	-1,0	3,2	-1,5	0,0	0,3	**0,1**	3,7
N172	low max Wnd ;315°	**-1,7**	**-3,4**	**2,1**	0,5	-0,5	0,0	4,4
N172	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,4**
N172	low max Wnd ;135°	1,5	3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N172	high max Wnd ;315°	-1,6	-3,2	0,9	**0,5**	**-0,5**	0,0	3,7
N172	low max Wnd ;225°	**1,6**	-3,1	-0,4	0,2	-0,2	**-0,1**	3,5
N172	low max Wnd ;45°	-1,3	**3,3**	-1,4	0,1	0,0	**0,1**	3,8
N173	low max Wnd ;315°	**-1,8**	**-3,4**	**1,6**	0,5	-0,5	0,0	4,2
N173	high max Wnd ;135°	1,4	3,0	**-2,9**	0,1	-0,1	0,0	**4,5**
N173	low max Wnd ;135°	**1,5**	3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N173	high max Wnd ;315°	-1,6	-3,2	0,4	**0,5**	**-0,5**	0,0	3,6
N173	low max Wnd ;225°	1,5	-3,1	-0,6	0,2	-0,2	**-0,1**	3,5
N173	low max Wnd ;45°	-1,2	**3,3**	-1,5	0,1	0,0	**0,1**	3,9
N174	low max Wnd ;315°	**-1,7**	**-3,4**	**2,1**	0,5	-0,5	0,0	**4,4**
N174	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	4,3
N174	low max Wnd ;135°	1,5	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N174	high max Wnd ;315°	-1,5	-3,2	0,9	**0,5**	**-0,5**	0,0	3,6
N174	low max Wnd ;225°	**1,6**	-3,1	-0,5	0,2	-0,2	**-0,1**	3,5
N174	low max Wnd ;45°	-1,4	**3,3**	-1,3	0,1	0,0	**0,1**	3,8
N175	low max Wnd ;315°	**-1,7**	**-3,4**	**1,6**	0,5	-0,5	0,0	4,1
N175	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,4**
N175	low max Wnd ;135°	1,5	3,1	-2,3	**0,0**	**0,0**	0,0	4,2
N175	high max Wnd ;315°	-1,5	-3,2	0,3	**0,5**	**-0,5**	0,0	3,5
N175	low max Wnd ;225°	**1,6**	-3,0	-0,7	0,2	-0,2	**-0,1**	3,5
N175	low max Wnd ;45°	-1,4	**3,2**	-1,3	0,1	0,0	**0,1**	3,7
N176	low max Wnd ;225°	1,3	**-3,3**	-1,4	-0,1	0,0	**0,1**	3,9
N176	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	4,4
N176	high max Wnd ;135°	1,6	3,2	0,9	**-0,5**	**0,5**	0,0	3,7

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N176	low max Wnd ;315°	-1,5	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N176	low max Wnd ;45°	**-1,5**	3,2	-0,4	-0,2	0,3	**-0,1**	3,5
N176	low max Wnd ;135°	**1,8**	**3,5**	**2,2**	-0,5	0,5	0,0	**4,5**
N177	low max Wnd ;225°	1,3	**-3,3**	-1,5	-0,1	0,0	**0,1**	3,9
N177	high max Wnd ;315°	-1,4	-3,0	**-2,9**	-0,1	0,1	0,0	**4,4**
N177	low max Wnd ;135°	**1,8**	**3,5**	**1,7**	-0,5	0,5	0,0	4,3
N177	high max Wnd ;135°	1,6	3,2	0,4	**-0,5**	**0,5**	0,0	3,6
N177	low max Wnd ;315°	**-1,5**	-3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N177	low max Wnd ;45°	-1,5	3,2	-0,5	-0,2	0,3	**-0,1**	3,5
N178	low max Wnd ;225°	1,4	**-3,3**	-1,3	-0,1	0,0	**0,1**	3,8
N178	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	4,3
N178	high max Wnd ;135°	1,6	3,2	0,9	**-0,5**	**0,5**	0,0	3,7
N178	low max Wnd ;315°	-1,4	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N178	low max Wnd ;45°	**-1,6**	3,1	-0,5	-0,2	0,3	**-0,1**	3,5
N178	low max Wnd ;135°	**1,8**	**3,5**	**2,2**	-0,5	0,5	0,0	**4,5**
N179	low max Wnd ;225°	1,4	**-3,2**	-1,3	-0,1	0,0	**0,1**	3,8
N179	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	**4,3**
N179	low max Wnd ;135°	**1,8**	**3,4**	**1,7**	-0,5	0,5	0,0	4,2
N179	high max Wnd ;135°	1,6	3,2	0,4	**-0,5**	**0,5**	0,0	3,6
N179	low max Wnd ;315°	-1,4	-3,1	-2,3	**0,0**	**0,0**	0,0	4,1
N179	low max Wnd ;45°	**-1,6**	3,0	-0,7	-0,2	0,3	**-0,1**	3,5
1P2	high max Wnd ;315°	-2,0	-3,5	**-3,1**	0,4	-0,5	0,0	5,1
1P2	high max Wnd ;135°	2,9	4,5	0,8	**-0,9**	**1,0**	0,0	5,4
1P2	low max Wnd ;315°	**-2,2**	**-3,7**	-2,6	**0,5**	**-0,6**	0,0	5,0
1P2	low max Wnd ;45°	-1,0	3,4	-0,5	-0,2	0,4	**-0,1**	3,5
1P2	low max Wnd ;225°	1,1	-3,2	-1,5	0,0	-0,2	**0,1**	3,7
1P2	low max Wnd ;135°	**3,0**	**4,6**	**2,1**	-0,9	1,0	0,0	**5,9**
1X2	low max Wnd ;225°	**3,1**	**-4,6**	**2,1**	0,9	1,0	0,0	**6,0**
1X2	high max Wnd ;45°	-2,1	3,5	**-3,1**	-0,5	-0,6	0,0	5,1
1X2	low max Wnd ;45°	**-2,3**	**3,8**	-2,6	**-0,5**	**-0,7**	0,0	5,1
1X2	high max Wnd ;225°	3,0	-4,4	0,8	**0,9**	**1,1**	0,0	5,4
1X2	low max Wnd ;135°	1,1	3,2	-1,5	0,0	-0,2	**-0,1**	3,7
1X2	low max Wnd ;315°	-1,0	-3,3	-0,5	0,2	0,4	**0,1**	3,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N182	low max Wnd ;315°	**-1,5**	-3,1	-0,4	0,2	0,2	**0,1**	3,5
N182	low max Wnd ;225°	**1,8**	**-3,4**	**2,2**	0,5	0,5	0,0	**4,5**
N182	high max Wnd ;45°	-1,4	3,0	**-2,8**	0,1	0,1	0,0	4,4
N182	low max Wnd ;45°	-1,5	3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N182	high max Wnd ;225°	1,6	-3,2	1,0	**0,5**	**0,5**	0,0	3,7
N182	low max Wnd ;135°	1,3	**3,4**	-1,4	0,1	0,0	**-0,1**	3,9
N183	low max Wnd ;225°	**1,8**	**-3,4**	**1,8**	0,5	0,5	0,0	4,3
N183	high max Wnd ;45°	-1,4	3,0	**-2,9**	0,1	0,1	0,0	**4,4**
N183	low max Wnd ;45°	**-1,5**	3,2	-2,4	**0,0**	**0,0**	0,0	4,3
N183	high max Wnd ;225°	1,6	-3,2	0,4	**0,5**	**0,5**	0,0	3,6
N183	low max Wnd ;135°	1,3	**3,4**	-1,5	0,1	0,0	**-0,1**	3,9
N183	low max Wnd ;315°	-1,5	-3,1	-0,5	0,2	0,2	**0,1**	3,5
N184	low max Wnd ;315°	**-1,6**	-3,1	-0,5	0,2	0,2	**0,1**	3,5
N184	low max Wnd ;225°	**1,8**	**-3,4**	**2,2**	0,5	0,5	0,0	**4,4**
N184	high max Wnd ;45°	-1,4	3,0	**-2,7**	0,1	0,1	0,0	4,3
N184	low max Wnd ;45°	-1,4	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N184	high max Wnd ;225°	1,6	-3,2	0,9	**0,5**	**0,5**	0,0	3,7
N184	low max Wnd ;135°	1,4	**3,3**	-1,3	0,1	0,0	**-0,1**	3,8
N185	low max Wnd ;315°	**-1,6**	-3,0	-0,7	0,2	0,2	**0,1**	3,5
N185	low max Wnd ;225°	**1,8**	**-3,4**	**1,7**	0,5	0,5	0,0	4,2
N185	high max Wnd ;45°	-1,4	3,0	**-2,8**	0,1	0,1	0,0	**4,3**
N185	low max Wnd ;45°	-1,4	3,1	-2,3	**0,0**	**0,0**	0,0	4,1
N185	high max Wnd ;225°	1,6	-3,2	0,4	**0,5**	**0,5**	0,0	3,6
N185	low max Wnd ;135°	1,4	**3,2**	-1,3	0,1	0,0	**-0,1**	3,8
N186	low max Wnd ;45°	**-1,7**	**3,4**	**1,8**	-0,5	-0,5	0,0	4,2
N186	high max Wnd ;225°	1,4	-3,0	**-2,9**	-0,1	-0,1	0,0	**4,4**
N186	high max Wnd ;45°	-1,5	3,2	0,5	**-0,5**	**-0,5**	0,0	3,6
N186	low max Wnd ;225°	1,5	-3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N186	low max Wnd ;315°	-1,3	**-3,3**	-1,4	-0,1	0,0	**-0,1**	3,8
N186	low max Wnd ;135°	**1,6**	3,1	-0,6	-0,2	-0,2	**0,1**	3,5
N187	low max Wnd ;225°	1,4	**-3,3**	-1,4	-0,1	0,0	**0,1**	3,8
N187	high max Wnd ;315°	-1,4	-3,0	**-2,8**	-0,1	0,1	0,0	**4,4**
N187	low max Wnd ;135°	**1,8**	**3,5**	**1,9**	-0,5	0,5	0,0	4,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N187	high max Wnd ;135°	1,6	3,2	0,6	**-0,5**	**0,5**	0,0	3,6
N187	low max Wnd ;315°	-1,5	-3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N187	low max Wnd ;45°	**-1,5**	3,1	-0,5	-0,2	0,3	**-0,1**	3,5
N188	low max Wnd ;315°	**-1,7**	**-3,4**	**1,8**	0,5	-0,5	0,0	4,2
N188	high max Wnd ;135°	1,4	3,0	**-2,8**	0,1	-0,1	0,0	**4,4**
N188	low max Wnd ;135°	1,5	3,2	-2,4	**0,0**	**0,0**	0,0	4,2
N188	high max Wnd ;315°	-1,5	-3,2	0,6	**0,5**	**-0,5**	0,0	3,6
N188	low max Wnd ;225°	**1,6**	-3,1	-0,6	0,2	-0,2	**-0,1**	3,5
N188	low max Wnd ;45°	-1,3	**3,3**	-1,4	0,1	0,0	**0,1**	3,8
N189	low max Wnd ;315°	**-1,5**	-3,1	-0,5	0,2	0,2	**0,1**	3,5
N189	low max Wnd ;225°	**1,8**	**-3,4**	**1,9**	0,5	0,5	0,0	4,3
N189	high max Wnd ;45°	-1,4	3,0	**-2,8**	0,1	0,1	0,0	**4,4**
N189	low max Wnd ;45°	-1,5	3,2	-2,3	**0,0**	**0,0**	0,0	4,2
N189	high max Wnd ;225°	1,6	-3,2	0,6	**0,5**	**0,5**	0,0	3,6
N189	low max Wnd ;135°	1,4	**3,3**	-1,4	0,1	0,0	**-0,1**	3,8
N190	low max Wnd ;225°	**-0,3**	**0,8**	-0,7	**0,5**	**0,1**	-0,1	1,1
N190	low max Wnd ;45°	0,5	**-0,7**	-0,5	**-0,4**	-0,2	0,0	1,0
N190	high max Wnd ;45°	**0,5**	-0,7	-0,8	-0,3	**-0,2**	0,0	1,2
N190	high max Wnd ;315°	0,2	0,7	**-2,2**	0,4	-0,2	**-0,1**	2,3
N190	low max Wnd ;135°	0,5	-0,7	**2,6**	-0,3	0,1	**0,0**	**2,7**
N191	low max Wnd ;225°	**-0,3**	**0,8**	-0,8	**0,5**	**0,1**	-0,1	1,2
N191	low max Wnd ;135°	0,5	**-0,7**	**2,3**	-0,3	0,0	0,0	2,5
N191	low max Wnd ;45°	0,5	-0,7	-0,6	**-0,4**	-0,2	**0,0**	1,1
N191	high max Wnd ;45°	**0,5**	-0,7	-0,9	-0,3	**-0,2**	0,0	1,3
N191	high max Wnd ;315°	0,1	0,7	**-2,4**	0,4	-0,1	**-0,1**	**2,5**
N192	low max Wnd ;225°	**-0,3**	**0,8**	-0,8	**0,5**	**0,1**	-0,1	1,2
N192	low max Wnd ;135°	0,4	**-0,8**	**1,8**	-0,3	0,0	-0,1	2,0
N192	low max Wnd ;45°	**0,4**	-0,7	-0,8	**-0,4**	**-0,2**	**0,0**	1,2
N192	high max Wnd ;315°	0,1	0,8	**-2,4**	0,4	-0,1	**-0,1**	**2,6**
N193	high max Wnd ;315°	0,3	0,4	**-2,7**	0,3	-0,1	0,1	2,8
N193	low max Wnd ;45°	**0,4**	**-0,4**	0,2	**-0,3**	**-0,2**	0,0	0,7
N193	low max Wnd ;225°	**-0,4**	**0,7**	-1,6	**0,4**	**0,2**	**0,0**	1,8
N193	high max Wnd ;135°	-0,2	0,0	1,5	-0,2	0,1	**0,1**	1,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N193	low max Wnd ;135°	-0,3	0,2	**2,7**	-0,2	0,1	0,1	**2,8**
N194	low max Wnd ;135°	**-0,4**	0,0	**2,2**	-0,2	0,1	0,1	2,3
N194	high max Wnd ;315°	0,4	0,4	**-2,7**	0,3	-0,2	0,1	**2,8**
N194	low max Wnd ;225°	-0,3	**0,6**	-1,7	**0,4**	**0,2**	0,0	1,8
N194	low max Wnd ;45°	**0,4**	**-0,5**	0,0	**-0,3**	**-0,2**	**0,0**	0,6
N194	high max Wnd ;135°	-0,3	-0,1	1,0	-0,2	0,1	**0,1**	1,0
N195	high max Wnd ;135°	**-0,5**	-0,7	-0,8	-0,3	**0,2**	0,0	1,2
N195	high max Wnd ;225°	-0,2	0,7	**-2,3**	0,4	0,2	**0,1**	2,4
N195	low max Wnd ;135°	-0,5	**-0,7**	-0,5	**-0,4**	0,2	0,0	1,1
N195	low max Wnd ;315°	**0,3**	**0,8**	-0,7	**0,4**	**-0,1**	0,1	1,1
N195	low max Wnd ;45°	-0,5	-0,7	**2,5**	-0,3	-0,1	**0,0**	**2,6**
N196	high max Wnd ;135°	**-0,5**	-0,7	-1,0	-0,3	**0,2**	0,0	1,3
N196	low max Wnd ;45°	-0,5	**-0,7**	**2,2**	-0,3	0,0	0,0	2,4
N196	high max Wnd ;225°	-0,1	0,7	**-2,4**	0,4	0,1	**0,1**	**2,5**
N196	low max Wnd ;315°	**0,3**	**0,8**	-0,8	**0,4**	**-0,1**	0,1	1,2
N196	low max Wnd ;135°	-0,5	-0,7	-0,7	**-0,4**	0,2	**0,0**	1,1
N197	low max Wnd ;45°	-0,3	**-0,8**	**1,7**	-0,3	0,0	0,0	1,9
N197	high max Wnd ;225°	-0,1	0,8	**-2,5**	0,4	0,2	**0,1**	**2,6**
N197	low max Wnd ;315°	**0,3**	**0,8**	-0,9	**0,5**	**-0,1**	0,1	1,3
N197	low max Wnd ;135°	**-0,4**	-0,7	-0,8	**-0,4**	**0,2**	**0,0**	1,2
N198	high max Wnd ;315°	0,3	**0,7**	-1,9	0,4	-0,1	-0,1	2,1
N198	high max Wnd ;225°	-0,3	0,4	**-2,7**	0,3	0,2	-0,1	**2,8**
N198	low max Wnd ;45°	0,3	0,1	**2,6**	-0,2	-0,1	-0,1	2,7
N198	low max Wnd ;135°	**-0,4**	**-0,5**	0,2	**-0,3**	**0,2**	0,0	0,7
N198	low max Wnd ;315°	**0,3**	0,6	-1,6	**0,4**	**-0,2**	**0,0**	1,8
N198	high max Wnd ;45°	0,2	0,0	1,4	-0,2	-0,1	**-0,1**	1,4
N199	high max Wnd ;225°	-0,4	0,4	**-2,7**	0,3	0,2	-0,1	**2,8**
N199	low max Wnd ;45°	**0,4**	0,0	**2,1**	-0,2	-0,1	-0,1	2,2
N199	low max Wnd ;135°	**-0,4**	**-0,5**	0,0	**-0,3**	**0,2**	**0,0**	0,6
N199	low max Wnd ;315°	0,3	**0,6**	-1,7	**0,4**	**-0,2**	0,0	1,8
N199	high max Wnd ;45°	0,3	-0,1	0,9	-0,2	-0,1	**-0,1**	0,9
N200	high max Wnd ;225°	**-0,5**	0,7	-0,8	0,3	0,2	0,0	1,2
N200	low max Wnd ;225°	-0,5	**0,7**	-0,5	**0,4**	**0,2**	0,0	1,0

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N200	low max Wnd ;45°	**0,3**	**-0,8**	-0,7	**-0,4**	**-0,1**	-0,1	1,1
N200	high max Wnd ;135°	-0,2	-0,7	**-2,2**	-0,4	0,2	**-0,1**	2,4
N200	low max Wnd ;315°	-0,5	0,7	**2,5**	0,3	-0,1	**0,0**	**2,6**
N201	high max Wnd ;225°	**-0,5**	0,7	-1,0	0,3	0,2	0,0	1,3
N201	low max Wnd ;315°	-0,5	**0,7**	**2,2**	0,3	0,0	0,0	2,4
N201	low max Wnd ;45°	**0,3**	**-0,8**	-0,8	**-0,4**	**-0,1**	-0,1	1,2
N201	high max Wnd ;135°	-0,1	-0,7	**-2,4**	-0,4	0,1	**-0,1**	**2,5**
N201	low max Wnd ;225°	-0,5	0,7	-0,7	**0,4**	**0,2**	**0,0**	1,1
N202	low max Wnd ;225°	**-0,4**	0,7	-0,8	**0,3**	**0,2**	**0,0**	1,2
N202	low max Wnd ;315°	-0,3	**0,8**	**1,7**	0,3	0,0	-0,1	1,9
N202	low max Wnd ;45°	**0,3**	**-0,8**	-0,9	**-0,5**	**-0,1**	-0,1	1,3
N202	high max Wnd ;135°	-0,1	-0,8	**-2,4**	-0,4	0,2	**-0,1**	**2,6**
N203	low max Wnd ;225°	**-0,4**	**0,5**	0,2	**0,3**	**0,2**	0,0	0,7
N203	high max Wnd ;45°	0,3	**-0,7**	-1,9	-0,4	-0,1	0,1	2,1
N203	high max Wnd ;135°	-0,3	-0,4	**-2,7**	-0,3	0,2	0,1	**2,8**
N203	low max Wnd ;315°	0,3	-0,1	**2,6**	0,2	-0,1	0,1	2,7
N203	low max Wnd ;45°	**0,3**	-0,7	-1,6	**-0,4**	**-0,2**	**0,0**	1,8
N203	high max Wnd ;315°	0,2	0,0	1,4	0,2	-0,1	**0,1**	1,4
N204	high max Wnd ;135°	-0,4	-0,4	**-2,7**	-0,3	0,2	0,1	**2,8**
N204	low max Wnd ;315°	**0,4**	0,0	**2,2**	0,2	-0,1	0,1	2,2
N204	low max Wnd ;45°	0,3	**-0,6**	-1,7	**-0,4**	**-0,2**	0,0	1,8
N204	low max Wnd ;225°	**-0,4**	**0,5**	0,0	**0,3**	**0,2**	**0,0**	0,6
N204	high max Wnd ;315°	0,3	0,1	0,9	0,2	-0,1	**0,1**	0,9
N205	high max Wnd ;135°	-0,3	**-0,7**	-1,9	-0,4	0,1	-0,1	2,1
N205	high max Wnd ;45°	0,3	-0,4	**-2,7**	-0,4	-0,1	-0,1	2,7
N205	low max Wnd ;135°	**-0,4**	-0,7	-1,6	**-0,4**	**0,2**	0,0	1,8
N205	low max Wnd ;315°	**0,4**	**0,4**	0,2	**0,3**	**-0,2**	**0,0**	0,7
N205	high max Wnd ;225°	-0,2	0,0	1,5	0,2	0,1	**-0,1**	1,5
N205	low max Wnd ;225°	-0,3	-0,2	**2,8**	0,2	0,1	-0,1	**2,8**
N206	low max Wnd ;225°	**-0,4**	0,0	**2,3**	0,2	0,1	-0,1	2,3
N206	low max Wnd ;135°	-0,3	**-0,6**	-1,7	**-0,4**	**0,2**	0,0	1,8
N206	low max Wnd ;315°	**0,4**	**0,5**	0,0	**0,3**	**-0,2**	**0,0**	0,6
N206	high max Wnd ;45°	0,4	-0,4	**-2,7**	-0,3	-0,2	**-0,1**	**2,8**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N207	high max Wnd ;45°	0,2	-0,7	**-2,2**	-0,4	-0,2	**0,1**	2,3
N207	low max Wnd ;135°	**-0,3**	**-0,8**	-0,7	**-0,5**	**0,1**	0,1	1,1
N207	low max Wnd ;315°	0,5	**0,7**	-0,5	**0,4**	-0,2	0,0	1,0
N207	high max Wnd ;315°	**0,5**	0,7	-0,8	0,3	**-0,2**	0,0	1,2
N207	low max Wnd ;225°	0,5	0,7	**2,6**	0,3	0,1	**0,0**	**2,7**
N208	high max Wnd ;45°	0,1	-0,7	**-2,4**	-0,4	-0,1	**0,1**	**2,5**
N208	low max Wnd ;225°	0,5	**0,7**	**2,4**	0,3	0,0	0,0	2,5
N208	low max Wnd ;135°	**-0,3**	**-0,8**	-0,8	**-0,5**	**0,1**	0,1	1,2
N208	high max Wnd ;315°	**0,5**	0,7	-0,9	0,3	**-0,2**	0,0	1,3
N208	low max Wnd ;315°	0,5	0,7	-0,6	**0,4**	-0,2	**0,0**	1,1
N209	high max Wnd ;45°	0,1	-0,8	**-2,4**	-0,4	-0,1	**0,1**	**2,6**
N209	low max Wnd ;225°	0,4	**0,8**	**1,9**	0,3	0,0	0,1	2,1
N209	low max Wnd ;135°	**-0,3**	**-0,9**	-0,9	**-0,5**	**0,1**	0,1	1,2
N209	low max Wnd ;315°	**0,4**	0,7	-0,8	**0,4**	**-0,2**	**0,0**	1,2
N210	low max Wnd ;315°	**-1,7**	**-3,4**	**2,3**	0,3	-0,2	0,0	**4,5**
N210	high max Wnd ;135°	1,4	3,0	**-2,5**	0,2	-0,3	0,0	4,2
N210	high max Wnd ;315°	-1,5	-3,2	1,1	**0,3**	**-0,3**	0,0	3,7
N210	low max Wnd ;225°	**1,6**	-3,1	-0,3	**0,1**	-0,2	**-0,1**	3,5
N210	low max Wnd ;45°	-1,4	**3,3**	-1,2	0,2	**-0,1**	**0,1**	3,8
N211	low max Wnd ;45°	**-1,7**	**3,4**	**2,3**	-0,3	-0,2	0,0	**4,4**
N211	high max Wnd ;225°	1,4	-3,0	**-2,5**	-0,2	-0,3	0,0	4,2
N211	high max Wnd ;45°	-1,5	3,2	1,1	**-0,3**	**-0,3**	0,0	3,7
N211	low max Wnd ;315°	-1,4	**-3,3**	-1,2	-0,2	**-0,1**	**-0,1**	3,8
N211	low max Wnd ;135°	**1,6**	3,1	-0,3	**-0,1**	-0,2	**0,1**	3,5
N212	low max Wnd ;225°	**1,8**	**-3,5**	**2,8**	0,3	0,2	0,0	**4,8**
N212	high max Wnd ;45°	-1,3	3,1	**-2,0**	0,2	0,3	0,0	3,9
N212	low max Wnd ;315°	**-1,6**	-3,2	0,0	**0,1**	0,2	**0,1**	3,6
N212	high max Wnd ;225°	1,5	-3,2	1,8	**0,3**	**0,3**	0,0	4,0
N212	low max Wnd ;135°	1,5	**3,4**	-0,9	0,2	**0,1**	**-0,1**	3,8
N213	low max Wnd ;315°	**-1,6**	-3,0	-0,8	0,3	0,2	0,0	3,5
N213	high max Wnd ;45°	-1,3	3,0	**-2,2**	**0,6**	-0,1	0,0	**3,9**
N213	low max Wnd ;225°	**1,7**	**-3,4**	**0,7**	**0,1**	**0,7**	**0,0**	3,8
N213	low max Wnd ;45°	-1,4	3,1	-1,7	0,4	**-0,1**	0,0	3,8

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N213	low max Wnd ;135°	1,5	**3,1**	-1,1	0,3	0,1	**0,0**	3,7
N214	low max Wnd ;135°	1,2	**3,4**	-1,2	0,0	0,3	0,0	3,8
N214	high max Wnd ;45°	-1,4	3,0	**-2,2**	-0,1	**0,6**	0,0	**4,0**
N214	low max Wnd ;45°	**-1,5**	3,2	-1,7	**-0,2**	0,5	**0,0**	3,9
N214	low max Wnd ;225°	**1,8**	**-3,4**	**0,6**	**0,7**	**0,1**	0,0	3,9
N214	low max Wnd ;315°	-1,4	-3,2	-0,7	0,3	0,3	**0,0**	3,5
N215	high max Wnd ;45°	**0,0**	**0,0**	**-0,3**	**0,0**	**0,0**	0,0	0,3
N215	low max Wnd ;225°	0,0	0,0	**0,3**	**0,0**	0,0	**0,0**	**0,3**
N215	low max Wnd ;135°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N216	high max Wnd ;45°	**0,0**	**0,0**	**-0,3**	**0,0**	**0,0**	0,0	**0,3**
N216	low max Wnd ;315°	0,0	0,0	-0,1	**0,0**	0,0	**0,0**	0,1
N216	low max Wnd ;225°	0,0	0,0	**0,3**	0,0	**0,0**	0,0	0,3
N216	high max Wnd ;135°	0,0	0,0	-0,3	0,0	0,0	**0,0**	0,3
N217	low max Wnd ;315°	**-1,6**	-3,0	-1,1	0,3	0,2	0,0	3,5
N217	high max Wnd ;45°	-1,3	3,0	**-2,7**	**0,6**	-0,1	0,0	**4,2**
N217	low max Wnd ;225°	**1,8**	**-3,4**	**0,6**	**0,1**	**0,7**	**0,0**	3,8
N217	low max Wnd ;45°	-1,4	3,1	-2,1	0,4	**-0,1**	0,0	4,0
N217	low max Wnd ;135°	1,4	**3,1**	-1,4	0,3	0,1	**0,0**	3,7
N218	low max Wnd ;225°	**1,6**	-3,0	-1,1	0,3	-0,2	0,0	3,5
N218	high max Wnd ;135°	1,4	3,0	**-2,7**	**0,6**	0,1	0,0	**4,3**
N218	low max Wnd ;135°	1,5	3,1	-2,1	0,4	**0,1**	0,0	4,0
N218	low max Wnd ;315°	**-1,7**	**-3,4**	**0,5**	**0,2**	**-0,7**	**0,0**	3,8
N218	low max Wnd ;45°	-1,4	**3,1**	-1,4	0,3	-0,1	**0,0**	3,7
N219	low max Wnd ;135°	1,2	**3,4**	-1,6	0,0	0,3	0,0	3,9
N219	high max Wnd ;45°	-1,4	3,0	**-2,8**	-0,1	**0,6**	0,0	**4,4**
N219	low max Wnd ;45°	**-1,5**	3,2	-2,2	**-0,2**	0,5	**0,0**	4,2
N219	low max Wnd ;225°	**1,8**	**-3,4**	**0,5**	**0,7**	**0,1**	0,0	3,9
N219	low max Wnd ;315°	-1,4	-3,1	-1,0	0,3	0,3	**0,0**	3,6
N220	low max Wnd ;315°	**-1,5**	-3,2	-2,2	**0,2**	0,5	**0,0**	4,1
N220	low max Wnd ;225°	1,3	**-3,4**	-1,6	0,0	0,3	0,0	3,9
N220	high max Wnd ;315°	-1,4	-3,0	**-2,8**	0,1	**0,6**	0,0	**4,4**
N220	low max Wnd ;135°	**1,8**	**3,5**	**0,5**	**-0,7**	**0,1**	0,0	3,9
N220	low max Wnd ;45°	-1,4	3,2	-1,0	-0,3	0,3	**0,0**	3,6

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N221	low max Wnd ;315°	**-1,7**	**-3,4**	**0,4**	**0,7**	**-0,1**	0,0	3,9
N221	low max Wnd ;45°	-1,2	**3,4**	-1,6	0,0	-0,3	0,0	3,9
N221	low max Wnd ;135°	**1,5**	3,2	-2,2	**-0,2**	-0,5	0,0	4,2
N221	high max Wnd ;135°	1,4	3,0	**-2,8**	-0,1	**-0,6**	0,0	**4,4**
N221	low max Wnd ;225°	1,4	-3,1	-1,0	0,3	-0,3	**0,0**	3,6
N221	high max Wnd ;45°	-1,1	3,1	-2,3	0,1	-0,5	**0,0**	4,0
N222	low max Wnd ;315°	-1,2	**-3,3**	-1,6	0,0	-0,3	0,0	3,9
N222	low max Wnd ;225°	**1,5**	-3,2	-2,2	**0,2**	-0,5	0,0	4,1
N222	high max Wnd ;225°	1,4	-3,0	**-2,8**	0,1	**-0,6**	0,0	**4,4**
N222	low max Wnd ;45°	**-1,7**	**3,4**	**0,4**	**-0,7**	**-0,1**	**0,0**	3,9
N222	low max Wnd ;135°	1,4	3,2	-1,0	-0,3	-0,3	**0,0**	3,6
N223	low max Wnd ;135°	**1,6**	3,0	-1,1	-0,3	-0,2	0,0	3,6
N223	high max Wnd ;225°	1,4	-2,9	**-2,7**	**-0,6**	0,1	0,0	**4,3**
N223	low max Wnd ;45°	**-1,7**	**3,4**	**0,5**	**-0,2**	**-0,7**	**0,0**	3,8
N223	low max Wnd ;225°	1,5	-3,1	-2,1	-0,4	**0,1**	0,0	4,0
N223	low max Wnd ;315°	-1,4	**-3,1**	-1,4	-0,3	-0,1	**0,0**	3,7
N224	low max Wnd ;45°	**-1,6**	3,0	-1,1	-0,3	0,2	0,0	3,6
N224	low max Wnd ;225°	1,4	**-3,1**	-1,4	-0,3	0,1	**0,0**	3,7
N224	high max Wnd ;315°	-1,4	-2,9	**-2,7**	**-0,6**	-0,1	0,0	**4,2**
N224	low max Wnd ;315°	-1,4	-3,1	-2,1	-0,4	**-0,1**	0,0	4,0
N224	low max Wnd ;135°	**1,8**	**3,4**	**0,6**	**-0,2**	**0,7**	**0,0**	3,9
N225	low max Wnd ;315°	**-1,7**	**-3,4**	**2,8**	0,3	-0,2	0,0	**4,7**
N225	high max Wnd ;135°	1,4	3,1	**-2,0**	0,2	-0,3	0,0	3,9
N225	high max Wnd ;315°	-1,5	-3,2	1,7	**0,3**	**-0,3**	0,0	4,0
N225	low max Wnd ;225°	**1,7**	-3,2	0,0	**0,1**	-0,2	**-0,1**	3,6
N225	low max Wnd ;45°	-1,4	**3,4**	-0,9	0,2	**-0,1**	**0,1**	3,8
N226	low max Wnd ;225°	**1,7**	-3,0	-0,8	0,3	-0,2	0,0	3,5
N226	high max Wnd ;135°	1,4	3,0	**-2,2**	**0,6**	0,1	0,0	**4,0**
N226	low max Wnd ;135°	1,5	3,1	-1,7	0,4	**0,1**	0,0	3,8
N226	low max Wnd ;315°	**-1,7**	**-3,4**	**0,6**	**0,2**	**-0,7**	**0,0**	3,8
N226	low max Wnd ;45°	-1,4	**3,1**	-1,2	0,3	-0,1	**0,0**	3,6
N227	high max Wnd ;135°	0,0	0,0	**-0,3**	0,0	0,0	0,0	**0,3**
N227	low max Wnd ;315°	0,0	0,0	**0,3**	0,0	0,0	**0,0**	0,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N227	low max Wnd ;45°	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,0**	0,2
N228	low max Wnd ;315°	**-1,7**	**-3,4**	**0,5**	**0,7**	**-0,1**	0,0	3,9
N228	low max Wnd ;45°	-1,2	**3,4**	-1,2	0,0	-0,3	0,0	3,8
N228	low max Wnd ;135°	**1,5**	3,2	-1,7	**-0,2**	-0,5	0,0	3,9
N228	high max Wnd ;135°	1,4	3,0	**-2,2**	-0,1	**-0,6**	0,0	**4,0**
N228	low max Wnd ;225°	1,4	-3,2	-0,7	0,3	-0,3	**0,0**	3,5
N228	high max Wnd ;45°	-1,1	3,1	-1,8	0,1	-0,5	**0,0**	3,8
N229	low max Wnd ;315°	0,0	**0,0**	**0,3**	0,0	0,0	0,0	0,3
N229	high max Wnd ;135°	0,0	0,0	**-0,3**	0,0	**0,0**	0,0	**0,3**
N229	low max Wnd ;225°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N229	high max Wnd ;45°	**0,0**	**0,0**	-0,3	**0,0**	**0,0**	**0,0**	0,3
N230	high max Wnd ;315°	-1,3	-3,0	**-2,0**	-0,2	0,3	0,0	3,9
N230	high max Wnd ;135°	1,5	3,3	1,8	**-0,4**	**0,3**	0,0	4,0
N230	low max Wnd ;225°	1,5	**-3,4**	-0,9	-0,2	**0,1**	**0,1**	3,8
N230	low max Wnd ;45°	**-1,6**	3,2	0,0	**-0,1**	0,2	**-0,1**	3,6
N230	low max Wnd ;135°	**1,8**	**3,5**	**2,9**	-0,3	0,2	0,0	**4,8**
N231	low max Wnd ;45°	**-1,6**	3,0	-0,8	-0,3	0,2	0,0	3,5
N231	low max Wnd ;225°	1,5	**-3,1**	-1,1	-0,3	0,1	**0,0**	3,6
N231	high max Wnd ;315°	-1,3	-2,9	**-2,2**	**-0,6**	-0,1	0,0	**3,9**
N231	low max Wnd ;315°	-1,4	-3,1	-1,7	-0,4	**-0,1**	0,0	3,8
N231	low max Wnd ;135°	**1,7**	**3,4**	**0,7**	**-0,2**	**0,7**	**0,0**	3,9
N232	high max Wnd ;315°	**0,0**	**0,0**	**-0,3**	**0,0**	**0,0**	0,0	0,3
N232	low max Wnd ;225°	0,0	0,0	-0,2	0,0	**0,0**	**0,0**	0,2
N232	low max Wnd ;135°	0,0	0,0	**0,3**	0,0	0,0	**0,0**	**0,3**
N233	low max Wnd ;45°	**-1,7**	**3,4**	**2,8**	-0,3	-0,2	0,0	**4,7**
N233	high max Wnd ;225°	1,4	-3,0	**-2,0**	-0,2	-0,3	0,0	3,9
N233	high max Wnd ;45°	-1,5	3,2	1,7	**-0,3**	**-0,3**	0,0	4,0
N233	low max Wnd ;315°	-1,4	**-3,4**	-0,9	-0,2	**-0,1**	**-0,1**	3,8
N233	low max Wnd ;135°	**1,7**	3,2	0,0	**-0,1**	-0,2	**0,1**	3,6
N234	low max Wnd ;135°	**1,7**	3,0	-0,8	-0,3	-0,2	0,0	3,5
N234	high max Wnd ;225°	1,4	-2,9	**-2,2**	**-0,6**	0,1	0,0	**3,9**
N234	low max Wnd ;45°	**-1,7**	**3,4**	**0,6**	**-0,2**	**-0,7**	**0,0**	3,8
N234	low max Wnd ;225°	1,5	-3,1	-1,7	-0,4	**0,1**	0,0	3,8

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N234	low max Wnd ;315°	-1,4	**-3,1**	-1,2	-0,3	-0,1	**0,0**	3,6
N235	low max Wnd ;45°	**0,0**	**0,0**	**0,3**	**0,0**	**0,0**	**0,0**	0,3
N235	high max Wnd ;225°	0,0	0,0	**-0,3**	**0,0**	0,0	0,0	**0,3**
N235	low max Wnd ;315°	0,0	0,0	-0,2	0,0	0,0	**0,0**	0,2
N236	low max Wnd ;315°	**-1,5**	-3,2	-1,7	**0,2**	0,5	**0,0**	3,9
N236	low max Wnd ;225°	1,3	**-3,4**	-1,2	0,0	0,3	0,0	3,8
N236	high max Wnd ;315°	-1,4	-3,0	**-2,2**	0,1	**0,6**	0,0	**4,0**
N236	low max Wnd ;135°	**1,8**	**3,5**	**0,6**	**-0,7**	**0,1**	0,0	3,9
N236	low max Wnd ;45°	-1,4	3,2	-0,7	-0,3	0,3	**0,0**	3,6
N237	high max Wnd ;315°	0,0	0,0	**-0,3**	0,0	0,0	0,0	**0,3**
N237	low max Wnd ;135°	0,0	0,0	**0,3**	0,0	**0,0**	0,0	0,3
N237	low max Wnd ;45°	0,0	0,0	-0,1	0,0	0,0	**0,0**	0,1
N237	high max Wnd ;225°	**0,0**	**0,0**	-0,3	**0,0**	**0,0**	**0,0**	0,3
N238	low max Wnd ;315°	-1,2	**-3,4**	-1,2	0,0	-0,3	0,0	3,8
N238	low max Wnd ;225°	**1,5**	-3,2	-1,7	**0,2**	-0,5	0,0	3,9
N238	high max Wnd ;225°	1,4	-3,0	**-2,2**	0,1	**-0,6**	0,0	**4,0**
N238	low max Wnd ;45°	**-1,7**	**3,4**	**0,5**	**-0,7**	**-0,1**	**0,0**	3,9
N238	low max Wnd ;135°	1,4	3,2	-0,7	-0,3	-0,3	**0,0**	3,6
N239	high max Wnd ;225°	0,0	0,0	**-0,3**	0,0	**0,0**	0,0	**0,3**
N239	low max Wnd ;45°	0,0	0,0	**0,2**	0,0	0,0	**0,0**	0,2
N239	low max Wnd ;135°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,0**	0,1
N240	low max Wnd ;315°	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,1**	0,0
N240	high max Wnd ;45°	0,0	0,0	**-0,3**	0,0	0,0	0,0	0,3
N240	low max Wnd ;225°	0,0	0,0	**1,5**	0,0	**0,0**	0,0	**1,5**
N240	low max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N241	high max Wnd ;135°	0,0	0,0	**-0,3**	0,0	0,0	0,0	0,3
N241	low max Wnd ;315°	0,0	0,0	**1,5**	**0,0**	0,0	0,0	**1,5**
N241	low max Wnd ;225°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N241	low max Wnd ;45°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,1**	0,1
N242	high max Wnd ;135°	0,0	0,0	**-0,2**	0,0	0,0	0,0	0,2
N242	low max Wnd ;315°	0,0	0,0	**0,8**	**0,0**	0,0	0,0	**0,8**
N242	low max Wnd ;225°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N242	low max Wnd ;45°	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,1**	0,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N243	low max Wnd ;315°	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,1**	0,0
N243	high max Wnd ;45°	0,0	0,0	**-0,1**	0,0	0,0	0,0	0,1
N243	low max Wnd ;225°	0,0	0,0	**0,8**	0,0	**0,0**	0,0	**0,8**
N243	low max Wnd ;135°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N244	low max Wnd ;45°	**0,0**	**0,0**	**1,5**	**0,0**	**0,0**	0,0	**1,5**
N244	high max Wnd ;225°	0,0	0,0	**-0,3**	0,0	0,0	0,0	0,3
N244	low max Wnd ;135°	0,0	0,0	0,0	0,0	**0,0**	**0,1**	0,0
N244	low max Wnd ;315°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N245	high max Wnd ;315°	**0,0**	**0,0**	**-0,3**	**0,0**	**0,0**	0,0	0,3
N245	low max Wnd ;225°	0,0	0,0	-0,1	**0,0**	0,0	**0,1**	0,1
N245	low max Wnd ;135°	0,0	0,0	**1,6**	0,0	**0,0**	0,0	**1,6**
N245	low max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0
N246	low max Wnd ;45°	**0,0**	**0,0**	**0,8**	**0,0**	**0,0**	0,0	**0,8**
N246	high max Wnd ;225°	0,0	0,0	**-0,2**	0,0	0,0	0,0	0,2
N246	low max Wnd ;135°	0,0	0,0	0,0	0,0	**0,0**	**0,1**	0,0
N246	low max Wnd ;315°	0,0	0,0	-0,1	0,0	0,0	**-0,1**	0,1
N247	high max Wnd ;315°	**0,0**	**0,0**	**-0,2**	**0,0**	**0,0**	0,0	0,2
N247	low max Wnd ;225°	0,0	0,0	-0,1	**0,0**	0,0	**0,1**	0,1
N247	low max Wnd ;135°	0,0	0,0	**0,8**	0,0	**0,0**	0,0	**0,8**
N247	low max Wnd ;45°	0,0	0,0	0,0	0,0	0,0	**-0,1**	0,0

1. Inhoudsopgave

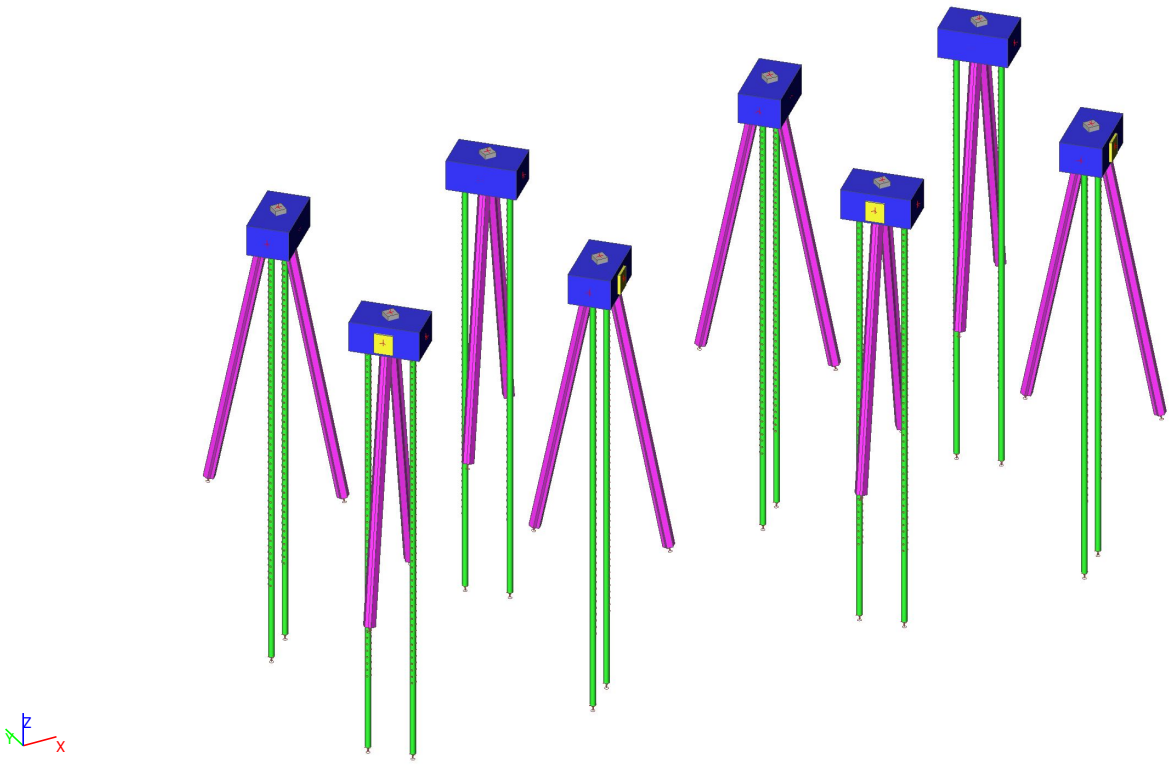
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2. Project

Gebruiker van licentie	[redacted]
Project	De Ronde Venen 380kV
Onderdeel	Blokpoer 200_ 2xLD1_ S+12 mast 148
Auteur	[redacted]
Datum	11-05-2026
Constructie	Algemeen XYZ
Aantal knopen :	120
Aantal staven :	64
Aantal platen :	0
Aantal vaste lichamen :	0
Aantal gebruikte doorsneden :	5
Aantal belastingsgevallen :	9
Aantal gebruikte materialen :	8
Gravitatieversnelling [m/s^2]	9,807
Nationale norm	EC - EN

3. Analyse model



4. Modeleigenschappen

4.1. Materialen

Steel EC3

Naam	ρ [kg/m³]	E_{mod} [MPa]	μ [-]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Kleur
		G_{mod} [MPa]	α [m/mK]					
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	
S 235	6850,00	2,1000e+05	0,30	0,00	40,00	235,0	360,0	
		8,0769e+04	0,01e-003	40,00	80,00	215,0	360,0	

Naam	Type	ρ [kg/m³]	Dichtheid in natte toestand [kg/m³]	E_{mod} [MPa]	μ [-]	α [m/mK]	$f_{c.k.28}$ [MPa]	Kleur
C12/15 Gescheurd	Beton	2500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	
C30/37 Gescheurd	Beton	2500,00	2600,00	1,1000e+04	0,20	0,01e-003	30,00	
C30/37	Beton	1500,00	2600,00	1,0900e+04	0,20	0,01e-003	30,00	
C12/15 Gescheurd	Beton	1500,00	2600,00	7,0000e+03	0,20	0,01e-003	12,00	

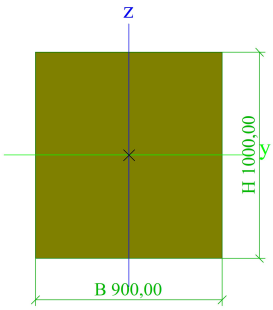
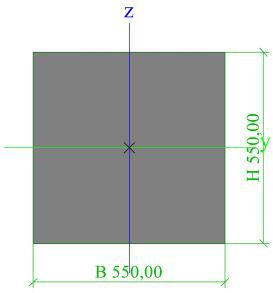
Verklaring van symbolen	
Dichtheid in natte toestand	De waarde van de dichtheid van het kenmerk nieuwe toestand wordt alleen gebruikt als een samengesteld dek wordt ingevoerd en rekening wordt gehouden met de belasting van het eigen gewicht.

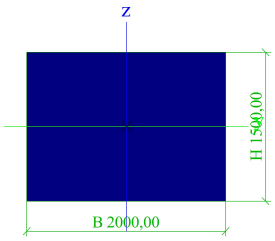
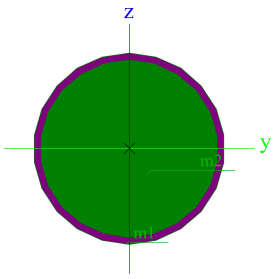
Wapening EC2

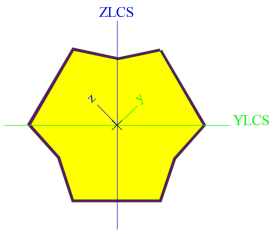
Naam	Type	ρ [kg/m³]	E_{mod} [MPa]	G_{mod} [MPa]	α [m/mK]	$f_{y.k}$ [MPa]
B 400A	Betonstaal	7850,00	2,0000e+05	8,3333e+04	0,01e-003	400,0

4.2. Doorsneden

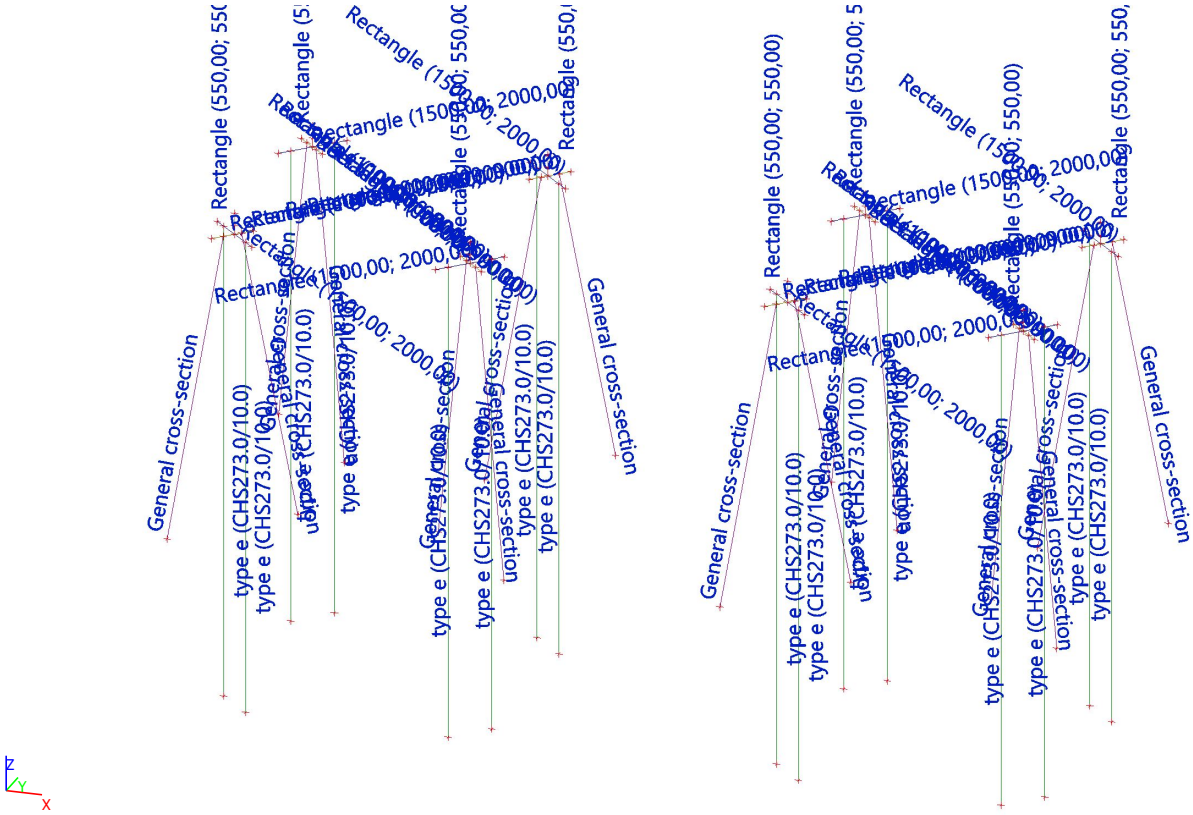
Balk		
Type	Rectangle	
Gedetailleerd	1000,00; 900,00	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C12/15 Gescheurd	
Bouwwijze	beton	
Kleur		
A [mm²]	9,0000e+05	
A_y [mm²], A_z [mm²]	7,5031e+05	7,5025e+05
A_L [m²/m], A_D [m²/m]	3,8000e+00	3,8000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	450,00	500,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	7,5000e+10	6,0750e+10
i_y [mm], i_z [mm]	288,68	259,81
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	1,5000e+08	1,3500e+08
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	1,1333e+11	1,5185e+14
β_y [mm], β_z [mm]	0,00	0,00

Afbeelding		
Poer		
Type	Rectangle	
Gedetailleerd	550,00; 550,00	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C12/15 Gescheurd	
Bouwwijze	beton	
Kleur		
A [mm²]	3,0250e+05	
A_y [mm²], A_z [mm²]	2,5218e+05	2,5218e+05
A_L [m²/m], A_D [m²/m]	2,2000e+00	2,2000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	275,00	275,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	7,6255e+09	7,6255e+09
i_y [mm], i_z [mm]	158,77	158,77
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	2,7729e+07	2,7729e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	1,2869e+10	3,7254e+12
β_y [mm], β_z [mm]	0,00	0,00
Afbeelding		
lijnpoer		
Type	Rectangle	
Gedetailleerd	1500,00; 2000,00	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C30/37 Gescheurd	
Bouwwijze	beton	
Kleur		
A [mm²]	3,0000e+06	
A_y [mm²], A_z [mm²]	2,5006e+06	2,5010e+06
A_L [m²/m], A_D [m²/m]	7,0000e+00	7,0000e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	1000,00	750,00
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	5,6250e+11	1,0000e+12
i_y [mm], i_z [mm]	433,01	577,35
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	7,5000e+08	1,0000e+09
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	0,0000e+00	0,0000e+00
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	0,00	0,00
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	0,00	0,00

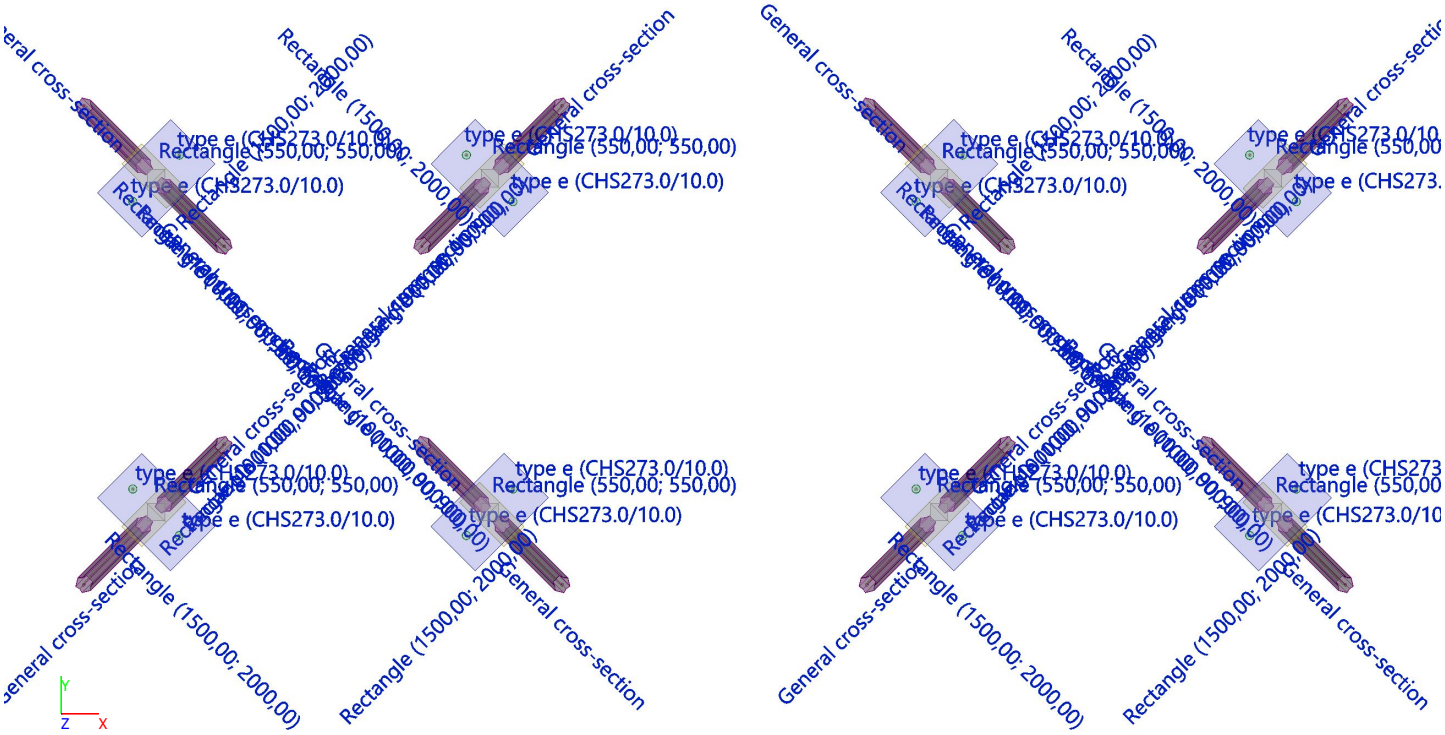
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	1,2185e+12	1,7790e+16
β_y [mm], β_z [mm]	0,00	0,00
Afbeelding		
LEKA Paal		
Type	type e	
Gedetailleerd	CHS273.0/10.0	
Vorm type	Dikke wanden	
Onderdeelmateriaal	S 235	
	C30/37	
Bouwwijze	beton	
Knik y-y, Knik z-z	a	a
A [mm²]	1,0870e+04	
A_y [mm²], A_z [mm²]	7,0765e+03	7,0765e+03
A_L [m²/m], A_D [m²/m]	8,5761e-01	8,5761e-01
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	136,50	136,50
α [deg]	0,00	
I_y [mm⁴], I_z [mm⁴]	8,1947e+07	8,1947e+07
i_y [mm], i_z [mm]	86,83	86,83
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	6,0034e+05	6,0034e+05
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	7,9291e+05	7,9291e+05
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$ [Nmm]	186333077,05	186333077,05
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	186333077,05	186333077,05
d_y [mm], d_z [mm]	0,00	0,00
I_t [mm⁴], I_w [mm⁶]	1,6563e+08	0,0000e+00
β_y [mm], β_z [mm]	0,00	0,00
Afbeelding		
LD1(31-plank)		
Type	General cross-section	
Vorm type	Dikke wanden	
Onderdeelmateriaal	C12/15 Gescheurd	
	S 235	
Bouwwijze	beton	
Knik y-y, Knik z-z	d	d
A [mm²]	6,0572e+05	
A_y [mm²], A_z [mm²]	3,6248e+05	3,6314e+05
A_L [m²/m], A_D [m²/m]	1,7651e+00	3,4664e+00
$c_{Y.UCS}$ [mm], $c_{Z.UCS}$ [mm]	553,25	9,99
$I_{Y.LCS}$ [mm⁴], $I_{Z.LCS}$ [mm⁴]	1,6274e+10	1,6264e+10
$I_{YZ.LCS}$ [mm⁴]	-1,0231e+08	
α [deg]	43,55	
I_y [mm⁴], I_z [mm⁴]	1,6372e+10	1,6167e+10
i_y [mm], i_z [mm]	164,40	163,37
$W_{el.y}$ [mm³], $W_{el.z}$ [mm³]	5,7898e+07	5,8163e+07
$W_{pl.y}$ [mm³], $W_{pl.z}$ [mm³]	4,9594e+07	4,9245e+07
$M_{pl.y.+}$ [Nmm], $M_{pl.y.-}$	601215312,58	595125922,92

[Nmm]		
$M_{pl.z.+}$ [Nmm], $M_{pl.z.-}$ [Nmm]	597037111,16	590937542,96
d_y [mm], d_z [mm]	0,12	0,03
I_t [mm^4], I_w [mm^6]	2,6243e+10	1,7700e+12
β_y [mm], β_z [mm]	0,09	0,21
Afbeelding		

4.3. Analyse model met doorsneden



4.4. Analyse model met doorsneden



4.5. Instellingen net

Naam	MeshSetup1
Generatie van variabele excentriciteiten op elementen in plaats van constante excentriciteiten	×
Generatie van knopen op staven	×
Elastisch net	✓
Pas automatische netverfijning toe	×
Constructie-entiteiten verbinden	✓
Verdeling op consoles en variabele staven	5
Verdeling voor integratiestrook en 2D-1D upgrade	50
Gemiddeld aantal 1D-netelementen op rechte 1D-elementen	1
Gemiddelde grootte van 2D-netelement [m]	0,200
Gemiddelde grootte van 1D-element op gebogen 1D-elementen [m]	0,100
Minimum lengte van staafelement [m]	0,100
Maximum lengte van staafelement [m]	1000,000
Gemiddelde grootte van voorspankabels, elementen op elastische bedding, niet-lineaire grondveer [m]	1,000
Maximale hoek uit het vlak van vierhoekig element [mrad]	30,0
Minimale afstand tussen definitiepunt en -lijn [m]	0,001
Gemiddelde afmeting van paneelelement [m]	1,000
Netverfijning volgens het liggertype	Geen
Definitie van netelementen afmetingen voor panelen	Handmatig

5. Geometrie

5.1. Knopen

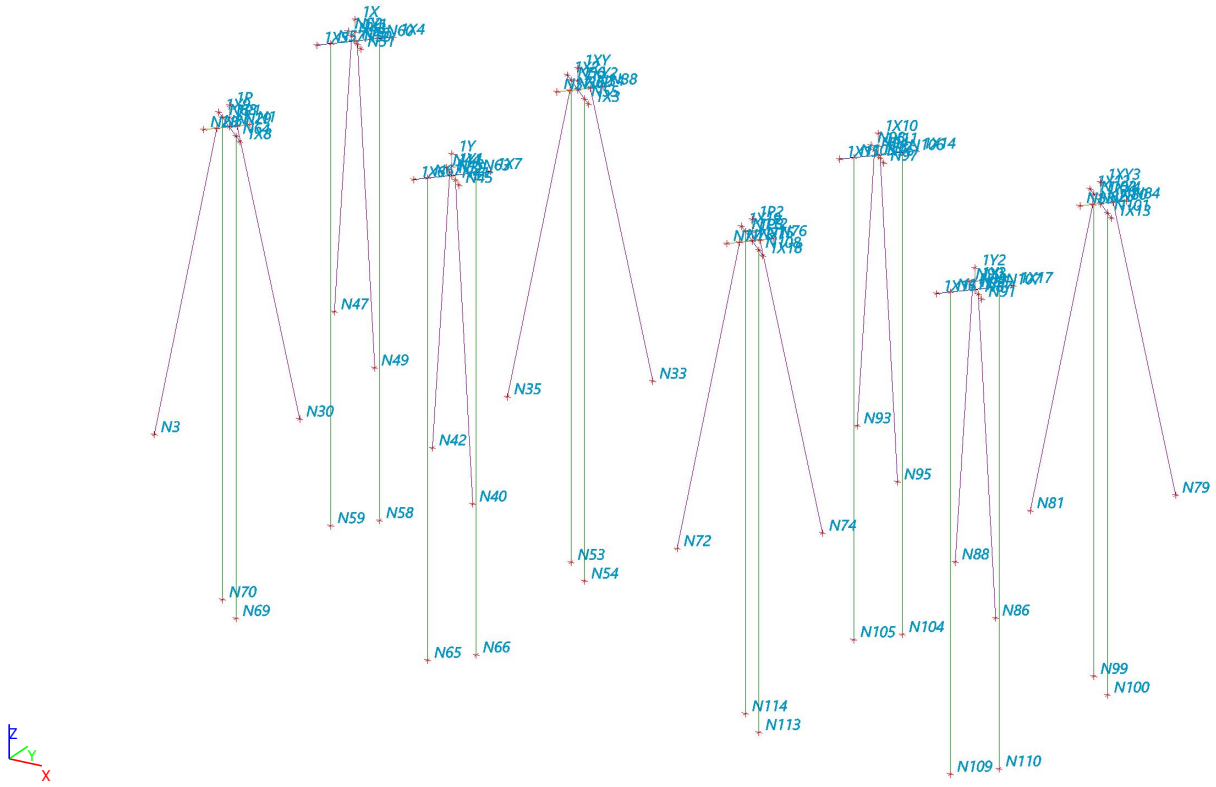
Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N	0,000	0,000	0,000
N3	-2,291	-2,291	-13,500
N31	-0,382	-0,382	0,000
N30	2,150	2,150	-13,500
N29	0,240	0,240	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N1	0,636	0,636	0,000
N28	-0,778	-0,778	0,000
1P	0,000	0,000	0,970
1P1	0,000	0,000	0,400
N32	10,646	10,646	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N33	12,937	12,937	-13,500
N34	11,028	11,028	0,000
N35	8,496	8,496	-13,500
N36	10,406	10,406	0,000
N37	10,010	10,010	0,000
N38	11,424	11,424	0,000
1XY	10,646	10,646	0,970
1XY2	10,646	10,646	0,400
N39	10,646	0,000	0,000
N40	12,937	-2,291	-13,500
N41	11,028	-0,382	0,000
N42	8,496	2,150	-13,500
N43	10,406	0,240	0,000
N44	10,010	0,636	0,000
N45	11,424	-0,778	0,000
1Y	10,646	0,000	0,970
1Y1	10,646	0,000	0,400
N46	0,000	10,646	0,000
N47	-2,291	12,937	-13,500
N48	-0,382	11,028	0,000
N49	2,150	8,496	-13,500
N50	0,240	10,406	0,000
N51	0,636	10,010	0,000
N52	-0,778	11,424	0,000
1X	0,000	10,646	0,970
1X1	0,000	10,646	0,400
1X2	9,479	11,813	0,000
1X3	11,813	9,479	0,000
N53	9,904	11,388	-21,720
N54	11,388	9,904	-21,720
N55	11,388	9,904	0,000
N56	9,904	11,388	0,000
N57	-0,742	9,904	0,000
1X4	1,167	11,813	0,000
1X5	-1,167	9,479	0,000
N58	0,742	11,388	-21,720
N59	-0,742	9,904	-21,720
N60	0,742	11,388	0,000
N63	11,388	0,742	0,000
N64	0,742	-0,742	0,000
1X6	9,479	-1,167	0,000
1X7	11,813	1,167	0,000
N65	9,904	-0,742	-21,720
N66	11,388	0,742	-21,720
N67	9,904	-0,742	0,000
N68	-0,742	0,742	0,000
1X8	1,167	-1,167	0,000
1X9	-1,167	1,167	0,000
N69	0,742	-0,742	-21,720
N70	-0,742	0,742	-21,720
N71	25,000	0,000	0,000
N72	22,709	-2,291	-13,500
N73	24,618	-0,382	0,000
N74	27,150	2,150	-13,500
N75	25,240	0,240	0,000

Naam	Coördinaat X [m]	Coördinaat Y [m]	Coördinaat Z [m]
N76	25,636	0,636	0,000
N77	24,222	-0,778	0,000
1P2	25,000	0,000	0,970
1P3	25,000	0,000	0,400
N78	35,646	10,646	0,000
N79	37,937	12,937	-13,500
N80	36,028	11,028	0,000
N81	33,496	8,496	-13,500
N82	35,406	10,406	0,000
N83	35,010	10,010	0,000
N84	36,424	11,424	0,000
1XY3	35,646	10,646	0,970
1XY4	35,646	10,646	0,400
N85	35,646	0,000	0,000
N86	37,937	-2,291	-13,500
N87	36,028	-0,382	0,000
N88	33,496	2,150	-13,500
N89	35,406	0,240	0,000
N90	35,010	0,636	0,000
N91	36,424	-0,778	0,000
1Y2	35,646	0,000	0,970
1Y3	35,646	0,000	0,400
N92	25,000	10,646	0,000
N93	22,709	12,937	-13,500
N94	24,618	11,028	0,000
N95	27,150	8,496	-13,500
N96	25,240	10,406	0,000
N97	25,636	10,010	0,000
N98	24,222	11,424	0,000
1X10	25,000	10,646	0,970
1X11	25,000	10,646	0,400
1X12	34,479	11,813	0,000
1X13	36,813	9,479	0,000
N99	34,904	11,388	-21,720
N100	36,388	9,904	-21,720
N101	36,388	9,904	0,000
N102	34,904	11,388	0,000
N103	24,258	9,904	0,000
1X14	26,167	11,813	0,000
1X15	23,833	9,479	0,000
N104	25,742	11,388	-21,720
N105	24,258	9,904	-21,720
N106	25,742	11,388	0,000
N107	36,388	0,742	0,000
N108	25,742	-0,742	0,000
1X16	34,479	-1,167	0,000
1X17	36,813	1,167	0,000
N109	34,904	-0,742	-21,720
N110	36,388	0,742	-21,720
N111	34,904	-0,742	0,000
N112	24,258	0,742	0,000
1X18	26,167	-1,167	0,000
1X19	23,833	1,167	0,000
N113	25,742	-0,742	-21,720
N114	24,258	0,742	-21,720

5.2. Analyse model met knopen

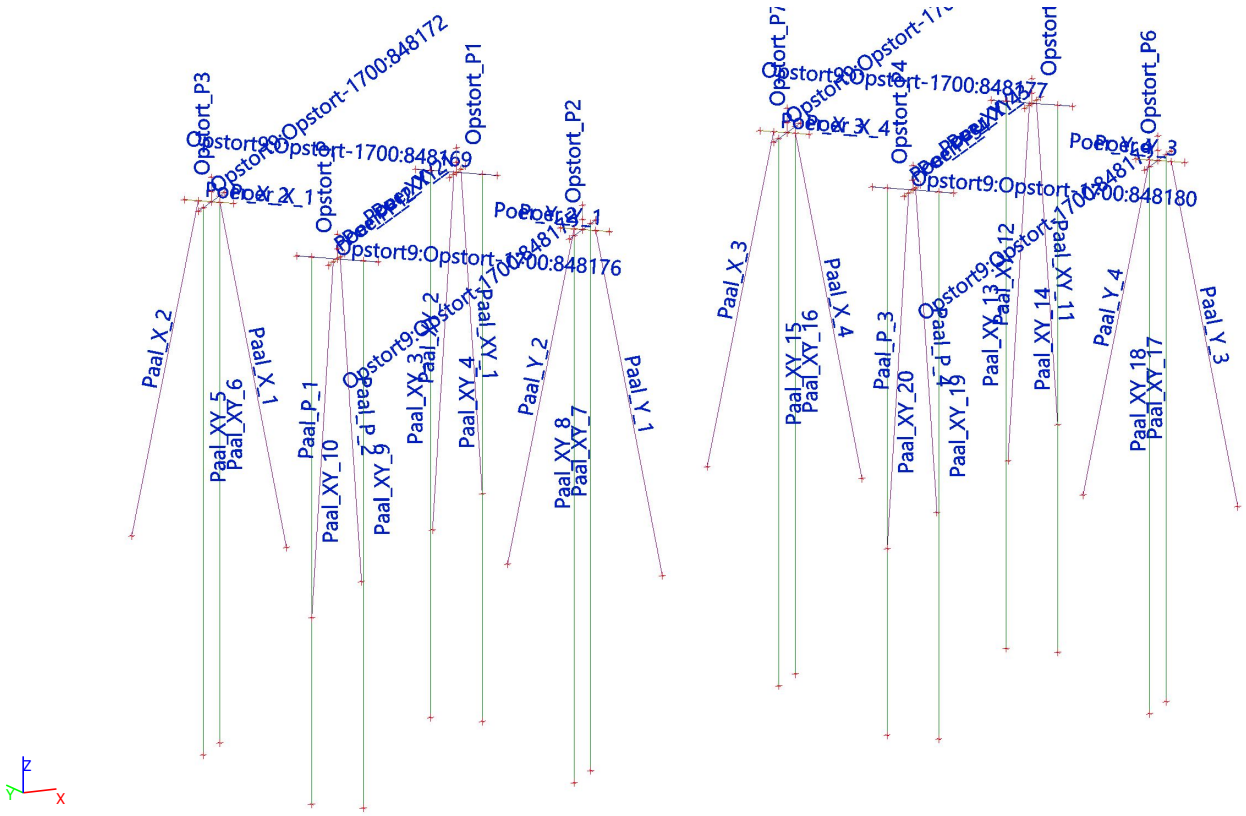


5.3. Staven

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Opstort9:Opstort-1700:848169	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X3	1X2	Balk (80)
Opstort9:Opstort-1700:848172	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X5	1X4	Balk (80)
Poer_P_1	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N28	N	Balk (80)
Opstort9:Opstort-1700:848176	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X9	1X8	Balk (80)
Opstort9:Opstort-1700:848177	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X13	1X12	Balk (80)
Opstort9:Opstort-1700:848178	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X15	1X14	Balk (80)
Poer_P_2	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N	N1	Balk (80)
Poer_P_3	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N77	N71	Balk (80)
Poer_P_4	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N71	N76	Balk (80)
Poer_XY_1	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N38	N32	Balk (80)
Poer_XY_2	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N32	N37	Balk (80)
Poer_XY_3	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N84	N78	Balk (80)
Poer_XY_4	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N78	N83	Balk (80)
Poer_X_1	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N46	N51	Balk (80)
Poer_X_2	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N52	N46	Balk (80)
Poer_X_3	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N98	N92	Balk (80)
Poer_X_4	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N92	N97	Balk (80)
Poer_Y_1	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N45	N39	Balk (80)
Opstort9:Opstort-1700:848175	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X7	1X6	Balk (80)
Opstort9:Opstort-1700:848179	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X17	1X16	Balk (80)
Poer_Y_2	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N39	N44	Balk (80)
Poer_Y_3	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	1,100	N91	N85	Balk (80)
Poer_Y_4	Balk - Rectangle (1000,00; 900,00)	C12/15 Gescheurd	0,900	N85	N90	Balk (80)
Opstort9:Opstort-1700:848180	lijnpoer - Rectangle (1500,00; 2000,00)	C30/37 Gescheurd	3,300	1X19	1X18	Balk (80)
Opstort_P	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1P1	1P	Kolom (100)
Opstort_P1	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1XY2	1XY	Kolom (100)
Opstort_P2	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1Y1	1Y	Kolom (100)
Opstort_P3	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1X1	1X	Kolom (100)
Opstort_P4	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1P3	1P2	Kolom (100)

Naam	Doorsnede	Materiaal	Lengte [m]	Beginknoop	Eindknoop	Type
Opstort_P5	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1XY4	1XY3	Kolom (100)
Opstort_P6	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1Y3	1Y2	Kolom (100)
Opstort_P7	Poer - Rectangle (550,00; 550,00)	C12/15 Gescheurd	0,570	1X11	1X10	Kolom (100)
Paal_P_1	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N31	N3	Kolom (100)
Paal_P_2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N29	N30	Kolom (100)
Paal_P_3	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N73	N72	Kolom (100)
Paal_P_4	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N75	N74	Kolom (100)
Paal_XY_1	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N34	N33	Kolom (100)
Paal_XY_2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N36	N35	Kolom (100)
Paal_XY_3	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N56	N53	Kolom (100)
Paal_XY_4	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N55	N54	Kolom (100)
Paal_XY_5	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N57	N59	Kolom (100)
Paal_XY_6	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N60	N58	Kolom (100)
Paal_XY_7	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N63	N66	Kolom (100)
Paal_XY_8	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N67	N65	Kolom (100)
Paal_XY_9	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N64	N69	Kolom (100)
Paal_XY_10	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N68	N70	Kolom (100)
Paal_XY_11	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N80	N79	Kolom (100)
Paal_XY_12	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N82	N81	Kolom (100)
Paal_XY_13	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N102	N99	Kolom (100)
Paal_XY_14	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N101	N100	Kolom (100)
Paal_XY_15	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N103	N105	Kolom (100)
Paal_XY_16	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N106	N104	Kolom (100)
Paal_XY_17	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N107	N110	Kolom (100)
Paal_XY_18	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N111	N109	Kolom (100)
Paal_XY_19	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N108	N113	Kolom (100)
Paal_XY_20	LEKA Paal - type e (CHS273.0/10.0)	S 235	21,720	N112	N114	Kolom (100)
Paal_X_1	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N50	N49	Kolom (100)
Paal_X_2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N48	N47	Kolom (100)
Paal_X_3	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N94	N93	Kolom (100)
Paal_X_4	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N96	N95	Kolom (100)
Paal_Y_1	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N41	N40	Kolom (100)
Paal_Y_2	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N43	N42	Kolom (100)
Paal_Y_3	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N87	N86	Kolom (100)
Paal_Y_4	LD1(31-plank) - General cross-section	C12/15 Gescheurd	13,767	N89	N88	Kolom (100)

5.4. Analyse model met Staven

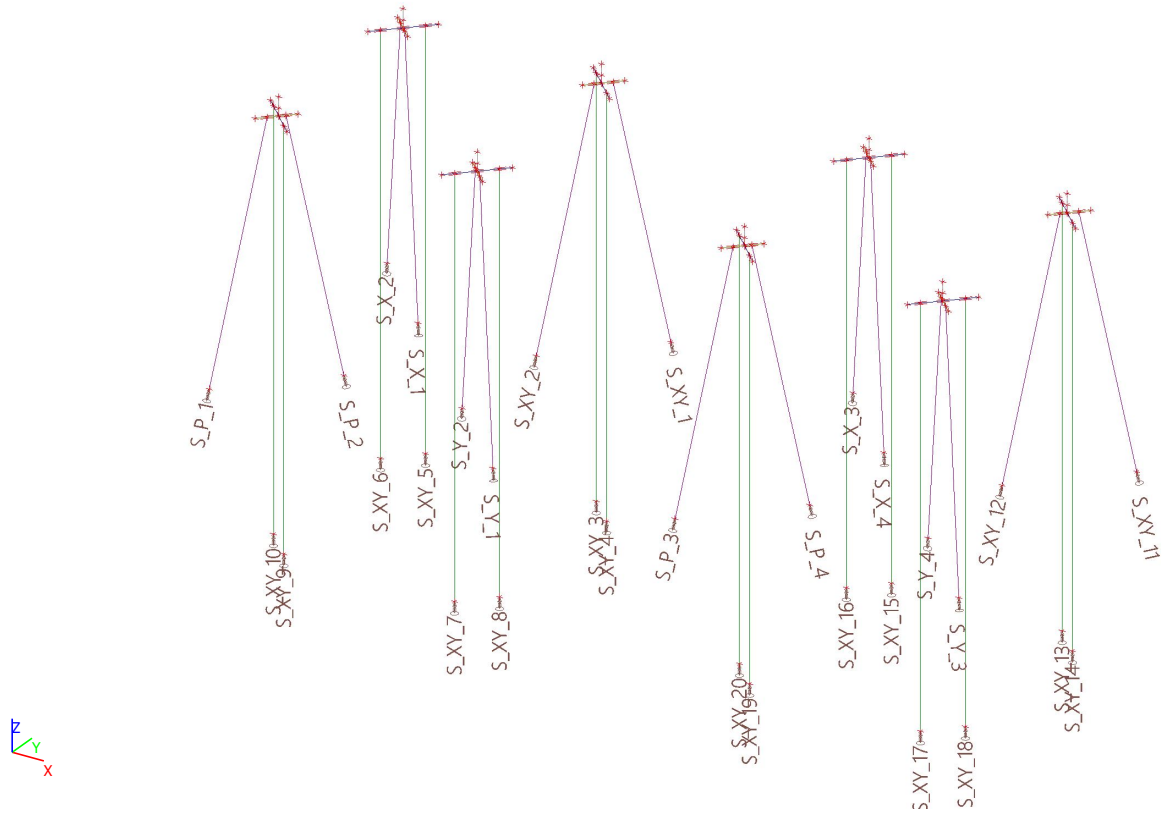


5.5. Knoopsteunpunten

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
S_P_1	N3	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx-8,00
S_P_2	N30	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx8,00
S_XY_1	N33	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx8,00
S_XY_2	N35	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx-8,00
S_Y_1	N40	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx-8,00
S_Y_2	N42	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx8,00
S_X_2	N47	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx8,00
S_X_1	N49	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx-8,00
S_XY_3	N53	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_4	N54	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_5	N58	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_6	N59	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_7	N65	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_8	N66	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_9	N69	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_10	N70	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_P_3	N72	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx-8,00
S_P_4	N74	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx8,00
S_XY_11	N79	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx8,00
S_XY_12	N81	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx-8,00
S_Y_3	N86	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx-8,00
S_Y_4	N88	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx8,00
S_X_3	N93	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry8,00;Rx8,00
S_X_4	N95	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	Ry-8,00;Rx-8,00
S_XY_13	N99	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_14	N100	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_15	N104	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_16	N105	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_17	N109	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_18	N110	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	

Naam	Knoop	Systeem	Type	X	Y	Z	Rx	Ry	Rz	Hoek [deg]
S_XY_19	N113	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	
S_XY_20	N114	LCS van knoop	Standaard	Vrij	Vrij	Niet-lineair	Vrij	Vrij	Vrij	

5.6. Analyse model met Knoopondersteuningen



5.7. Lijnsteunpunten op staven

Naam	Type	Staaf	Pos x_1 [m] / Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
Veen6	Lijn	Paal_XY_9	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen	Lijn	Paal_XY_3	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen30	Lijn	Paal_X_3	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen16	Lijn	Paal_P_1	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen9	Lijn	Paal_XY_14	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen10	Lijn	Paal_XY_15	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen2	Lijn	Paal_XY_5	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen27	Lijn	Paal_XY_12	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen8	Lijn	Paal_XY_13	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen23	Lijn	Paal_X_1	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen11	Lijn	Paal_XY_16	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen26	Lijn	Paal_XY_11	1,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			8,000								
Veen7	Lijn	Paal_XY_10	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen13	Lijn	Paal_XY_18	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen18	Lijn	Paal_XY_1	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen28	Lijn	Paal_Y_3	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen29	Lijn	Paal_Y_4	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen21	Lijn	Paal_Y_2	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen19	Lijn	Paal_XY_2	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen25	Lijn	Paal_P_4	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen12	Lijn	Paal_XY_17	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen3	Lijn	Paal_XY_6	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen17	Lijn	Paal_P_2	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen5	Lijn	Paal_XY_8	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen20	Lijn	Paal_Y_1	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen31	Lijn	Paal_X_4	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen14	Lijn	Paal_XY_19	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen1	Lijn	Paal_XY_4	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen22	Lijn	Paal_X_2	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen15	Lijn	Paal_XY_20	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
Veen24	Lijn	Paal_P_3	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen	PY-curve-2_Veen
Veen4	Lijn	Paal_XY_7	1,000 8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_Veen.B	PY-curve-1_Veen
(PY-curve-2_V1)8	Lijn	Paal_XY_6	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)25	Lijn	Paal_Y_1	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)16	Lijn	Paal_XY_16	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)11	Lijn	Paal_XY_9	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)18	Lijn	Paal_XY_18	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)29	Lijn	Paal_P_3	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)17	Lijn	Paal_XY_17	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)5	Lijn	Paal_XY_3	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)4	Lijn	Paal_X_4	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)19	Lijn	Paal_XY_19	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)15	Lijn	Paal_XY_15	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)6	Lijn	Paal_XY_4	8,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			9,000								
(PY-curve-2_V1)13	Lijn	Paal_XY_13	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)28	Lijn	Paal_X_1	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)31	Lijn	Paal_XY_11	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)27	Lijn	Paal_X_2	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)26	Lijn	Paal_Y_2	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)1	Lijn	Paal_Y_3	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)24	Lijn	Paal_XY_2	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)14	Lijn	Paal_XY_14	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)3	Lijn	Paal_X_3	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)2	Lijn	Paal_Y_4	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)7	Lijn	Paal_XY_5	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)10	Lijn	Paal_XY_8	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)12	Lijn	Paal_XY_10	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)	Lijn	Paal_XY_12	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)9	Lijn	Paal_XY_7	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)23	Lijn	Paal_XY_1	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)30	Lijn	Paal_P_4	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)20	Lijn	Paal_XY_20	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1.B	PY-curve-2_V1.B
(PY-curve-2_V1)21	Lijn	Paal_P_1	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V1)22	Lijn	Paal_P_2	8,000 9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V1	PY-curve-2_V1
(PY-curve-2_V2)28	Lijn	Paal_Y_1	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)12	Lijn	Paal_XY_8	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)23	Lijn	Paal_XY_20	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)14	Lijn	Paal_XY_10	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)2	Lijn	Paal_P_2	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)22	Lijn	Paal_XY_19	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)	Lijn	Paal_P_1	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)20	Lijn	Paal_XY_17	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)24	Lijn	Paal_X_1	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)10	Lijn	Paal_XY_6	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)25	Lijn	Paal_X_4	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)18	Lijn	Paal_XY_15	9,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			10,000								
(PY-curve-2_V2)21	Lijn	Paal_XY_18	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)6	Lijn	Paal_XY_2	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)31	Lijn	Paal_Y_4	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)17	Lijn	Paal_XY_14	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)26	Lijn	Paal_X_2	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)7	Lijn	Paal_XY_3	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)16	Lijn	Paal_XY_13	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)11	Lijn	Paal_XY_7	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)27	Lijn	Paal_X_3	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)19	Lijn	Paal_XY_16	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)30	Lijn	Paal_Y_2	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)9	Lijn	Paal_XY_5	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)29	Lijn	Paal_Y_3	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)15	Lijn	Paal_XY_12	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)1	Lijn	Paal_P_3	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)5	Lijn	Paal_XY_11	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)8	Lijn	Paal_XY_4	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)13	Lijn	Paal_XY_9	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2.B	PY-curve-2_V2.B
(PY-curve-2_V2)3	Lijn	Paal_P_4	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V2)4	Lijn	Paal_XY_1	9,000 10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V2	PY-curve-2_V2
(PY-curve-2_V3)1	Lijn	Paal_P_3	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)22	Lijn	Paal_XY_19	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)7	Lijn	Paal_XY_3	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)14	Lijn	Paal_XY_10	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)19	Lijn	Paal_XY_16	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)13	Lijn	Paal_XY_9	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)21	Lijn	Paal_XY_18	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)24	Lijn	Paal_X_1	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)20	Lijn	Paal_XY_17	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)6	Lijn	Paal_XY_2	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)12	Lijn	Paal_XY_8	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)23	Lijn	Paal_XY_20	10,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			11,000								
(PY-curve-2_V3)18	Lijn	Paal_XY_15	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)11	Lijn	Paal_XY_7	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)16	Lijn	Paal_XY_13	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)26	Lijn	Paal_X_2	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)25	Lijn	Paal_X_4	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)10	Lijn	Paal_XY_6	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)27	Lijn	Paal_X_3	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)31	Lijn	Paal_Y_4	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)9	Lijn	Paal_XY_5	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)29	Lijn	Paal_Y_3	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)30	Lijn	Paal_Y_2	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)4	Lijn	Paal_XY_1	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)15	Lijn	Paal_XY_12	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)5	Lijn	Paal_XY_11	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)2	Lijn	Paal_P_2	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)8	Lijn	Paal_XY_4	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)	Lijn	Paal_P_1	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)17	Lijn	Paal_XY_14	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3.B	PY-curve-2_V3.B
(PY-curve-2_V3)3	Lijn	Paal_P_4	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V3)28	Lijn	Paal_Y_1	10,000 11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V3	PY-curve-2_V3
(PY-curve-2_V4)1	Lijn	Paal_P_3	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)7	Lijn	Paal_XY_3	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)14	Lijn	Paal_XY_10	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)22	Lijn	Paal_XY_19	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)13	Lijn	Paal_XY_9	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)24	Lijn	Paal_X_1	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)20	Lijn	Paal_XY_17	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)6	Lijn	Paal_XY_2	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)19	Lijn	Paal_XY_16	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)12	Lijn	Paal_XY_8	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)18	Lijn	Paal_XY_15	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)17	Lijn	Paal_XY_14	11,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			12,000								
(PY-curve-2_V4)11	Lijn	Paal_XY_7	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)16	Lijn	Paal_XY_13	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)25	Lijn	Paal_X_4	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)10	Lijn	Paal_XY_6	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)21	Lijn	Paal_XY_18	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)27	Lijn	Paal_X_3	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)30	Lijn	Paal_Y_2	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)2	Lijn	Paal_P_2	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)31	Lijn	Paal_Y_4	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)26	Lijn	Paal_X_2	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)4	Lijn	Paal_XY_1	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)9	Lijn	Paal_XY_5	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)29	Lijn	Paal_Y_3	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)23	Lijn	Paal_XY_20	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)	Lijn	Paal_P_1	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)15	Lijn	Paal_XY_12	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)5	Lijn	Paal_XY_11	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)8	Lijn	Paal_XY_4	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4.B	PY-curve-2_V4.B
(PY-curve-2_V4)28	Lijn	Paal_Y_1	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V4)3	Lijn	Paal_P_4	11,000 12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V4	PY-curve-2_V4
(PY-curve-2_V5)7	Lijn	Paal_XY_3	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)1	Lijn	Paal_P_3	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)14	Lijn	Paal_XY_10	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)22	Lijn	Paal_XY_19	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)21	Lijn	Paal_XY_18	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)13	Lijn	Paal_XY_9	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)6	Lijn	Paal_XY_2	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)20	Lijn	Paal_XY_17	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)19	Lijn	Paal_XY_16	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)12	Lijn	Paal_XY_8	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)18	Lijn	Paal_XY_15	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)2	Lijn	Paal_P_2	12,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5

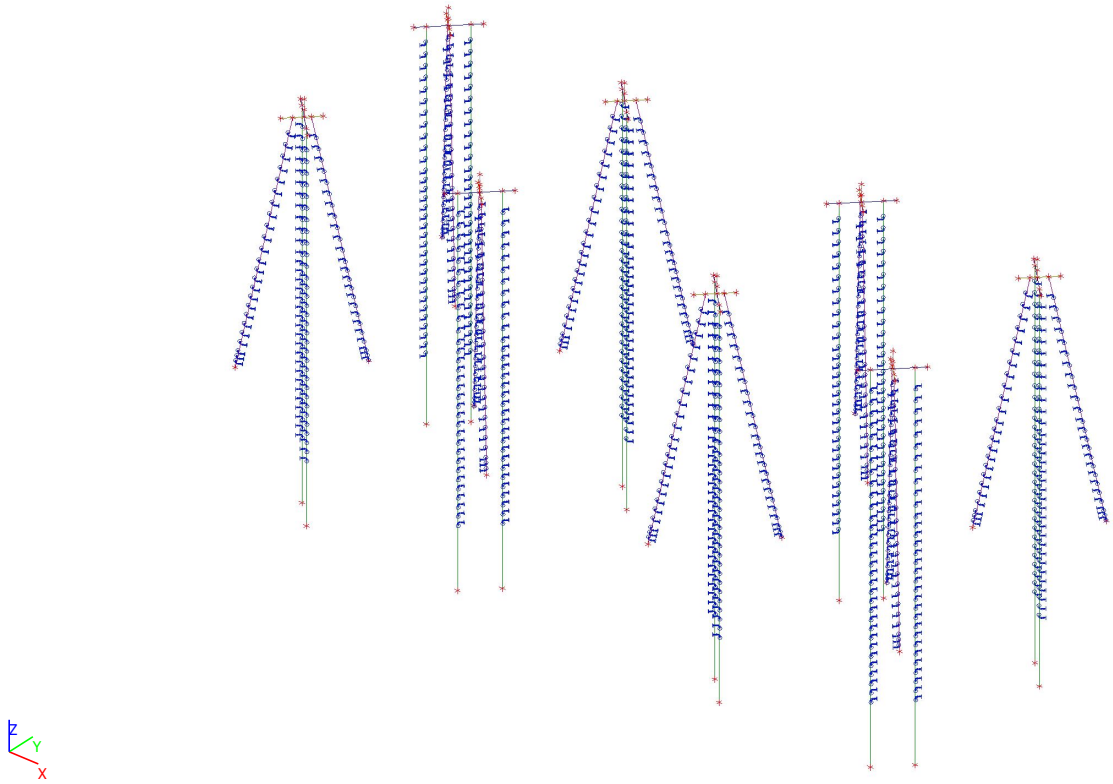
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			13,000								
(PY-curve-2_V5)26	Lijn	Paal_X_2	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)24	Lijn	Paal_X_1	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)17	Lijn	Paal_XY_14	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)11	Lijn	Paal_XY_7	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)	Lijn	Paal_P_1	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)16	Lijn	Paal_XY_13	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)25	Lijn	Paal_X_4	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)10	Lijn	Paal_XY_6	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)27	Lijn	Paal_X_3	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)30	Lijn	Paal_Y_2	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)23	Lijn	Paal_XY_20	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)4	Lijn	Paal_XY_1	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)31	Lijn	Paal_Y_4	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)9	Lijn	Paal_XY_5	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)29	Lijn	Paal_Y_3	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)15	Lijn	Paal_XY_12	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)5	Lijn	Paal_XY_11	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)8	Lijn	Paal_XY_4	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5.B	PY-curve-2_V5.B
(PY-curve-2_V5)28	Lijn	Paal_Y_1	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V5)3	Lijn	Paal_P_4	12,000 13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V5	PY-curve-2_V5
(PY-curve-2_V6)1	Lijn	Paal_P_3	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)2	Lijn	Paal_P_2	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)6	Lijn	Paal_XY_2	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)24	Lijn	Paal_X_1	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)	Lijn	Paal_P_1	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)26	Lijn	Paal_X_2	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)25	Lijn	Paal_X_4	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)4	Lijn	Paal_XY_1	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)30	Lijn	Paal_Y_2	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)27	Lijn	Paal_X_3	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)31	Lijn	Paal_Y_4	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)29	Lijn	Paal_Y_3	13,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			13,550								
(PY-curve-2_V6)15	Lijn	Paal_XY_12	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)5	Lijn	Paal_XY_11	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)28	Lijn	Paal_Y_1	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)3	Lijn	Paal_P_4	13,000 13,550	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6	PY-curve-2_V6
(PY-curve-2_V6)7	Lijn	Paal_XY_3	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)14	Lijn	Paal_XY_10	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)23	Lijn	Paal_XY_20	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)22	Lijn	Paal_XY_19	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)13	Lijn	Paal_XY_9	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)21	Lijn	Paal_XY_18	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)20	Lijn	Paal_XY_17	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)12	Lijn	Paal_XY_8	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)19	Lijn	Paal_XY_16	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)18	Lijn	Paal_XY_15	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)11	Lijn	Paal_XY_7	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)17	Lijn	Paal_XY_14	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)16	Lijn	Paal_XY_13	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)10	Lijn	Paal_XY_6	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)9	Lijn	Paal_XY_5	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V6)8	Lijn	Paal_XY_4	13,000 14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V6.B	PY-curve-2_V6.B
(PY-curve-2_V7)14	Lijn	Paal_XY_10	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)23	Lijn	Paal_XY_20	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)22	Lijn	Paal_XY_19	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)13	Lijn	Paal_XY_9	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)21	Lijn	Paal_XY_18	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)20	Lijn	Paal_XY_17	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)12	Lijn	Paal_XY_8	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)19	Lijn	Paal_XY_16	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)18	Lijn	Paal_XY_15	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)11	Lijn	Paal_XY_7	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)17	Lijn	Paal_XY_14	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)16	Lijn	Paal_XY_13	14,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B

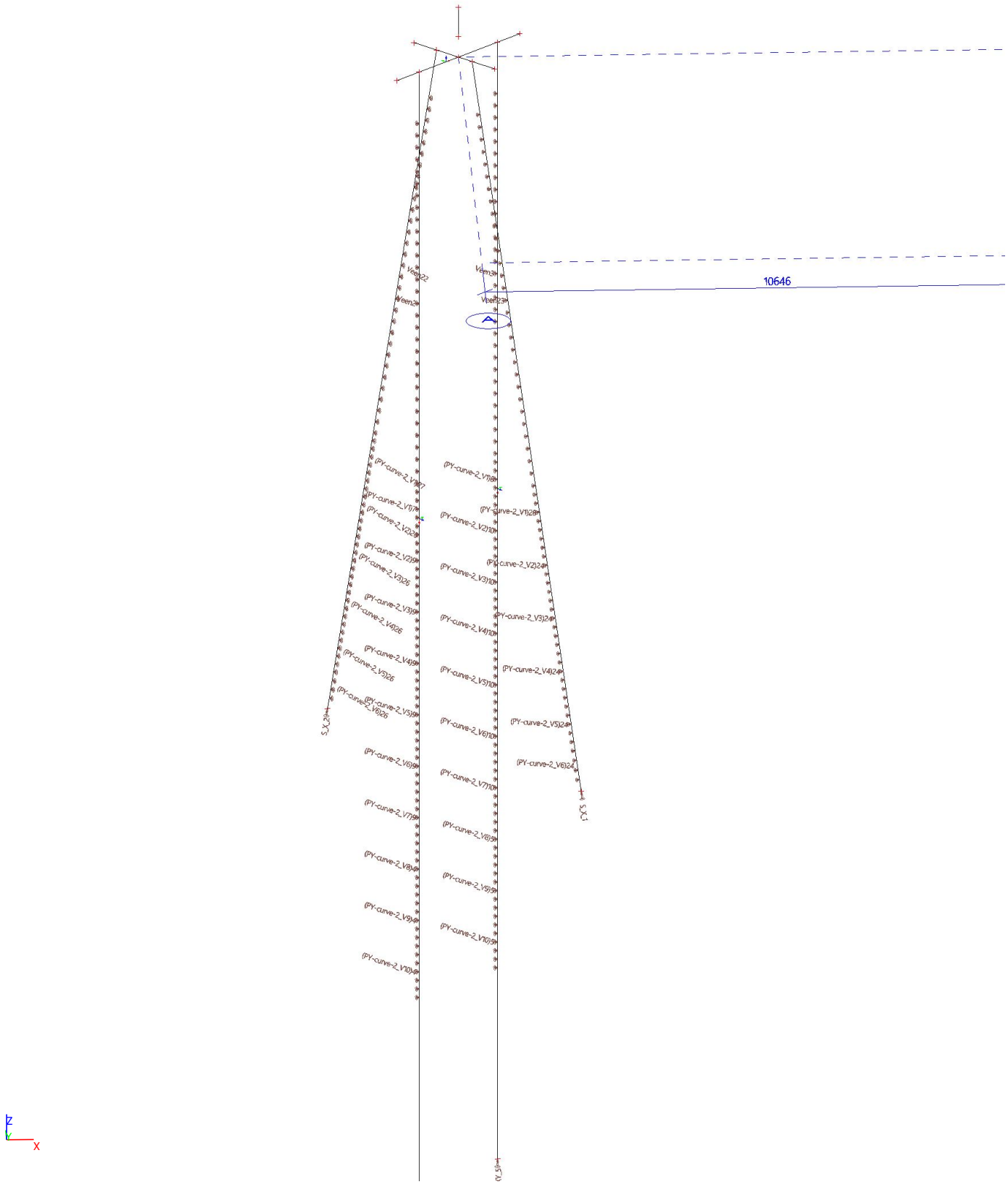
Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			15,000								
(PY-curve-2_V7)10	Lijn	Paal_XY_6	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)9	Lijn	Paal_XY_5	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)8	Lijn	Paal_XY_4	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V7)7	Lijn	Paal_XY_3	14,000 15,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V7.B	PY-curve-2_V7.B
(PY-curve-2_V8)13	Lijn	Paal_XY_18	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)12	Lijn	Paal_XY_16	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)11	Lijn	Paal_XY_15	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)10	Lijn	Paal_XY_13	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)9	Lijn	Paal_XY_10	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)8	Lijn	Paal_XY_9	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)7	Lijn	Paal_XY_8	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)14	Lijn	Paal_XY_19	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)6	Lijn	Paal_XY_7	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)5	Lijn	Paal_XY_6	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)4	Lijn	Paal_XY_5	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)3	Lijn	Paal_XY_4	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)2	Lijn	Paal_XY_3	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)1	Lijn	Paal_XY_17	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)	Lijn	Paal_XY_14	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V8)15	Lijn	Paal_XY_20	15,000 16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V8.B	PY-curve-2_V8.B
(PY-curve-2_V9)15	Lijn	Paal_XY_20	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)13	Lijn	Paal_XY_18	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)12	Lijn	Paal_XY_16	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)11	Lijn	Paal_XY_15	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)10	Lijn	Paal_XY_13	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)9	Lijn	Paal_XY_10	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)8	Lijn	Paal_XY_9	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)7	Lijn	Paal_XY_8	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)14	Lijn	Paal_XY_19	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)6	Lijn	Paal_XY_7	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)5	Lijn	Paal_XY_6	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)4	Lijn	Paal_XY_5	16,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B

Naam	Type	Staaf	Pos x_1 [m] Pos x_2 [m]	X	Y	Z	Rx	Ry	Rz	Functie Y	Functie Z
			17,000								
(PY-curve-2_V9)3	Lijn	Paal_XY_4	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)2	Lijn	Paal_XY_3	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)1	Lijn	Paal_XY_17	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V9)	Lijn	Paal_XY_14	16,000 17,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V9.B	PY-curve-2_V9.B
(PY-curve-2_V10)15	Lijn	Paal_XY_20	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)13	Lijn	Paal_XY_18	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)12	Lijn	Paal_XY_16	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)11	Lijn	Paal_XY_15	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)10	Lijn	Paal_XY_13	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)9	Lijn	Paal_XY_10	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)8	Lijn	Paal_XY_9	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)7	Lijn	Paal_XY_8	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)14	Lijn	Paal_XY_19	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)6	Lijn	Paal_XY_7	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)5	Lijn	Paal_XY_6	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)4	Lijn	Paal_XY_5	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)3	Lijn	Paal_XY_4	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)2	Lijn	Paal_XY_3	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)1	Lijn	Paal_XY_17	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B
(PY-curve-2_V10)	Lijn	Paal_XY_14	17,000 18,000	Vrij	Niet-lineair	Niet-lineair	Vrij	Vrij	Vrij	PY-curve-2_V10.B	PY-curve-2_V10.B

5.8. Analyse model met Lijnondersteuningen



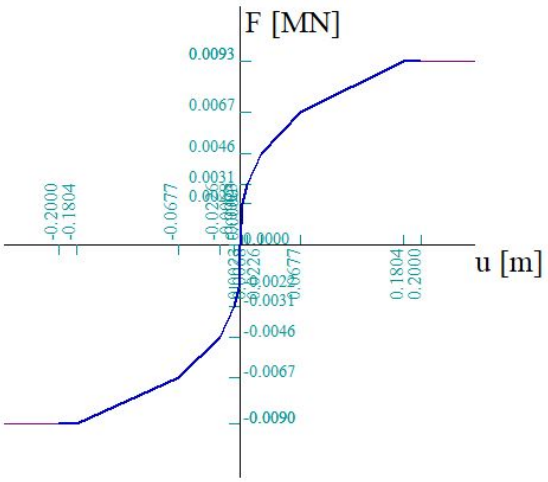
5.9. Analyse model met Lijnondersteuningen



5.10. Niet-lineaire functies

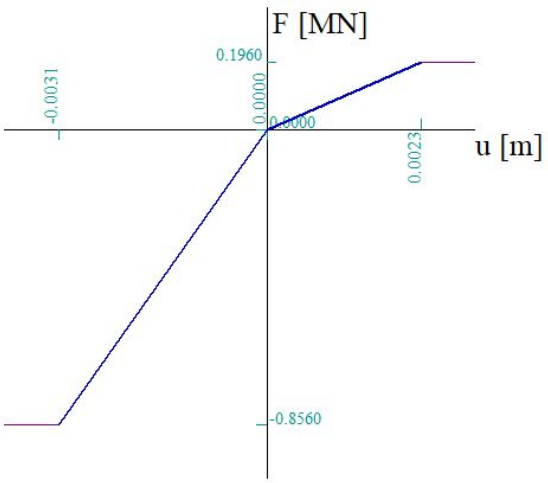
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-1_Veen	Verplaatsing	-0.200000 / -9000.000000	Vrij	Vrij
		-0.180400 / -9000.000000		
		-0.067650 / -6700.000000		
		-0.022550 / -4630.000000		
		-0.006765 / -3100.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3100.000000		
		0.022550 / 4630.000000		
		0.067650 / 6700.000000		
		0.180400 / 9270.000000		
		0.200000 / 9270.000000		

Tekenen



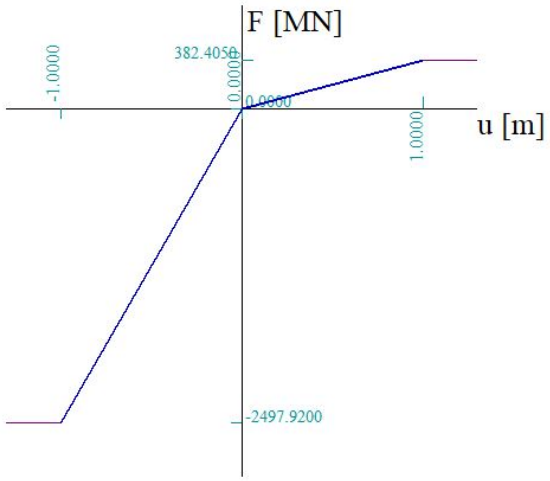
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-paalpunt-Mastnr148	Verplaatsing	-0.003130 / -856000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		0.002320 / 196000.000000		

Tekenen



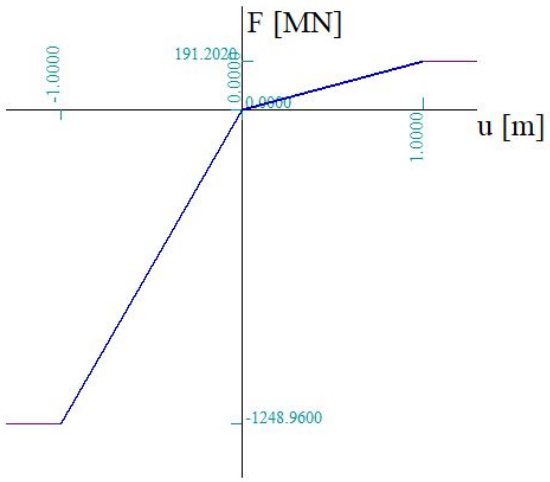
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-paalpunt-LEKA.BG.	Verplaatsing	-1.000000 / -2497920000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 382405000.000000		

Tekenen



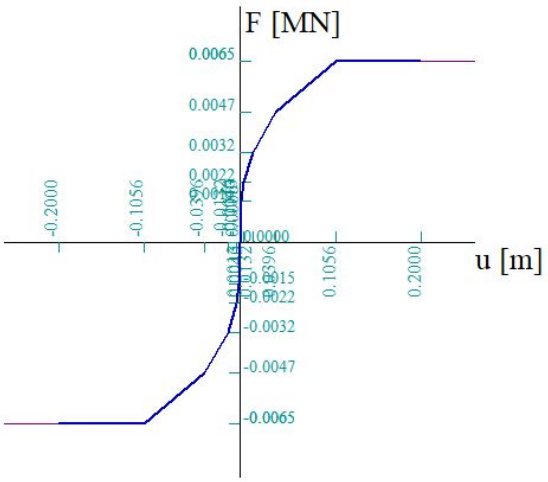
Naam	Type	u / F	Positief einde	Negatief einde
Trek-druk-paalpunt-LEKA.OG.	Verplaatsing	-1.000000 / -1248960000.000000	Vrij	Vrij
		0.000000 / 0.000000		
		1.000000 / 191202000.000000		

Tekenen



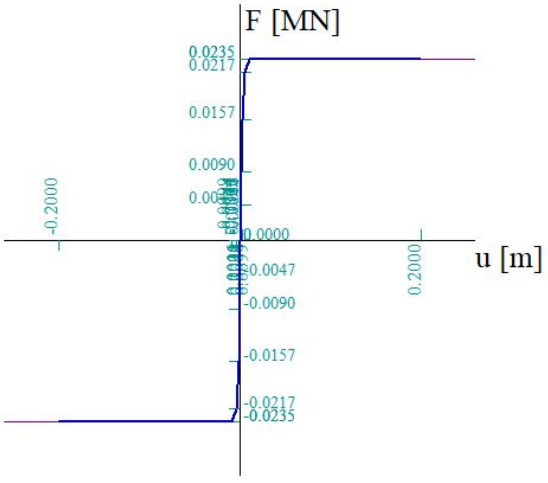
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen.B	Verplaatsing	-0.200000 / -6460.000000	Vrij	Vrij
		-0.105600 / -6460.000000		
		-0.039600 / -4658.466112		
		-0.013200 / -3230.000000		
		-0.003960 / -2162.268429		
		-0.001320 / -1499.233193		
		0.000000 / 0.000000		
		0.001320 / 1499.233193		
		0.003960 / 2162.268429		
		0.013200 / 3230.000000		
		0.039600 / 4658.466112		
		0.105600 / 6460.000000		
		0.200000 / 6460.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1.B	Verplaatsing	-0.200000 / -23507.363202	Vrij	Vrij
		-0.009900 / -23507.363202		
		-0.004400 / -21723.306095		
		-0.002200 / -15680.794047		
		-0.001100 / -8981.671111		
		-0.000550 / -4667.361101		
		0.000000 / 0.000000		
		0.000550 / 4667.361101		
		0.001100 / 8981.671111		
		0.002200 / 15680.794047		
		0.004400 / 21723.306095		
		0.009900 / 23507.363202		
		0.200000 / 23507.363202		

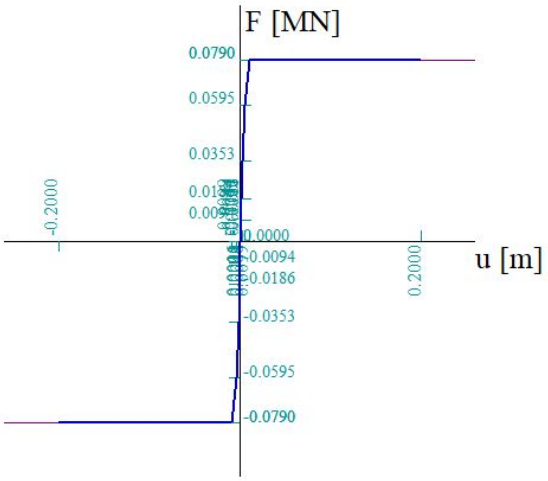
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V2.B	Verplaatsing	-0.200000 / -79035.038593	Vrij	Vrij
		-0.009900 / -79035.038593		
		-0.004400 / -59487.765327		
		-0.002200 / -35336.219808		
		-0.001100 / -18587.236311		
		-0.000550 / -9417.735746		
		0.000000 / 0.000000		
		0.000550 / 9417.735746		

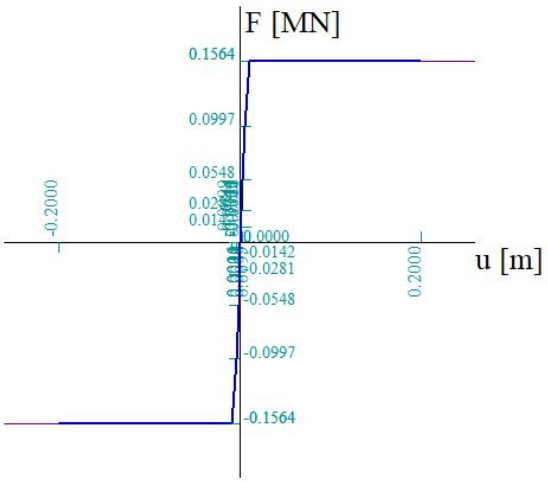
Naam	Type	u / F	Positief einde	Negatief einde
		0.001100 / 18587.236311		
		0.002200 / 35336.219808		
		0.004400 / 59487.765327		
		0.009900 / 79035.038593		
		0.200000 / 79035.038593		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V3.B	Verplaatsing	-0.200000 / -156368.664870	Vrij	Vrij
		-0.009900 / -156368.664870		
		-0.004400 / -99733.431143		
		-0.002200 / -54825.793146		
		-0.001100 / -28130.579433		
		-0.000550 / -14158.573896		
		0.000000 / 0.000000		
		0.000550 / 14158.573896		
		0.001100 / 28130.579433		
		0.002200 / 54825.793146		
		0.004400 / 99733.431143		
		0.009900 / 156368.664870		
		0.200000 / 156368.664870		

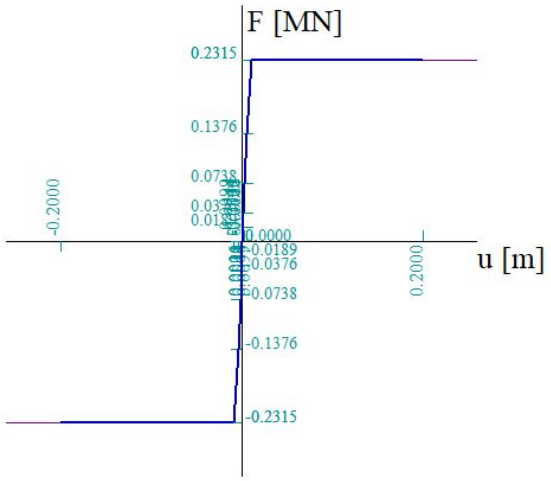
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V4.B	Verplaatsing	-0.200000 / -231483.603402	Vrij	Vrij
		-0.009900 / -231483.603402		

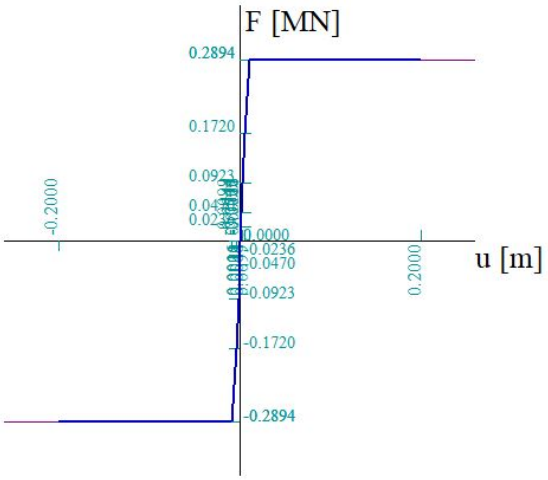
Naam	Type	u / F	Positief einde	Negatief einde
		-0.004400 / -137564.319138		
		-0.002200 / -73801.743400		
		-0.001100 / -37599.856384		
		-0.000550 / -18889.809630		
		0.000000 / 0.000000		
		0.000550 / 18889.809630		
		0.001100 / 37599.856384		
		0.002200 / 73801.743400		
		0.004400 / 137564.319138		
		0.009900 / 231483.603402		
		0.200000 / 231483.603402		

Tekenen



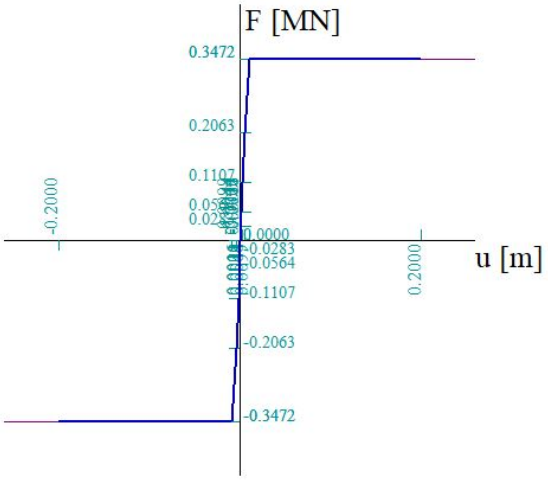
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V5.B	Verplaatsing	-0.200000 / -289354.504253	Vrij	Vrij
		-0.009900 / -289354.504253		
		-0.004400 / -171955.398922		
		-0.002200 / -92252.179250		
		-0.001100 / -46999.820480		
		-0.000550 / -23612.262038		
		0.000000 / 0.000000		
		0.000550 / 23612.262038		
		0.001100 / 46999.820480		
		0.002200 / 92252.179250		
		0.004400 / 171955.398922		
		0.009900 / 289354.504253		
		0.200000 / 289354.504253		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V6.B	Verplaatsing	-0.200000 / -347225.405104	Vrij	Vrij
		-0.009900 / -347225.405104		
		-0.004400 / -206346.478706		
		-0.002200 / -110702.615099		
		-0.001100 / -56399.784576		
		-0.000550 / -28334.714446		
		0.000000 / 0.000000		
		0.000550 / 28334.714446		
		0.001100 / 56399.784576		
		0.002200 / 110702.615099		
		0.004400 / 206346.478706		
		0.009900 / 347225.405104		
		0.200000 / 347225.405104		

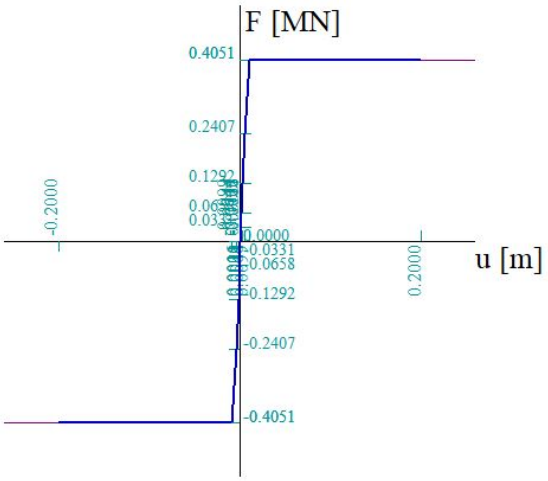
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V7.B	Verplaatsing	-0.200000 / -405096.305954	Vrij	Vrij
		-0.009900 / -405096.305954		
		-0.004400 / -240737.558491		
		-0.002200 / -129153.050949		
		-0.001100 / -65799.748672		
		-0.000550 / -33057.166853		
		0.000000 / 0.000000		
		0.000550 / 33057.166853		
		0.001100 / 65799.748672		
		0.002200 / 129153.050949		

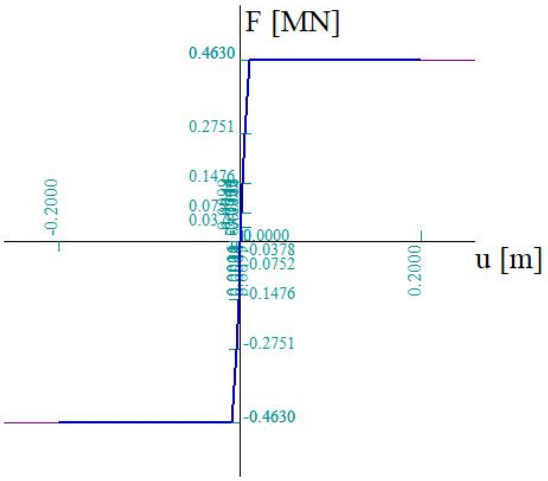
Naam	Type	u / F	Positief einde	Negatief einde
		0.004400 / 240737.558491		
		0.009900 / 405096.305954		
		0.200000 / 405096.305954		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V8.B	Verplaatsing	-0.200000 / -462967.206805	Vrij	Vrij
		-0.009900 / -462967.206805		
		-0.004400 / -275128.638275		
		-0.002200 / -147603.486799		
		-0.001100 / -75199.712768		
		-0.000550 / -37779.619261		
		0.000000 / 0.000000		
		0.000550 / 37779.619261		
		0.001100 / 75199.712768		
		0.002200 / 147603.486799		
		0.004400 / 275128.638275		
		0.009900 / 462967.206805		
		0.200000 / 462967.206805		

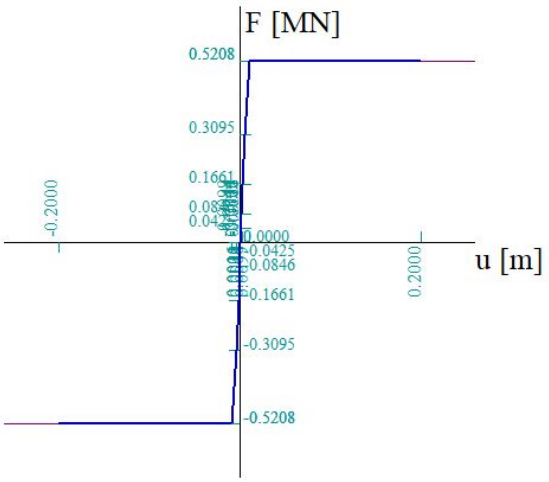
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V9.B	Verplaatsing	-0.200000 / -520838.107655	Vrij	Vrij
		-0.009900 / -520838.107655		
		-0.004400 / -309519.718059		
		-0.002200 / -166053.922649		

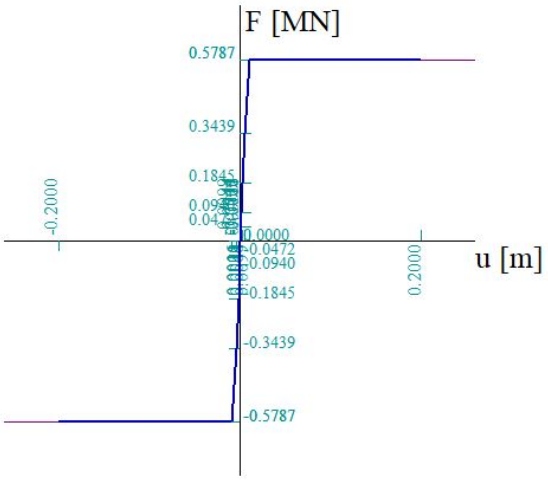
Naam	Type	u / F	Positief einde	Negatief einde
		-0.001100 / -84599.676864		
		-0.000550 / -42502.071669		
		0.000000 / 0.000000		
		0.000550 / 42502.071669		
		0.001100 / 84599.676864		
		0.002200 / 166053.922649		
		0.004400 / 309519.718059		
		0.009900 / 520838.107655		
		0.200000 / 520838.107655		

Tekenen



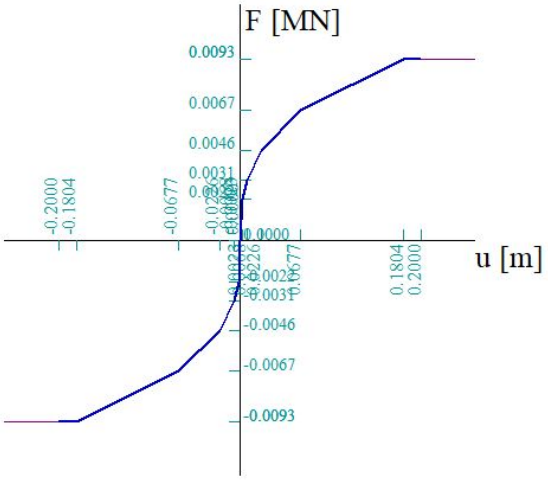
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V10.B	Verplaatsing	-0.200000 / -578709.008506	Vrij	Vrij
		-0.009900 / -578709.008506		
		-0.004400 / -343910.797844		
		-0.002200 / -184504.358499		
		-0.001100 / -93999.640960		
		-0.000550 / -47224.524076		
		0.000000 / 0.000000		
		0.000550 / 47224.524076		
		0.001100 / 93999.640960		
		0.002200 / 184504.358499		
		0.004400 / 343910.797844		
		0.009900 / 578709.008506		
		0.200000 / 578709.008506		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_Veen	Verplaatsing	-0.200000 / -9265.000000	Vrij	Vrij
		-0.180400 / -9265.000000		
		-0.067650 / -6681.000000		
		-0.022550 / -4633.000000		
		-0.006765 / -3101.000000		
		-0.002255 / -2150.000000		
		0.000000 / 0.000000		
		0.002255 / 2150.000000		
		0.006765 / 3101.000000		
		0.022550 / 4633.000000		
		0.067650 / 6681.000000		
		0.180400 / 9265.000000		
		0.200000 / 9265.000000		

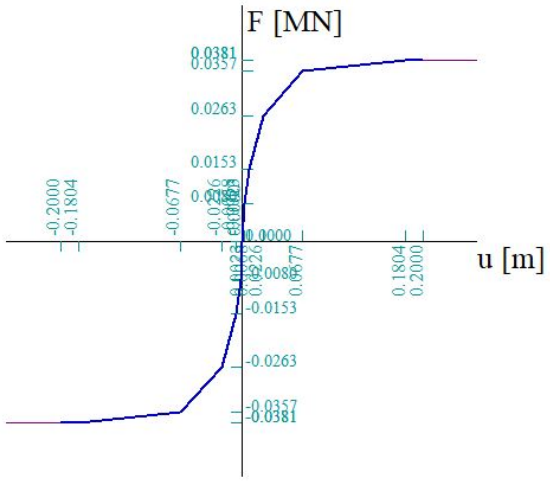
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V1	Verplaatsing	-0.200000 / -38100.000000	Vrij	Vrij
		-0.180400 / -38100.000000		
		-0.067650 / -35700.000000		
		-0.022550 / -26300.000000		
		-0.006765 / -15300.000000		
		-0.002255 / -8000.000000		
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		0.002255 / 8000.000000		
		0.006765 / 15300.000000		
		0.022550 / 26300.000000		

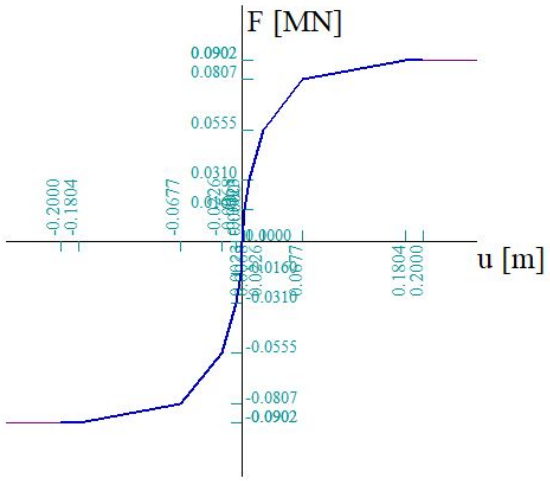
Naam	Type	u / F	Positief einde	Negatief einde
		0.067650 / 35700.000000		
		0.180400 / 38100.000000		
		0.200000 / 38100.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V2	Verplaatsing	-0.200000 / -90200.000000	Vrij	Vrij
		-0.180400 / -90200.000000		
		-0.067650 / -80700.000000		
		-0.022550 / -55500.000000		
		-0.006765 / -31000.000000		
		-0.002255 / -16000.000000		
		0.000000 / 0.000000		
		0.002255 / 16000.000000		
		0.006765 / 31000.000000		
		0.022550 / 55500.000000		
		0.067650 / 80700.000000		
		0.180400 / 90200.000000		
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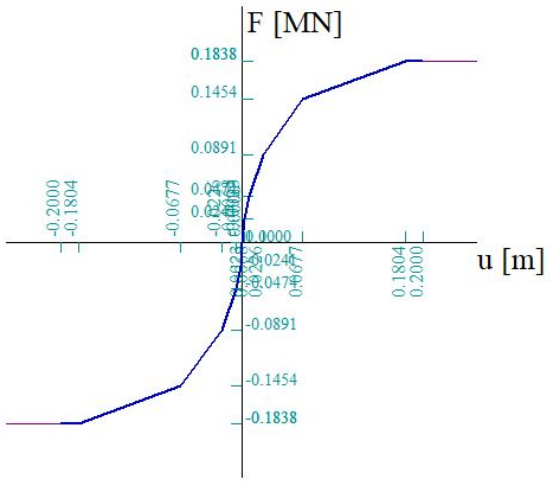
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V3	Verplaatsing	-0.200000 / -183800.000000	Vrij	Vrij
		-0.180400 / -183800.000000		
		-0.067650 / -145400.000000		
		-0.022550 / -89100.000000		

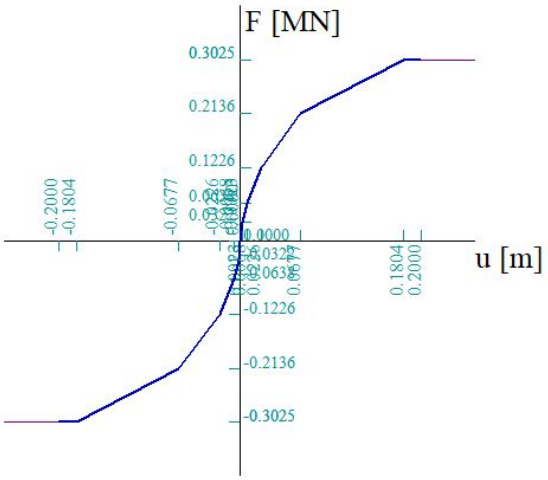
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		-0.006765 / -47400.000000		
		-0.002255 / -24100.000000		
		0.000000 / 0.000000		
		0.002255 / 24100.000000		
		0.006765 / 47400.000000		
		0.022550 / 89100.000000		
		0.067650 / 145400.000000		
		0.180400 / 183800.000000		
		0.200000 / 183800.000000		

Tekenen



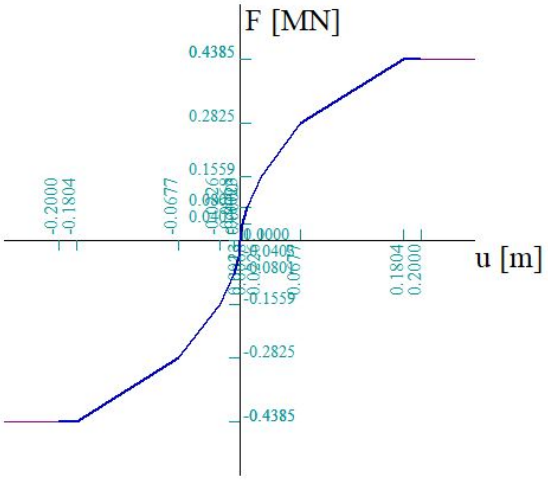
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PY-curve-2_V4	Verplaatsing	-0.200000 / -302500.000000	Vrij	Vrij
		-0.180400 / -302500.000000		
		-0.067650 / -213600.000000		
		-0.022550 / -122600.000000		
		-0.006765 / -63800.000000		
		-0.002255 / -32200.000000		
		0.000000 / 0.000000		
		0.002255 / 32200.000000		
		0.006765 / 63800.000000		
		0.022550 / 122600.000000		
		0.067650 / 213600.000000		
		0.180400 / 302500.000000		
		0.200000 / 302500.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V5	Verplaatsing	-0.200000 / -438500.000000	Vrij	Vrij
		-0.180400 / -438500.000000		
		-0.067650 / -282500.000000		
		-0.022550 / -155900.000000		
		-0.006765 / -80100.000000		
		-0.002255 / -40300.000000		
		0.000000 / 0.000000		
		0.002255 / 40300.000000		
		0.006765 / 80100.000000		
		0.022550 / 155900.000000		
		0.067650 / 282500.000000		
		0.180400 / 438500.000000		
		0.200000 / 438500.000000		

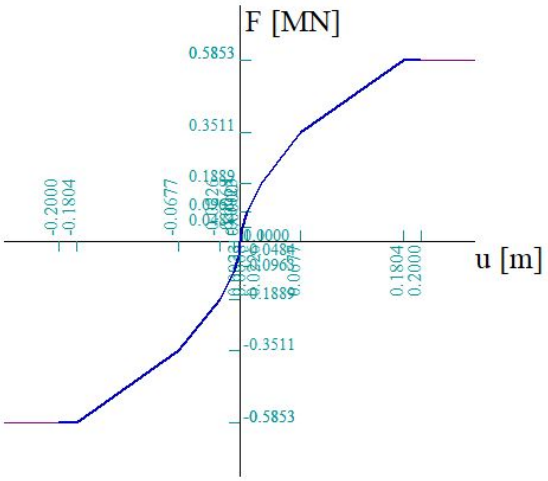
Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V6	Verplaatsing	-0.200000 / -585300.000000	Vrij	Vrij
		-0.180400 / -585300.000000		
		-0.067650 / -351100.000000		
		-0.022550 / -188900.000000		
		-0.006765 / -96300.000000		
		-0.002255 / -48400.000000		
		0.000000 / 0.000000		
		0.002255 / 48400.000000		
		0.006765 / 96300.000000		
		0.022550 / 188900.000000		

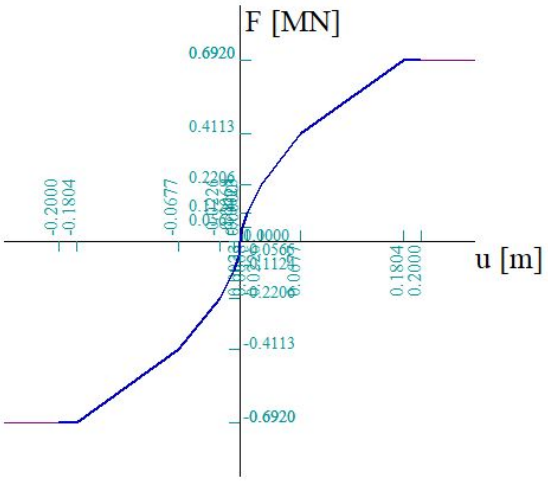
Naam	Type	u / F	Positief einde	Negatief einde
		0.067650 / 351100.000000		
		0.180400 / 585300.000000		
		0.200000 / 585300.000000		

Tekenen



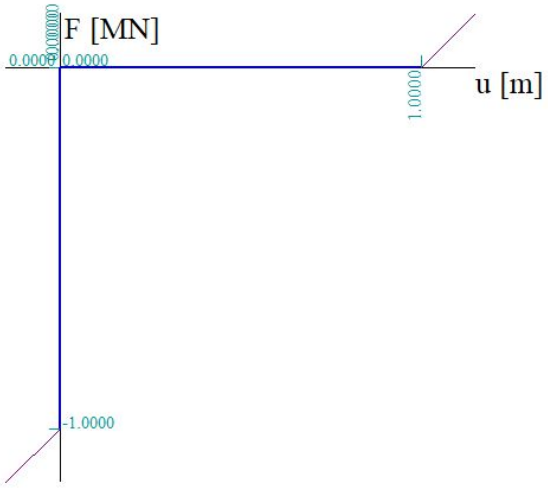
Naam	Type	u / F	Positief einde	Negatief einde
PY-curve-2_V7	Verplaatsing	-0.200000 / -692000.000000	Vrij	Vrij
		-0.180400 / -692000.000000		
		-0.067650 / -411300.000000		
		-0.022550 / -220600.000000		
		-0.006765 / -112400.000000		
		-0.002255 / -56500.000000		
		0.000000 / 0.000000		
		0.002255 / 56500.000000		
		0.006765 / 112400.000000		
		0.022550 / 220600.000000		
		0.067650 / 411300.000000		
		0.180400 / 692000.000000		
		0.200000 / 692000.000000		

Tekenen



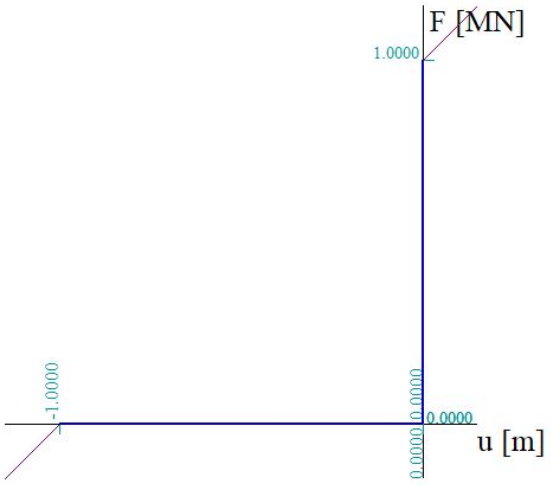
Naam	Type	u / F	Positief einde	Negatief einde
press only	Verplaatsing	-0.000001 / -1000000.000000	Verend	Verend
		0.000000 / 0.000000		
		1.000000 / 0.000000		

Tekenen



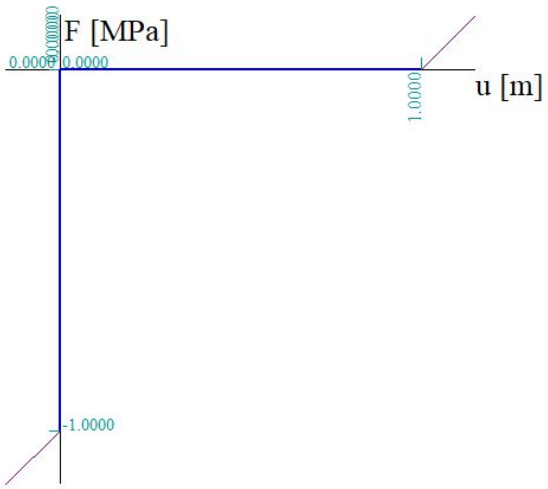
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tension only	Verplaatsing	-1.000000 / 0.000000	Verend	Verend
		0.000000 / 0.000000		
		0.000001 / 1000000.000000		

Tekenen



Naam	Type	u / F	Positief einde	Negatief einde
soil press only	Niet-lineair bedding		Verend	Verend

Tekenen

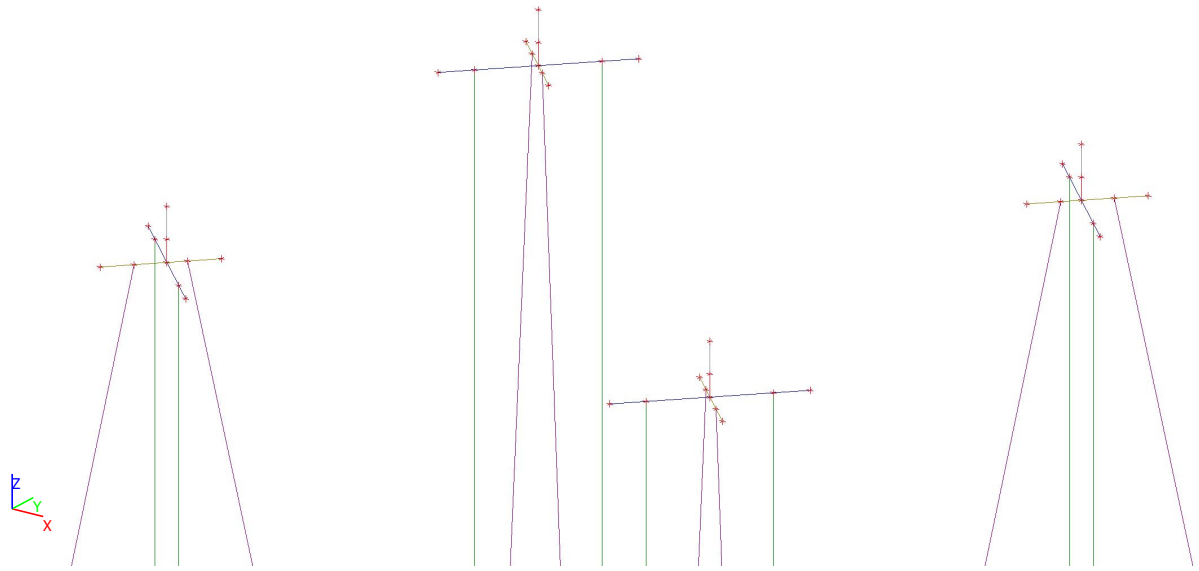

F [MPa]
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6. Belastingen

6.1. Belastingsgevallen

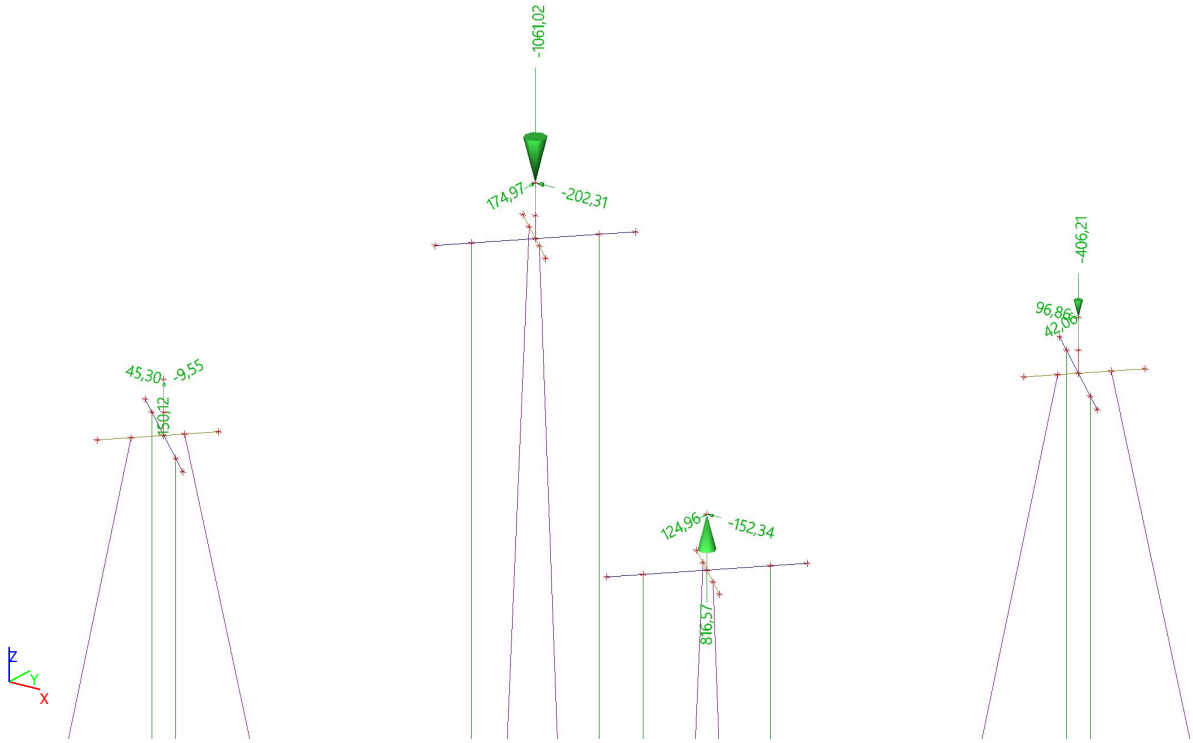
6.1.1. Belastingsgevallen - E.G.

Naam	Omschrijving	Actie type	Lastgroep	Richting
	Spec	Type last		
E.G.		Permanent	LG1	-Z
		Eigen gewicht		



6.1.2. Belastingsgevallen - high max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



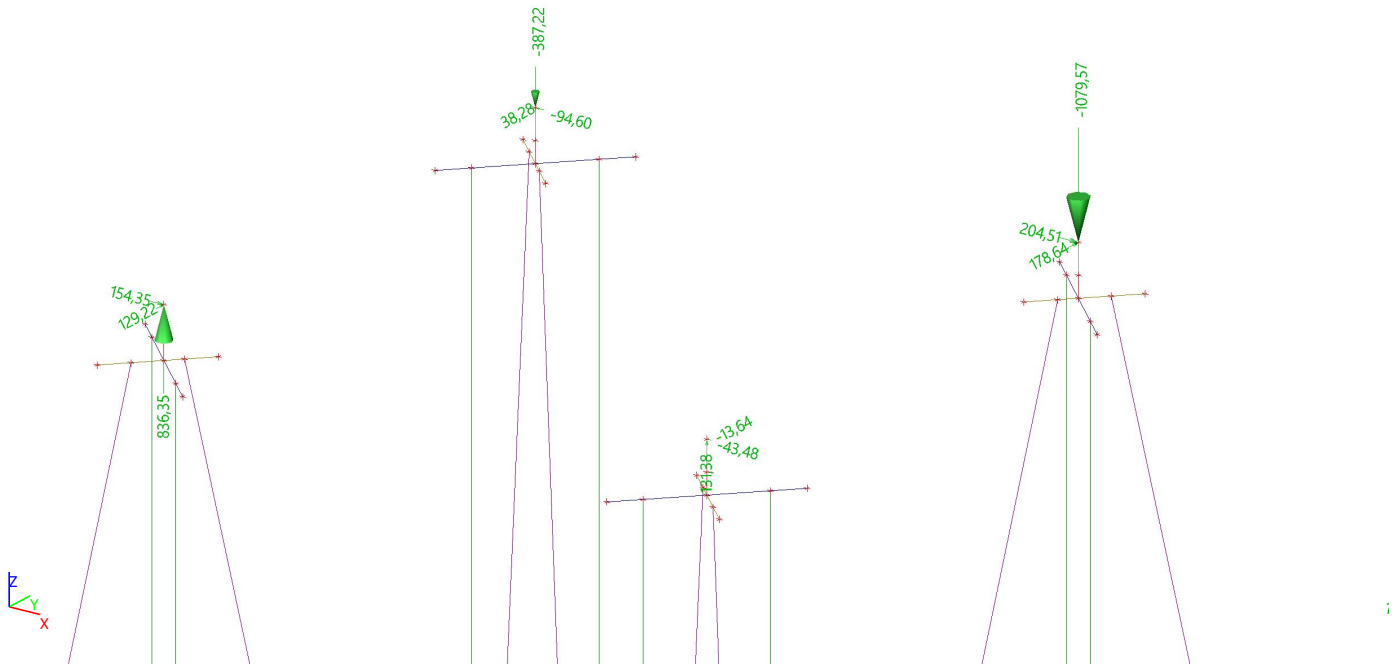
6.1.2.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;45°_1P_X	1P	high max Wnd ;45°	GCS	X	Kracht	45,30
high max Wnd ;45°_1P_Y	1P	high max Wnd ;45°	GCS	Y	Kracht	-9,55
high max Wnd ;45°_1P_Z	1P	high max Wnd ;45°	GCS	Z	Kracht	150,12
high max Wnd ;45°_1X_X	1X	high max Wnd ;45°	GCS	X	Kracht	-202,31
high max Wnd ;45°_1X_Y	1X	high max Wnd ;45°	GCS	Y	Kracht	174,97
high max Wnd ;45°_1X_Z	1X	high max Wnd ;45°	GCS	Z	Kracht	-1061,02
high max Wnd ;45°_1XY_X	1XY	high max Wnd ;45°	GCS	X	Kracht	96,86
high max Wnd ;45°_1XY_Y	1XY	high max Wnd ;45°	GCS	Y	Kracht	42,06
high max Wnd ;45°_1XY_Z	1XY	high max Wnd ;45°	GCS	Z	Kracht	-406,21
high max Wnd ;45°_1Y_X	1Y	high max Wnd ;45°	GCS	X	Kracht	-152,34
high max Wnd ;45°_1Y_Y	1Y	high max Wnd ;45°	GCS	Y	Kracht	124,96
high max Wnd ;45°_1Y_Z	1Y	high max Wnd ;45°	GCS	Z	Kracht	816,57
high max Wnd ;45°_1P2_X	1P2	high max Wnd ;45°	GCS	X	Kracht	45,30
high max Wnd ;45°_1P2_Y	1P2	high max Wnd ;45°	GCS	Y	Kracht	-9,55
high max Wnd	1P2	high max Wnd ;45°	GCS	Z	Kracht	150,12

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;45°_1P2_Z						
high max Wnd ;45°_1X_X1	1X10	high max Wnd ;45°	GCS	X	Kracht	-202,31
high max Wnd ;45°_1X_Y1	1X10	high max Wnd ;45°	GCS	Y	Kracht	174,97
high max Wnd ;45°_1X_Z1	1X10	high max Wnd ;45°	GCS	Z	Kracht	-1061,02
high max Wnd ;45°_1XY3_X	1XY3	high max Wnd ;45°	GCS	X	Kracht	96,86
high max Wnd ;45°_1XY3_Y	1XY3	high max Wnd ;45°	GCS	Y	Kracht	42,06
high max Wnd ;45°_1XY3_Z	1XY3	high max Wnd ;45°	GCS	Z	Kracht	-406,21
high max Wnd ;45°_1Y2_X	1Y2	high max Wnd ;45°	GCS	X	Kracht	-152,34
high max Wnd ;45°_1Y2_Y	1Y2	high max Wnd ;45°	GCS	Y	Kracht	124,96
high max Wnd ;45°_1Y2_Z	1Y2	high max Wnd ;45°	GCS	Z	Kracht	816,57

6.1.3. Belastingsgevallen - high max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

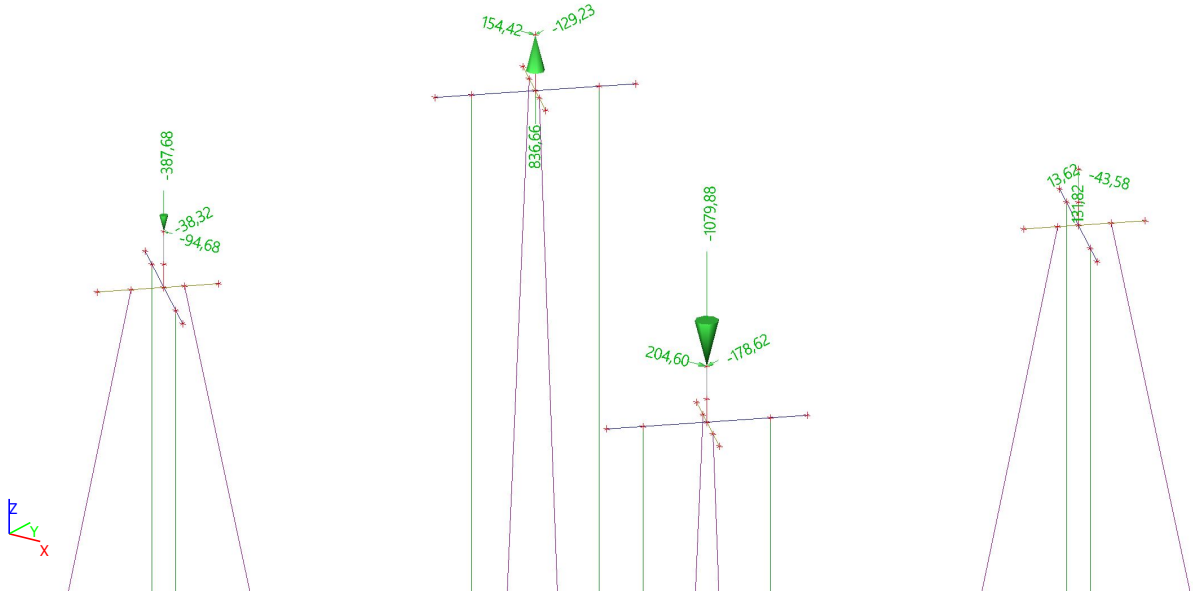


6.1.3.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;135°_1P_X	1P	high max Wnd ;135°	GCS	X	Kracht	154,35
high max Wnd ;135°_1P_Y	1P	high max Wnd ;135°	GCS	Y	Kracht	129,22
high max Wnd ;135°_1P_Z	1P	high max Wnd ;135°	GCS	Z	Kracht	836,35
high max Wnd ;135°_1X_X	1X	high max Wnd ;135°	GCS	X	Kracht	-94,60
high max Wnd ;135°_1X_Y	1X	high max Wnd ;135°	GCS	Y	Kracht	38,28
high max Wnd ;135°_1X_Z	1X	high max Wnd ;135°	GCS	Z	Kracht	-387,22
high max Wnd ;135°_1XY_X	1XY	high max Wnd ;135°	GCS	X	Kracht	204,51
high max Wnd ;135°_1XY_Y	1XY	high max Wnd ;135°	GCS	Y	Kracht	178,64
high max Wnd ;135°_1XY_Z	1XY	high max Wnd ;135°	GCS	Z	Kracht	-1079,57
high max Wnd ;135°_1Y_X	1Y	high max Wnd ;135°	GCS	X	Kracht	-43,48
high max Wnd ;135°_1Y_Y	1Y	high max Wnd ;135°	GCS	Y	Kracht	-13,64
high max Wnd ;135°_1Y_Z	1Y	high max Wnd ;135°	GCS	Z	Kracht	131,38
high max Wnd ;135°_1P2_X	1P2	high max Wnd ;135°	GCS	X	Kracht	154,35
high max Wnd ;135°_1P2_Y	1P2	high max Wnd ;135°	GCS	Y	Kracht	129,22
high max Wnd ;135°_1P2_Z	1P2	high max Wnd ;135°	GCS	Z	Kracht	836,35
high max Wnd ;135°_1X_X1	1X10	high max Wnd ;135°	GCS	X	Kracht	-94,60
high max Wnd ;135°_1X_Y1	1X10	high max Wnd ;135°	GCS	Y	Kracht	38,28
high max Wnd ;135°_1X_Z1	1X10	high max Wnd ;135°	GCS	Z	Kracht	-387,22
high max Wnd ;135°_1XY3_X	1XY3	high max Wnd ;135°	GCS	X	Kracht	204,51
high max Wnd ;135°_1XY3_Y	1XY3	high max Wnd ;135°	GCS	Y	Kracht	178,64
high max Wnd ;135°_1XY3_Z	1XY3	high max Wnd ;135°	GCS	Z	Kracht	-1079,57
high max Wnd ;135°_1Y2_X	1Y2	high max Wnd ;135°	GCS	X	Kracht	-43,48
high max Wnd ;135°_1Y2_Y	1Y2	high max Wnd ;135°	GCS	Y	Kracht	-13,64
high max Wnd ;135°_1Y2_Z	1Y2	high max Wnd ;135°	GCS	Z	Kracht	131,38

6.1.4. Belastingsgevallen - high max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



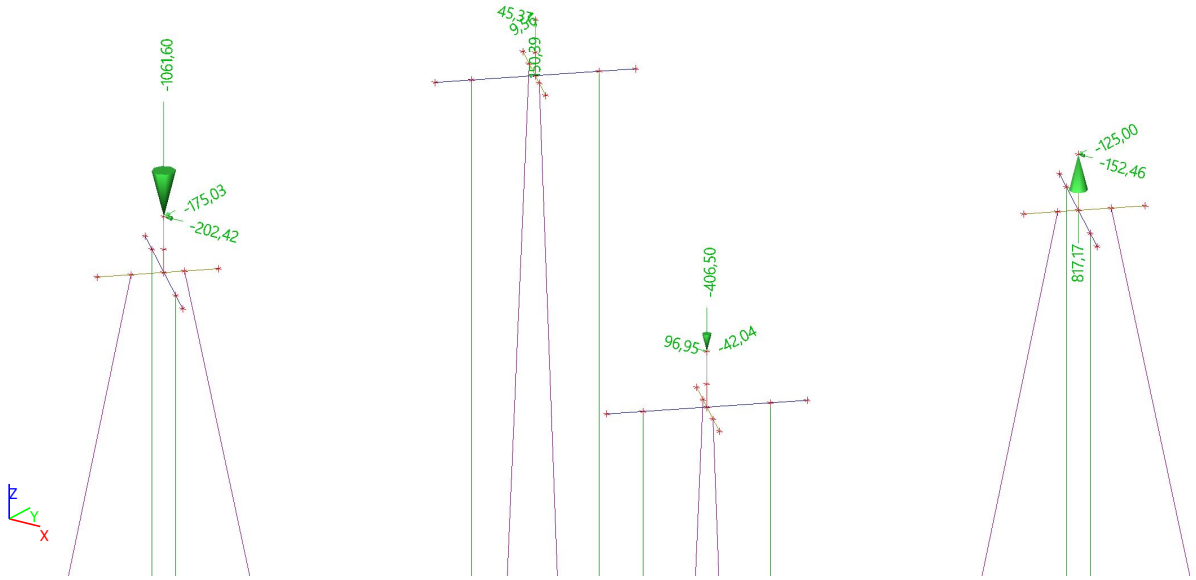
6.1.4.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;225°_1P_X	1P	high max Wnd ;225°	GCS	X	Kracht	-94,68
high max Wnd ;225°_1P_Y	1P	high max Wnd ;225°	GCS	Y	Kracht	-38,32
high max Wnd ;225°_1P_Z	1P	high max Wnd ;225°	GCS	Z	Kracht	-387,68
high max Wnd ;225°_1X_X	1X	high max Wnd ;225°	GCS	X	Kracht	154,42
high max Wnd ;225°_1X_Y	1X	high max Wnd ;225°	GCS	Y	Kracht	-129,23
high max Wnd ;225°_1X_Z	1X	high max Wnd ;225°	GCS	Z	Kracht	836,66
high max Wnd ;225°_1XY_X	1XY	high max Wnd ;225°	GCS	X	Kracht	-43,58
high max Wnd ;225°_1XY_Y	1XY	high max Wnd ;225°	GCS	Y	Kracht	13,62
high max Wnd ;225°_1XY_Z	1XY	high max Wnd ;225°	GCS	Z	Kracht	131,82
high max Wnd ;225°_1Y_X	1Y	high max Wnd ;225°	GCS	X	Kracht	204,60
high max Wnd ;225°_1Y_Y	1Y	high max Wnd ;225°	GCS	Y	Kracht	-178,62
high max Wnd ;225°_1Y_Z	1Y	high max Wnd ;225°	GCS	Z	Kracht	-1079,88
high max Wnd ;225°_1P2_X	1P2	high max Wnd ;225°	GCS	X	Kracht	-94,68
high max Wnd ;225°_1P2_Y	1P2	high max Wnd ;225°	GCS	Y	Kracht	-38,32
high max Wnd	1P2	high max Wnd ;225°	GCS	Z	Kracht	-387,68

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;225°_1P2_Z						
high max Wnd ;225°_1X_X1	1X10	high max Wnd ;225°	GCS	X	Kracht	154,42
high max Wnd ;225°_1X_Y1	1X10	high max Wnd ;225°	GCS	Y	Kracht	-129,23
high max Wnd ;225°_1X_Z1	1X10	high max Wnd ;225°	GCS	Z	Kracht	836,66
high max Wnd ;225°_1XY3_X	1XY3	high max Wnd ;225°	GCS	X	Kracht	-43,58
high max Wnd ;225°_1XY3_Y	1XY3	high max Wnd ;225°	GCS	Y	Kracht	13,62
high max Wnd ;225°_1XY3_Z	1XY3	high max Wnd ;225°	GCS	Z	Kracht	131,82
high max Wnd ;225°_1Y2_X	1Y2	high max Wnd ;225°	GCS	X	Kracht	204,60
high max Wnd ;225°_1Y2_Y	1Y2	high max Wnd ;225°	GCS	Y	Kracht	-178,62
high max Wnd ;225°_1Y2_Z	1Y2	high max Wnd ;225°	GCS	Z	Kracht	-1079,88

6.1.5. Belastingsgevallen - high max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
high max Wnd ;315°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

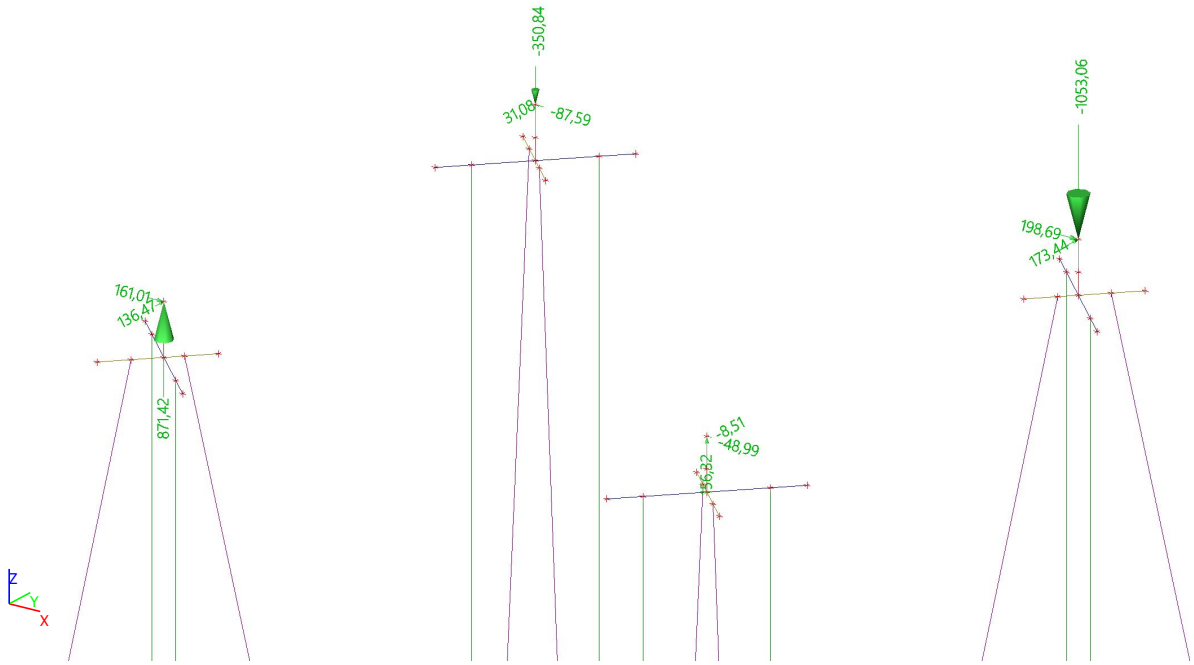


6.1.5.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
high max Wnd ;315°_1P_X	1P	high max Wnd ;315°	GCS	X	Kracht	-202,42
high max Wnd ;315°_1P_Y	1P	high max Wnd ;315°	GCS	Y	Kracht	-175,03
high max Wnd ;315°_1P_Z	1P	high max Wnd ;315°	GCS	Z	Kracht	-1061,60
high max Wnd ;315°_1X_X	1X	high max Wnd ;315°	GCS	X	Kracht	45,37
high max Wnd ;315°_1X_Y	1X	high max Wnd ;315°	GCS	Y	Kracht	9,56
high max Wnd ;315°_1X_Z	1X	high max Wnd ;315°	GCS	Z	Kracht	150,39
high max Wnd ;315°_1XY_X	1XY	high max Wnd ;315°	GCS	X	Kracht	-152,46
high max Wnd ;315°_1XY_Y	1XY	high max Wnd ;315°	GCS	Y	Kracht	-125,00
high max Wnd ;315°_1XY_Z	1XY	high max Wnd ;315°	GCS	Z	Kracht	817,17
high max Wnd ;315°_1Y_X	1Y	high max Wnd ;315°	GCS	X	Kracht	96,95
high max Wnd ;315°_1Y_Y	1Y	high max Wnd ;315°	GCS	Y	Kracht	-42,04
high max Wnd ;315°_1Y_Z	1Y	high max Wnd ;315°	GCS	Z	Kracht	-406,50
high max Wnd ;315°_1P2_X	1P2	high max Wnd ;315°	GCS	X	Kracht	-202,42
high max Wnd ;315°_1P2_Y	1P2	high max Wnd ;315°	GCS	Y	Kracht	-175,03
high max Wnd ;315°_1P2_Z	1P2	high max Wnd ;315°	GCS	Z	Kracht	-1061,60
high max Wnd ;315°_1X_X1	1X10	high max Wnd ;315°	GCS	X	Kracht	45,37
high max Wnd ;315°_1X_Y1	1X10	high max Wnd ;315°	GCS	Y	Kracht	9,56
high max Wnd ;315°_1X_Z1	1X10	high max Wnd ;315°	GCS	Z	Kracht	150,39
high max Wnd ;315°_1XY3_X	1XY3	high max Wnd ;315°	GCS	X	Kracht	-152,46
high max Wnd ;315°_1XY3_Y	1XY3	high max Wnd ;315°	GCS	Y	Kracht	-125,00
high max Wnd ;315°_1XY3_Z	1XY3	high max Wnd ;315°	GCS	Z	Kracht	817,17
high max Wnd ;315°_1Y2_X	1Y2	high max Wnd ;315°	GCS	X	Kracht	96,95
high max Wnd ;315°_1Y2_Y	1Y2	high max Wnd ;315°	GCS	Y	Kracht	-42,04
high max Wnd ;315°_1Y2_Z	1Y2	high max Wnd ;315°	GCS	Z	Kracht	-406,50

6.1.6. Belastingsgevallen - low max Wnd ;135°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;135°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



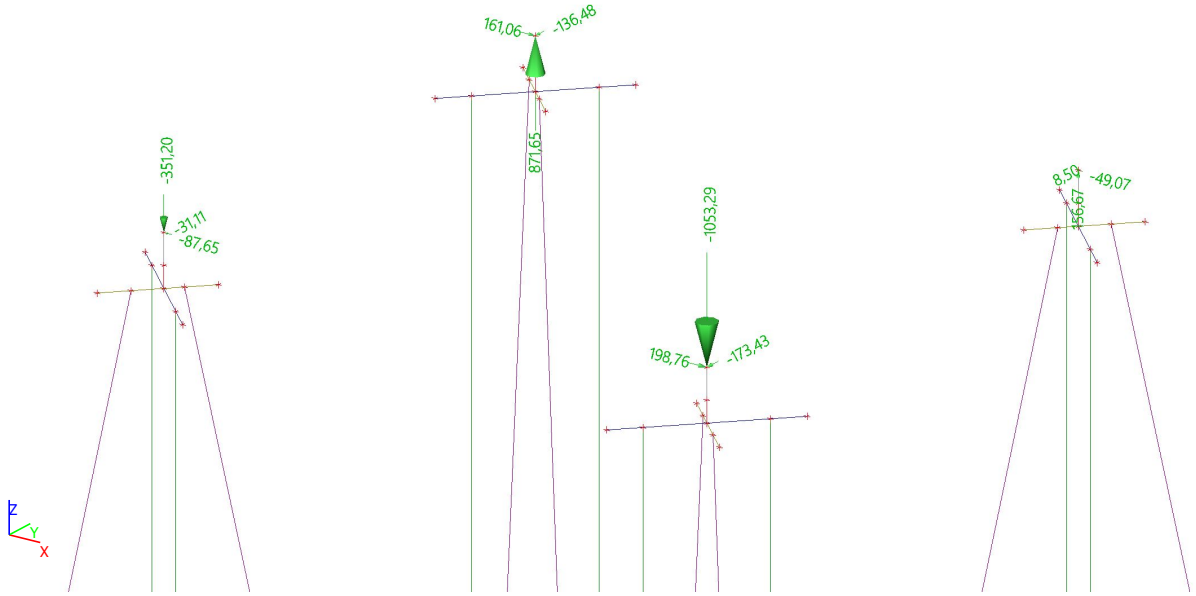
6.1.6.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;135°_1P_X	1P	low max Wnd ;135°	GCS	X	Kracht	161,01
low max Wnd ;135°_1P_Y	1P	low max Wnd ;135°	GCS	Y	Kracht	136,47
low max Wnd ;135°_1P_Z	1P	low max Wnd ;135°	GCS	Z	Kracht	871,42
low max Wnd ;135°_1X_X	1X	low max Wnd ;135°	GCS	X	Kracht	-87,59
low max Wnd ;135°_1X_Y	1X	low max Wnd ;135°	GCS	Y	Kracht	31,08
low max Wnd ;135°_1X_Z	1X	low max Wnd ;135°	GCS	Z	Kracht	-350,84
low max Wnd ;135°_1XY_X	1XY	low max Wnd ;135°	GCS	X	Kracht	198,69
low max Wnd ;135°_1XY_Y	1XY	low max Wnd ;135°	GCS	Y	Kracht	173,44
low max Wnd ;135°_1XY_Z	1XY	low max Wnd ;135°	GCS	Z	Kracht	-1053,06
low max Wnd ;135°_1Y_X	1Y	low max Wnd ;135°	GCS	X	Kracht	-48,99
low max Wnd ;135°_1Y_Y	1Y	low max Wnd ;135°	GCS	Y	Kracht	-8,51
low max Wnd ;135°_1Y_Z	1Y	low max Wnd ;135°	GCS	Z	Kracht	156,32
low max Wnd ;135°_1P2_X	1P2	low max Wnd ;135°	GCS	X	Kracht	161,01
low max Wnd ;135°_1P2_Y	1P2	low max Wnd ;135°	GCS	Y	Kracht	136,47
low max Wnd	1P2	low max Wnd ;135°	GCS	Z	Kracht	871,42

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;135°_1P2_Z						
low max Wnd ;135°_1X_X1	1X10	low max Wnd ;135°	GCS	X	Kracht	-87,59
low max Wnd ;135°_1X_Y1	1X10	low max Wnd ;135°	GCS	Y	Kracht	31,08
low max Wnd ;135°_1X_Z1	1X10	low max Wnd ;135°	GCS	Z	Kracht	-350,84
low max Wnd ;135°_1XY3_X	1XY3	low max Wnd ;135°	GCS	X	Kracht	198,69
low max Wnd ;135°_1XY3_Y	1XY3	low max Wnd ;135°	GCS	Y	Kracht	173,44
low max Wnd ;135°_1XY3_Z	1XY3	low max Wnd ;135°	GCS	Z	Kracht	-1053,06
low max Wnd ;135°_1Y2_X	1Y2	low max Wnd ;135°	GCS	X	Kracht	-48,99
low max Wnd ;135°_1Y2_Y	1Y2	low max Wnd ;135°	GCS	Y	Kracht	-8,51
low max Wnd ;135°_1Y2_Z	1Y2	low max Wnd ;135°	GCS	Z	Kracht	156,32

6.1.7. Belastingsgevallen - low max Wnd ;225°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;225°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			

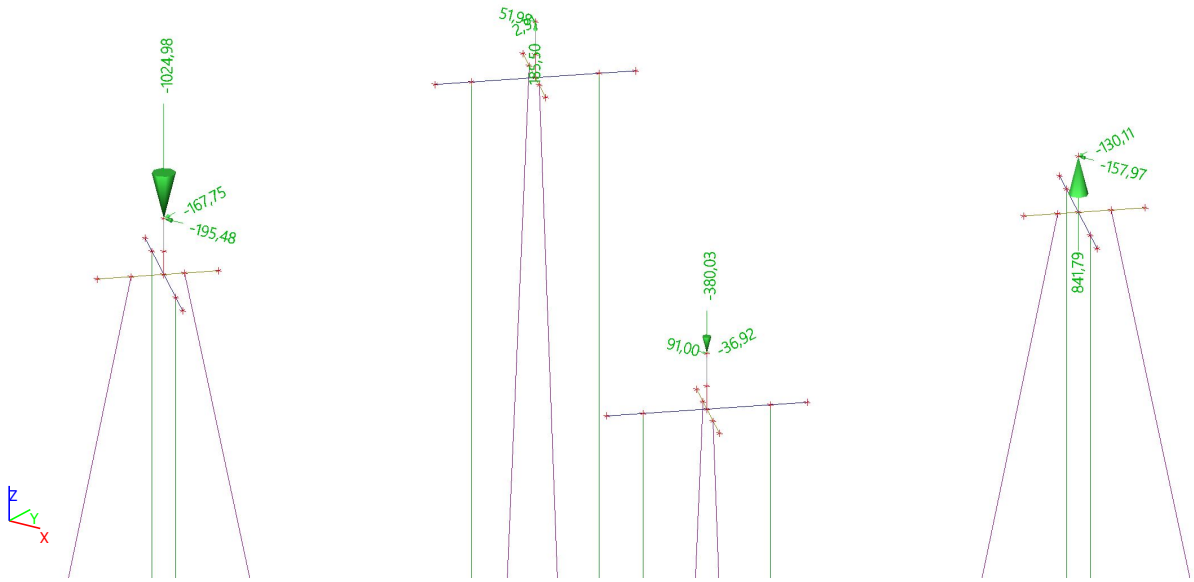


6.1.7.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;225°_1P_X	1P	low max Wnd ;225°	GCS	X	Kracht	-87,65
low max Wnd ;225°_1P_Y	1P	low max Wnd ;225°	GCS	Y	Kracht	-31,11
low max Wnd ;225°_1P_Z	1P	low max Wnd ;225°	GCS	Z	Kracht	-351,20
low max Wnd ;225°_1X_X	1X	low max Wnd ;225°	GCS	X	Kracht	161,06
low max Wnd ;225°_1X_Y	1X	low max Wnd ;225°	GCS	Y	Kracht	-136,48
low max Wnd ;225°_1X_Z	1X	low max Wnd ;225°	GCS	Z	Kracht	871,65
low max Wnd ;225°_1XY_X	1XY	low max Wnd ;225°	GCS	X	Kracht	-49,07
low max Wnd ;225°_1XY_Y	1XY	low max Wnd ;225°	GCS	Y	Kracht	8,50
low max Wnd ;225°_1XY_Z	1XY	low max Wnd ;225°	GCS	Z	Kracht	156,67
low max Wnd ;225°_1Y_X	1Y	low max Wnd ;225°	GCS	X	Kracht	198,76
low max Wnd ;225°_1Y_Y	1Y	low max Wnd ;225°	GCS	Y	Kracht	-173,43
low max Wnd ;225°_1Y_Z	1Y	low max Wnd ;225°	GCS	Z	Kracht	-1053,29
low max Wnd ;225°_1P2_X	1P2	low max Wnd ;225°	GCS	X	Kracht	-87,65
low max Wnd ;225°_1P2_Y	1P2	low max Wnd ;225°	GCS	Y	Kracht	-31,11
low max Wnd ;225°_1P2_Z	1P2	low max Wnd ;225°	GCS	Z	Kracht	-351,20
low max Wnd ;225°_1X_X1	1X10	low max Wnd ;225°	GCS	X	Kracht	161,06
low max Wnd ;225°_1X_Y1	1X10	low max Wnd ;225°	GCS	Y	Kracht	-136,48
low max Wnd ;225°_1X_Z1	1X10	low max Wnd ;225°	GCS	Z	Kracht	871,65
low max Wnd ;225°_1XY3_X	1XY3	low max Wnd ;225°	GCS	X	Kracht	-49,07
low max Wnd ;225°_1XY3_Y	1XY3	low max Wnd ;225°	GCS	Y	Kracht	8,50
low max Wnd ;225°_1XY3_Z	1XY3	low max Wnd ;225°	GCS	Z	Kracht	156,67
low max Wnd ;225°_1Y2_X	1Y2	low max Wnd ;225°	GCS	X	Kracht	198,76
low max Wnd ;225°_1Y2_Y	1Y2	low max Wnd ;225°	GCS	Y	Kracht	-173,43
low max Wnd ;225°_1Y2_Z	1Y2	low max Wnd ;225°	GCS	Z	Kracht	-1053,29

6.1.8. Belastingsgevallen - low max Wnd ;315°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;315°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



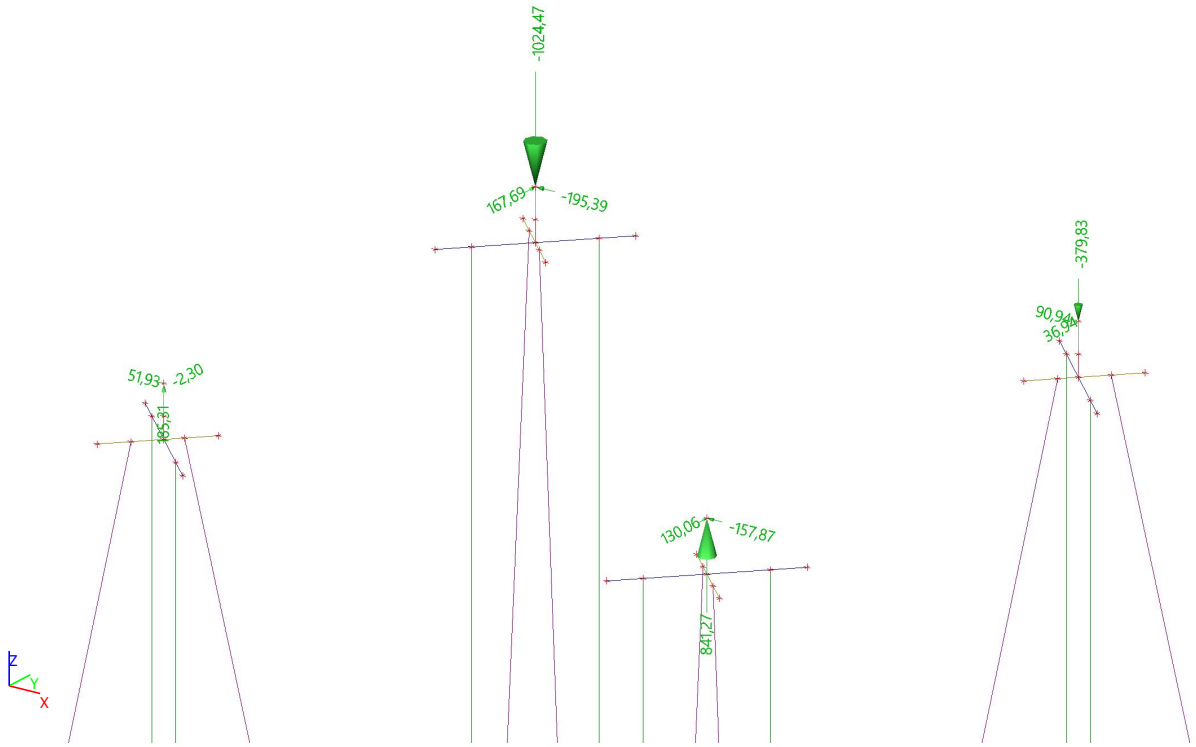
6.1.8.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;315°_1P_X	1P	low max Wnd ;315°	GCS	X	Kracht	-195,48
low max Wnd ;315°_1P_Y	1P	low max Wnd ;315°	GCS	Y	Kracht	-167,75
low max Wnd ;315°_1P_Z	1P	low max Wnd ;315°	GCS	Z	Kracht	-1024,98
low max Wnd ;315°_1X_X	1X	low max Wnd ;315°	GCS	X	Kracht	51,98
low max Wnd ;315°_1X_Y	1X	low max Wnd ;315°	GCS	Y	Kracht	2,31
low max Wnd ;315°_1X_Z	1X	low max Wnd ;315°	GCS	Z	Kracht	185,50
low max Wnd ;315°_1XY_X	1XY	low max Wnd ;315°	GCS	X	Kracht	-157,97
low max Wnd ;315°_1XY_Y	1XY	low max Wnd ;315°	GCS	Y	Kracht	-130,11
low max Wnd ;315°_1XY_Z	1XY	low max Wnd ;315°	GCS	Z	Kracht	841,79
low max Wnd ;315°_1Y_X	1Y	low max Wnd ;315°	GCS	X	Kracht	91,00
low max Wnd ;315°_1Y_Y	1Y	low max Wnd ;315°	GCS	Y	Kracht	-36,92
low max Wnd ;315°_1Y_Z	1Y	low max Wnd ;315°	GCS	Z	Kracht	-380,03
low max Wnd ;315°_1P2_X	1P2	low max Wnd ;315°	GCS	X	Kracht	-195,48
low max Wnd ;315°_1P2_Y	1P2	low max Wnd ;315°	GCS	Y	Kracht	-167,75
low max Wnd	1P2	low max Wnd ;315°	GCS	Z	Kracht	-1024,98

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
;315°_1P2_Z						
low max Wnd ;315°_1X_X1	1X10	low max Wnd ;315°	GCS	X	Kracht	51,98
low max Wnd ;315°_1X_Y1	1X10	low max Wnd ;315°	GCS	Y	Kracht	2,31
low max Wnd ;315°_1X_Z1	1X10	low max Wnd ;315°	GCS	Z	Kracht	185,50
low max Wnd ;315°_1XY3_X	1XY3	low max Wnd ;315°	GCS	X	Kracht	-157,97
low max Wnd ;315°_1XY3_Y	1XY3	low max Wnd ;315°	GCS	Y	Kracht	-130,11
low max Wnd ;315°_1XY3_Z	1XY3	low max Wnd ;315°	GCS	Z	Kracht	841,79
low max Wnd ;315°_1Y2_X	1Y2	low max Wnd ;315°	GCS	X	Kracht	91,00
low max Wnd ;315°_1Y2_Y	1Y2	low max Wnd ;315°	GCS	Y	Kracht	-36,92
low max Wnd ;315°_1Y2_Z	1Y2	low max Wnd ;315°	GCS	Z	Kracht	-380,03

6.1.9. Belastingsgevallen - low max Wnd ;45°

Naam	Omschrijving	Actie type	Lastgroep	Duur	'Master' belastingsgeval
	Spec	Type last			
low max Wnd ;45°		Variabel	LG4	Kort	Geen
	Standaard	Statisch			



6.1.9.1. Puntlast op knoop

Naam	Knoop	Belastingsgeval	Systeem	Rich	Type	Waarde - F [kN]
low max Wnd ;45°_1P_X	1P	low max Wnd ;45°	GCS	X	Kracht	51,93
low max Wnd ;45°_1P_Y	1P	low max Wnd ;45°	GCS	Y	Kracht	-2,30
low max Wnd ;45°_1P_Z	1P	low max Wnd ;45°	GCS	Z	Kracht	185,31
low max Wnd ;45°_1X_X	1X	low max Wnd ;45°	GCS	X	Kracht	-195,39
low max Wnd ;45°_1X_Y	1X	low max Wnd ;45°	GCS	Y	Kracht	167,69
low max Wnd ;45°_1X_Z	1X	low max Wnd ;45°	GCS	Z	Kracht	-1024,47
low max Wnd ;45°_1XY_X	1XY	low max Wnd ;45°	GCS	X	Kracht	90,94
low max Wnd ;45°_1XY_Y	1XY	low max Wnd ;45°	GCS	Y	Kracht	36,94
low max Wnd ;45°_1XY_Z	1XY	low max Wnd ;45°	GCS	Z	Kracht	-379,83
low max Wnd ;45°_1Y_X	1Y	low max Wnd ;45°	GCS	X	Kracht	-157,87
low max Wnd ;45°_1Y_Y	1Y	low max Wnd ;45°	GCS	Y	Kracht	130,06
low max Wnd ;45°_1Y_Z	1Y	low max Wnd ;45°	GCS	Z	Kracht	841,27
low max Wnd ;45°_1P2_X	1P2	low max Wnd ;45°	GCS	X	Kracht	51,93
low max Wnd ;45°_1P2_Y	1P2	low max Wnd ;45°	GCS	Y	Kracht	-2,30
low max Wnd ;45°_1P2_Z	1P2	low max Wnd ;45°	GCS	Z	Kracht	185,31
low max Wnd ;45°_1X_X1	1X10	low max Wnd ;45°	GCS	X	Kracht	-195,39
low max Wnd ;45°_1X_Y1	1X10	low max Wnd ;45°	GCS	Y	Kracht	167,69
low max Wnd ;45°_1X_Z1	1X10	low max Wnd ;45°	GCS	Z	Kracht	-1024,47
low max Wnd ;45°_1XY3_X	1XY3	low max Wnd ;45°	GCS	X	Kracht	90,94
low max Wnd ;45°_1XY3_Y	1XY3	low max Wnd ;45°	GCS	Y	Kracht	36,94
low max Wnd ;45°_1XY3_Z	1XY3	low max Wnd ;45°	GCS	Z	Kracht	-379,83
low max Wnd ;45°_1Y2_X	1Y2	low max Wnd ;45°	GCS	X	Kracht	-157,87
low max Wnd ;45°_1Y2_Y	1Y2	low max Wnd ;45°	GCS	Y	Kracht	130,06
low max Wnd ;45°_1Y2_Z	1Y2	low max Wnd ;45°	GCS	Z	Kracht	841,27

6.2. Niet-lineaire combinaties

Naam	Type	Belastingsgevallen	Coëff. [-]
high max Wnd ;45° + EG_Ongunstig	Uiterste Grenstoestand	E.G.	1,350
		high max Wnd ;45°	1,000
high max Wnd ;135° + EG_Ongunstig	Uiterste Grenstoestand	E.G.	1,350
		high max Wnd ;135°	1,000
high max Wnd ;315° + EG_Ongunstig	Uiterste Grenstoestand	E.G.	1,350
		high max Wnd ;315°	1,000
high max Wnd ;225° + EG_Ongunstig	Uiterste Grenstoestand	E.G.	1,350

Naam	Type	Belastingsgevallen	Coëff. [-]
		high max Wnd ;225°	1,000
low max Wnd ;45° + EG_Gunstig	Uiterste Grenstoestand	E.G.	0,900
		low max Wnd ;45°	1,000
low max Wnd ;135° + EG_Gunstig	Uiterste Grenstoestand	E.G.	0,900
		low max Wnd ;135°	1,000
low max Wnd ;315° + EG_Gunstig	Uiterste Grenstoestand	E.G.	0,900
		low max Wnd ;315°	1,000
low max Wnd ;225° + EG_Gunstig	Uiterste Grenstoestand	E.G.	0,900
		low max Wnd ;225°	1,000

6.3. Resultaatklasses

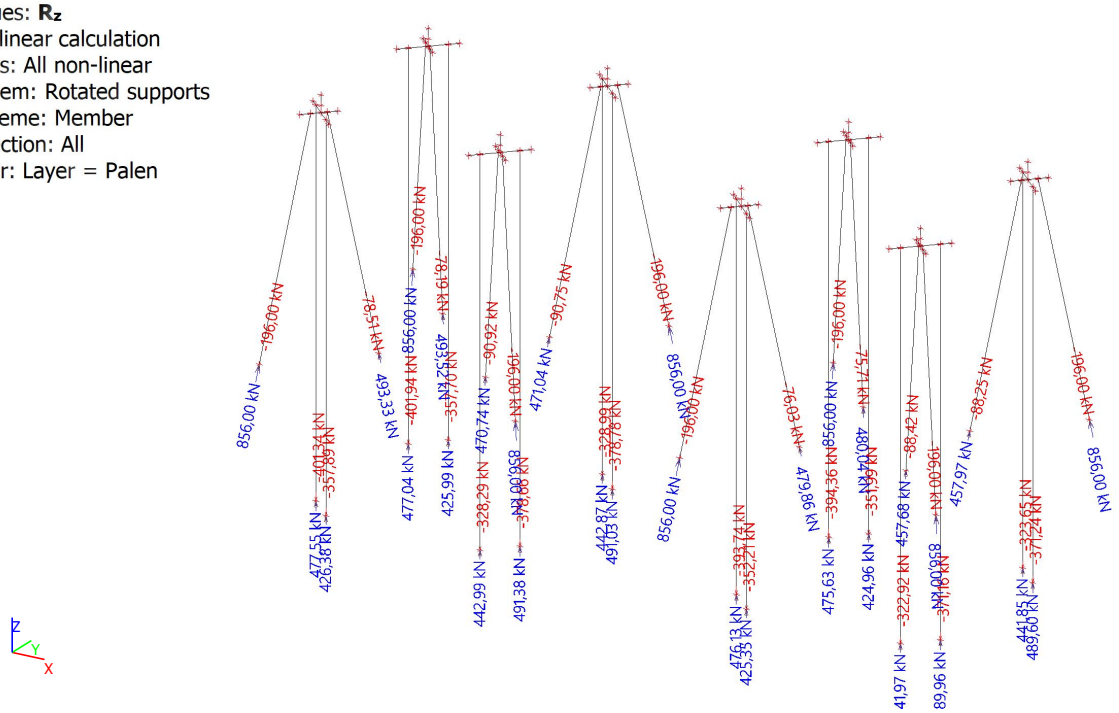
Naam	Lijst
All non-linear	high max Wnd ;45° + EG_Ongunstig
	high max Wnd ;135° + EG_Ongunstig
	high max Wnd ;315° + EG_Ongunstig
	high max Wnd ;225° + EG_Ongunstig
	low max Wnd ;45° + EG_Gunstig
	low max Wnd ;135° + EG_Gunstig
	low max Wnd ;315° + EG_Gunstig
	low max Wnd ;225° + EG_Gunstig

7. Resultaten

7.1. Reacties van de palen

7.1.1. Reactions; R_z

Values: R_z
Nonlinear calculation
Class: All non-linear
System: Rotated supports
Extreme: Member
Selection: All
Filter: Layer = Palen



7.1.2. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = LD1(31-plank) - General cross-section
Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P_1/N3	high max Wnd ;135° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	0,00	0,0	0,0
S_P_1/N3	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.3. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Globaal
Selectie: Alle
Filter: Doorsnede = LEKA Paal - type e (CHS273.0/10.0)
Knoopreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_XY_6/N59	low max Wnd ;225° + EG_Gunstig	0,00	0,00	**-401,94**	0,00	0,00	0,00	0,0	0,0
S_XY_8/N66	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**491,38**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.1.4. Reacties

Niet-lineaire berekening
Klasse: All non-linear
Systeem: Schuine steunpunten
Extreme: Element
Selectie: Alle
Filter: Laag = Palen

Knooppreacties

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
S_P_1/N3	high max Wnd ;135° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	0,00	0,0	0,0
S_P_1/N3	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_P_2/N30	high max Wnd ;315° + EG_Ongunstig	0,00	0,00	**-78,51**	0,00	0,00	0,00	0,0	0,0
S_P_2/N30	low max Wnd ;135° + EG_Gunstig	**0,00**	**0,00**	**493,33**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_1/N33	high max Wnd ;315° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	0,00	0,0	0,0
S_XY_1/N33	high max Wnd ;135° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_2/N35	high max Wnd ;135° + EG_Ongunstig	0,00	0,00	**-90,75**	0,00	0,00	0,00	0,0	0,0
S_XY_2/N35	low max Wnd ;315° + EG_Gunstig	**0,00**	**0,00**	**471,04**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y_1/N40	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y_1/N40	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	**0,00**	0,0	0,0
S_Y_2/N42	high max Wnd ;225° + EG_Ongunstig	0,00	0,00	**-90,92**	0,00	0,00	0,00	0,0	0,0
S_Y_2/N42	low max Wnd ;45° + EG_Gunstig	**0,00**	**0,00**	**470,74**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_2/N47	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**-196,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_2/N47	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**856,00**	0,00	0,00	**0,00**	0,0	0,0
S_X_1/N49	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**493,52**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_1/N49	high max Wnd ;45° +	0,00	0,00	**-78,19**	0,00	0,00	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
S_XY_3/N53	low max Wnd ;315° + EG_Gunstig	0,00	0,00	**-328,99**	0,00	0,00	0,00	0,0	0,0
S_XY_3/N53	high max Wnd ;135° + EG_Ongunstig	**0,00**	**0,00**	**442,87**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_4/N54	low max Wnd ;315° + EG_Gunstig	0,00	0,00	**-378,78**	0,00	0,00	0,00	0,0	0,0
S_XY_4/N54	high max Wnd ;135° + EG_Ongunstig	**0,00**	**0,00**	**491,03**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_6/N59	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**-401,94**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_6/N59	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**477,04**	0,00	0,00	**0,00**	0,0	0,0
S_XY_5/N58	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**-357,70**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_5/N58	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**425,99**	0,00	0,00	**0,00**	0,0	0,0
S_XY_8/N66	low max Wnd ;45° + EG_Gunstig	0,00	0,00	**-378,66**	0,00	0,00	0,00	0,0	0,0
S_XY_8/N66	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**491,38**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_7/N65	low max Wnd ;45° + EG_Gunstig	0,00	0,00	**-328,29**	0,00	0,00	0,00	0,0	0,0
S_XY_7/N65	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**442,99**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_9/N69	low max Wnd ;135° + EG_Gunstig	0,00	0,00	**-357,89**	0,00	0,00	0,00	0,0	0,0
S_XY_9/N69	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**426,38**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_10/N70	low max Wnd ;135° + EG_Gunstig	0,00	0,00	**-401,34**	0,00	0,00	0,00	0,0	0,0
S_XY_10/N70	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**477,55**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_P_3/N72	high max Wnd ;135° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	0,00	0,0	0,0
S_P_3/N72	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_P_4/N74	high max Wnd ;315° + EG_Ongunstig	0,00	0,00	**-76,03**	0,00	0,00	0,00	0,0	0,0
S_P_4/N74	low max Wnd ;135° + EG_Gunstig	**0,00**	**0,00**	**479,86**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_11/N79	high max Wnd ;315° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	0,00	0,0	0,0
S_XY_11/N79	high max Wnd ;135° +	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0

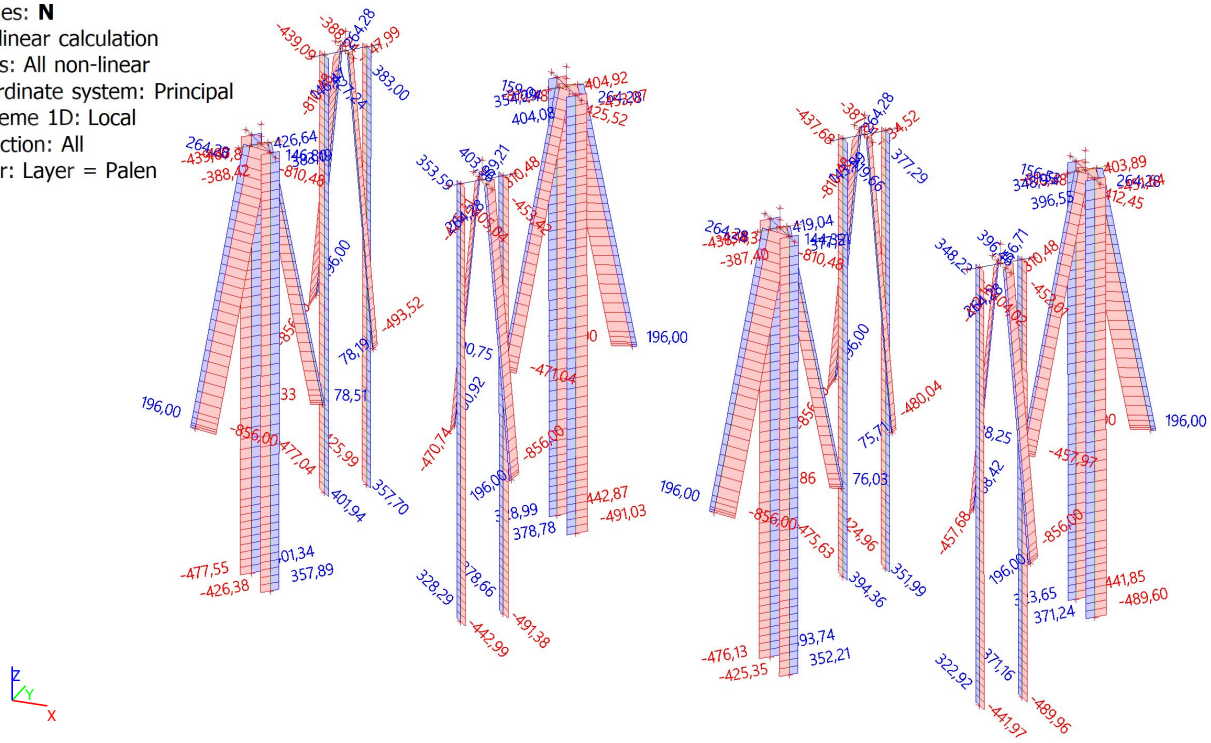
Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
S_XY_12/N81	high max Wnd ;135° + EG_Ongunstig	0,00	0,00	**-88,25**	0,00	0,00	0,00	0,0	0,0
S_XY_12/N81	low max Wnd ;315° + EG_Gunstig	**0,00**	**0,00**	**457,97**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y_3/N86	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**856,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_Y_3/N86	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**-196,00**	0,00	0,00	**0,00**	0,0	0,0
S_Y_4/N88	high max Wnd ;225° + EG_Ongunstig	0,00	0,00	**-88,42**	0,00	0,00	0,00	0,0	0,0
S_Y_4/N88	low max Wnd ;45° + EG_Gunstig	**0,00**	**0,00**	**457,68**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_3/N93	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**-196,00**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_3/N93	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**856,00**	0,00	0,00	**0,00**	0,0	0,0
S_X_4/N95	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**480,04**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_X_4/N95	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**-75,71**	0,00	0,00	**0,00**	0,0	0,0
S_XY_13/N99	low max Wnd ;315° + EG_Gunstig	0,00	0,00	**-323,65**	0,00	0,00	0,00	0,0	0,0
S_XY_13/N99	high max Wnd ;135° + EG_Ongunstig	**0,00**	**0,00**	**441,85**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_14/N100	low max Wnd ;315° + EG_Gunstig	0,00	0,00	**-371,24**	0,00	0,00	0,00	0,0	0,0
S_XY_14/N100	high max Wnd ;135° + EG_Ongunstig	**0,00**	**0,00**	**489,60**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_16/N105	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**-394,36**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_16/N105	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**475,63**	0,00	0,00	**0,00**	0,0	0,0
S_XY_15/N104	low max Wnd ;225° + EG_Gunstig	**0,00**	**0,00**	**-351,99**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_15/N104	high max Wnd ;45° + EG_Ongunstig	0,00	0,00	**424,96**	0,00	0,00	**0,00**	0,0	0,0
S_XY_18/N110	low max Wnd ;45° + EG_Gunstig	0,00	0,00	**-371,16**	0,00	0,00	0,00	0,0	0,0
S_XY_18/N110	high max Wnd ;225° + EG_Ongunstig	**0,00**	**0,00**	**489,96**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_17/N109	low max Wnd ;45° + EG_Gunstig	0,00	0,00	**-322,92**	0,00	0,00	0,00	0,0	0,0
S_XY_17/N109	high max Wnd ;225° +	**0,00**	**0,00**	**441,97**	**0,00**	**0,00**	**0,00**	0,0	0,0

Naam	Belasting	R_x [kN]	R_y [kN]	R_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	e_x [mm]	e_y [mm]
	EG_Ongunstig								
S_XY_19/N113	low max Wnd ;135° + EG_Gunstig	0,00	0,00	**-352,21**	0,00	0,00	0,00	0,0	0,0
S_XY_19/N113	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**425,35**	**0,00**	**0,00**	**0,00**	0,0	0,0
S_XY_20/N114	low max Wnd ;135° + EG_Gunstig	0,00	0,00	**-393,74**	0,00	0,00	0,00	0,0	0,0
S_XY_20/N114	high max Wnd ;315° + EG_Ongunstig	**0,00**	**0,00**	**476,13**	**0,00**	**0,00**	**0,00**	0,0	0,0

7.2. Krachten van de Funderingspalen

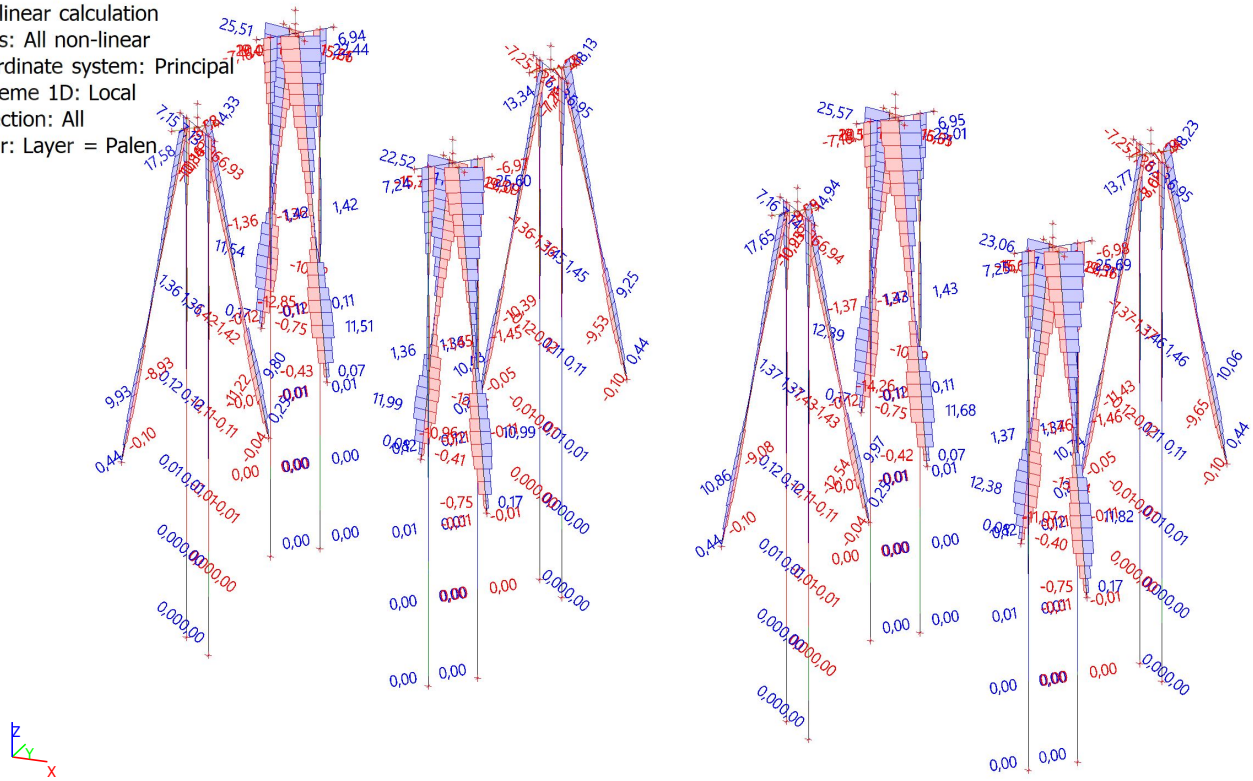
7.2.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



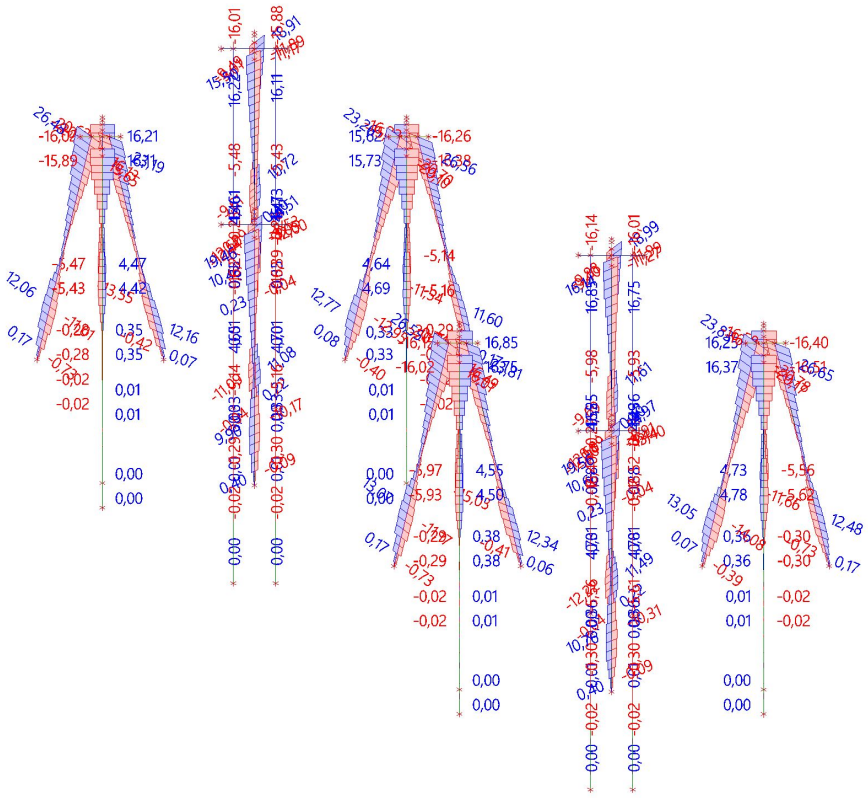
7.2.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen



7.2.3. Interne 1D- krachten; V_z

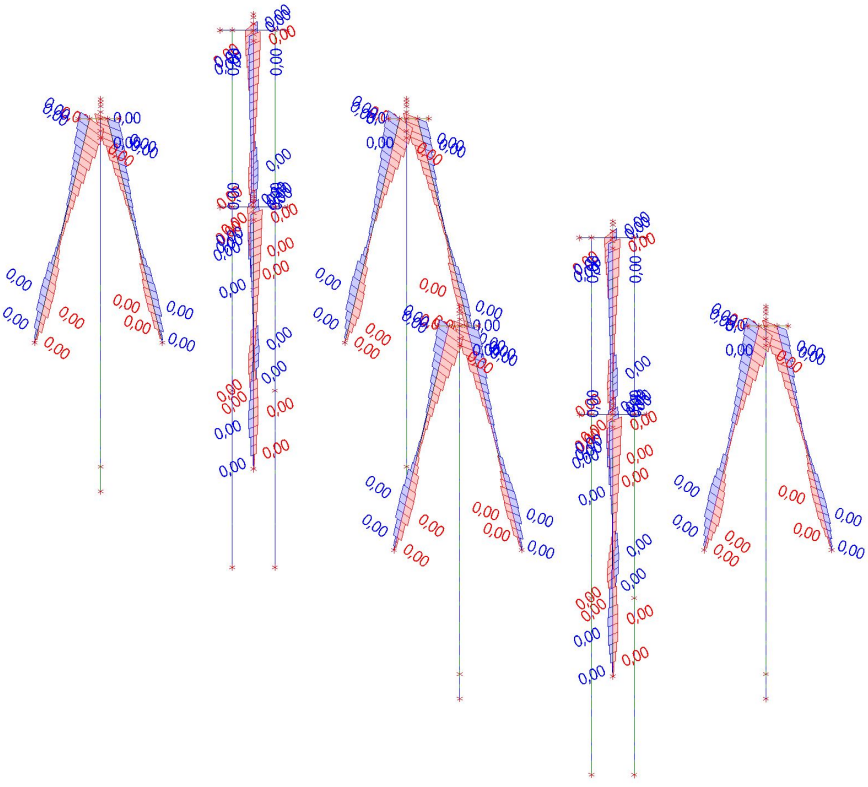
Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





7.2.4. Interne 1D- krachten; M_x

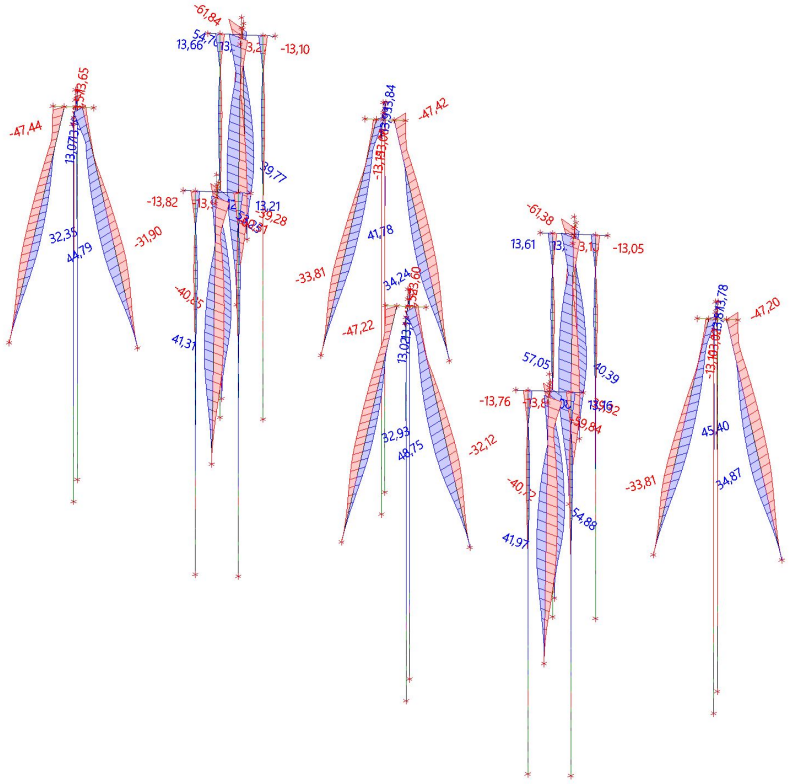
Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Palen





7.2.5. Interne 1D- krachten; M_z

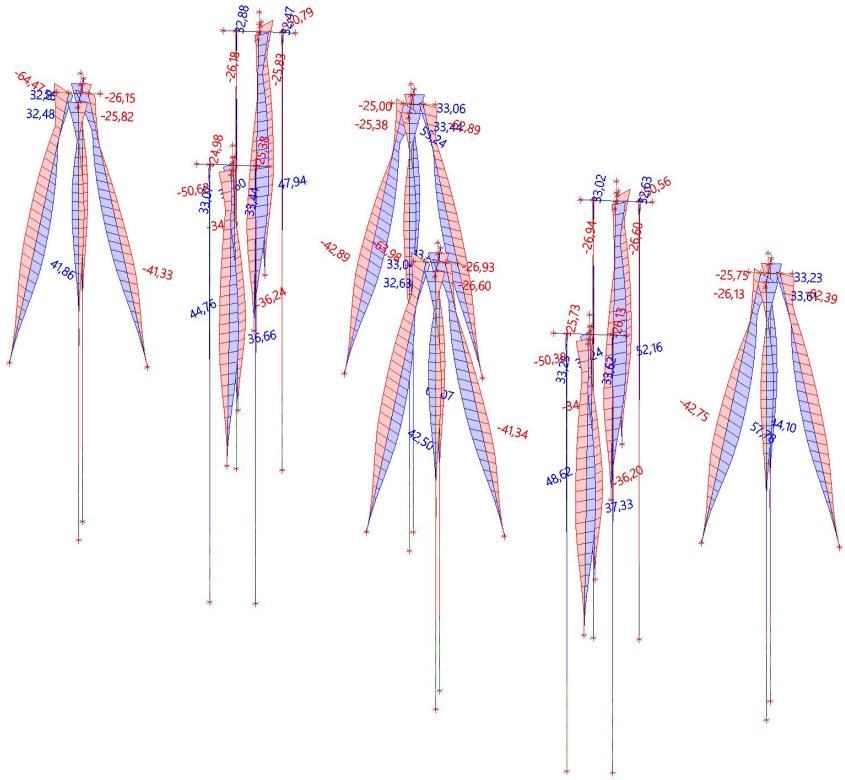
Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen





7.2.6. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Palen





7.2.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
De selectie bevat niets dat kan worden weergegeven:

7.2.8. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
De selectie bevat niets dat kan worden weergegeven:

7.3. Krachten van de Poeren

7.3.1. Interne 1D-krachten

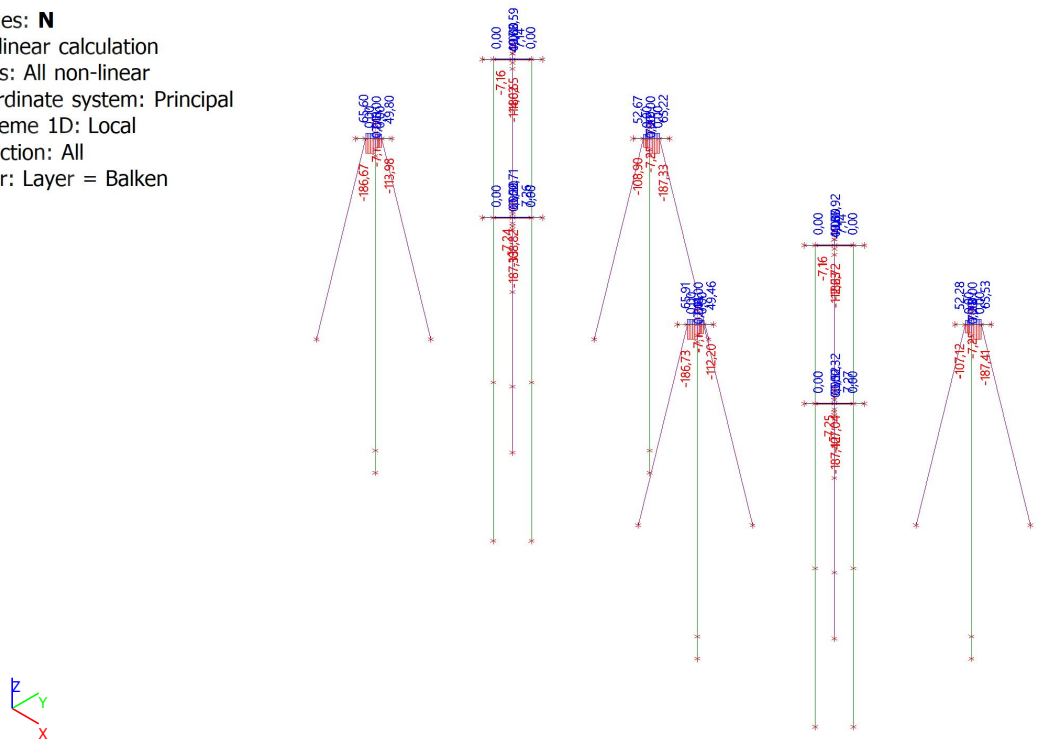
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Poer - Rectangle (550,00; 550,00)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Opstort_P3	0,570	low max Wnd ;225° + EG_Gunstig	Poer - Rectangle (550,00; 550,00)	**871,65**	161,06	-136,48	**0,00**	0,00	0,00
Opstort_P1	0,000	high max Wnd ;135° + EG_Ongunstig	Poer - Rectangle (550,00; 550,00)	-1085,28	178,64	**-204,51**	0,00	**116,57**	-101,82
Opstort_P3	0,000	high max Wnd ;45° + EG_Ongunstig	Poer - Rectangle (550,00; 550,00)	-1066,73	**-202,31**	**174,97**	0,00	**-99,73**	**115,32**
Opstort_P2	0,000	high max Wnd ;225° + EG_Ongunstig	Poer - Rectangle (550,00; 550,00)	**-1085,59**	**204,60**	-178,62	0,00	101,81	**-116,62**

7.4. Krachten van de Funderingsbalken

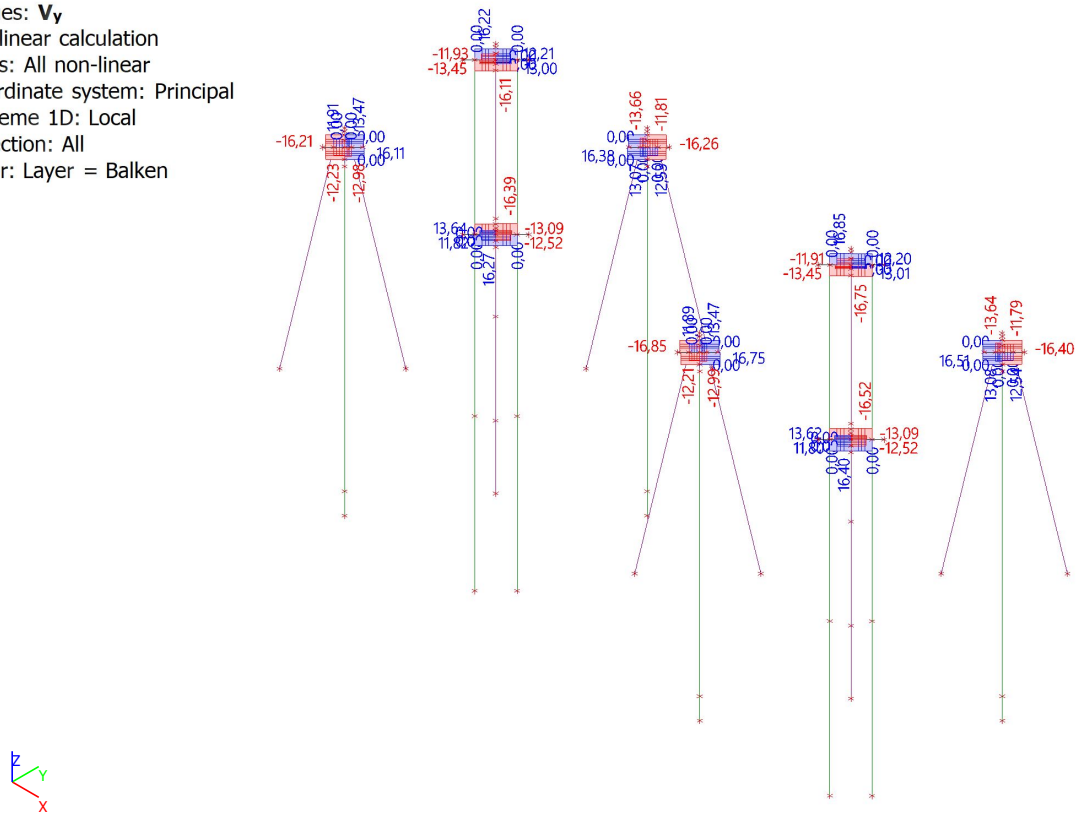
7.4.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



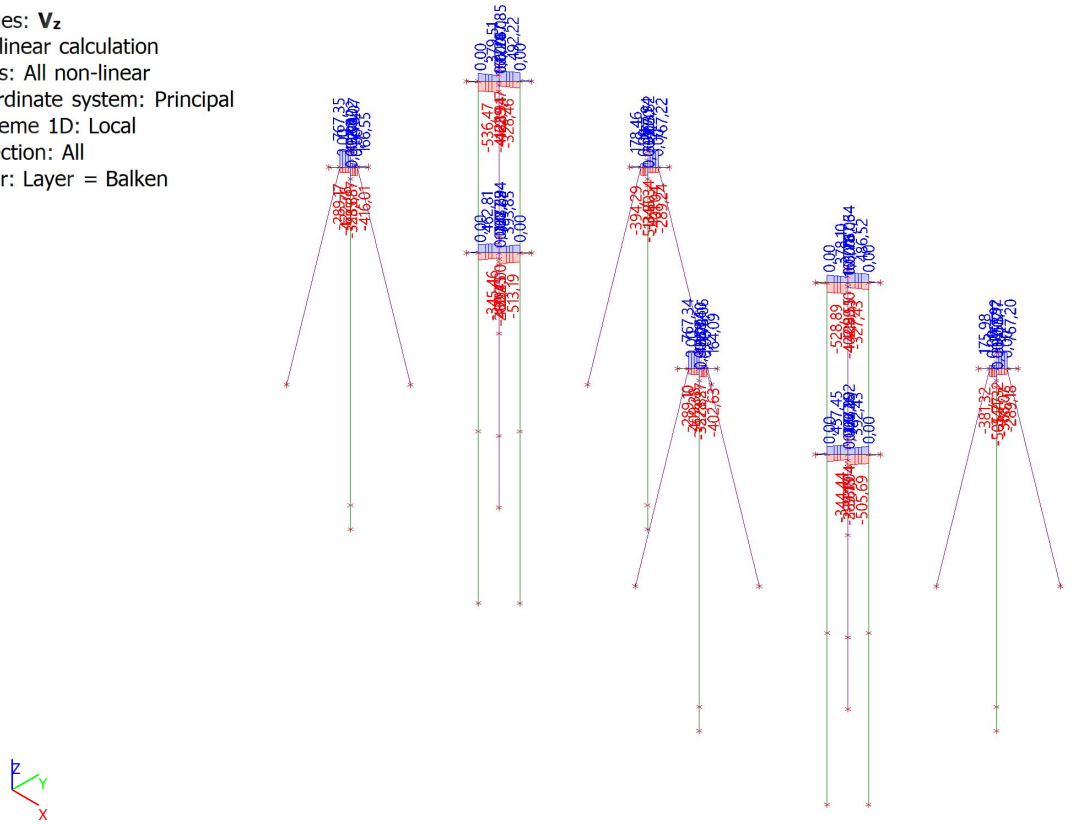
7.4.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



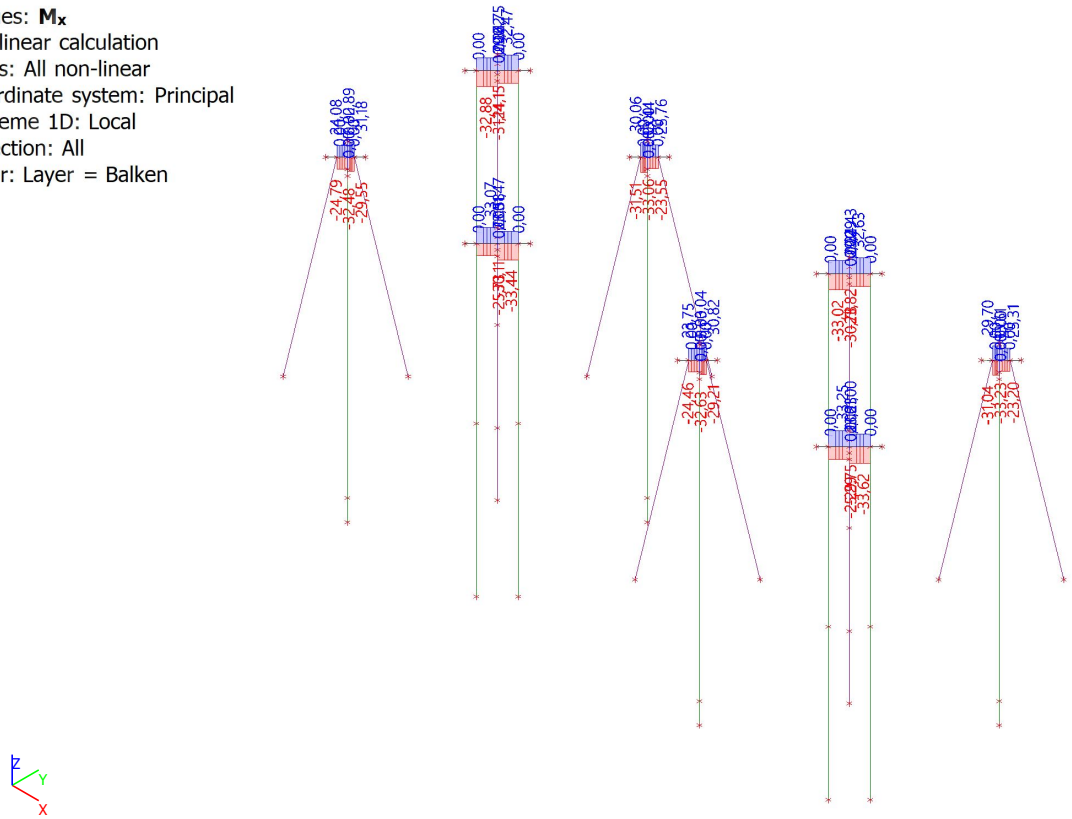
7.4.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



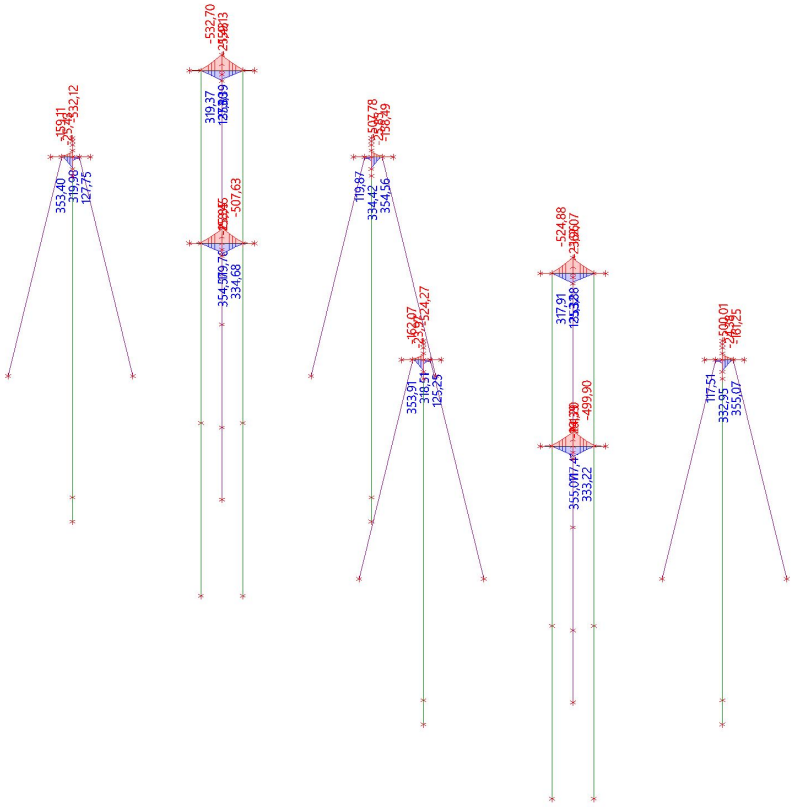
7.4.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Layer = Balken



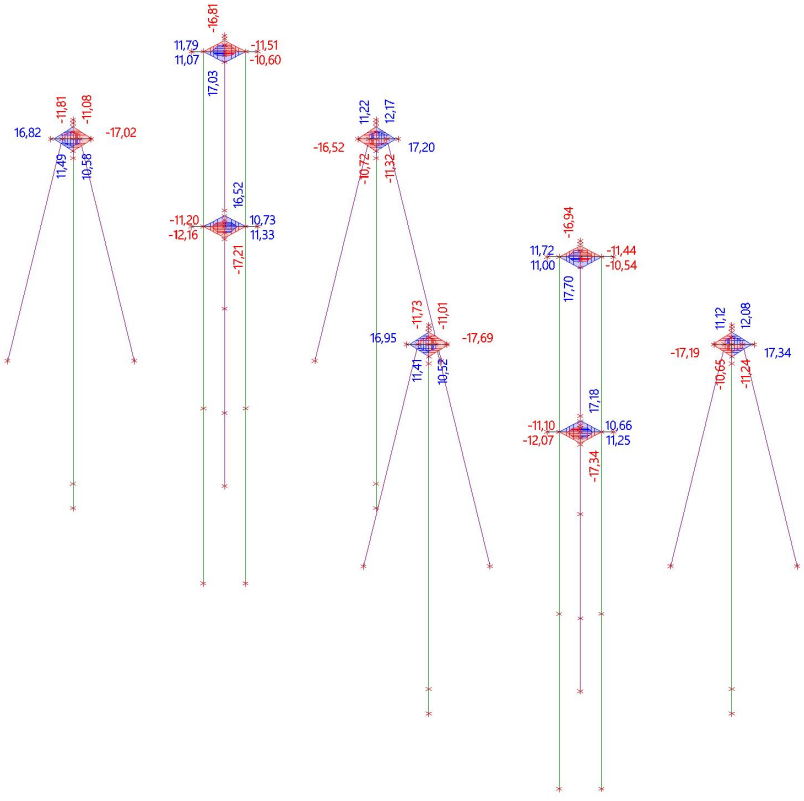
7.4.5. Interne 1D- krachten; M_y

Values: M_y
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.6. Interne 1D- krachten; M_z

Values: M_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Layer = Balken



7.4.7. Interne 1D-krachten

Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Balk - Rectangle (1000,00; 900,00)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Poer_Y_3	0,560+	low max Wnd ;225° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	**-187,42**	5,00	777,92	7,99	-62,11	1,70
Poer_X_3	0,560+	high max Wnd ;225° + EG_Ongunstig	Balk - Rectangle (1000,00; 900,00)	**65,92**	-4,94	-273,02	-6,62	-10,30	-1,42
Poer_X_1	0,340-	low max Wnd ;225° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	-114,02	5,57	**-422,94**	10,21	-14,85	-2,15
Poer_X_2	0,560+	low max Wnd ;45° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	-186,65	5,55	**778,08**	9,08	-63,87	1,93
Poer_XY_2	0,000	low max Wnd ;225° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	-19,70	**-13,66**	-51,84	**-31,51**	8,80	11,22
Poer_Y_2	0,000	low max Wnd ;135° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	-19,68	**13,64**	-51,88	**31,47**	8,89	-11,20
Poer_P_3	1,100	high max Wnd ;135° + EG_Ongunstig	Balk - Rectangle (1000,00; 900,00)	65,91	4,94	-289,10	6,33	**-162,07**	4,03
Poer_XY_3	1,100	low max Wnd ;135° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	-187,41	-5,02	767,20	-8,11	**355,07**	-4,43
Poer_Y_1	1,100	low max Wnd ;135° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	5,16	-12,52	-47,47	-25,73	-26,88	**-12,16**
Poer_XY_1	1,100	low max Wnd ;225° + EG_Gunstig	Balk - Rectangle (1000,00; 900,00)	5,22	12,53	-47,66	25,76	-26,98	**12,17**

7.4.8. Interne 1D-krachten

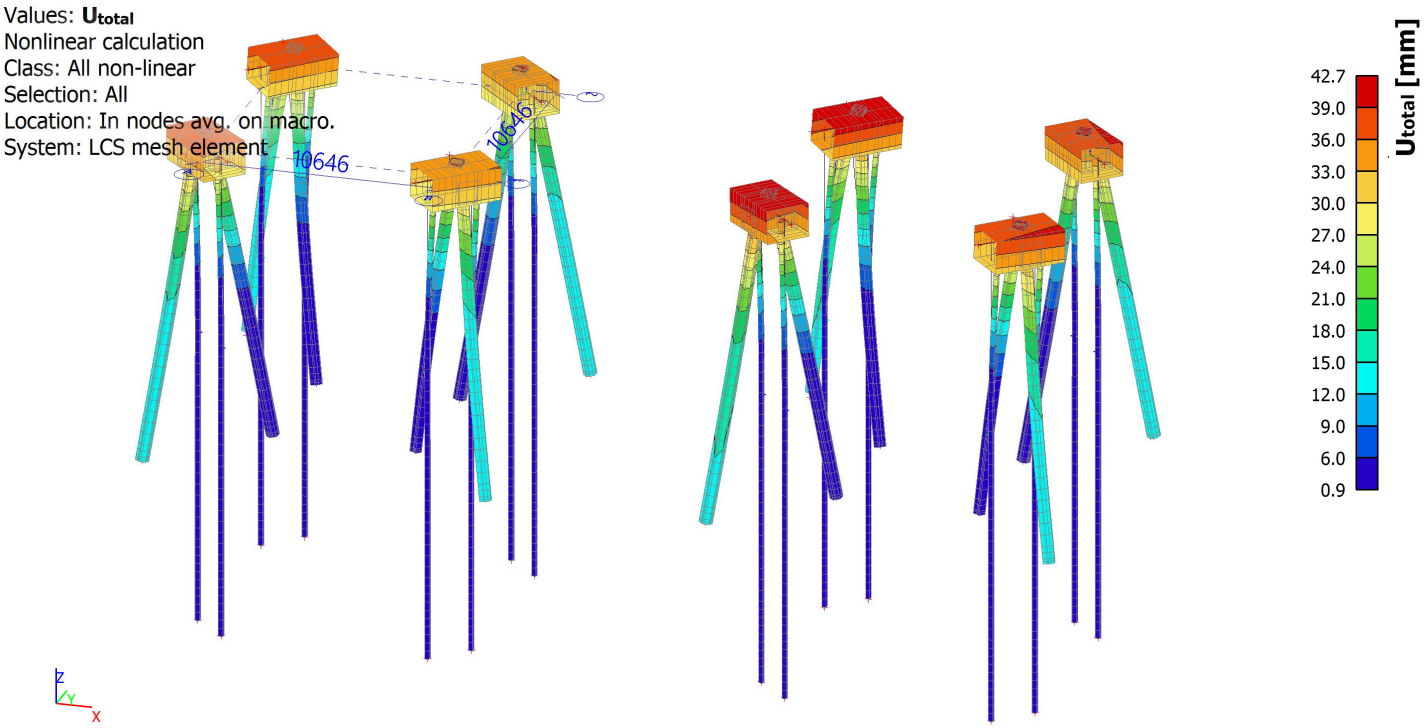
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = lijnpoer - Rectangle (1500,00; 2000,00)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
Opstort9:Opstort-1700:848177	1,650+	low max Wnd ;225° + EG_Gunstig	lijnpoer - Rectangle (1500,00; 2000,00)	**-7,25**	1,42	19,38	1,84	-9,56	-1,49
Opstort9:Opstort-1700:848177	0,600+	low max Wnd ;225° +	lijnpoer - Rectangle	**7,28**	-2,34	-69,98	-3,60	1,96	0,00

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
		EG_Gunstig	(1500,00; 2000,00)						
Opstort9:Opstort-1700:848176	1,650+	low max Wnd ;135° + EG_Gunstig	lijnpoer - Rectangle (1500,00; 2000,00)	-3,33	16,11	**492,42**	25,82	-497,45	-16,92
Opstort9:Opstort-1700:848179	0,600+	high max Wnd ;225° + EG_Ongunstig	lijnpoer - Rectangle (1500,00; 2000,00)	-3,72	-16,52	392,43	**-33,62**	-24,09	0,00
Opstort9:Opstort-1700:848177	0,600+	high max Wnd ;135° + EG_Ongunstig	lijnpoer - Rectangle (1500,00; 2000,00)	-3,67	16,51	392,07	**33,61**	-23,98	0,00
Opstort9:Opstort-1700:848172	1,650-	low max Wnd ;225° + EG_Gunstig	lijnpoer - Rectangle (1500,00; 2000,00)	3,64	16,22	**-536,47**	26,18	**-532,70**	17,03
Opstort9:Opstort-1700:848175	1,650-	high max Wnd ;225° + EG_Ongunstig	lijnpoer - Rectangle (1500,00; 2000,00)	-3,72	-16,39	289,59	-33,44	**334,68**	-17,21
Opstort9:Opstort-1700:848180	1,650-	low max Wnd ;135° + EG_Gunstig	lijnpoer - Rectangle (1500,00; 2000,00)	3,62	**-16,85**	-528,27	-26,93	-524,27	**-17,69**
Opstort9:Opstort-1700:848178	1,650-	low max Wnd ;225° + EG_Gunstig	lijnpoer - Rectangle (1500,00; 2000,00)	3,65	**16,85**	-528,89	26,94	-524,88	**17,70**

7.5. Vervormingen

7.5.1. 3D displacement; U_total



7.5.2. 3D verplaatsing

Niet-lineaire berekening
Klasse: All non-linear
Selectie: Alle
Locatie: In knopen gem. bij macro. Systeem: LCS net element
Resultaten op 1D-element:
Extreme 1D: Element

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
Paal_P_1	12,000-	22	low max Wnd ;45° + EG_Gunstig	0,0	0,0	0,0	0,1	0,0	0,0	**0,1**
Paal_P_1	0,000	28	low max Wnd ;135° + EG_Gunstig	-15,1	-19,8	-23,9	0,1	-3,7	3,1	**34,5**
Paal_P_2	13,767	27	low max Wnd ;225° + EG_Gunstig	0,3	0,0	0,1	-0,4	0,0	0,0	**0,3**
Paal_P_2	0,000	28	low max Wnd ;135° + EG_Gunstig	4,7	21,1	25,5	0,1	3,7	-3,2	**33,4**
Opstort_P	0,000	5	low max Wnd ;45° + EG_Gunstig	-0,3	-3,2	-5,6	-0,2	0,5	-0,2	**6,5**
Opstort_P	0,570	5	low max Wnd ;135° + EG_Gunstig	7,2	25,3	-28,7	-0,1	4,1	3,7	**38,9**
Poer_P_1	0,000	7	low max Wnd ;45° + EG_Gunstig	1,4	-5,5	-0,4	0,6	0,2	-0,2	**5,7**
Poer_P_1	0,000	3	low max Wnd ;135° + EG_Gunstig	35,0	-2,2	10,2	0,3	4,8	-0,1	**36,5**
Poer_P_2	0,000	7	low max Wnd ;45° +	1,4	-5,8	-0,6	0,5	0,2	-0,2	**6,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Poer_P_2	0,000	3	low max Wnd ;135° + EG_Gunstig	35,0	-2,3	4,9	0,3	4,9	-0,1	**35,5**
Paal_XY_1	12,000-	22	low max Wnd ;225° + EG_Gunstig	0,1	-0,1	0,0	0,1	0,0	0,0	**0,1**
Paal_XY_1	0,000	28	low max Wnd ;315° + EG_Gunstig	-14,2	-18,3	-22,8	0,1	-3,5	2,9	**32,5**
Paal_XY_2	13,767	27	low max Wnd ;45° + EG_Gunstig	0,3	0,0	0,1	-0,4	0,0	0,0	**0,3**
Paal_XY_2	0,000	28	low max Wnd ;315° + EG_Gunstig	4,5	19,5	24,3	0,2	3,5	-3,0	**31,5**
Opstort_P1	0,000	5	high max Wnd ;225° + EG_Ongunstig	-0,8	-4,0	-5,5	-0,2	0,5	-0,3	**6,9**
Opstort_P1	0,570	5	low max Wnd ;315° + EG_Gunstig	6,8	23,5	-27,4	-0,1	4,0	3,5	**36,7**
Poer_XY_1	0,000	1	high max Wnd ;225° + EG_Ongunstig	1,0	-6,0	-0,4	0,6	0,2	-0,2	**6,1**
Poer_XY_1	0,000	3	low max Wnd ;315° + EG_Gunstig	33,0	-2,5	9,6	0,3	4,5	-0,1	**34,4**
Poer_XY_2	0,000	1	high max Wnd ;225° + EG_Ongunstig	1,0	-6,3	-0,6	0,6	0,2	-0,2	**6,4**
Poer_XY_2	0,000	3	low max Wnd ;315° + EG_Gunstig	33,0	-2,7	4,6	0,3	4,6	-0,1	**33,4**
Paal_Y_1	12,500-	22	low max Wnd ;135° + EG_Gunstig	0,1	0,0	-0,1	-0,1	0,0	0,0	**0,1**
Paal_Y_1	0,000	28	low max Wnd ;45° + EG_Gunstig	-14,1	-21,9	-19,4	-0,1	-3,1	3,4	**32,4**
Paal_Y_2	13,767	15	low max Wnd ;315° + EG_Gunstig	0,3	0,1	0,0	0,4	0,0	0,0	**0,3**
Paal_Y_2	0,000	28	low max Wnd ;45° + EG_Gunstig	4,4	23,3	20,7	-0,2	3,1	-3,4	**31,5**
Opstort_P2	0,000	5	high max Wnd ;135° + EG_Ongunstig	-0,8	5,5	4,0	0,2	-0,3	0,5	**6,9**
Opstort_P2	0,570	5	low max Wnd ;45° + EG_Gunstig	6,7	27,4	-23,4	0,1	3,5	4,0	**36,7**
Poer_Y_1	0,000	7	high max Wnd ;135° + EG_Ongunstig	1,0	6,0	-0,4	-0,6	0,2	0,2	**6,1**
Poer_Y_1	0,000	5	low max Wnd ;45° + EG_Gunstig	32,9	2,5	9,6	-0,3	4,5	0,1	**34,4**
Poer_Y_2	0,000	7	high max Wnd ;135° + EG_Ongunstig	1,0	6,2	-0,6	-0,6	0,2	0,2	**6,3**
Poer_Y_2	0,000	5	low max Wnd ;45° + EG_Gunstig	33,0	2,7	4,6	-0,3	4,6	0,1	**33,4**
Paal_X_2	11,500-	19	low max Wnd ;315° +	0,0	0,0	0,0	-0,1	0,0	0,1	**0,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_X_2	0,000	28	low max Wnd ;225° + EG_Gunstig	-15,0	-22,9	-20,9	-0,1	-3,3	3,5	**34,5**
Paal_X_1	13,767	28	low max Wnd ;135° + EG_Gunstig	0,3	0,1	0,0	0,4	0,0	0,0	**0,3**
Paal_X_1	0,000	28	low max Wnd ;225° + EG_Gunstig	4,7	24,4	22,4	-0,2	3,4	-3,5	**33,4**
Opstort_P3	0,000	1	low max Wnd ;315° + EG_Gunstig	-0,3	-5,7	-3,2	0,2	0,2	-0,5	**6,5**
Opstort_P3	0,570	1	low max Wnd ;225° + EG_Gunstig	7,2	-28,8	25,3	0,1	-3,7	-4,1	**39,0**
Poer_X_2	0,000	1	low max Wnd ;315° + EG_Gunstig	1,5	5,5	-0,4	-0,6	0,2	0,2	**5,7**
Poer_X_2	0,000	5	low max Wnd ;225° + EG_Gunstig	35,0	2,2	10,2	-0,3	4,8	0,1	**36,5**
Poer_X_1	0,000	1	low max Wnd ;315° + EG_Gunstig	1,4	5,8	-0,6	-0,5	0,2	0,2	**6,0**
Poer_X_1	0,000	5	low max Wnd ;225° + EG_Gunstig	35,1	2,3	4,9	-0,3	4,9	0,1	**35,5**
Opstort9:Opstort-1700:848169	1,300	7	high max Wnd ;225° + EG_Ongunstig	5,9	1,0	-0,5	-0,2	0,6	-0,2	**6,0**
Opstort9:Opstort-1700:848169	0,000	5	low max Wnd ;315° + EG_Gunstig	2,6	34,8	9,5	-4,6	0,2	-0,1	**36,2**
Paal_XY_3	21,720	5	low max Wnd ;45° + EG_Gunstig	0,0	0,0	0,0	-0,3	0,0	0,0	**0,1**
Paal_XY_3	0,000	1	low max Wnd ;315° + EG_Gunstig	-4,7	-2,5	31,0	0,1	4,6	0,3	**31,5**
Paal_XY_4	21,720	5	low max Wnd ;225° + EG_Gunstig	0,0	0,0	0,0	0,2	0,0	0,0	**0,0**
Paal_XY_4	0,000	1	low max Wnd ;315° + EG_Gunstig	-5,3	-2,5	31,2	0,1	4,6	0,2	**31,8**
Opstort9:Opstort-1700:848172	2,350	1	low max Wnd ;315° + EG_Gunstig	5,5	-1,4	-0,5	0,2	0,5	0,2	**5,7**
Opstort9:Opstort-1700:848172	0,000	3	low max Wnd ;225° + EG_Gunstig	2,3	-36,9	10,0	4,9	0,2	0,1	**38,3**
Paal_XY_5	21,720	5	low max Wnd ;315° + EG_Gunstig	0,0	0,0	0,0	-0,2	0,0	0,0	**0,0**
Paal_XY_5	0,000	1	low max Wnd ;225° + EG_Gunstig	-5,7	2,2	33,2	-0,1	4,9	-0,2	**33,7**
Paal_XY_6	21,720	5	low max Wnd ;315° + EG_Gunstig	0,0	0,0	0,0	-0,2	0,0	0,0	**0,1**
Paal_XY_6	0,000	1	low max Wnd ;225° + EG_Gunstig	-5,1	2,2	32,9	-0,1	4,9	-0,3	**33,4**
Opstort9:Opstort-1700:848175	1,300	1	high max Wnd ;135° +	5,9	-1,0	-0,5	0,2	0,6	0,2	**6,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Ongunstig							
Opstort9:Opstort-1700:848175	0,000	3	low max Wnd ;45° + EG_Gunstig	2,6	-34,8	9,5	4,6	0,3	0,1	**36,1**
Paal_XY_7	21,720	5	low max Wnd ;135° + EG_Gunstig	0,0	0,0	0,0	-0,2	0,0	0,0	**0,0**
Paal_XY_7	0,000	1	low max Wnd ;45° + EG_Gunstig	-5,3	2,5	31,2	-0,1	4,6	-0,3	**31,8**
Paal_XY_8	21,720	5	low max Wnd ;315° + EG_Gunstig	0,0	0,0	0,0	0,3	0,0	0,0	**0,1**
Paal_XY_8	0,000	1	low max Wnd ;45° + EG_Gunstig	-4,7	2,5	31,0	-0,1	4,6	-0,3	**31,4**
Opstort9:Opstort-1700:848176	2,350	7	low max Wnd ;45° + EG_Gunstig	5,5	1,4	-0,5	-0,2	0,5	-0,2	**5,7**
Opstort9:Opstort-1700:848176	0,000	5	low max Wnd ;135° + EG_Gunstig	2,3	36,9	10,0	-4,9	0,2	-0,1	**38,3**
Paal_XY_9	21,720	5	low max Wnd ;45° + EG_Gunstig	0,0	0,0	0,0	0,2	0,0	0,0	**0,1**
Paal_XY_9	0,000	1	low max Wnd ;135° + EG_Gunstig	-5,1	-2,2	32,9	0,1	4,9	0,3	**33,4**
Paal_XY_10	21,720	5	low max Wnd ;45° + EG_Gunstig	0,0	0,0	0,0	0,2	0,0	0,0	**0,0**
Paal_XY_10	0,000	1	low max Wnd ;135° + EG_Gunstig	-5,7	-2,2	33,1	0,1	4,9	0,2	**33,7**
Paal_P_3	12,000-	22	low max Wnd ;45° + EG_Gunstig	0,0	-0,1	0,0	0,1	0,0	0,0	**0,1**
Paal_P_3	0,000	28	low max Wnd ;135° + EG_Gunstig	-17,0	-21,7	-26,0	0,0	-4,1	3,4	**37,9**
Paal_P_4	13,767	27	low max Wnd ;225° + EG_Gunstig	0,3	0,0	0,1	-0,4	0,0	0,0	**0,3**
Paal_P_4	0,000	28	low max Wnd ;135° + EG_Gunstig	4,8	23,2	27,9	0,2	4,1	-3,5	**36,6**
Opstort_P4	0,000	5	high max Wnd ;45° + EG_Ongunstig	-0,8	-3,6	-5,4	-0,2	0,5	-0,3	**6,5**
Opstort_P4	0,570	5	low max Wnd ;135° + EG_Gunstig	8,3	27,7	-31,4	-0,1	4,5	4,0	**42,7**
Poer_P_3	0,000	7	low max Wnd ;45° + EG_Gunstig	1,4	-5,6	-0,4	0,6	0,2	-0,2	**5,8**
Poer_P_3	0,000	3	low max Wnd ;135° + EG_Gunstig	38,3	-2,3	11,6	0,3	5,3	-0,1	**40,1**
Poer_P_4	0,000	7	low max Wnd ;45° + EG_Gunstig	1,4	-5,8	-0,6	0,6	0,2	-0,2	**6,0**
Poer_P_4	0,000	3	low max Wnd ;135° + EG_Gunstig	38,4	-2,4	5,8	0,3	5,4	-0,1	**38,9**
Paal_XY_11	12,500-	22	low max Wnd ;225° +	0,1	-0,1	0,0	0,1	0,0	0,0	**0,1**

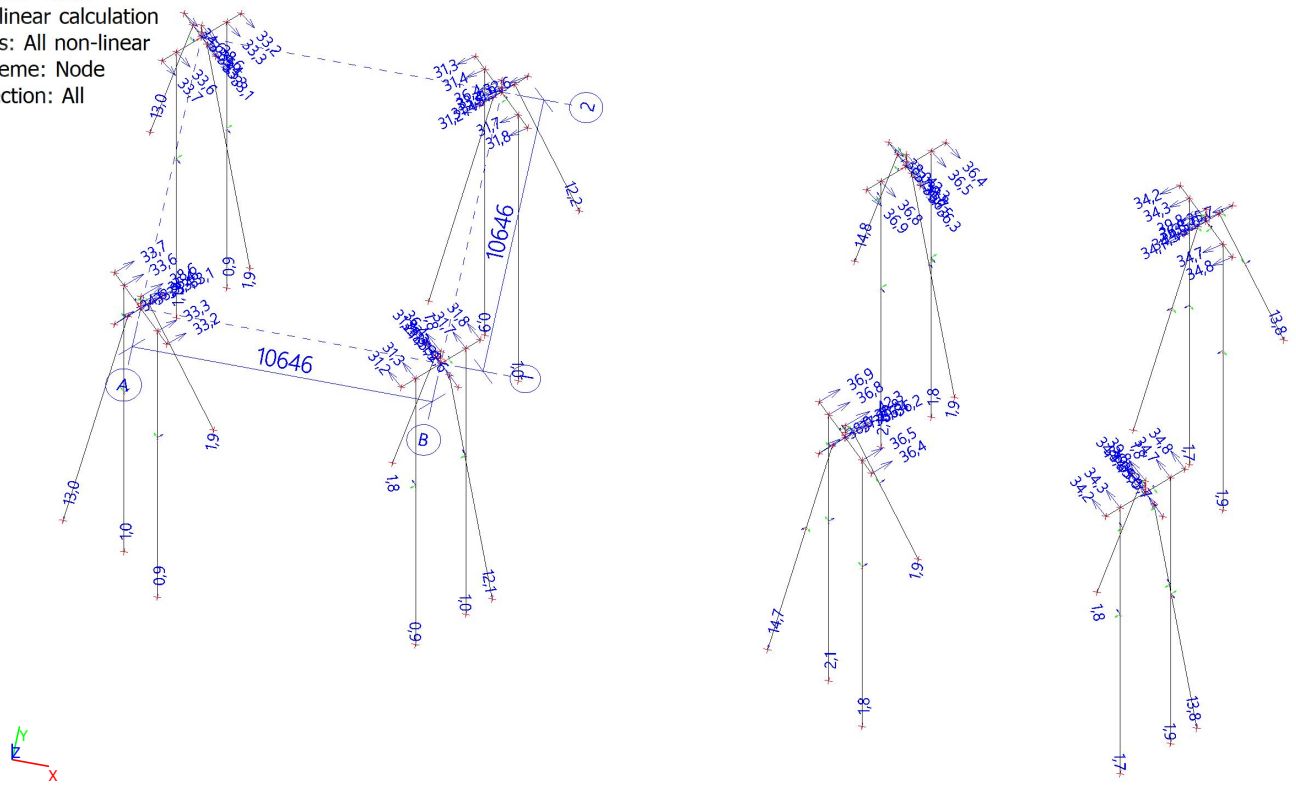
Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_XY_11	0,000	28	low max Wnd ;315° + EG_Gunstig	-15,9	-20,0	-24,8	0,1	-3,9	3,2	**35,6**
Paal_XY_12	13,767	27	low max Wnd ;45° + EG_Gunstig	0,3	0,0	0,1	-0,4	-0,1	0,0	**0,3**
Paal_XY_12	0,000	28	low max Wnd ;315° + EG_Gunstig	4,5	21,5	26,6	0,2	3,9	-3,3	**34,4**
Opstort_P5	0,000	5	high max Wnd ;225° + EG_Ongunstig	-0,8	-4,0	-5,6	-0,2	0,5	-0,3	**6,9**
Opstort_P5	0,570	5	low max Wnd ;315° + EG_Gunstig	7,8	25,7	-29,9	-0,1	4,3	3,8	**40,2**
Poer_XY_3	0,000	1	high max Wnd ;225° + EG_Ongunstig	1,0	-6,0	-0,4	0,6	0,2	-0,2	**6,1**
Poer_XY_3	0,000	3	low max Wnd ;315° + EG_Gunstig	36,0	-2,7	10,9	0,3	5,0	-0,1	**37,8**
Poer_XY_4	0,000	1	high max Wnd ;225° + EG_Ongunstig	1,0	-6,3	-0,6	0,6	0,2	-0,2	**6,4**
Poer_XY_4	0,000	3	low max Wnd ;315° + EG_Gunstig	36,1	-2,8	5,5	0,3	5,1	-0,1	**36,6**
Paal_Y_3	12,500-	22	low max Wnd ;135° + EG_Gunstig	0,1	0,0	-0,1	-0,1	0,0	0,0	**0,1**
Paal_Y_3	0,000	28	low max Wnd ;45° + EG_Gunstig	-15,8	-23,7	-21,2	-0,1	-3,4	3,7	**35,6**
Paal_Y_4	13,767	15	low max Wnd ;315° + EG_Gunstig	0,3	0,1	0,0	0,4	0,0	0,0	**0,3**
Paal_Y_4	0,000	28	low max Wnd ;45° + EG_Gunstig	4,5	25,4	22,7	-0,2	3,4	-3,7	**34,4**
Opstort_P6	0,000	5	high max Wnd ;135° + EG_Ongunstig	-0,8	5,6	4,0	0,2	-0,3	0,5	**6,9**
Opstort_P6	0,570	5	low max Wnd ;45° + EG_Gunstig	7,8	29,9	-25,7	0,1	3,8	4,3	**40,2**
Poer_Y_3	0,000	7	high max Wnd ;135° + EG_Ongunstig	1,0	6,0	-0,4	-0,6	0,2	0,2	**6,1**
Poer_Y_3	0,000	5	low max Wnd ;45° + EG_Gunstig	36,0	2,7	10,9	-0,4	5,0	0,1	**37,7**
Poer_Y_4	0,000	7	high max Wnd ;135° + EG_Ongunstig	1,0	6,3	-0,6	-0,6	0,2	0,2	**6,4**
Poer_Y_4	0,000	5	low max Wnd ;45° + EG_Gunstig	36,1	2,8	5,5	-0,3	5,1	0,1	**36,6**
Paal_X_3	11,500-	19	low max Wnd ;315° + EG_Gunstig	0,0	0,0	0,0	-0,1	0,0	0,1	**0,1**
Paal_X_3	0,000	28	low max Wnd ;225° + EG_Gunstig	-16,9	-24,9	-22,9	0,0	-3,6	3,9	**37,9**
Paal_X_4	13,767	28	low max Wnd ;135° +	0,3	0,1	0,0	0,4	0,0	0,0	**0,3**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_X_4	0,000	28	low max Wnd ;225° + EG_Gunstig	4,7	26,7	24,6	-0,2	3,7	-3,9	**36,6**
Opstort_P7	0,000	1	high max Wnd ;315° + EG_Ongunstig	-0,8	-5,4	-3,6	0,2	0,3	-0,5	**6,6**
Opstort_P7	0,570	1	low max Wnd ;225° + EG_Gunstig	8,3	-31,4	27,7	0,1	-4,0	-4,5	**42,7**
Poer_X_3	0,000	1	low max Wnd ;315° + EG_Gunstig	1,5	5,6	-0,4	-0,6	0,2	0,2	**5,8**
Poer_X_3	0,000	5	low max Wnd ;225° + EG_Gunstig	38,3	2,3	11,6	-0,3	5,3	0,1	**40,1**
Poer_X_4	0,000	1	low max Wnd ;315° + EG_Gunstig	1,4	5,8	-0,6	-0,6	0,2	0,2	**6,0**
Poer_X_4	0,000	5	low max Wnd ;225° + EG_Gunstig	38,4	2,5	5,8	-0,3	5,4	0,1	**38,9**
Opstort9:Opstort-1700:848177	1,300	7	high max Wnd ;225° + EG_Ongunstig	6,0	1,0	-0,5	-0,2	0,6	-0,2	**6,1**
Opstort9:Opstort-1700:848177	0,000	5	low max Wnd ;315° + EG_Gunstig	2,8	38,0	10,9	-5,1	0,3	-0,1	**39,6**
Paal_XY_13	21,720	5	low max Wnd ;45° + EG_Gunstig	0,1	0,0	0,0	-0,2	0,0	0,0	**0,1**
Paal_XY_13	0,000	1	low max Wnd ;315° + EG_Gunstig	-5,6	-2,6	33,9	0,1	5,1	0,4	**34,4**
Paal_XY_14	21,720	5	low max Wnd ;225° + EG_Gunstig	0,0	0,0	0,0	0,2	0,0	0,0	**0,0**
Paal_XY_14	0,000	1	low max Wnd ;315° + EG_Gunstig	-6,3	-2,6	34,1	0,1	5,1	0,3	**34,8**
Opstort9:Opstort-1700:848178	2,350	1	low max Wnd ;315° + EG_Gunstig	5,5	-1,4	-0,5	0,2	0,6	0,2	**5,7**
Opstort9:Opstort-1700:848178	0,000	3	low max Wnd ;225° + EG_Gunstig	2,4	-40,4	11,5	5,4	0,3	0,1	**42,1**
Paal_XY_15	21,720	5	low max Wnd ;315° + EG_Gunstig	0,0	0,0	0,0	-0,2	0,0	0,0	**0,0**
Paal_XY_15	0,000	1	low max Wnd ;225° + EG_Gunstig	-6,7	2,3	36,3	-0,1	5,4	-0,3	**37,0**
Paal_XY_16	21,720	5	low max Wnd ;135° + EG_Gunstig	0,1	0,0	0,0	0,3	0,0	0,0	**0,1**
Paal_XY_16	0,000	1	low max Wnd ;225° + EG_Gunstig	-6,0	2,3	36,1	-0,1	5,4	-0,3	**36,6**
Opstort9:Opstort-1700:848179	1,300	1	high max Wnd ;135° + EG_Ongunstig	6,0	-1,0	-0,5	0,2	0,6	0,2	**6,1**
Opstort9:Opstort-1700:848179	0,000	3	low max Wnd ;45° + EG_Gunstig	2,8	-38,0	10,9	5,1	0,3	0,1	**39,6**
Paal_XY_17	21,720	5	low max Wnd ;135° +	0,0	0,0	0,0	-0,2	0,0	0,0	**0,0**

Naam	dx [m]	Vezel	Belasting	u_x [mm]	u_y [mm]	u_z [mm]	φ_x [mrad]	φ_y [mrad]	φ_z [mrad]	U_{total} [mm]
			EG_Gunstig							
Paal_XY_17	0,000	1	low max Wnd ;45° + EG_Gunstig	-6,3	2,7	34,1	-0,1	5,1	-0,3	**34,8**
Paal_XY_18	21,720	5	low max Wnd ;315° + EG_Gunstig	0,1	0,0	0,0	0,2	0,0	0,0	**0,1**
Paal_XY_18	0,000	1	low max Wnd ;45° + EG_Gunstig	-5,6	2,7	33,8	-0,1	5,1	-0,4	**34,4**
Opstort9:Opstort-1700:848180	2,350	7	low max Wnd ;45° + EG_Gunstig	5,5	1,4	-0,5	-0,2	0,6	-0,2	**5,7**
Opstort9:Opstort-1700:848180	0,000	5	low max Wnd ;135° + EG_Gunstig	2,4	40,4	11,5	-5,4	0,2	-0,1	**42,1**
Paal_XY_19	21,720	5	low max Wnd ;225° + EG_Gunstig	0,1	0,0	0,0	-0,3	0,0	0,0	**0,1**
Paal_XY_19	0,000	1	low max Wnd ;135° + EG_Gunstig	-6,1	-2,3	36,1	0,1	5,4	0,3	**36,6**
Paal_XY_20	21,720	5	low max Wnd ;45° + EG_Gunstig	0,0	0,0	0,0	0,2	0,0	0,0	**0,0**
Paal_XY_20	0,000	1	low max Wnd ;135° + EG_Gunstig	-6,7	-2,3	36,3	0,1	5,4	0,3	**36,9**

7.5.3. Displacement of nodes; U_total

Values: U_{total}
Nonlinear calculation
Class: All non-linear
Extreme: Node
Selection: All



7.5.4. Verplaatsing van knopen

Niet-lineaire berekening
Klasse: All non-linear
Extreme: Knoop
Selectie: Alle

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N	low max Wnd ;135° + EG_Gunstig	**24,9**	**21,8**	**4,8**	**-3,3**	**3,6**	-0,1	**33,4**
N	high max Wnd ;315° + EG_Ongunstig	**-18,9**	**-15,6**	**-4,3**	**1,5**	**-1,9**	0,1	24,9
N	high max Wnd ;45° + EG_Ongunstig	5,2	-3,5	-0,8	0,2	0,5	**-0,2**	6,3
N	high max Wnd ;225° + EG_Ongunstig	-7,9	1,2	-1,9	-0,1	-0,7	**0,3**	8,2
N3	low max Wnd ;135° + EG_Gunstig	**1,4**	**1,5**	**12,8**	**-0,1**	**0,1**	0,0	**13,0**
N3	high max Wnd ;315° + EG_Ongunstig	**-0,7**	**-0,6**	**-7,4**	**0,1**	**-0,1**	0,1	7,4
N3	high max Wnd ;45° + EG_Ongunstig	-0,1	0,0	-0,3	0,0	0,0	**-0,1**	0,3
N3	high max Wnd ;225° + EG_Ongunstig	-0,1	-0,2	-1,6	0,0	0,0	**0,2**	1,6
N31	low max Wnd ;135° + EG_Gunstig	**24,9**	**21,8**	**7,4**	**-3,2**	**3,6**	-0,1	**33,9**
N31	high max Wnd ;315° + EG_Ongunstig	**-18,9**	**-15,6**	**-5,4**	**1,4**	**-1,8**	0,1	25,1
N31	high max Wnd ;45° + EG_Ongunstig	5,1	-3,4	-0,7	0,3	0,5	**-0,2**	6,2
N31	high max Wnd ;225° + EG_Ongunstig	-7,8	1,1	-2,0	-0,2	-0,7	**0,3**	8,1
N30	low max Wnd ;135° + EG_Gunstig	**-0,2**	**-0,1**	**-1,9**	**0,0**	**0,1**	-0,1	**1,9**
N30	high max Wnd ;315° + EG_Ongunstig	**0,3**	**0,3**	**1,0**	**0,1**	**-0,2**	0,2	1,1
N30	high max Wnd ;45° + EG_Ongunstig	0,0	0,2	-0,6	0,1	0,0	**-0,3**	0,6
N30	high max Wnd ;225° + EG_Ongunstig	0,2	0,0	-0,5	0,0	-0,1	**0,4**	0,5
N29	low max Wnd ;135° + EG_Gunstig	**24,9**	**21,8**	**3,2**	**-3,3**	**3,6**	-0,1	**33,3**
N29	high max Wnd ;315° + EG_Ongunstig	**-19,0**	**-15,5**	**-3,6**	**1,5**	**-1,9**	0,1	24,8
N29	high max Wnd ;45° + EG_Ongunstig	5,3	-3,6	-0,9	0,3	0,5	**-0,2**	6,4
N29	high max Wnd ;225° + EG_Ongunstig	-8,0	1,3	-1,8	-0,1	-0,7	**0,3**	8,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N1	low max Wnd ;135° + EG_Gunstig	**25,0**	**21,7**	**0,5**	**-3,3**	**3,6**	-0,1	**33,1**
N1	high max Wnd ;315° + EG_Ongunstig	**-19,0**	**-15,5**	**-2,2**	**1,5**	**-1,9**	0,1	24,6
N1	high max Wnd ;45° + EG_Ongunstig	5,4	-3,7	-1,0	0,3	0,5	**-0,2**	6,6
N1	high max Wnd ;225° + EG_Ongunstig	-8,1	1,4	-1,6	-0,1	-0,7	**0,3**	8,3
N28	low max Wnd ;135° + EG_Gunstig	**24,8**	**21,9**	**10,1**	**-3,2**	**3,6**	-0,1	**34,6**
N28	high max Wnd ;315° + EG_Ongunstig	**-18,8**	**-15,6**	**-6,7**	**1,4**	**-1,8**	0,1	25,4
N28	high max Wnd ;45° + EG_Ongunstig	5,0	-3,3	-0,6	0,3	0,5	**-0,2**	6,1
N28	high max Wnd ;225° + EG_Ongunstig	-7,7	1,0	-2,2	-0,2	-0,7	**0,3**	8,1
1P	low max Wnd ;135° + EG_Gunstig	**28,8**	**25,3**	**5,0**	**-3,7**	**4,1**	-0,1	**38,6**
1P	high max Wnd ;315° + EG_Ongunstig	**-21,1**	**-17,4**	**-4,6**	**2,0**	**-2,5**	0,1	27,7
1P	high max Wnd ;45° + EG_Ongunstig	5,8	-3,8	-0,8	0,3	0,7	**-0,2**	7,0
1P	high max Wnd ;225° + EG_Ongunstig	-8,7	1,2	-2,0	0,0	-1,0	**0,3**	9,1
1P1	low max Wnd ;135° + EG_Gunstig	**26,4**	**23,1**	**4,8**	**-3,3**	**3,6**	-0,1	**35,4**
1P1	high max Wnd ;315° + EG_Ongunstig	**-19,7**	**-16,2**	**-4,3**	**1,5**	**-1,9**	0,1	25,8
1P1	high max Wnd ;45° + EG_Ongunstig	5,4	-3,6	-0,8	0,2	0,5	**-0,2**	6,6
1P1	high max Wnd ;225° + EG_Ongunstig	-8,2	1,3	-1,9	-0,1	-0,7	**0,3**	8,5
N32	high max Wnd ;135° + EG_Ongunstig	**19,8**	**16,6**	**-4,5**	**-1,7**	**2,0**	0,1	26,3
N32	low max Wnd ;315° + EG_Gunstig	**-23,8**	**-20,2**	**4,5**	**3,1**	**-3,5**	-0,1	**31,5**
N32	low max Wnd ;225° + EG_Gunstig	-5,7	3,8	-0,4	-0,3	-0,6	**-0,2**	6,8
N32	high max Wnd ;45° + EG_Ongunstig	7,9	-0,8	-2,0	0,1	0,7	**0,3**	8,2
N33	low max Wnd ;315° + EG_Gunstig	**-1,3**	**-1,4**	**12,0**	**0,1**	**-0,1**	-0,1	**12,2**
N33	high max Wnd ;135° + EG_Ongunstig	**0,7**	**0,7**	**-7,9**	-0,1	0,1	0,1	7,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N33	low max Wnd ;135° + EG_Gunstig	0,4	0,4	-5,2	**-0,1**	**0,1**	0,1	5,2
N33	low max Wnd ;225° + EG_Gunstig	0,1	-0,1	-0,1	0,0	0,0	**-0,1**	0,1
N33	high max Wnd ;45° + EG_Ongunstig	0,1	0,2	-1,6	0,0	0,0	**0,2**	1,7
N34	high max Wnd ;135° + EG_Ongunstig	**19,7**	**16,7**	**-5,7**	**-1,6**	**1,9**	0,1	26,4
N34	low max Wnd ;315° + EG_Gunstig	**-23,7**	**-20,2**	**6,9**	**3,0**	**-3,4**	-0,1	**31,9**
N34	low max Wnd ;225° + EG_Gunstig	-5,6	3,7	-0,3	-0,3	-0,6	**-0,2**	6,7
N34	high max Wnd ;45° + EG_Ongunstig	7,8	-0,7	-2,1	0,2	0,7	**0,3**	8,1
N35	high max Wnd ;135° + EG_Ongunstig	**-0,3**	**-0,3**	**1,2**	**-0,2**	**0,2**	0,2	1,3
N35	low max Wnd ;45° + EG_Gunstig	-0,2	0,0	-0,3	**0,0**	0,1	0,3	0,3
N35	low max Wnd ;315° + EG_Gunstig	**0,1**	**0,1**	**-1,8**	0,0	**-0,1**	-0,2	**1,8**
N35	low max Wnd ;225° + EG_Gunstig	0,0	-0,1	-0,4	-0,1	0,0	**-0,3**	0,4
N35	high max Wnd ;45° + EG_Ongunstig	-0,2	0,0	-0,5	0,0	0,1	**0,4**	0,5
N36	high max Wnd ;135° + EG_Ongunstig	**19,8**	**16,6**	**-3,6**	**-1,7**	**2,0**	0,1	26,1
N36	low max Wnd ;315° + EG_Gunstig	**-23,8**	**-20,2**	**3,0**	**3,0**	**-3,5**	-0,1	**31,4**
N36	low max Wnd ;225° + EG_Gunstig	-5,7	3,8	-0,5	-0,3	-0,6	**-0,2**	6,9
N36	high max Wnd ;45° + EG_Ongunstig	8,0	-0,9	-1,8	0,1	0,7	**0,3**	8,2
N37	high max Wnd ;135° + EG_Ongunstig	**19,9**	**16,6**	**-2,2**	**-1,7**	**2,0**	0,1	26,0
N37	low max Wnd ;315° + EG_Gunstig	**-23,9**	**-20,1**	**0,4**	**3,0**	**-3,5**	-0,1	**31,2**
N37	low max Wnd ;225° + EG_Gunstig	-5,8	3,9	-0,6	-0,3	-0,6	**-0,2**	7,0
N37	high max Wnd ;45° + EG_Ongunstig	8,1	-1,0	-1,6	0,1	0,7	**0,3**	8,3
N38	high max Wnd ;135° + EG_Ongunstig	**19,7**	**16,7**	**-7,0**	**-1,6**	**1,9**	0,1	26,8
N38	low max Wnd ;315° + EG_Gunstig	**-23,7**	**-20,3**	**9,4**	**3,0**	**-3,4**	-0,1	**32,6**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N38	low max Wnd ;225° + EG_Gunstig	-5,5	3,6	-0,2	-0,3	-0,6	**-0,2**	6,6
N38	high max Wnd ;45° + EG_Ongunstig	7,7	-0,6	-2,3	0,2	0,7	**0,3**	8,0
1XY	high max Wnd ;135° + EG_Ongunstig	**22,1**	**18,6**	**-4,8**	**-2,2**	**2,6**	0,1	29,3
1XY	low max Wnd ;315° + EG_Gunstig	**-27,5**	**-23,4**	**4,7**	**3,5**	**-4,0**	-0,1	**36,4**
1XY	low max Wnd ;225° + EG_Gunstig	-6,3	4,0	-0,4	-0,3	-0,7	**-0,2**	7,5
1XY	high max Wnd ;45° + EG_Ongunstig	8,7	-0,8	-2,1	0,0	1,0	**0,3**	9,0
1XY2	high max Wnd ;135° + EG_Ongunstig	**20,6**	**17,3**	**-4,5**	**-1,7**	**2,0**	0,1	27,3
1XY2	low max Wnd ;315° + EG_Gunstig	**-25,2**	**-21,4**	**4,5**	**3,1**	**-3,5**	-0,1	**33,4**
1XY2	low max Wnd ;225° + EG_Gunstig	-5,9	3,9	-0,4	-0,3	-0,6	**-0,2**	7,1
1XY2	high max Wnd ;45° + EG_Ongunstig	8,2	-0,9	-2,0	0,1	0,7	**0,3**	8,4
N39	high max Wnd ;225° + EG_Ongunstig	**19,8**	**-16,6**	**-4,5**	**1,7**	**2,0**	-0,1	26,3
N39	low max Wnd ;45° + EG_Gunstig	**-23,8**	**20,2**	**4,5**	**-3,1**	**-3,5**	0,1	**31,5**
N39	high max Wnd ;315° + EG_Ongunstig	7,9	0,9	-2,0	-0,1	0,7	**-0,3**	8,2
N39	low max Wnd ;135° + EG_Gunstig	-5,7	-3,7	-0,4	0,3	-0,5	**0,2**	6,8
N40	high max Wnd ;225° + EG_Ongunstig	**0,7**	**-0,7**	**-7,9**	0,1	0,1	-0,1	8,0
N40	low max Wnd ;45° + EG_Gunstig	**-1,3**	**1,4**	**12,0**	**-0,1**	-0,1	0,1	**12,1**
N40	high max Wnd ;45° + EG_Ongunstig	-1,0	1,0	9,0	-0,1	**-0,1**	0,1	9,1
N40	low max Wnd ;225° + EG_Gunstig	0,4	-0,4	-5,2	**0,1**	**0,1**	-0,1	5,2
N40	high max Wnd ;315° + EG_Ongunstig	0,1	-0,2	-1,6	0,0	0,0	**-0,2**	1,7
N40	high max Wnd ;135° + EG_Ongunstig	0,1	0,0	-0,3	0,0	0,0	**0,1**	0,4
N41	high max Wnd ;225° + EG_Ongunstig	**19,8**	**-16,7**	**-5,7**	**1,6**	**1,9**	-0,1	26,5
N41	low max Wnd ;45° + EG_Gunstig	**-23,7**	**20,2**	**6,9**	**-3,0**	**-3,4**	0,1	**31,9**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N41	high max Wnd ;315° + EG_Ongunstig	7,8	0,8	-2,1	-0,2	0,7	**-0,3**	8,1
N41	low max Wnd ;135° + EG_Gunstig	-5,6	-3,7	-0,3	0,3	-0,6	**0,2**	6,7
N42	high max Wnd ;225° + EG_Ongunstig	**-0,3**	**0,3**	**1,2**	**0,1**	**0,2**	-0,2	1,3
N42	low max Wnd ;315° + EG_Gunstig	-0,2	0,0	-0,3	**0,0**	0,1	-0,3	0,3
N42	low max Wnd ;45° + EG_Gunstig	**0,1**	**-0,1**	**-1,8**	0,0	**-0,1**	0,2	**1,8**
N42	high max Wnd ;315° + EG_Ongunstig	-0,2	0,0	-0,5	0,0	0,1	**-0,4**	0,5
N42	low max Wnd ;135° + EG_Gunstig	0,0	0,1	-0,4	0,1	0,0	**0,3**	0,4
N43	high max Wnd ;225° + EG_Ongunstig	**19,9**	**-16,6**	**-3,6**	**1,7**	**2,0**	-0,1	26,1
N43	low max Wnd ;45° + EG_Gunstig	**-23,8**	**20,1**	**3,0**	**-3,0**	**-3,5**	0,1	**31,3**
N43	high max Wnd ;315° + EG_Ongunstig	8,0	0,9	-1,8	-0,1	0,7	**-0,3**	8,2
N43	low max Wnd ;135° + EG_Gunstig	-5,7	-3,8	-0,5	0,3	-0,6	**0,2**	6,9
N44	high max Wnd ;225° + EG_Ongunstig	**19,9**	**-16,6**	**-2,2**	**1,7**	**2,0**	-0,1	26,0
N44	low max Wnd ;45° + EG_Gunstig	**-23,9**	**20,1**	**0,4**	**-3,0**	**-3,5**	0,1	**31,2**
N44	high max Wnd ;315° + EG_Ongunstig	8,1	1,0	-1,6	-0,1	0,7	**-0,3**	8,3
N44	low max Wnd ;135° + EG_Gunstig	-5,8	-3,9	-0,6	0,3	-0,6	**0,2**	7,0
N45	high max Wnd ;225° + EG_Ongunstig	**19,7**	**-16,7**	**-7,0**	**1,6**	**1,9**	-0,1	26,8
N45	low max Wnd ;45° + EG_Gunstig	**-23,7**	**20,3**	**9,4**	**-3,0**	**-3,4**	0,1	**32,6**
N45	high max Wnd ;315° + EG_Ongunstig	7,7	0,6	-2,3	-0,2	0,7	**-0,3**	8,0
N45	low max Wnd ;135° + EG_Gunstig	-5,5	-3,6	-0,2	0,3	-0,6	**0,2**	6,6
1Y	high max Wnd ;225° + EG_Ongunstig	**22,2**	**-18,6**	**-4,8**	**2,2**	**2,6**	-0,1	29,3
1Y	low max Wnd ;45° + EG_Gunstig	**-27,5**	**23,4**	**4,7**	**-3,5**	**-4,0**	0,1	**36,4**
1Y	high max Wnd ;315° + EG_Ongunstig	8,8	0,9	-2,1	0,0	1,0	**-0,3**	9,0

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1Y	low max Wnd ;135° + EG_Gunstig	-6,3	-4,0	-0,4	0,3	-0,7	**0,2**	7,5
1Y1	high max Wnd ;225° + EG_Ongunstig	**20,6**	**-17,3**	**-4,5**	**1,7**	**2,0**	-0,1	27,3
1Y1	low max Wnd ;45° + EG_Gunstig	**-25,2**	**21,4**	**4,5**	**-3,1**	**-3,5**	0,1	**33,3**
1Y1	high max Wnd ;315° + EG_Ongunstig	8,2	0,9	-2,0	-0,1	0,7	**-0,3**	8,5
1Y1	low max Wnd ;135° + EG_Gunstig	-5,9	-3,9	-0,4	0,3	-0,5	**0,2**	7,1
N46	low max Wnd ;225° + EG_Gunstig	**24,9**	**-21,8**	**4,8**	**3,3**	**3,7**	0,1	**33,5**
N46	high max Wnd ;45° + EG_Ongunstig	**-18,9**	**15,5**	**-4,3**	**-1,5**	**-1,9**	-0,1	24,9
N46	high max Wnd ;135° + EG_Ongunstig	-7,9	-1,2	-1,9	0,1	-0,7	**-0,3**	8,2
N46	high max Wnd ;315° + EG_Ongunstig	5,2	3,5	-0,8	-0,2	0,5	**0,2**	6,4
N47	low max Wnd ;225° + EG_Gunstig	**1,4**	**-1,5**	**12,8**	**0,1**	**0,1**	0,1	**13,0**
N47	high max Wnd ;45° + EG_Ongunstig	**-0,7**	**0,6**	**-7,3**	**-0,1**	**0,0**	-0,1	7,4
N47	high max Wnd ;135° + EG_Ongunstig	-0,1	0,2	-1,6	0,0	0,0	**-0,2**	1,6
N47	high max Wnd ;315° + EG_Ongunstig	-0,1	0,0	-0,3	0,0	0,0	**0,1**	0,3
N48	low max Wnd ;225° + EG_Gunstig	**24,9**	**-21,8**	**7,4**	**3,2**	**3,6**	0,1	**33,9**
N48	high max Wnd ;45° + EG_Ongunstig	**-18,9**	**15,6**	**-5,4**	**-1,4**	**-1,8**	-0,1	25,0
N48	high max Wnd ;135° + EG_Ongunstig	-7,8	-1,1	-2,0	0,2	-0,7	**-0,3**	8,1
N48	high max Wnd ;315° + EG_Ongunstig	5,2	3,4	-0,7	-0,3	0,5	**0,2**	6,2
N49	low max Wnd ;225° + EG_Gunstig	**-0,2**	**0,1**	**-1,9**	**0,0**	**0,1**	0,2	**1,9**
N49	high max Wnd ;45° + EG_Ongunstig	**0,3**	**-0,3**	**1,0**	**-0,1**	**-0,2**	-0,2	1,1
N49	high max Wnd ;135° + EG_Ongunstig	0,2	0,0	-0,5	0,0	-0,1	**-0,4**	0,5
N49	high max Wnd ;315° + EG_Ongunstig	0,0	-0,2	-0,6	-0,1	0,0	**0,3**	0,6
N50	low max Wnd ;225° + EG_Gunstig	**25,0**	**-21,8**	**3,2**	**3,3**	**3,6**	0,1	**33,3**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N50	high max Wnd ;45° + EG_Ongunstig	**-18,9**	**15,5**	**-3,6**	**-1,5**	**-1,9**	-0,1	24,7
N50	high max Wnd ;135° + EG_Ongunstig	-8,0	-1,3	-1,8	0,1	-0,7	**-0,3**	8,3
N50	high max Wnd ;315° + EG_Ongunstig	5,3	3,6	-0,9	-0,3	0,5	**0,2**	6,4
N51	low max Wnd ;225° + EG_Gunstig	**25,0**	**-21,7**	**0,5**	**3,3**	**3,6**	0,1	**33,1**
N51	high max Wnd ;45° + EG_Ongunstig	**-19,0**	**15,5**	**-2,2**	**-1,5**	**-1,9**	-0,1	24,6
N51	high max Wnd ;135° + EG_Ongunstig	-8,1	-1,4	-1,6	0,1	-0,7	**-0,3**	8,3
N51	high max Wnd ;315° + EG_Ongunstig	5,4	3,7	-1,0	-0,3	0,5	**0,2**	6,6
N52	low max Wnd ;225° + EG_Gunstig	**24,8**	**-21,9**	**10,1**	**3,2**	**3,6**	0,1	**34,6**
N52	high max Wnd ;45° + EG_Ongunstig	**-18,8**	**15,6**	**-6,6**	**-1,4**	**-1,8**	-0,1	25,3
N52	high max Wnd ;135° + EG_Ongunstig	-7,7	-1,0	-2,2	0,2	-0,7	**-0,3**	8,1
N52	high max Wnd ;315° + EG_Ongunstig	5,1	3,3	-0,6	-0,3	0,5	**0,2**	6,1
1X	low max Wnd ;225° + EG_Gunstig	**28,8**	**-25,2**	**5,0**	**3,7**	**4,1**	0,1	**38,6**
1X	high max Wnd ;45° + EG_Ongunstig	**-21,1**	**17,3**	**-4,6**	**-2,0**	**-2,5**	-0,1	27,7
1X	high max Wnd ;135° + EG_Ongunstig	-8,7	-1,2	-2,0	0,0	-1,0	**-0,3**	9,1
1X	high max Wnd ;315° + EG_Ongunstig	5,8	3,8	-0,8	-0,3	0,7	**0,2**	7,0
1X1	low max Wnd ;225° + EG_Gunstig	**26,4**	**-23,1**	**4,8**	**3,3**	**3,7**	0,1	**35,4**
1X1	high max Wnd ;45° + EG_Ongunstig	**-19,7**	**16,1**	**-4,3**	**-1,5**	**-1,9**	-0,1	25,8
1X1	high max Wnd ;135° + EG_Ongunstig	-8,2	-1,3	-1,9	0,1	-0,7	**-0,3**	8,5
1X1	high max Wnd ;315° + EG_Ongunstig	5,4	3,6	-0,8	-0,2	0,5	**0,2**	6,6
1X2	high max Wnd ;135° + EG_Ongunstig	**19,7**	**16,5**	**-4,1**	**-1,7**	**2,0**	0,1	26,0
1X2	low max Wnd ;315° + EG_Gunstig	**-23,7**	**-20,1**	**3,9**	**3,0**	**-3,5**	-0,1	**31,3**
1X2	low max Wnd ;225° + EG_Gunstig	-5,4	4,0	-1,4	-0,3	-0,6	**-0,2**	6,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1X2	high max Wnd ;45° + EG_Ongunstig	7,6	-1,2	-1,1	0,1	0,7	**0,3**	7,7
1X3	high max Wnd ;135° + EG_Ongunstig	**19,9**	**16,8**	**-4,8**	**-1,7**	**2,0**	0,1	26,5
1X3	low max Wnd ;315° + EG_Gunstig	**-23,9**	**-20,3**	**4,9**	**3,1**	**-3,5**	-0,1	**31,8**
1X3	low max Wnd ;225° + EG_Gunstig	-6,0	3,5	0,5	-0,3	-0,5	**-0,2**	6,9
1X3	high max Wnd ;45° + EG_Ongunstig	8,2	-0,5	-2,9	0,1	0,7	**0,3**	8,7
N53	low max Wnd ;315° + EG_Gunstig	0,0	0,0	**0,9**	**0,0**	0,0	-0,1	**0,9**
N53	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	**0,0**	0,1	0,2
N53	low max Wnd ;225° + EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**-0,2**	0,0
N53	high max Wnd ;45° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1
N54	low max Wnd ;315° + EG_Gunstig	0,0	0,0	**1,0**	**0,0**	0,0	-0,1	**1,0**
N54	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	**0,0**	0,1	0,2
N54	low max Wnd ;225° + EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**-0,2**	0,0
N54	high max Wnd ;45° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1
N55	high max Wnd ;135° + EG_Ongunstig	**19,9**	**16,7**	**-4,7**	**-1,7**	**2,0**	0,1	26,4
N55	low max Wnd ;315° + EG_Gunstig	**-23,9**	**-20,3**	**4,7**	**3,1**	**-3,5**	-0,1	**31,7**
N55	low max Wnd ;225° + EG_Gunstig	-5,9	3,6	0,2	-0,3	-0,5	**-0,2**	6,9
N55	high max Wnd ;45° + EG_Ongunstig	8,1	-0,6	-2,5	0,1	0,7	**0,3**	8,5
N56	high max Wnd ;135° + EG_Ongunstig	**19,7**	**16,6**	**-4,2**	**-1,7**	**2,0**	0,1	26,1
N56	low max Wnd ;315° + EG_Gunstig	**-23,7**	**-20,1**	**4,1**	**3,0**	**-3,5**	-0,1	**31,4**
N56	low max Wnd ;225° + EG_Gunstig	-5,5	3,9	-1,0	-0,3	-0,6	**-0,2**	6,9
N56	high max Wnd ;45° + EG_Ongunstig	7,7	-1,0	-1,4	0,1	0,7	**0,3**	7,9
N57	low max Wnd ;225° + EG_Gunstig	**25,0**	**-21,9**	**5,0**	**3,3**	**3,6**	0,1	**33,6**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N57	high max Wnd ;45° + EG_Ongunstig	**-19,0**	**15,6**	**-4,5**	**-1,5**	**-1,8**	-0,1	25,0
N57	high max Wnd ;135° + EG_Ongunstig	-8,1	-1,0	-2,5	0,1	-0,7	**-0,3**	8,6
N57	high max Wnd ;315° + EG_Ongunstig	5,4	3,4	-0,3	-0,2	0,5	**0,2**	6,4
1X4	low max Wnd ;225° + EG_Gunstig	**24,8**	**-21,7**	**4,3**	**3,3**	**3,7**	0,1	**33,2**
1X4	high max Wnd ;45° + EG_Ongunstig	**-18,8**	**15,4**	**-3,9**	**-1,5**	**-1,9**	-0,1	24,6
1X4	high max Wnd ;135° + EG_Ongunstig	-7,6	-1,5	-1,0	0,1	-0,7	**-0,3**	7,8
1X4	high max Wnd ;315° + EG_Ongunstig	5,0	3,8	-1,7	-0,2	0,5	**0,2**	6,5
1X5	low max Wnd ;225° + EG_Gunstig	**25,1**	**-21,9**	**5,1**	**3,3**	**3,6**	0,1	**33,7**
1X5	high max Wnd ;45° + EG_Ongunstig	**-19,1**	**15,7**	**-4,7**	**-1,5**	**-1,8**	-0,1	25,1
1X5	high max Wnd ;135° + EG_Ongunstig	-8,2	-0,9	-2,9	0,1	-0,7	**-0,3**	8,7
1X5	high max Wnd ;315° + EG_Ongunstig	5,5	3,3	0,1	-0,2	0,5	**0,2**	6,4
N58	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-0,1	0,2
N58	low max Wnd ;225° + EG_Gunstig	0,0	0,0	**0,9**	0,0	**0,0**	0,1	**0,9**
N58	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N58	high max Wnd ;315° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,2**	0,1
N59	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	0,0	-0,1	0,2
N59	low max Wnd ;225° + EG_Gunstig	0,0	0,0	**1,1**	0,0	**0,0**	0,1	**1,1**
N59	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N59	high max Wnd ;315° + EG_Ongunstig	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,2**	0,0
N60	low max Wnd ;225° + EG_Gunstig	**24,9**	**-21,7**	**4,5**	**3,3**	**3,7**	0,1	**33,3**
N60	high max Wnd ;45° + EG_Ongunstig	**-18,8**	**15,4**	**-4,0**	**-1,5**	**-1,9**	-0,1	24,7
N60	high max Wnd ;135° + EG_Ongunstig	-7,7	-1,4	-1,3	0,1	-0,7	**-0,3**	8,0

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N60	high max Wnd ;315° + EG_Ongunstig	5,1	3,7	-1,4	-0,2	0,5	**0,2**	6,4
N63	high max Wnd ;225° + EG_Ongunstig	**19,9**	**-16,7**	**-4,7**	**1,7**	**2,0**	-0,1	26,4
N63	low max Wnd ;45° + EG_Gunstig	**-23,9**	**20,3**	**4,7**	**-3,1**	**-3,5**	0,1	**31,7**
N63	high max Wnd ;315° + EG_Ongunstig	8,1	0,7	-2,5	-0,1	0,7	**-0,3**	8,5
N63	low max Wnd ;135° + EG_Gunstig	-5,9	-3,6	0,2	0,3	-0,5	**0,2**	6,9
N64	low max Wnd ;135° + EG_Gunstig	**24,8**	**21,7**	**4,5**	**-3,3**	**3,7**	-0,1	**33,3**
N64	high max Wnd ;315° + EG_Ongunstig	**-18,8**	**-15,5**	**-4,0**	**1,5**	**-1,9**	0,1	24,7
N64	high max Wnd ;45° + EG_Ongunstig	5,1	-3,7	-1,4	0,2	0,5	**-0,2**	6,4
N64	high max Wnd ;225° + EG_Ongunstig	-7,7	1,4	-1,3	-0,1	-0,7	**0,3**	7,9
1X6	high max Wnd ;225° + EG_Ongunstig	**19,7**	**-16,5**	**-4,1**	**1,7**	**2,0**	-0,1	26,0
1X6	low max Wnd ;45° + EG_Gunstig	**-23,6**	**20,0**	**3,9**	**-3,0**	**-3,5**	0,1	**31,2**
1X6	high max Wnd ;315° + EG_Ongunstig	7,6	1,2	-1,1	-0,1	0,7	**-0,3**	7,8
1X6	low max Wnd ;135° + EG_Gunstig	-5,4	-4,0	-1,4	0,3	-0,6	**0,2**	6,9
1X7	high max Wnd ;225° + EG_Ongunstig	**20,0**	**-16,8**	**-4,8**	**1,7**	**2,0**	-0,1	26,5
1X7	low max Wnd ;45° + EG_Gunstig	**-23,9**	**20,3**	**4,9**	**-3,1**	**-3,5**	0,1	**31,8**
1X7	high max Wnd ;315° + EG_Ongunstig	8,2	0,5	-2,9	-0,1	0,7	**-0,3**	8,7
1X7	low max Wnd ;135° + EG_Gunstig	-5,9	-3,5	0,5	0,3	-0,5	**0,2**	6,9
N65	low max Wnd ;45° + EG_Gunstig	**0,0**	0,0	**0,9**	0,0	0,0	0,1	**0,9**
N65	high max Wnd ;225° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	**0,0**	-0,1	0,2
N65	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N65	low max Wnd ;135° + EG_Gunstig	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,2**	0,0
N66	low max Wnd ;45° + EG_Gunstig	**0,0**	0,0	**1,0**	0,0	0,0	0,1	**1,0**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N66	high max Wnd ;225° + EG_Ongunstig	0,0	0,0	**-0,2**	0,0	**0,0**	-0,1	0,2
N66	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N66	low max Wnd ;135° + EG_Gunstig	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,2**	0,0
N67	high max Wnd ;225° + EG_Ongunstig	**19,8**	**-16,5**	**-4,2**	**1,7**	**2,0**	-0,1	26,1
N67	low max Wnd ;45° + EG_Gunstig	**-23,7**	**20,1**	**4,1**	**-3,0**	**-3,5**	0,1	**31,3**
N67	high max Wnd ;315° + EG_Ongunstig	7,7	1,1	-1,4	-0,1	0,7	**-0,3**	7,9
N67	low max Wnd ;135° + EG_Gunstig	-5,5	-3,9	-1,0	0,3	-0,6	**0,2**	6,8
N68	low max Wnd ;135° + EG_Gunstig	**25,0**	**21,9**	**5,0**	**-3,3**	**3,6**	-0,1	**33,6**
N68	high max Wnd ;315° + EG_Ongunstig	**-19,0**	**-15,7**	**-4,6**	**1,5**	**-1,8**	0,1	25,1
N68	high max Wnd ;45° + EG_Ongunstig	5,4	-3,4	-0,3	0,2	0,5	**-0,2**	6,3
N68	high max Wnd ;225° + EG_Ongunstig	-8,1	1,0	-2,5	-0,1	-0,7	**0,3**	8,5
1X8	low max Wnd ;135° + EG_Gunstig	**24,8**	**21,7**	**4,3**	**-3,3**	**3,7**	-0,1	**33,2**
1X8	high max Wnd ;315° + EG_Ongunstig	**-18,8**	**-15,4**	**-3,9**	**1,5**	**-1,9**	0,1	24,6
1X8	high max Wnd ;45° + EG_Ongunstig	5,0	-3,8	-1,7	0,2	0,5	**-0,2**	6,5
1X8	high max Wnd ;225° + EG_Ongunstig	-7,6	1,5	-1,0	-0,1	-0,7	**0,3**	7,8
1X9	low max Wnd ;135° + EG_Gunstig	**25,0**	**21,9**	**5,1**	**-3,3**	**3,6**	-0,1	**33,7**
1X9	high max Wnd ;315° + EG_Ongunstig	**-19,1**	**-15,7**	**-4,7**	**1,5**	**-1,8**	0,1	25,2
1X9	high max Wnd ;45° + EG_Ongunstig	5,5	-3,3	0,1	0,2	0,5	**-0,2**	6,4
1X9	high max Wnd ;225° + EG_Ongunstig	-8,2	0,9	-2,9	-0,1	-0,7	**0,3**	8,7
N69	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	**-0,2**	**0,0**	0,0	0,1	0,2
N69	low max Wnd ;135° + EG_Gunstig	0,0	0,0	**0,9**	0,0	**0,0**	-0,1	**0,9**
N69	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,2**	0,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N69	high max Wnd ;225° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1
N70	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	**-0,2**	**0,0**	0,0	0,1	0,2
N70	low max Wnd ;135° + EG_Gunstig	0,0	0,0	**1,0**	0,0	**0,0**	-0,1	**1,0**
N70	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	0,0	0,0	0,0	**-0,2**	0,0
N70	high max Wnd ;225° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1
N71	low max Wnd ;135° + EG_Gunstig	**27,2**	**23,9**	**5,7**	**-3,6**	**4,0**	-0,1	**36,7**
N71	high max Wnd ;315° + EG_Ongunstig	**-19,3**	**-15,9**	**-4,5**	**1,6**	**-1,9**	0,1	25,4
N71	high max Wnd ;45° + EG_Ongunstig	5,3	-3,6	-0,8	0,3	0,5	**-0,2**	6,4
N71	high max Wnd ;225° + EG_Ongunstig	-8,0	1,2	-2,0	-0,1	-0,7	**0,3**	8,3
N72	low max Wnd ;135° + EG_Gunstig	**1,7**	**1,7**	**14,6**	**-0,1**	**0,1**	0,0	**14,7**
N72	high max Wnd ;315° + EG_Ongunstig	**-0,7**	**-0,7**	**-7,7**	**0,1**	**-0,1**	0,1	7,7
N72	high max Wnd ;45° + EG_Ongunstig	-0,1	0,0	-0,3	0,0	0,0	**-0,1**	0,3
N72	high max Wnd ;225° + EG_Ongunstig	-0,1	-0,2	-1,6	0,0	0,0	**0,2**	1,6
N73	low max Wnd ;135° + EG_Gunstig	**27,1**	**24,0**	**8,5**	**-3,5**	**4,0**	-0,1	**37,2**
N73	high max Wnd ;315° + EG_Ongunstig	**-19,2**	**-15,9**	**-5,6**	**1,5**	**-1,8**	0,1	25,6
N73	high max Wnd ;45° + EG_Ongunstig	5,2	-3,5	-0,7	0,3	0,6	**-0,2**	6,3
N73	high max Wnd ;225° + EG_Ongunstig	-7,8	1,1	-2,1	-0,2	-0,7	**0,3**	8,2
N74	low max Wnd ;135° + EG_Gunstig	**-0,2**	**-0,2**	**-1,8**	**-0,1**	**0,1**	-0,2	**1,9**
N74	high max Wnd ;315° + EG_Ongunstig	**0,3**	**0,3**	**1,0**	**0,1**	**-0,2**	0,2	1,1
N74	high max Wnd ;45° + EG_Ongunstig	0,0	0,2	-0,6	0,1	0,0	**-0,3**	0,7
N74	high max Wnd ;225° + EG_Ongunstig	0,2	0,0	-0,5	0,0	-0,1	**0,4**	0,5
N75	low max Wnd ;135° + EG_Gunstig	**27,2**	**23,9**	**3,9**	**-3,6**	**4,0**	-0,1	**36,4**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N75	high max Wnd ;315° + EG_Ongunstig	**-19,3**	**-15,9**	**-3,7**	**1,6**	**-1,9**	0,1	25,3
N75	high max Wnd ;45° + EG_Ongunstig	5,3	-3,6	-0,9	0,3	0,6	**-0,2**	6,5
N75	high max Wnd ;225° + EG_Ongunstig	-8,0	1,3	-1,8	-0,1	-0,7	**0,3**	8,3
N76	low max Wnd ;135° + EG_Gunstig	**27,3**	**23,9**	**0,9**	**-3,6**	**4,0**	-0,1	**36,2**
N76	high max Wnd ;315° + EG_Ongunstig	**-19,4**	**-15,8**	**-2,3**	**1,6**	**-1,9**	0,1	25,1
N76	high max Wnd ;45° + EG_Ongunstig	5,4	-3,7	-1,0	0,3	0,6	**-0,2**	6,6
N76	high max Wnd ;225° + EG_Ongunstig	-8,1	1,4	-1,6	-0,2	-0,7	**0,3**	8,4
N77	low max Wnd ;135° + EG_Gunstig	**27,1**	**24,0**	**11,5**	**-3,5**	**4,0**	-0,1	**38,0**
N77	high max Wnd ;315° + EG_Ongunstig	**-19,2**	**-16,0**	**-6,9**	**1,5**	**-1,8**	0,1	25,9
N77	high max Wnd ;45° + EG_Ongunstig	5,1	-3,4	-0,6	0,3	0,6	**-0,2**	6,1
N77	high max Wnd ;225° + EG_Ongunstig	-7,7	1,0	-2,3	-0,2	-0,7	**0,3**	8,1
1P2	low max Wnd ;135° + EG_Gunstig	**31,4**	**27,7**	**5,9**	**-4,0**	**4,5**	-0,1	**42,3**
1P2	high max Wnd ;315° + EG_Ongunstig	**-21,6**	**-17,8**	**-4,8**	**2,1**	**-2,5**	0,1	28,4
1P2	high max Wnd ;45° + EG_Ongunstig	5,9	-3,8	-0,8	0,3	0,7	**-0,2**	7,1
1P2	high max Wnd ;225° + EG_Ongunstig	-8,8	1,3	-2,1	0,0	-1,0	**0,3**	9,1
1P3	low max Wnd ;135° + EG_Gunstig	**28,8**	**25,4**	**5,7**	**-3,6**	**4,0**	-0,1	**38,8**
1P3	high max Wnd ;315° + EG_Ongunstig	**-20,1**	**-16,5**	**-4,5**	**1,6**	**-1,9**	0,1	26,4
1P3	high max Wnd ;45° + EG_Ongunstig	5,5	-3,7	-0,8	0,3	0,5	**-0,2**	6,6
1P3	high max Wnd ;225° + EG_Ongunstig	-8,2	1,3	-2,0	-0,1	-0,7	**0,3**	8,6
N78	high max Wnd ;135° + EG_Ongunstig	**20,2**	**17,0**	**-4,7**	**-1,7**	**2,1**	0,1	26,8
N78	low max Wnd ;315° + EG_Gunstig	**-25,9**	**-22,2**	**5,3**	**3,4**	**-3,8**	-0,1	**34,5**
N78	low max Wnd ;225° + EG_Gunstig	-5,7	3,8	-0,4	-0,3	-0,6	**-0,2**	6,9

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N78	high max Wnd ;45° + EG_Ongunstig	7,9	-0,9	-2,0	0,1	0,7	**0,3**	8,2
N79	high max Wnd ;135° + EG_Ongunstig	**0,7**	**0,7**	**-8,2**	**-0,1**	**0,1**	0,1	8,3
N79	low max Wnd ;315° + EG_Gunstig	**-1,5**	**-1,6**	**13,6**	**0,1**	**-0,1**	-0,1	**13,8**
N79	low max Wnd ;225° + EG_Gunstig	0,1	-0,1	-0,1	0,0	0,0	**-0,1**	0,1
N79	high max Wnd ;45° + EG_Ongunstig	0,1	0,2	-1,7	0,0	0,0	**0,1**	1,7
N80	high max Wnd ;135° + EG_Ongunstig	**20,1**	**17,0**	**-5,9**	**-1,6**	**2,0**	0,1	27,0
N80	low max Wnd ;315° + EG_Gunstig	**-25,9**	**-22,2**	**8,0**	**3,3**	**-3,8**	-0,1	**35,0**
N80	low max Wnd ;225° + EG_Gunstig	-5,7	3,7	-0,3	-0,3	-0,6	**-0,2**	6,8
N80	high max Wnd ;45° + EG_Ongunstig	7,8	-0,8	-2,1	0,2	0,7	**0,3**	8,1
N81	high max Wnd ;135° + EG_Ongunstig	**-0,4**	**-0,3**	**1,2**	**-0,2**	**0,2**	0,2	1,3
N81	low max Wnd ;315° + EG_Gunstig	**0,2**	**0,2**	**-1,8**	**0,0**	**-0,1**	-0,2	**1,8**
N81	low max Wnd ;225° + EG_Gunstig	0,0	-0,1	-0,4	-0,1	0,0	**-0,3**	0,5
N81	high max Wnd ;45° + EG_Ongunstig	-0,2	0,0	-0,5	0,0	0,1	**0,4**	0,5
N82	high max Wnd ;135° + EG_Ongunstig	**20,2**	**17,0**	**-3,8**	**-1,7**	**2,1**	0,1	26,7
N82	low max Wnd ;315° + EG_Gunstig	**-25,9**	**-22,1**	**3,6**	**3,3**	**-3,8**	-0,1	**34,3**
N82	low max Wnd ;225° + EG_Gunstig	-5,8	3,9	-0,5	-0,3	-0,6	**-0,2**	7,0
N82	high max Wnd ;45° + EG_Ongunstig	8,0	-0,9	-1,9	0,1	0,7	**0,3**	8,3
N83	high max Wnd ;135° + EG_Ongunstig	**20,3**	**16,9**	**-2,3**	**-1,7**	**2,1**	0,1	26,5
N83	low max Wnd ;315° + EG_Gunstig	**-26,0**	**-22,1**	**0,8**	**3,3**	**-3,8**	-0,1	**34,1**
N83	low max Wnd ;225° + EG_Gunstig	-5,9	4,0	-0,6	-0,3	-0,6	**-0,2**	7,1
N83	high max Wnd ;45° + EG_Ongunstig	8,1	-1,0	-1,6	0,1	0,7	**0,3**	8,3
N84	high max Wnd ;135° + EG_Ongunstig	**20,1**	**17,1**	**-7,3**	**-1,6**	**2,0**	0,1	27,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N84	low max Wnd ;315° + EG_Gunstig	**-25,8**	**-22,2**	**10,8**	**3,3**	**-3,8**	-0,1	**35,7**
N84	low max Wnd ;225° + EG_Gunstig	-5,6	3,6	-0,2	-0,3	-0,6	**-0,2**	6,6
N84	high max Wnd ;45° + EG_Ongunstig	7,7	-0,7	-2,3	0,2	0,7	**0,3**	8,1
1XY3	high max Wnd ;135° + EG_Ongunstig	**22,6**	**19,0**	**-5,0**	**-2,3**	**2,7**	0,1	29,9
1XY3	low max Wnd ;315° + EG_Gunstig	**-29,9**	**-25,7**	**5,5**	**3,8**	**-4,3**	-0,1	**39,8**
1XY3	low max Wnd ;225° + EG_Gunstig	-6,4	4,1	-0,4	-0,3	-0,7	**-0,2**	7,6
1XY3	high max Wnd ;45° + EG_Ongunstig	8,8	-0,9	-2,1	0,0	1,0	**0,3**	9,1
1XY4	high max Wnd ;135° + EG_Ongunstig	**21,0**	**17,7**	**-4,7**	**-1,7**	**2,1**	0,1	27,9
1XY4	low max Wnd ;315° + EG_Gunstig	**-27,5**	**-23,5**	**5,3**	**3,4**	**-3,8**	-0,1	**36,5**
1XY4	low max Wnd ;225° + EG_Gunstig	-6,0	3,9	-0,4	-0,3	-0,6	**-0,2**	7,2
1XY4	high max Wnd ;45° + EG_Ongunstig	8,2	-0,9	-2,0	0,1	0,7	**0,3**	8,5
N85	high max Wnd ;225° + EG_Ongunstig	**20,2**	**-17,0**	**-4,7**	**1,7**	**2,1**	-0,1	26,8
N85	low max Wnd ;45° + EG_Gunstig	**-25,9**	**22,1**	**5,3**	**-3,4**	**-3,8**	0,1	**34,5**
N85	high max Wnd ;315° + EG_Ongunstig	8,0	0,9	-2,0	-0,1	0,7	**-0,3**	8,3
N85	low max Wnd ;135° + EG_Gunstig	-5,7	-3,8	-0,4	0,3	-0,6	**0,2**	6,9
N86	high max Wnd ;225° + EG_Ongunstig	**0,8**	**-0,7**	**-8,2**	0,1	0,1	-0,1	8,3
N86	low max Wnd ;45° + EG_Gunstig	**-1,5**	**1,6**	**13,6**	**-0,1**	**-0,1**	0,1	**13,8**
N86	low max Wnd ;225° + EG_Gunstig	0,4	-0,4	-5,4	**0,1**	**0,1**	-0,1	5,5
N86	high max Wnd ;315° + EG_Ongunstig	0,1	-0,2	-1,7	0,0	0,0	**-0,1**	1,7
N86	high max Wnd ;135° + EG_Ongunstig	0,1	0,0	-0,3	0,0	0,0	**0,1**	0,4
N87	high max Wnd ;225° + EG_Ongunstig	**20,2**	**-17,0**	**-5,9**	**1,6**	**2,0**	-0,1	27,0
N87	low max Wnd ;45° + EG_Gunstig	**-25,9**	**22,2**	**8,0**	**-3,3**	**-3,8**	0,1	**35,0**

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N87	high max Wnd ;315° + EG_Ongunstig	7,8	0,8	-2,1	-0,2	0,7	**-0,3**	8,2
N87	low max Wnd ;135° + EG_Gunstig	-5,6	-3,7	-0,3	0,3	-0,6	**0,2**	6,8
N88	high max Wnd ;225° + EG_Ongunstig	**-0,4**	**0,3**	**1,2**	**0,2**	**0,2**	-0,2	1,3
N88	low max Wnd ;45° + EG_Gunstig	**0,2**	**-0,2**	**-1,8**	**-0,1**	**-0,1**	0,2	**1,8**
N88	high max Wnd ;315° + EG_Ongunstig	-0,2	0,0	-0,5	0,0	0,1	**-0,4**	0,5
N88	low max Wnd ;135° + EG_Gunstig	0,0	0,1	-0,4	0,1	0,0	**0,3**	0,5
N89	high max Wnd ;225° + EG_Ongunstig	**20,3**	**-17,0**	**-3,8**	**1,7**	**2,1**	-0,1	26,7
N89	low max Wnd ;45° + EG_Gunstig	**-25,9**	**22,1**	**3,6**	**-3,3**	**-3,8**	0,1	**34,3**
N89	high max Wnd ;315° + EG_Ongunstig	8,0	1,0	-1,9	-0,1	0,7	**-0,3**	8,3
N89	low max Wnd ;135° + EG_Gunstig	-5,8	-3,9	-0,5	0,3	-0,6	**0,2**	7,0
N90	high max Wnd ;225° + EG_Ongunstig	**20,3**	**-16,9**	**-2,3**	**1,7**	**2,1**	-0,1	26,5
N90	low max Wnd ;45° + EG_Gunstig	**-26,0**	**22,0**	**0,8**	**-3,3**	**-3,8**	0,1	**34,1**
N90	high max Wnd ;315° + EG_Ongunstig	8,1	1,1	-1,6	-0,1	0,7	**-0,3**	8,4
N90	low max Wnd ;135° + EG_Gunstig	-5,9	-3,9	-0,6	0,3	-0,6	**0,2**	7,1
N91	high max Wnd ;225° + EG_Ongunstig	**20,1**	**-17,1**	**-7,3**	**1,6**	**2,0**	-0,1	27,4
N91	low max Wnd ;45° + EG_Gunstig	**-25,8**	**22,2**	**10,8**	**-3,3**	**-3,8**	0,1	**35,7**
N91	high max Wnd ;315° + EG_Ongunstig	7,7	0,7	-2,3	-0,2	0,7	**-0,3**	8,1
N91	low max Wnd ;135° + EG_Gunstig	-5,5	-3,6	-0,2	0,3	-0,6	**0,2**	6,6
1Y2	high max Wnd ;225° + EG_Ongunstig	**22,6**	**-19,0**	**-5,0**	**2,3**	**2,7**	-0,1	30,0
1Y2	low max Wnd ;45° + EG_Gunstig	**-29,9**	**25,6**	**5,5**	**-3,8**	**-4,3**	0,1	**39,8**
1Y2	high max Wnd ;315° + EG_Ongunstig	8,8	0,9	-2,1	0,0	1,0	**-0,3**	9,1
1Y2	low max Wnd ;135° + EG_Gunstig	-6,4	-4,1	-0,4	0,3	-0,7	**0,2**	7,6

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1Y3	high max Wnd ;225° + EG_Ongunstig	**21,0**	**-17,7**	**-4,7**	**1,7**	**2,1**	-0,1	27,9
1Y3	low max Wnd ;45° + EG_Gunstig	**-27,4**	**23,5**	**5,3**	**-3,4**	**-3,8**	0,1	**36,5**
1Y3	high max Wnd ;315° + EG_Ongunstig	8,2	0,9	-2,0	-0,1	0,7	**-0,3**	8,5
1Y3	low max Wnd ;135° + EG_Gunstig	-6,0	-3,9	-0,4	0,3	-0,6	**0,2**	7,1
N92	low max Wnd ;225° + EG_Gunstig	**27,2**	**-23,9**	**5,7**	**3,6**	**4,0**	0,1	**36,7**
N92	high max Wnd ;45° + EG_Ongunstig	**-19,3**	**15,9**	**-4,5**	**-1,6**	**-1,9**	-0,1	25,4
N92	high max Wnd ;135° + EG_Ongunstig	-8,0	-1,2	-2,0	0,1	-0,7	**-0,3**	8,3
N92	high max Wnd ;315° + EG_Ongunstig	5,3	3,6	-0,8	-0,3	0,5	**0,2**	6,4
N93	low max Wnd ;225° + EG_Gunstig	**1,7**	**-1,7**	**14,6**	**0,1**	**0,1**	0,0	**14,8**
N93	high max Wnd ;45° + EG_Ongunstig	**-0,7**	**0,7**	**-7,7**	**-0,1**	**0,0**	-0,1	7,7
N93	high max Wnd ;135° + EG_Ongunstig	-0,1	0,2	-1,6	0,0	0,0	**-0,1**	1,6
N93	high max Wnd ;315° + EG_Ongunstig	-0,1	0,0	-0,3	0,0	0,0	**0,1**	0,3
N94	low max Wnd ;225° + EG_Gunstig	**27,2**	**-24,0**	**8,5**	**3,5**	**4,0**	0,1	**37,2**
N94	high max Wnd ;45° + EG_Ongunstig	**-19,2**	**15,9**	**-5,6**	**-1,5**	**-1,8**	-0,1	25,6
N94	high max Wnd ;135° + EG_Ongunstig	-7,8	-1,2	-2,1	0,2	-0,7	**-0,3**	8,2
N94	high max Wnd ;315° + EG_Ongunstig	5,2	3,5	-0,7	-0,3	0,6	**0,2**	6,3
N95	low max Wnd ;225° + EG_Gunstig	**-0,2**	**0,2**	**-1,8**	**0,1**	**0,1**	0,2	**1,9**
N95	high max Wnd ;45° + EG_Ongunstig	**0,3**	**-0,3**	**1,0**	**-0,1**	**-0,2**	-0,2	1,1
N95	high max Wnd ;135° + EG_Ongunstig	0,2	0,0	-0,5	0,0	-0,1	**-0,4**	0,5
N95	high max Wnd ;315° + EG_Ongunstig	0,0	-0,2	-0,6	-0,1	0,0	**0,3**	0,7
N96	low max Wnd ;225° + EG_Gunstig	**27,2**	**-23,9**	**3,9**	**3,6**	**4,0**	0,1	**36,5**
N96	high max Wnd ;45° + EG_Ongunstig	**-19,3**	**15,8**	**-3,7**	**-1,6**	**-1,9**	-0,1	25,3

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N96	high max Wnd ;135° + EG_Ongunstig	-8,0	-1,3	-1,8	0,2	-0,7	**-0,3**	8,3
N96	high max Wnd ;315° + EG_Ongunstig	5,3	3,6	-0,9	-0,3	0,6	**0,2**	6,5
N97	low max Wnd ;225° + EG_Gunstig	**27,3**	**-23,9**	**0,9**	**3,6**	**4,0**	0,1	**36,3**
N97	high max Wnd ;45° + EG_Ongunstig	**-19,4**	**15,8**	**-2,3**	**-1,6**	**-1,9**	-0,1	25,1
N97	high max Wnd ;135° + EG_Ongunstig	-8,1	-1,4	-1,6	0,2	-0,7	**-0,3**	8,4
N97	high max Wnd ;315° + EG_Ongunstig	5,4	3,7	-1,0	-0,3	0,6	**0,2**	6,6
N98	low max Wnd ;225° + EG_Gunstig	**27,1**	**-24,0**	**11,5**	**3,5**	**4,0**	0,1	**38,0**
N98	high max Wnd ;45° + EG_Ongunstig	**-19,2**	**15,9**	**-6,9**	**-1,5**	**-1,8**	-0,1	25,9
N98	high max Wnd ;135° + EG_Ongunstig	-7,7	-1,0	-2,3	0,2	-0,7	**-0,3**	8,1
N98	high max Wnd ;315° + EG_Ongunstig	5,1	3,4	-0,6	-0,3	0,6	**0,2**	6,2
1X10	low max Wnd ;225° + EG_Gunstig	**31,5**	**-27,7**	**5,9**	**4,0**	**4,5**	0,1	**42,3**
1X10	high max Wnd ;45° + EG_Ongunstig	**-21,5**	**17,7**	**-4,8**	**-2,1**	**-2,5**	-0,1	28,3
1X10	high max Wnd ;135° + EG_Ongunstig	-8,8	-1,3	-2,1	0,0	-1,0	**-0,3**	9,1
1X10	high max Wnd ;315° + EG_Ongunstig	5,9	3,8	-0,8	-0,3	0,7	**0,2**	7,1
1X11	low max Wnd ;225° + EG_Gunstig	**28,8**	**-25,4**	**5,7**	**3,6**	**4,0**	0,1	**38,8**
1X11	high max Wnd ;45° + EG_Ongunstig	**-20,1**	**16,5**	**-4,5**	**-1,6**	**-1,9**	-0,1	26,4
1X11	high max Wnd ;135° + EG_Ongunstig	-8,2	-1,3	-2,0	0,1	-0,7	**-0,3**	8,6
1X11	high max Wnd ;315° + EG_Ongunstig	5,5	3,7	-0,8	-0,3	0,5	**0,2**	6,7
1X12	high max Wnd ;135° + EG_Ongunstig	**20,0**	**16,9**	**-4,2**	**-1,7**	**2,1**	0,1	26,5
1X12	low max Wnd ;315° + EG_Gunstig	**-25,8**	**-22,0**	**4,7**	**3,3**	**-3,9**	-0,1	**34,2**
1X12	low max Wnd ;225° + EG_Gunstig	-5,5	4,1	-1,4	-0,3	-0,6	**-0,2**	7,0
1X12	high max Wnd ;45° + EG_Ongunstig	7,6	-1,2	-1,1	0,1	0,7	**0,3**	7,8

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
1X13	high max Wnd ;135° + EG_Ongunstig	**20,3**	**17,1**	**-5,0**	**-1,7**	**2,0**	0,1	27,0
1X13	low max Wnd ;315° + EG_Gunstig	**-26,1**	**-22,3**	**5,8**	**3,4**	**-3,8**	-0,1	**34,8**
1X13	low max Wnd ;225° + EG_Gunstig	-6,0	3,5	0,6	-0,3	-0,6	**-0,2**	7,0
1X13	high max Wnd ;45° + EG_Ongunstig	8,2	-0,6	-2,9	0,1	0,7	**0,3**	8,8
N99	low max Wnd ;315° + EG_Gunstig	0,0	0,0	**1,7**	**0,0**	0,0	-0,1	**1,7**
N99	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	**-0,4**	0,0	**0,0**	0,1	0,4
N99	low max Wnd ;225° + EG_Gunstig	0,0	0,0	-0,1	0,0	0,0	**-0,2**	0,1
N99	high max Wnd ;45° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1
N100	low max Wnd ;315° + EG_Gunstig	0,0	0,0	**1,9**	**0,0**	0,0	-0,1	**1,9**
N100	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	**-0,4**	0,0	**0,0**	0,1	0,4
N100	low max Wnd ;225° + EG_Gunstig	0,0	0,0	0,0	0,0	0,0	**-0,2**	0,0
N100	high max Wnd ;45° + EG_Ongunstig	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,3**	0,2
N101	high max Wnd ;135° + EG_Ongunstig	**20,3**	**17,1**	**-4,9**	**-1,7**	**2,0**	0,1	27,0
N101	low max Wnd ;315° + EG_Gunstig	**-26,0**	**-22,2**	**5,6**	**3,4**	**-3,8**	-0,1	**34,7**
N101	low max Wnd ;225° + EG_Gunstig	-5,9	3,6	0,2	-0,3	-0,6	**-0,2**	6,9
N101	high max Wnd ;45° + EG_Ongunstig	8,1	-0,7	-2,6	0,1	0,7	**0,3**	8,6
N102	high max Wnd ;135° + EG_Ongunstig	**20,1**	**16,9**	**-4,4**	**-1,7**	**2,1**	0,1	26,6
N102	low max Wnd ;315° + EG_Gunstig	**-25,8**	**-22,1**	**4,9**	**3,3**	**-3,9**	-0,1	**34,3**
N102	low max Wnd ;225° + EG_Gunstig	-5,6	4,0	-1,1	-0,3	-0,6	**-0,2**	6,9
N102	high max Wnd ;45° + EG_Ongunstig	7,7	-1,1	-1,4	0,1	0,7	**0,3**	7,9
N103	low max Wnd ;225° + EG_Gunstig	**27,3**	**-24,0**	**5,9**	**3,6**	**4,0**	0,1	**36,8**
N103	high max Wnd ;45° + EG_Ongunstig	**-19,4**	**16,0**	**-4,7**	**-1,6**	**-1,9**	-0,1	25,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N103	high max Wnd ;135° + EG_Ongunstig	-8,2	-1,0	-2,6	0,1	-0,7	**-0,3**	8,6
N103	high max Wnd ;315° + EG_Ongunstig	5,4	3,4	-0,3	-0,3	0,5	**0,2**	6,4
1X14	low max Wnd ;225° + EG_Gunstig	**27,1**	**-23,8**	**5,1**	**3,6**	**4,1**	0,1	**36,4**
1X14	high max Wnd ;45° + EG_Ongunstig	**-19,2**	**15,7**	**-4,0**	**-1,6**	**-1,9**	-0,1	25,1
1X14	high max Wnd ;135° + EG_Ongunstig	-7,6	-1,6	-1,0	0,1	-0,7	**-0,3**	7,9
1X14	high max Wnd ;315° + EG_Ongunstig	5,0	3,8	-1,8	-0,3	0,5	**0,2**	6,6
1X15	low max Wnd ;225° + EG_Gunstig	**27,4**	**-24,1**	**6,1**	**3,6**	**4,0**	0,1	**36,9**
1X15	high max Wnd ;45° + EG_Ongunstig	**-19,4**	**16,0**	**-4,9**	**-1,6**	**-1,9**	-0,1	25,6
1X15	high max Wnd ;135° + EG_Ongunstig	-8,3	-0,9	-2,9	0,1	-0,7	**-0,3**	8,8
1X15	high max Wnd ;315° + EG_Ongunstig	5,5	3,3	0,1	-0,3	0,5	**0,2**	6,4
N104	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	**-0,3**	0,0	0,0	-0,1	0,3
N104	low max Wnd ;225° + EG_Gunstig	0,0	0,0	**1,8**	0,0	**0,0**	0,1	**1,8**
N104	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N104	high max Wnd ;315° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,2**	0,1
N105	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	**-0,4**	0,0	0,0	-0,1	0,4
N105	low max Wnd ;225° + EG_Gunstig	0,0	0,0	**2,1**	0,0	**0,0**	0,1	**2,1**
N105	high max Wnd ;135° + EG_Ongunstig	0,0	0,0	-0,2	0,0	0,0	**-0,3**	0,2
N105	high max Wnd ;315° + EG_Ongunstig	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,2**	0,0
N106	low max Wnd ;225° + EG_Gunstig	**27,2**	**-23,9**	**5,3**	**3,6**	**4,1**	0,1	**36,5**
N106	high max Wnd ;45° + EG_Ongunstig	**-19,2**	**15,8**	**-4,2**	**-1,6**	**-1,9**	-0,1	25,2
N106	high max Wnd ;135° + EG_Ongunstig	-7,8	-1,4	-1,4	0,1	-0,7	**-0,3**	8,0
N106	high max Wnd ;315° + EG_Ongunstig	5,1	3,7	-1,4	-0,3	0,5	**0,2**	6,5

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N107	high max Wnd ;225° + EG_Ongunstig	**20,3**	**-17,1**	**-4,9**	**1,7**	**2,0**	-0,1	27,0
N107	low max Wnd ;45° + EG_Gunstig	**-26,0**	**22,2**	**5,6**	**-3,4**	**-3,8**	0,1	**34,7**
N107	high max Wnd ;315° + EG_Ongunstig	8,1	0,7	-2,6	-0,1	0,7	**-0,3**	8,6
N107	low max Wnd ;135° + EG_Gunstig	-5,9	-3,6	0,2	0,3	-0,6	**0,2**	6,9
N108	low max Wnd ;135° + EG_Gunstig	**27,1**	**23,9**	**5,3**	**-3,6**	**4,1**	-0,1	**36,5**
N108	high max Wnd ;315° + EG_Ongunstig	**-19,2**	**-15,8**	**-4,2**	**1,6**	**-1,9**	0,1	25,2
N108	high max Wnd ;45° + EG_Ongunstig	5,1	-3,7	-1,4	0,3	0,5	**-0,2**	6,5
N108	high max Wnd ;225° + EG_Ongunstig	-7,7	1,4	-1,4	-0,1	-0,7	**0,3**	8,0
1X16	high max Wnd ;225° + EG_Ongunstig	**20,1**	**-16,9**	**-4,2**	**1,7**	**2,1**	-0,1	26,6
1X16	low max Wnd ;45° + EG_Gunstig	**-25,8**	**22,0**	**4,7**	**-3,3**	**-3,9**	0,1	**34,2**
1X16	high max Wnd ;315° + EG_Ongunstig	7,6	1,2	-1,1	-0,1	0,7	**-0,3**	7,8
1X16	low max Wnd ;135° + EG_Gunstig	-5,5	-4,1	-1,4	0,3	-0,6	**0,2**	7,0
1X17	high max Wnd ;225° + EG_Ongunstig	**20,4**	**-17,1**	**-5,0**	**1,7**	**2,0**	-0,1	27,1
1X17	low max Wnd ;45° + EG_Gunstig	**-26,1**	**22,3**	**5,8**	**-3,4**	**-3,8**	0,1	**34,8**
1X17	high max Wnd ;315° + EG_Ongunstig	8,3	0,6	-2,9	-0,1	0,7	**-0,3**	8,8
1X17	low max Wnd ;135° + EG_Gunstig	-6,0	-3,5	0,6	0,3	-0,6	**0,2**	7,0
N109	low max Wnd ;45° + EG_Gunstig	**0,0**	0,0	**1,7**	0,0	0,0	0,1	**1,7**
N109	high max Wnd ;225° + EG_Ongunstig	0,0	0,0	**-0,4**	0,0	**0,0**	-0,1	0,4
N109	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,3**	0,1
N109	low max Wnd ;135° + EG_Gunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,2**	0,1
N110	low max Wnd ;45° + EG_Gunstig	**0,0**	0,0	**1,9**	0,0	0,0	0,1	**1,9**
N110	high max Wnd ;225° + EG_Ongunstig	0,0	0,0	**-0,4**	0,0	**0,0**	-0,1	0,4

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N110	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	-0,2	0,0	0,0	**-0,3**	0,2
N110	low max Wnd ;135° + EG_Gunstig	**0,0**	**0,0**	0,0	**0,0**	**0,0**	**0,2**	0,0
N111	high max Wnd ;225° + EG_Ongunstig	**20,1**	**-16,9**	**-4,4**	**1,7**	**2,1**	-0,1	26,7
N111	low max Wnd ;45° + EG_Gunstig	**-25,8**	**22,0**	**4,9**	**-3,3**	**-3,9**	0,1	**34,3**
N111	high max Wnd ;315° + EG_Ongunstig	7,8	1,1	-1,4	-0,1	0,7	**-0,3**	8,0
N111	low max Wnd ;135° + EG_Gunstig	-5,6	-4,0	-1,1	0,3	-0,6	**0,2**	6,9
N112	low max Wnd ;135° + EG_Gunstig	**27,3**	**24,0**	**5,9**	**-3,6**	**4,0**	-0,1	**36,8**
N112	high max Wnd ;315° + EG_Ongunstig	**-19,4**	**-16,0**	**-4,7**	**1,6**	**-1,9**	0,1	25,6
N112	high max Wnd ;45° + EG_Ongunstig	5,4	-3,4	-0,3	0,2	0,5	**-0,2**	6,4
N112	high max Wnd ;225° + EG_Ongunstig	-8,2	1,0	-2,6	-0,1	-0,7	**0,3**	8,6
1X18	low max Wnd ;135° + EG_Gunstig	**27,1**	**23,8**	**5,1**	**-3,6**	**4,1**	-0,1	**36,4**
1X18	high max Wnd ;315° + EG_Ongunstig	**-19,2**	**-15,8**	**-4,0**	**1,6**	**-1,9**	0,1	25,1
1X18	high max Wnd ;45° + EG_Ongunstig	5,0	-3,8	-1,8	0,3	0,5	**-0,2**	6,5
1X18	high max Wnd ;225° + EG_Ongunstig	-7,6	1,6	-1,0	-0,1	-0,7	**0,3**	7,9
1X19	low max Wnd ;135° + EG_Gunstig	**27,3**	**24,1**	**6,1**	**-3,6**	**4,0**	-0,1	**36,9**
1X19	high max Wnd ;315° + EG_Ongunstig	**-19,4**	**-16,1**	**-4,9**	**1,6**	**-1,9**	0,1	25,7
1X19	high max Wnd ;45° + EG_Ongunstig	5,5	-3,3	0,1	0,2	0,5	**-0,2**	6,4
1X19	high max Wnd ;225° + EG_Ongunstig	-8,3	0,9	-2,9	-0,1	-0,7	**0,3**	8,8
N113	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	**-0,3**	**0,0**	0,0	0,1	0,3
N113	low max Wnd ;135° + EG_Gunstig	0,0	0,0	**1,8**	0,0	**0,0**	-0,1	**1,8**
N113	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	-0,1	0,0	0,0	**-0,2**	0,1
N113	high max Wnd ;225° + EG_Ongunstig	**0,0**	**0,0**	-0,1	**0,0**	**0,0**	**0,3**	0,1

Naam	Belasting	U_x [mm]	U_y [mm]	U_z [mm]	Φ_x [mrad]	Φ_y [mrad]	Φ_z [mrad]	U_{total} [mm]
N114	high max Wnd ;315° + EG_Ongunstig	0,0	0,0	**-0,4**	**0,0**	0,0	0,1	0,4
N114	low max Wnd ;135° + EG_Gunstig	0,0	0,0	**2,1**	0,0	**0,0**	-0,1	**2,1**
N114	high max Wnd ;45° + EG_Ongunstig	0,0	0,0	0,0	0,0	0,0	**-0,2**	0,0
N114	high max Wnd ;225° + EG_Ongunstig	**0,0**	**0,0**	-0,2	**0,0**	**0,0**	**0,3**	0,2

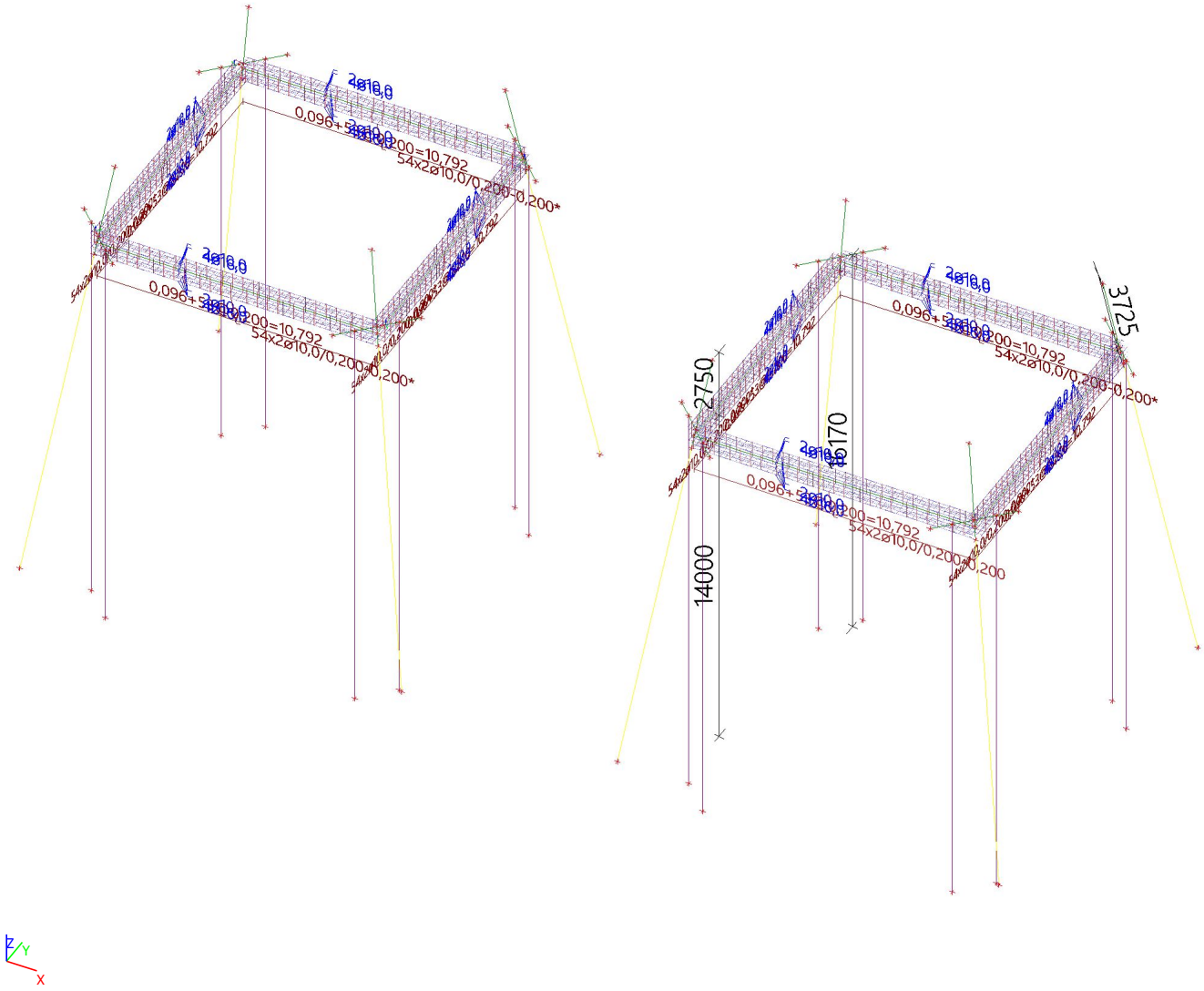
1. Inhoudsopgave

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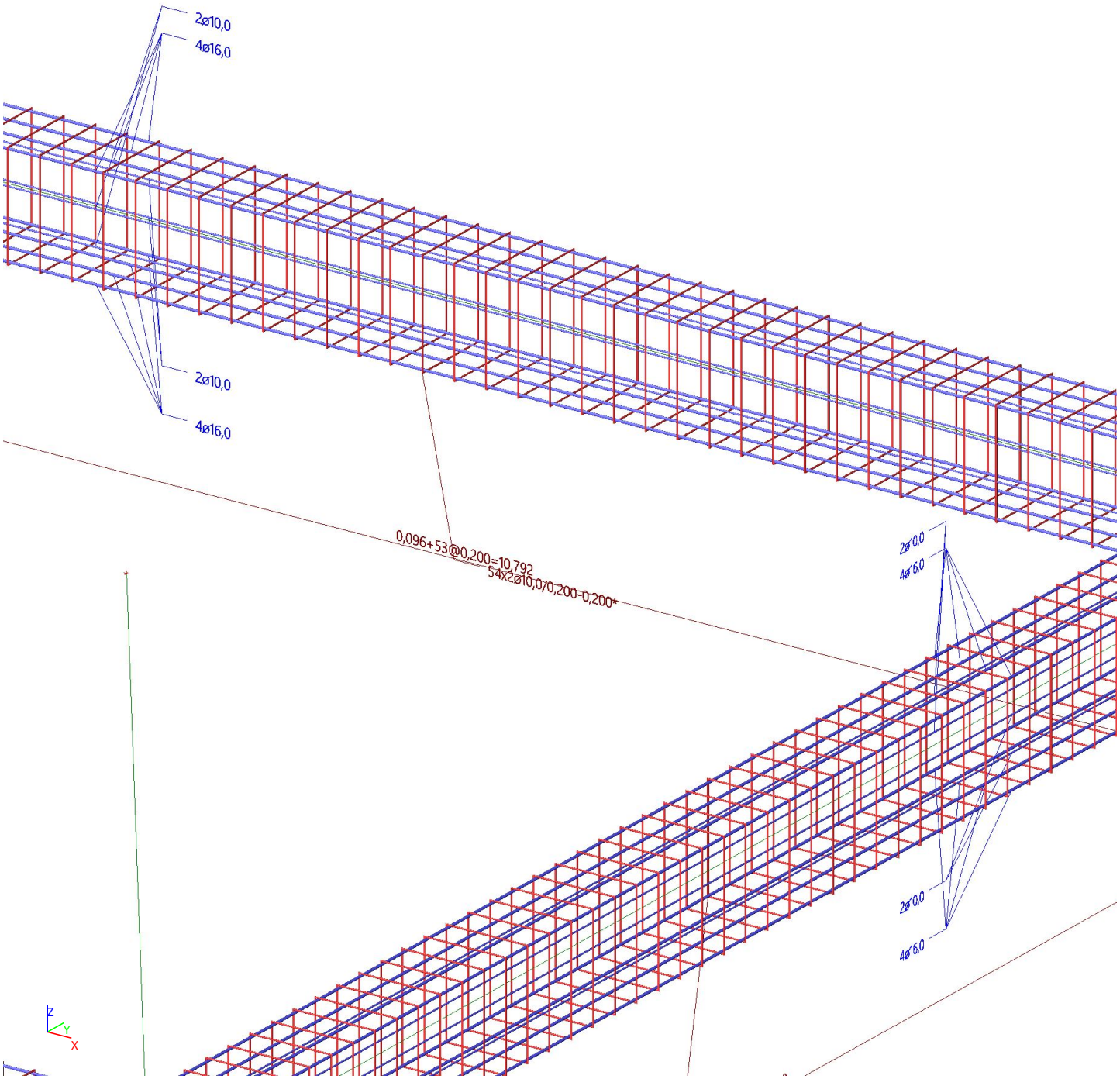
2. Project

Gebruiker van licentie	[redacted]
Project	Opwaardering KIJ-BVW 380kV
Onderdeel	Koppelframe mast 144 - Wapeningtoetsing
Auteur	[redacted]
Datum	11-05-2026
Constructie	Algemeen XYZ
Aantal knopen :	92
Aantal staven :	64
Aantal platen :	0
Aantal vaste lichamen :	0
Aantal gebruikte doorsneden :	6
Aantal belastingsgevallen :	9
Aantal gebruikte materialen :	9
Gravitatieversnelling [m/s^2]	9,807
Nationale norm	EC - EN

3. Rekenmodel / Hoofdwapening / Beugels



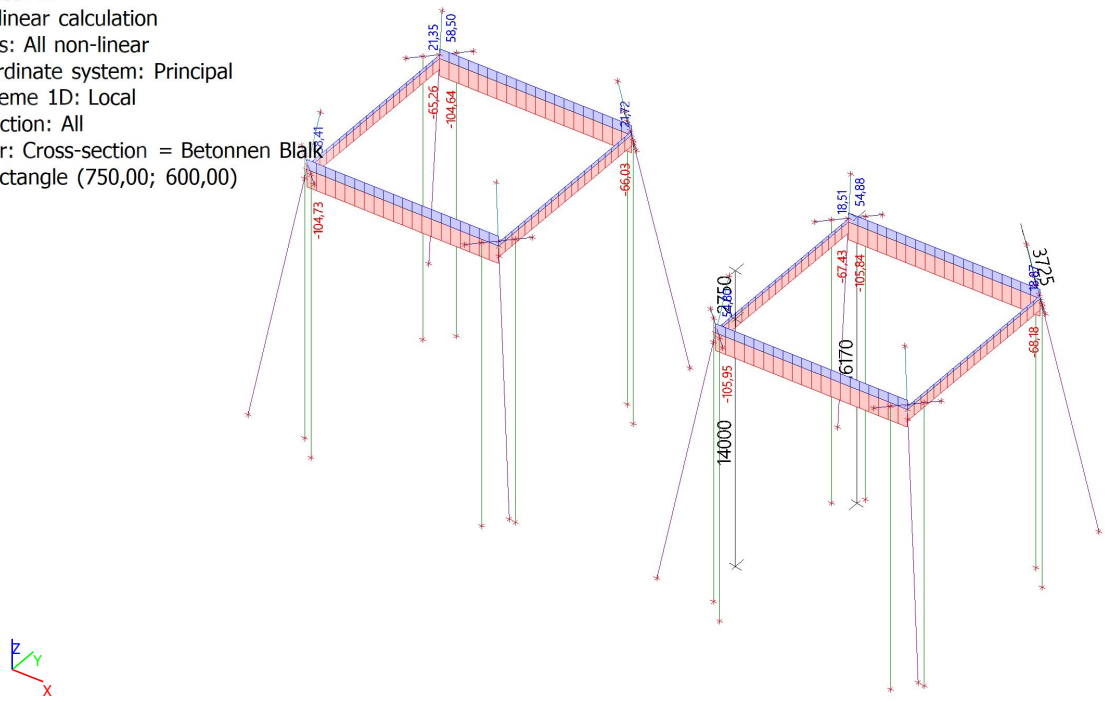
4. Rekenmodel / Hoofdwapening / Beugels



5. Krachten van de Funderingsbalken

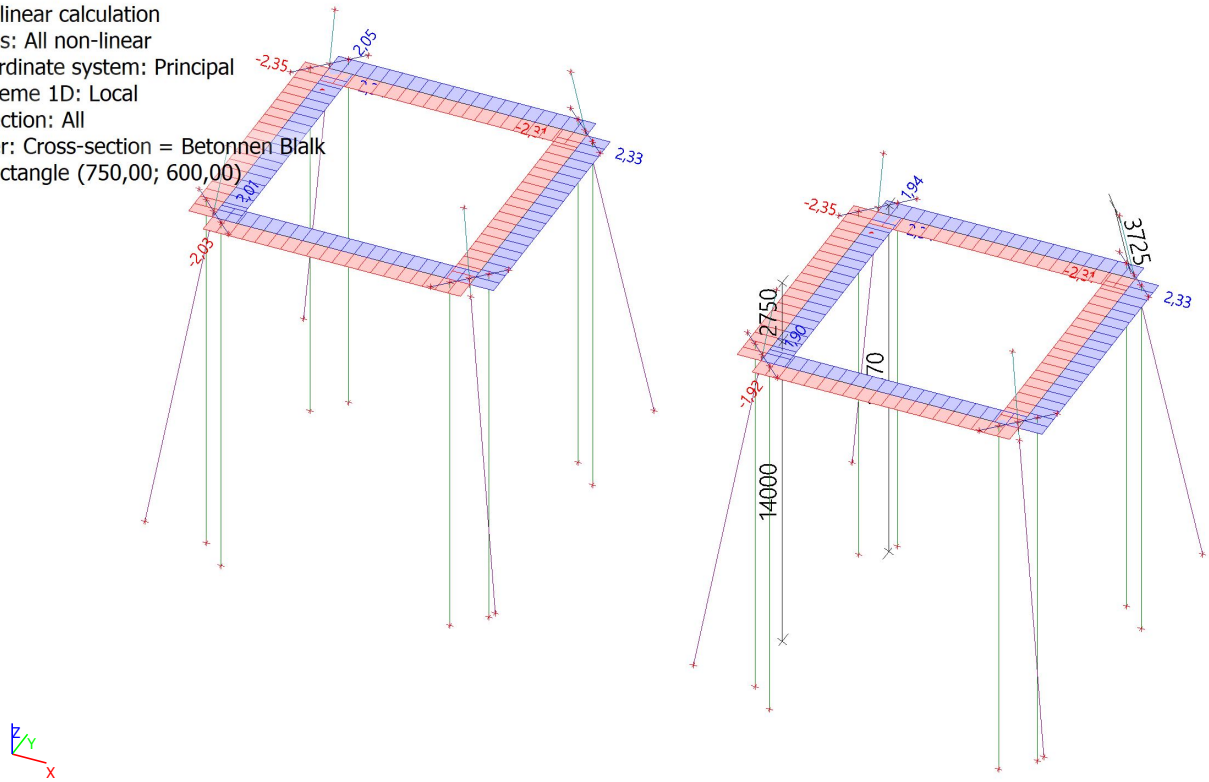
5.1. Interne 1D- krachten; N

Values: **N**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Cross-section = Betonnen Blalk
- Rectangle (750,00; 600,00)



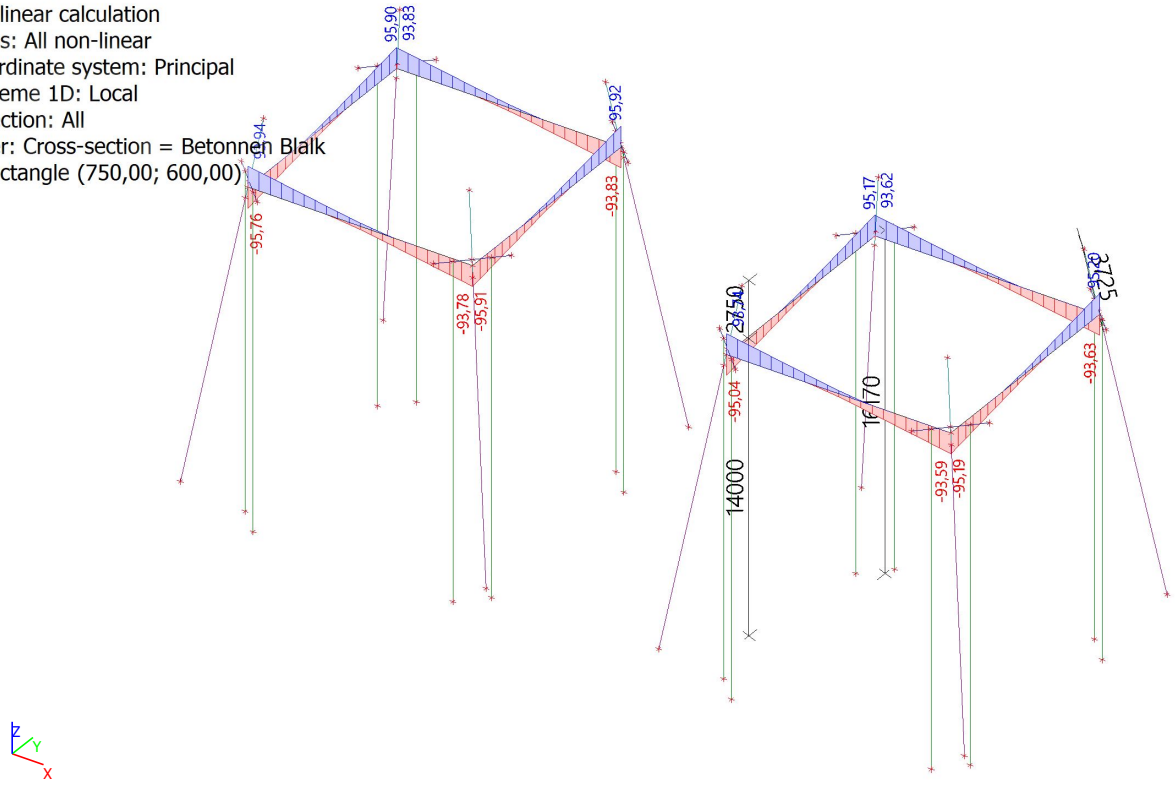
5.2. Interne 1D- krachten; V_y

Values: **V_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Cross-section = Betonnen Blalk
- Rectangle (750,00; 600,00)



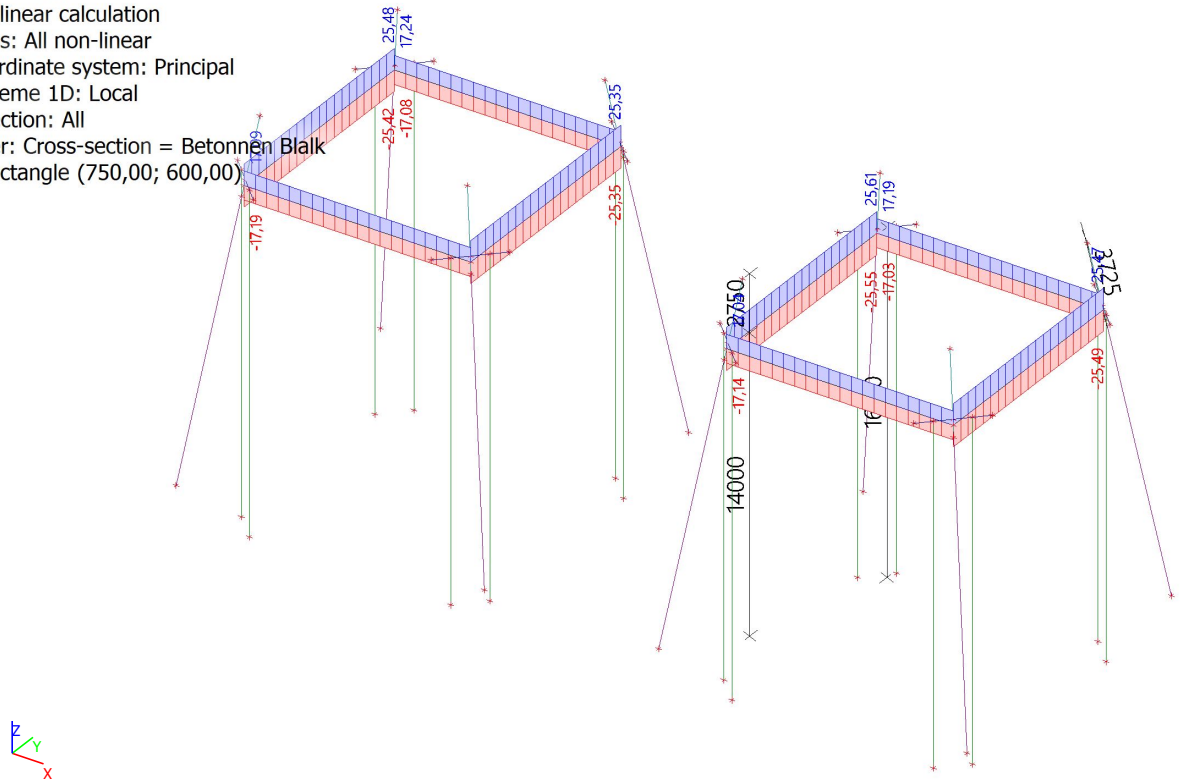
5.3. Interne 1D- krachten; V_z

Values: V_z
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Cross-section = Betonnen Blalk
- Rectangle (750,00; 600,00)



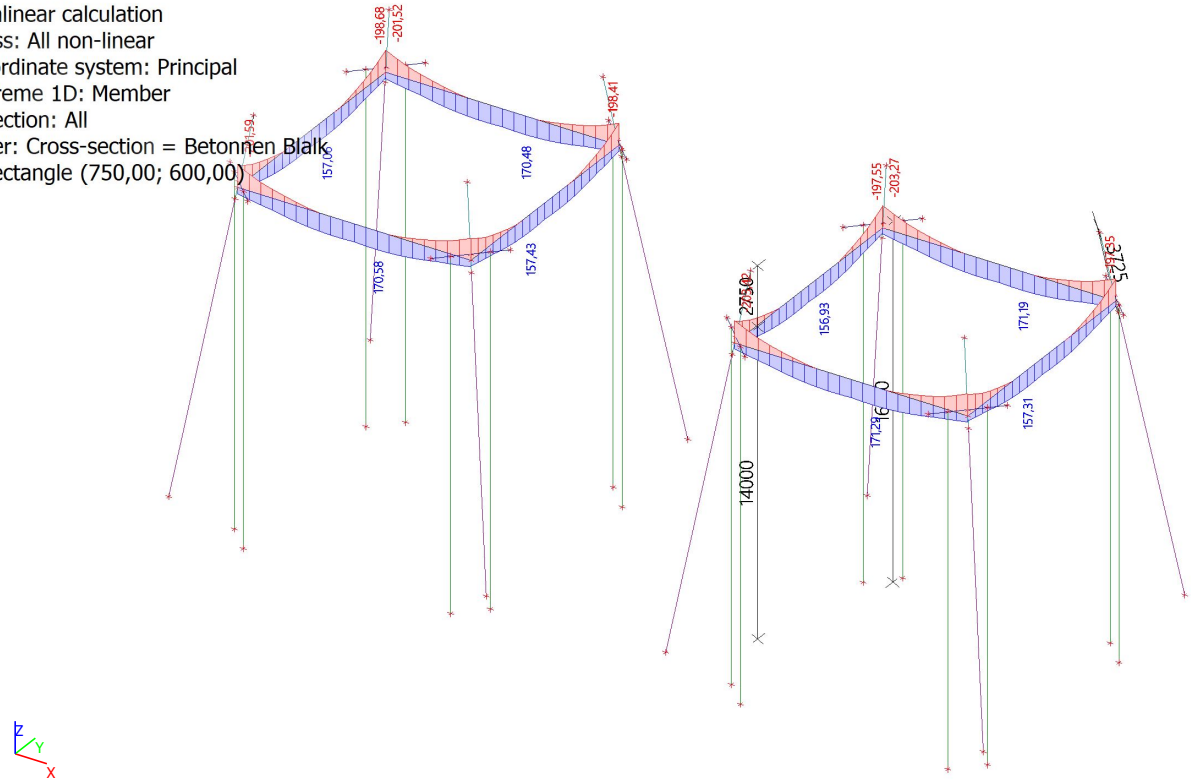
5.4. Interne 1D- krachten; M_x

Values: M_x
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Local
Selection: All
Filter: Cross-section = Betonnen Blalk
- Rectangle (750,00; 600,00)



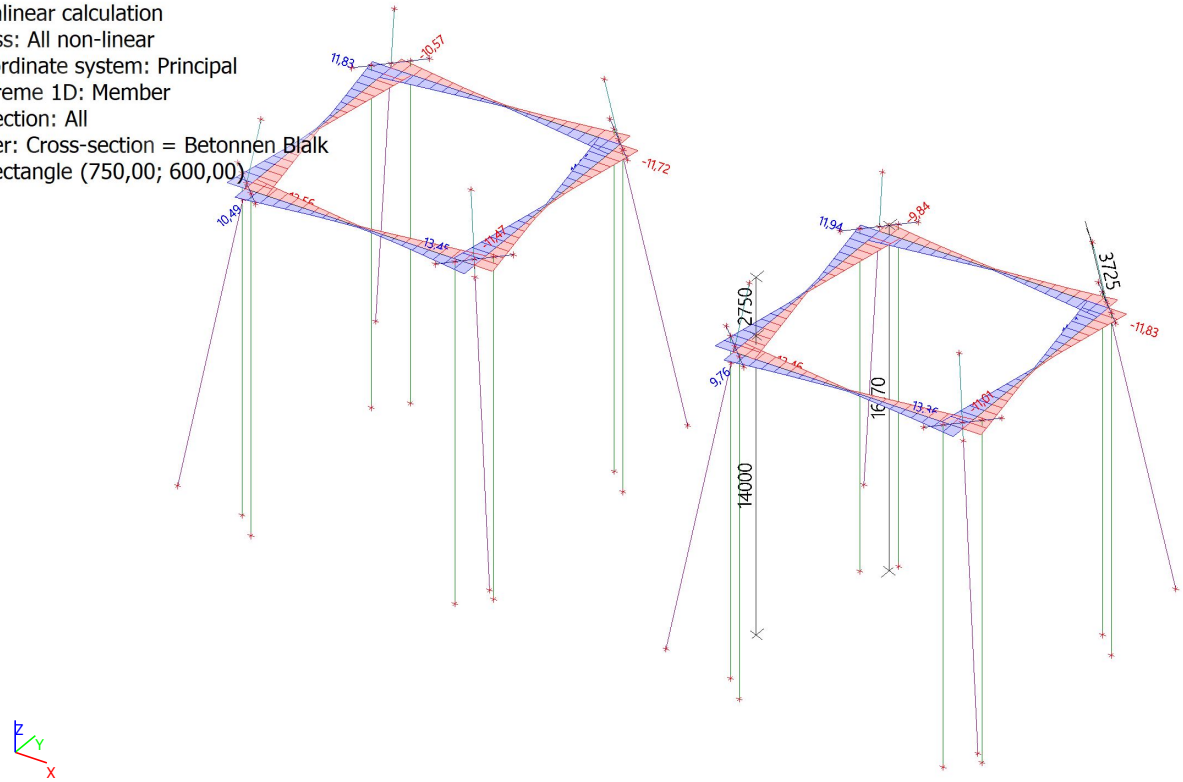
5.5. Interne 1D- krachten; M_y

Values: **M_y**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Cross-section = Betonnen Blalk - Rectangle (750,00; 600,00)



5.6. Interne 1D- krachten; M_z

Values: **M_z**
Nonlinear calculation
Class: All non-linear
Coordinate system: Principal
Extreme 1D: Member
Selection: All
Filter: Cross-section = Betonnen Blalk - Rectangle (750,00; 600,00)



5.7. Interne 1D-krachten

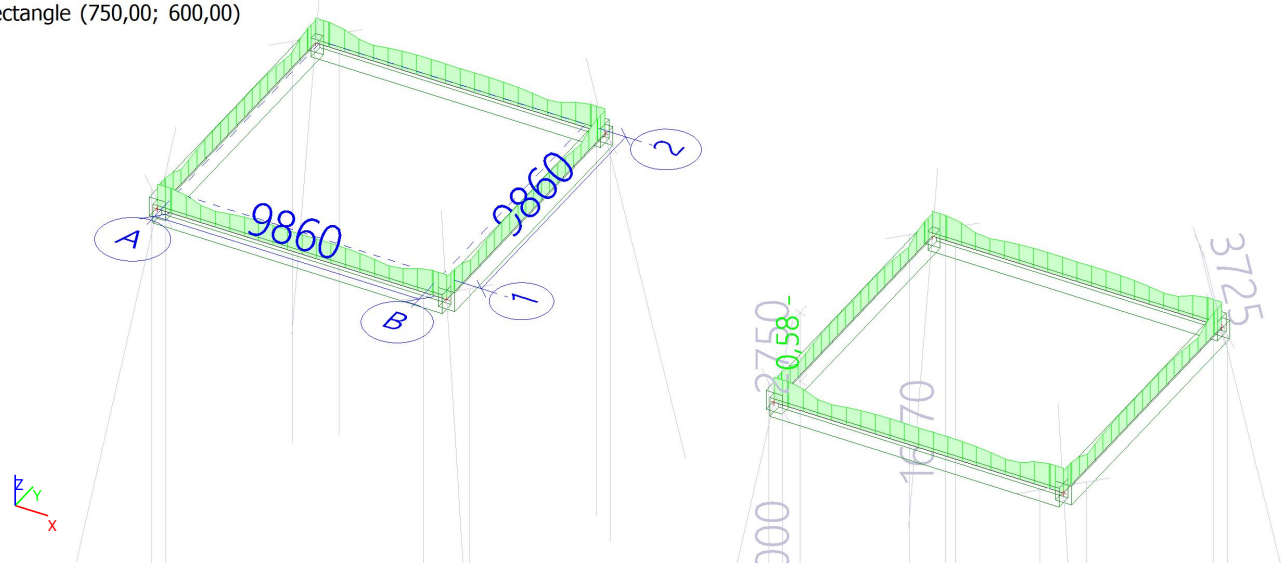
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Hoofd
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Betonnen Blalk - Rectangle (750,00; 600,00)

Naam	dx [m]	Belasting	Doorsnede	N [kN]	V_y [kN]	V_z [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]
(balk 600x750)1	0,000	low max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**58,50**	-2,02	66,53	-13,07	-175,16	11,42
(balk 600x750)6	0,000	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	-64,43	**-2,35**	68,90	**25,61**	-119,17	11,94
(balk 600x750)3	10,792	high max Wnd ;315°	Betonnen Blalk - Rectangle (750,00; 600,00)	-66,03	-0,91	**-95,91**	23,69	-151,36	-4,20
(balk 600x750)3	0,000	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	-65,90	0,91	**95,92**	-23,66	-151,44	-4,22
(balk 600x750)6	0,000	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	-64,37	**2,34**	38,35	**-25,55**	45,92	-13,41
(balk 600x750)4	0,000	high max Wnd ;315°	Betonnen Blalk - Rectangle (750,00; 600,00)	49,94	-0,34	93,15	14,07	**-203,42**	1,19
(balk 600x750)4	6,475	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**-105,95**	0,76	-2,71	15,28	**171,29**	1,79
(balk 600x750)2	10,792	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	-62,77	-2,35	-36,92	25,48	53,55	**-13,56**
(balk 600x750)3	10,792	low max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	-62,31	2,33	-36,96	-25,35	53,25	**13,45**

6. Buigingstoets

6.1. Check capacity-interaction diagram; UC

Values: **UC**
Nonlinear calculation
Class: All non-linear
Coordinate system: Member
Extreme 1D: Global
Selection: All
Filter: Cross-section = Betonnen Blalk - Rectangle (750,00; 600,00)



6.2. Controle capaciteits-interactiediagram

Waarden: **UC**
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Staaf
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Betonnen Blalk - Rectangle (750,00; 600,00)

Naam	dx [m]	Belasting	Doorsnede	N_{Ed} [kN]	M_{Edy} [kNm] M_{Edz} [kNm]	Method	N_{Rd+} [kN] N_{Rd-} [kN]	M_{Rdy+} [kNm] M_{Rdy-} [kNm]	M_{Rdz+} [kNm] M_{Rdz-} [kNm]	UC [-] Check
(balk 600x750)1	1,619	low max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**58,50**	-99,72 8,14	NuMu	144,96 -208,71	355,73 -247,07	20,18 -29,05	0,40 OK
(balk 600x750)4	0,000	high max Wnd ;315°	Betonnen Blalk - Rectangle (750,00; 600,00)	49,94	**-158,86** 0,00	NuMu	85,42 -103,83	330,29 -271,73	0,00 0,00	**0,58** OK
(balk 600x750)4	6,475	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**-105,95**	**171,29** 1,79	NuMu	153,91 -226,99	366,99 -248,84	3,84 -2,60	0,47 OK
(balk 600x750)2	10,252	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	-62,77	82,48 **-12,85**	NuMu	177,56 -285,28	374,85 -233,31	36,35 -58,40	0,36 OK
(balk	10,792	low max	Betonnen	-62,31	65,66	NuMu	210,15	403,12	82,58	0,16

Naam	dx [m]	Belasting	Doorsnede	N_{Ed} [kN]	M_{Edy} [kNm] M_{Edz} [kNm]	Method	N_{Rd+} [kN] N_{Rd-} [kN]	M_{Rdy+} [kNm] M_{Rdy-} [kNm]	M_{Rdz+} [kNm] M_{Rdz-} [kNm]	UC [-] Check
600x750)3		Wnd ;45°	Blalk - Rectangle (750,00; 600,00)		**13,45**		-382,55	-221,45	-45,37	OK
(balk 600x750)5	9,173	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	-102,25	17,88 -6,77	NuMu	**583,48** **-4579,49**	800,95 -102,05	38,62 -303,11	0,02 OK
(balk 600x750)8	1,619	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	-104,73	30,92 1,09	NuMu	476,91 -3348,86	**988,82** -140,82	34,95 -4,98	0,03 OK
(balk 600x750)1	9,173	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	-101,32	-22,69 -6,72	NuMu	532,62 -3810,44	119,29 **-853,42**	35,35 -252,88	0,03 OK
(balk 600x750)5	1,079	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	54,86	11,12 -8,31	NuMu	524,97 -2957,94	106,37 -599,32	**448,09** -79,53	0,10 OK
(balk 600x750)4	9,713	low max Wnd ;315°	Betonnen Blalk - Rectangle (750,00; 600,00)	54,78	11,14 8,15	NuMu	525,88 -2986,92	106,90 -607,16	78,27 **-444,56**	0,10 OK

6.3. Controle capaciteits-interactiediagram

Waarden: **UC**
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Staaf
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Betonnen Blalk - Rectangle (750,00; 600,00)

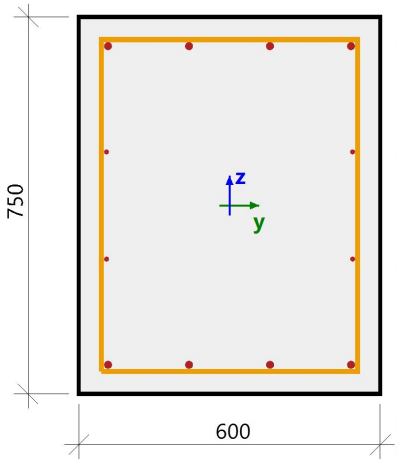
Balk (balk 600x750)4

NEN EN 1992-1-1+C2/NB+A1:2020

Rectangle (750,00; 600,00)

Doorsnede 0 [dx = 0 m]

Staaflengte: L = 10.8 m
"Knik y-y⊥ L_y = 12.9 m (zijdelings flexibel)
Knik z-z⊥ L_z = 13.3 m (zijdelings flexibel)



Beton: C30/37 Gescheurd
Bilineair spanning-rekdiagram
Milieuklasse: XC4, XF4

Langswapening: B 500A
Bilineair met oplopende bovenvertakking
8ø16+4ø10 (1923 mm^2)
ρ_l = 0,427 % (15.1 kg/m)

Afschuifwapening: B 500A
Bilineair met oplopende bovenvertakking
2ø10/199 (790 mm^2/m)
ρ_w = 0,132 % (6.2 kg/m)

Dekking (beugel)
Bovenzijde: 40 mm
Onderzijde: 40 mm
Links: 40 mm
Rechts: 40 mm

Materiaalkarakteristieken

Ontwerpbetondruksterkte

$$f_{cd} = \frac{\alpha_{cc} \cdot f_{ck}}{\gamma_C} = \frac{1 \cdot 30}{1.5} = 20$$ [redacted]

Ontwerp vloeisterkte van langswapening

$$f_{yd} = \frac{f_{yk}}{\gamma_S} = \frac{500}{1.15} = 435$$ [redacted] (3.15)

Krachten

Van EEM analyse

N = 49.9 kN M_y = -203 kNm M_z = 1.19 kNm

Inhoud van de combinatie:

highmaxWnd;315°

Drukstaaf

Beperk normaalkracht om rekening te houden met drukstaven:

$$N_{com} = -\,Coeff_{com} \cdot \left(f_{cd} \cdot A_c \right) = -\,0.1 \cdot \left(20 \cdot 10^6 \cdot 0.45 \right) = -900 \text{ kN}$$

Controleer conditie:

$N_{Ed} \geq N_{com}$ = 50 kN ≥ -900 kN ... geen drukstaaf

Opm.: Het element moet niet worden beschouwd als een drukelement (normaalkracht is relatief klein of nul).

Herberekende buigende momenten:

Momentreductie boven steunpunt: Ja
Reductie van dwarskrachten boven steunpunt: Ja
Verschuivingsregel gebruiken: Ja
Dwarskrachten reduceren: Op het vlak

N_{Ed} = 49.9 kN M_{Edy} = -159 kNm M_{Edz} = 0 kNm

Invoergegevens voor het genereren van interactiediagrammen

Methode van interactiediagram controle	N_uM_u
Verdeling van verticale rekken	250
Aantal verticale snedes	18
Resultante waarde van buigend moment	M_{res} = 159 kNm
Hoek van resultante van buigend moment is gerelateerd aan M_y richting in horizontaal vlak M_y-M_z	α_{MyMz} = 0 °
Hoek van resultante van buigend moment is gerelateerd aan N richting in verticaal vlak N-M_{res}	α_{NM} = 17.5 °

Status van scheuren in buiging

$\sigma_{ct.max}$ = 2.94 [redacted] ≥ f_{ctd} = 1.33 [redacted] => doorsnede gescheurd bij buiging

Toetsing van beperkte hoogte van drukzone gebaseerd op 6.1(9) van NEN EN 1992-1-1

Grenswaarde van ontwerpnormaalkracht

$N_{lim} = 0.1 \cdot A_c \cdot f_{cd} = 0.1 \cdot 0.45 \cdot 20 = 900$ kN

Ontwerpwaarde van normaalkracht

N_{Ed} = 49.9 kN

De waarde x_u berekend op basis van de weerstanden uit het interactiediagram

N_{Rd} = 85.4 kN

M_{Rdy} = -272 kN

M_{Rdz} = 0 kN

Beperkte hoogte van drukzone

$$x_{u,lim} = \frac{500 \cdot 10^6 \cdot d}{500 \cdot 10^6 + f} = \frac{500 \cdot 10^6 \cdot 0.558}{500 \cdot 10^6 + 435 \cdot 10^6} = 0.298 \text{ m}$$

$x_u < x_{u,lim}$ => 53.3 mm < 298 mm

Controlewaarde gerelateerd aan de beperking van de drukzone

$$UC_{xu} = \frac{x_u}{x_{u,lim}} = \frac{0.0533}{0.298} = 0.179$$

Berekening van weerstanden

Weerstanden in positieve richting N_{Rd+} = 85 kN M_{Rdy+} = 330 kNm M_{Rdz+} = 0 kNm

Weerstanden in negatieve richting N_{Rd-} = -104 kN M_{Rdy-} = -272 kNm M_{Rdz-} = 0 kNm

Samenvatting controle

Krachten: N_{Ed} = 49.9 kN M_{Edy} = -159 kNm M_{Edz} = 0 kNm

Weerstand: N_{Rd} = 85 kN M_{Rdy} = -272 kNm M_{Rdz} = 0 kNm

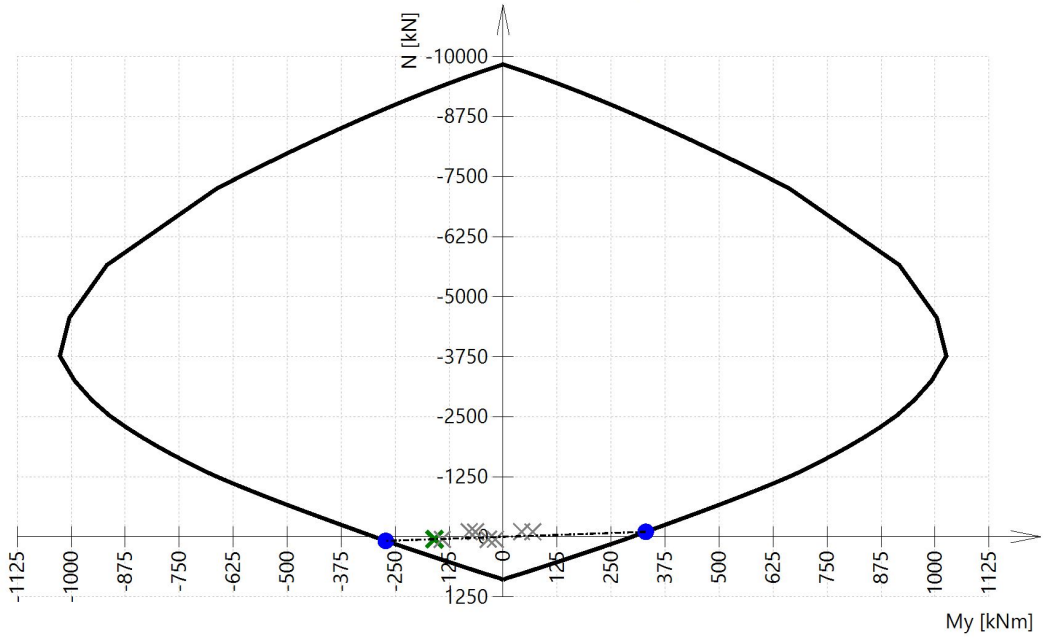
Berekenen van de eenheidscontrole:

$$UC = \frac{\sqrt{N_{Ed}^2 + M_{Edy}^2 + M_{Edz}^2}}{\sqrt{N_{Rd}^2 + M_{Rdy}^2 + M_{Rdz}^2}} = \frac{\sqrt{49.9^2 + -159^2 + 0^2}}{\sqrt{85.4^2 + -272^2 + 0^2}} = 0.585$$

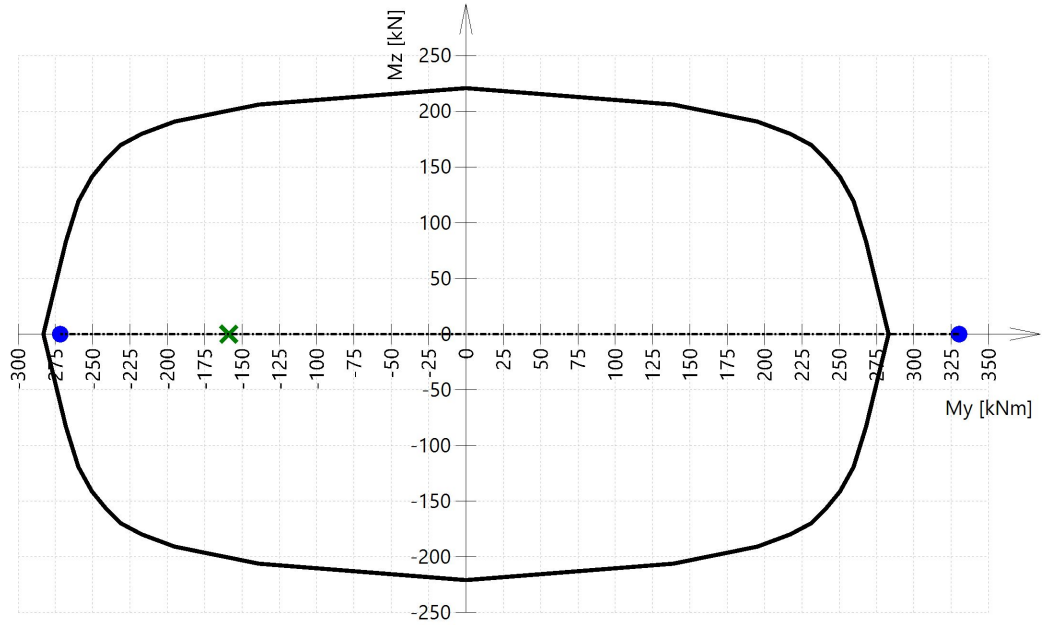
Eenheidscontrole gebaseerd op $x_{u,lim}$ volgens 6.1(9) van NEN EN 1992-1-1

$$UC_{xu} = \frac{x}{x_{u,lim}} = \frac{0.0533}{0.298} = 0.179 \quad <= 1 \quad \textbf{OK}$$

3D-interactiediagram - Verticale doorsnede N-M $_y$



3D-interactiediagram - Horizontale doorsnede M_y-M_z

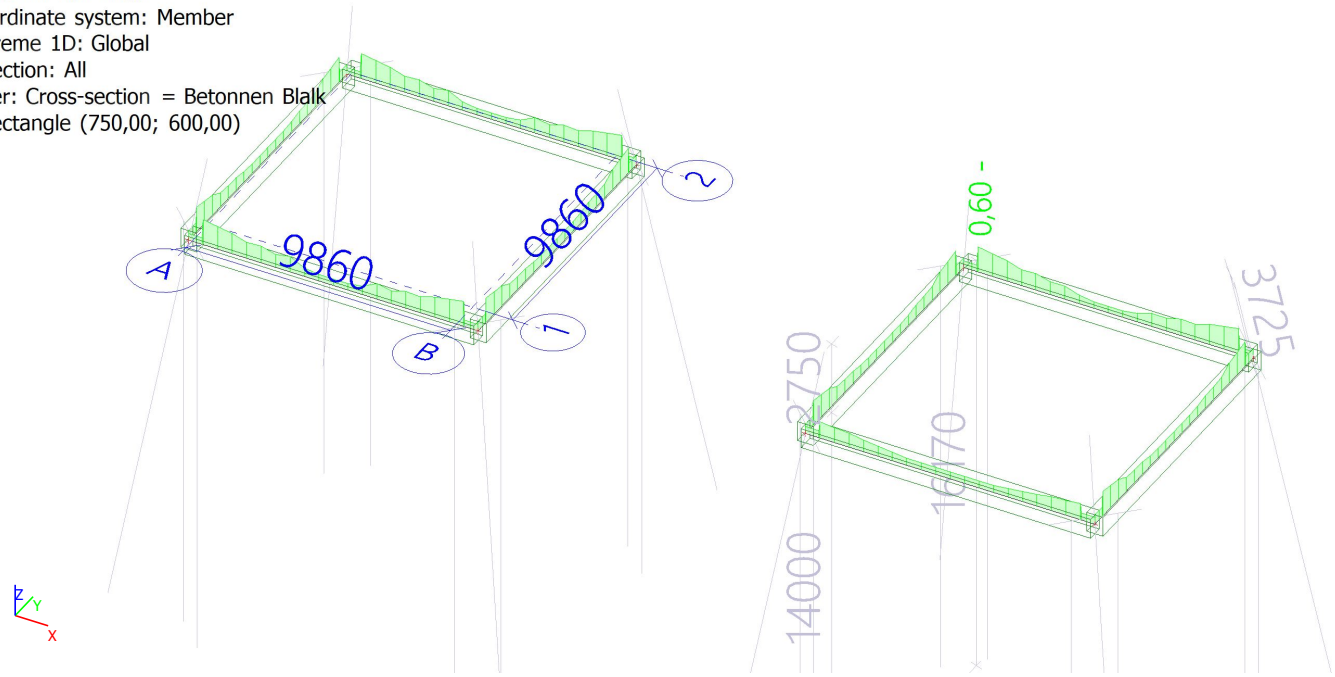


Lijst van fouten/waarschuwingen/opmerkingen: N2/1

7. Dwarskracht- en torsietoets

7.1. Controleer afschuiving+torsie (UGT); UC

Values: **UC**
Nonlinear calculation
Class: All non-linear
Coordinate system: Member
Extreme 1D: Global
Selection: All
Filter: Cross-section = Betonnen Blalk - Rectangle (750,00; 600,00)



7.2. Controleer afschuiving+torsie (UGT)

Waarden: **UC**
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Staaf
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Betonnen Blalk - Rectangle (750,00; 600,00)
Dwarskrachtcontrole

Naam	dx [m]	Belasting	Doorsnede	V_{Ed} [kN]	d [mm] z [mm]	A_{swm} [cm²/m] θ [deg]	b_w [mm] b_{w1} [mm]	V_{Rdc} [kN] V_{Rdmax} [kN]	V_{Rds} [kN]	UC_{shear} [-]
(balk 600x750)3	6,475	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**1,05**	4,0179e+02 3,2545e+02	0,00 40,00	656,61 683,34	131,83 1156,39	0,00	0,01
(balk 600x750)3	0,000	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**88,48**	6,5911e+02 5,9811e+02	0,00 40,00	600,00 600,00	158,79 1866,01	0,00	0,05
(balk 600x750)5	9,173	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	51,58	6,7176e+02 4,7036e+02	0,00 40,00	338,44 600,24	**371,74** 1468,06	0,00	0,14
(balk 600x750)4	8,094	high max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	52,81	6,4885e+02 6,1414e+02	7,85 40,00	600,00 600,00	135,11 **2177,32**	**229,93**	0,23

Naam	dx [m]	Belasting	Doorsnede	V_{Ed} [kN]	d [mm] z [mm]	A_{swm} [cm²/m] θ [deg]	b_w [mm] b_{w1} [mm]	V_{Rdc} [kN] V_{Rdmax} [kN]	V_{Rds} [kN]	UC_{shear} [-]
(balk 600x750)5	0,540	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	85,13	6,5415e+02 6,0451e+02	0,00 40,00	600,00 600,00	143,00 1885,99	0,00	**0,60**

Torsiecontrole

Naam	dx [m]	Belasting	Doorsnede	T_{Ed} [kNm]	u_k [mm] A_k [mm²]	A_{swtm} [cm²/m] t_{ef} [mm]	T_{Rdc} [kNm] T_{Rdmax} [kNm]	T_{Rds} [kNm] T_{Rd} [kNm]	UC_{tor} [-]
(balk 600x750)6	5,936	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	**-25,55**	2033,34 2,5278e+05	0,00 166,67	112,35 438,13	0,00 112,35	0,23
(balk 600x750)4	10,792	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	-17,14	2033,34 2,5278e+05	3,95 166,67	**112,35** **438,13**	**103,44** 103,44	0,17
(balk 600x750)6	0,000	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	**25,61**	2033,34 2,5278e+05	0,00 166,67	112,35 438,13	0,00 **112,35**	**0,23**

Interactie tussen afschuiving en torsie

Naam	dx [m]	Belasting	Doorsnede	V_{Ed} [kN] T_{Ed} [kNm]	Equation 6_29 [-] Equation 6_31 [-]	UC_{int_con} [-]	UC_{int_shear} [-]	UC_{int} [-]
(balk 600x750)3	6,475	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**1,05** -23,66	0,05 0,22	0,05	0,00	0,05
(balk 600x750)3	0,000	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**88,48** -23,66	0,10 0,77	0,10	**0,00**	0,10
(balk 600x750)6	5,936	low max Wnd ;225°	Betonnen Blalk - Rectangle (750,00; 600,00)	20,72 **-25,55**	0,07 0,36	0,07	0,00	0,07
(balk 600x750)6	0,000	low max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	63,98 **25,61**	0,09 0,63	0,09	0,00	0,09
(balk 600x750)2	0,000	high max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	88,45 23,70	0,10 0,77	**0,10**	0,00	**0,10**

Globale tabel van dwars- en torsiecontrole

Naam	dx [m]	Belasting	Doorsnede	UC_{shear} [-]	UC_{tor} [-]	UC_{int} [-]	UC [-]	Check
(balk 600x750)6	0,000	low max Wnd ;135°	Betonnen Blalk -	0,03	**0,23**	0,09	0,23	OK BUT

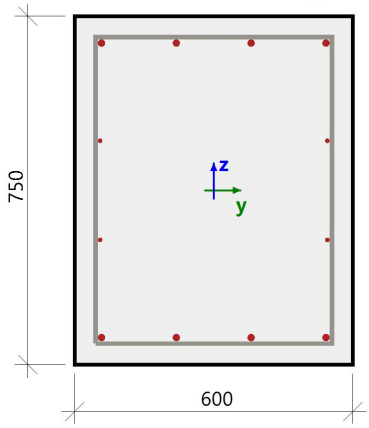
Naam	dx [m]	Belasting	Doorsnede	UC_{shear} [-]	UC_{tor} [-]	UC_{int} [-]	UC [-]	Check
			Rectangle (750,00; 600,00)					
(balk 600x750)2	0,000	high max Wnd ;135°	Betonnen Blalk - Rectangle (750,00; 600,00)	0,05	0,21	**0,10**	0,21	OK BUT
(balk 600x750)5	0,540	high max Wnd ;45°	Betonnen Blalk - Rectangle (750,00; 600,00)	**0,60**	0,13	0,08	**0,60**	**OK BUT**

7.3. Controleer afschuiving+torsie (UGT)

Waarden: **UC**
Niet-lineaire berekening
Klasse: All non-linear
Coördinatenstelsel: Staaf
Extreme 1D: Globaal
Selectie: Alle
Filter: Doorsnede = Betonnen Blalk - Rectangle (750,00; 600,00)

Balk (balk 600x750)5	**Rectangle (750,00; 600,00)**
NEN EN 1992-1-1+C2/NB+A1:2020	Doorsnede 3 [dx = 0.54 m]

Staaflengte: L = 10.8 m
"Knik y-y⊥ L_y = 12.9 m (zijdelings flexibel)
Knik z-z⊥ L_z = 13.3 m (zijdelings flexibel)



Beton: C30/37 Gescheurd
Bilineair spanning-rekdiagram
Milieuklasse: XC4, XF4

Langswapening: B 500A
Bilineair met oplopende bovenvertakking
8ø16+4ø10 (1923 mm^2)
ρ_l = 0,427 % (15.1 kg/m)

Afschuifwapening: B 500A
Bilineair met oplopende bovenvertakking
2ø10/200* (detaillering)

Dekking (beugel)
Bovenzijde: 40 mm
Onderzijde: 40 mm
Links: 40 mm
Rechts: 40 mm

Instellingen

Methode voor berekening afschuifweerstanden: Standaard

Grenswaarde van de hoek tussen buigende momenten en resultante dwarskrachten voor het gebruik van de standaardmethode: $\alpha_{VM,lim}$ = 15 °

Equivalente dunwandige doorsnede: Automatisch

De hoek tussen de betondrukschoor en de staafas: Gebruikersinvoer: θ_{inp} = 40 ° => cot(θ_{inp}) = 1.19

Krachten

Inhoud van de combinatie: highmaxWnd;45°

N_{Ed} = 50.1 kN M_{Edy} = -159 kNm M_{Edz} = 0 kNm V_{Edy} = 0 kN V_{Edz} = 85.1 kN T_{Ed} = -14.2 kNm

Hoek van gradiënt van rekvlak

$\alpha_M = 90\ °$

Hoek van resultante van afschuiving

$\alpha_V = 90\ °$

Resultante van dwarskracht

$$V_{Ed} = \sqrt{V_{Edy}^2 + V_{Edz}^2} = \sqrt{0^2 + 85.1^2} = 85.1\ \text{kN}$$

Verschil tussen hoeken α_M en α_V

$$\alpha_{MV} = \text{abs}(\alpha_M - \alpha_V) = \text{abs}(90 - 90) = 0\ °$$

Materiaalkarakteristieken

Ontwerpbetondruksterkte

$$f_{cd} = \frac{\alpha_{cc} \cdot f_{ck}}{\gamma_C} = \frac{1 \cdot 30}{1.5} = 20 \text{ [redacted]}$$

Ontwerp betontreksterkte

$$f_{ctd} = \frac{\alpha_{ct} \cdot f_{ctk005}}{\gamma_C} = \frac{1 \cdot 2}{1.5} = 1.33 \text{ [redacted]}$$ (3.15, 3.16)

Berekening van hoek tussen betondrukschoor en staafas

- minimale waarde:

$\theta_{min} = 21.8° \Rightarrow \cot(\theta_{min}) = 2.5$ (§6.2.3(2))

- maximale waarde:

$\theta_{max} = 45° \Rightarrow \cot(\theta_{max}) = 1$ (§6.2.3(2))

- invoer/berekende waarde:

$\theta = \theta_{inp} = 40°, \cot(\theta) = 1.19$

Opm.: Automatische berekening van hoek is uitgeschakeld, gebruikerswaarde wordt in rekening genomen

Controleer afschuiving en bereken afschuifweerstand

Waarsch.: De beugels liggen te ver uit elkaar. Er wordt alleen weerstand zonder afschuifwapening berekend. Verminder de afstand tussen de beugels in langsrichting, of verlaag de hoek θ.

Doorsnedeparameters

Minimale breedte van doorsnede in trekzone

y_{bw} = 0 mm z_{bw} = -231 mm b_w = 600 mm

Opm.: Waarde b_w is berekend als de kleinste breedte van de doorsnede in het trekoppervlak loodrecht op de resultante van de dwarskracht.

Minimale breedte van de doorsnede tussen trek- en drukschoor

y_{bw1} = 0 mm z_{bw1} = 279 mm b_{w1} = 600 mm

Opm.: Waarde b_{w1} is berekend als de kleinste breedte van de doorsnede tussen het trek- en drukkoord loodrecht op de resultante van de dwarskracht.

Hoogte van doorsnede is herberekend in de richting van de resultante van de dwarskracht

h = 750 mm

Opm.: De waarde h wordt berekend als de breedte van de doorsnede op het zwaartepunt in de richting van de resultante van de dwarskracht.

Oppervlakte betondoorsnede

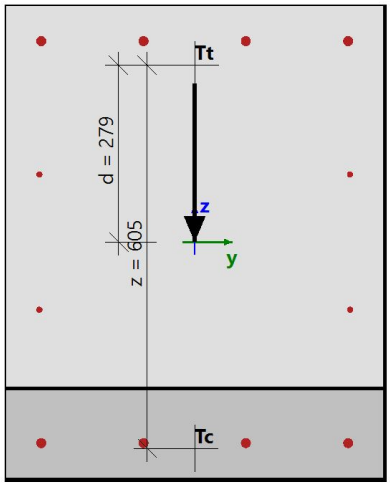
A_c = 0.45 m^2

Effectieve diepte omgerekend naar richting van resultante van dwarskracht

d = 654 mm

Hefboomsarm van interne krachten omgerekend naar richting van resultante van dwarskracht

z = 605 mm



Parameters van afschuifwapening

Invoerparameters

Beugels over de lengte van scheurafschuifprojectie δ = z*cot(Θ) = 724 mm, interval (-362; 362)

$z = Coeff\_d \cdot Coeff\_z \cdot h = 0.9 \cdot 0.9 \cdot 0.75 = 608\ mm$ $\delta = z \cdot \cot g(\theta) = 0.608 \cdot \cot g(40) = 724\ mm$

Aantal snedes per beugel	$n_s = 0$
Diameter van de wapening	$ø_s = 0$ mm
Hart - op - hartafstand van beugel in langsrichting	$s_{inp} = 0$ m
Hoek van beugels van elementas	$\alpha_s = 90°$
Karakteristieke vloeigrens	$f_{ywk} = 0$ [redacted]

Doorsnedeoppervlakte van afschuifwapening

$$A_{sw} = n_s \cdot \pi \cdot \left(\frac{ø_s}{2}\right)^2 = 0 \cdot 3.14 \cdot \left(\frac{0}{2}\right)^2 = 0\ mm^2$$

Opm.: Het doorsnedeoppervlak van de afschuifwapening is nul, gebruikersgedefinieerde beugels worden niet in rekening gebracht.

Parameters van langswapening

Het oppervlak van de trekwapening

$A_{sl} = 1118\ mm^2$

Berekening van afschuifweerstanden

Ontwerpafschuifweerstand van de staaf zonder afschuifwapening

$\sigma_{ct,max} = 2.93$ [redacted] $\geq f_{ctd} = 1.33$ [redacted] => doorsnede gescheurd bij buiging

Berekening ontwerp afschuifweerstand van de staaf zonder afschuifwapening volgens artikel 6.2.2(1).

Coëfficiënt voor hoogte van de doorsnede

$$k = \min\left(1 + \left(\frac{200}{d}\right)^{\frac{1}{2}}; 2\right) = \min\left(1 + \left(\frac{200}{654}\right)^{\frac{1}{2}}; 2\right) = 1.55 \qquad (§6.2.2(1))$$

Geometrische wapeningsverhouding

$$\rho_1 = \min\left(\frac{A_{sl}}{b_w \cdot d}; 0.02\right) = \min\left(\frac{1.12 \cdot 10^{-3}}{0.6 \cdot 0.654}; 0.02\right) = 2.85 \cdot 10^{-3} \qquad (§6.2.2(1))$$

Axiale spanning in de doorsnede

$$\sigma_{cp} = \min\left(\frac{-N_{Ed}}{A_c}; 0.2 \cdot f_{cd}\right) = \min\left(\frac{-50.1}{0.45}; 0.2 \cdot 20\right) = -0.111\ [redacted] \qquad (§6.2.2(1))$$

Andere coëfficiënten

$C_{Rdc} = 0.12$ $v_{min} = 0.371$ [redacted] $k_1 = 0.15$

Berekening van de rekenwaarde afschuifweerstand

$$V_{Rdc} = 10^6 \cdot \left(C_{Rdc} \cdot k \cdot \left(100 \cdot \rho_1 \cdot f_{ck} \right)^{\frac{1}{3}} + k_1 \cdot \sigma_{cp} \right) \cdot b_w \cdot d \qquad (6.2.a)$$

$$= 10^6 \cdot \left(0.12 \cdot 1.55 \cdot \left(100 \cdot 2.85 \cdot 10^{-3} \cdot 30 \right)^{\frac{1}{3}} + 0.15 \cdot -0.111 \right) \cdot 0.6 \cdot 0.654 = 143 \text{ kN}$$

$$V_{Rdcmin} = 10^6 \cdot \left(v_{min} + k_1 \cdot \sigma_{cp} \right) \cdot b_w \cdot d \qquad (6.2.b)$$

$$= 10^6 \cdot \left(0.371 + 0.15 \cdot -0.111 \right) \cdot 0.6 \cdot 0.654 = 139 \text{ kN}$$

$$V_{Rdc} = \max\left(V_{Rdc}; V_{Rdcmin}; 0\right) = \max\left(142996; 139052; 0\right) = 143 \text{ kN}$$

Opm.: Ontwerpweerstand afschuiving van het element zonder de afschuifwapening is berekend volgens artikel 6.2.2(1), omdat de doorsnede is gescheurd in buiging in UGT of de doorsnede is niet belast door normaalkracht en buigende momenten.

Rekenwaarde van de max. dwarskracht welke kan worden verdragen door het element

Sterktereductiefactor voor beton gescheurd in afschuiving - waarde v

$$v = 0.6 \cdot \left(1 - \frac{f_{ck}}{250} \right) = 0.6 \cdot \left(1 - \frac{30}{250} \right) = 0.528 \qquad (6.6N)$$

Sterktereductiefactor voor beton gescheurd in afschuiving - waarde v_1

$$\sigma_{cp} = \min\left(\frac{-N_{Ed}}{A_c}; 0.2 \cdot f_{cd} \right) = \min\left(\frac{-50.1}{0.45}; 0.2 \cdot 20 \right) = -0.111 \text{ [redacted]}$$

$$v_1 = 0.528 \qquad (§6.2.3(3)N1)$$

Coëfficiënt voor de bepaling van de spanning in de drukdiagonaal

$\alpha_{cw} = 1$ (voor niet-voorgespannen element) (§6.2.3(3)N3)

Rekenwaarde van de max. dwarskracht welke kan worden verdragen door het element

$$V_{Rdmax} = \frac{\alpha_{cw} \cdot b_{w1} \cdot z \cdot v_1 \cdot f_{cd}}{\left(\text{cotg}(\theta) + \text{tg}(\theta) \right)} = \frac{1 \cdot 0.6 \cdot 0.605 \cdot 0.528 \cdot 20 \cdot 10^6}{\left(\text{cotg}(40) + \text{tg}(40) \right)} = 1886 \text{ kN} \qquad (6.9)$$

Ontwerpafschuifweerstand van de staaf met afschuifwapening

$V_{Rds} = 0$ kN

Maximale dwarskracht bij het steunpunt (zonder gebruik van factor β)

$$V_{Edmax} = 0.5 \cdot b_{w1} \cdot d \cdot v \cdot f_{cd} = 0.5 \cdot 0.6 \cdot 0.654 \cdot 0.528 \cdot 20 \cdot 10^6 = 2072 \text{ kN} \qquad (6.5)$$

Afschuifweerstand van de staaf

$V_{Rd} = 143$ kN

Dwarskrachtcontrole

Controle V_{Rdmax}

$V_{Ed} = 85.1\ kN \leq V_{Rdmax} + V_{ccd} + V_{td} = 1886\ kN$

Opm.: De controle voldoet voor het verbrijzelen van de drukschoor ($V_{Ed} \leq V_{Rd,max} + V_{td} + V_{ccd}$).

Controle V_{Edmax}

$V_{Ed} = 85.1\ kN \leq V_{Edmax} + V_{ccd} + V_{td} = 2072\ kN$

Opm.: De controle voldoet voor dwarskracht nabij het steunpunt ($V_{Ed} \leq V_{Ed,max} + V_{td} + V_{ccd}$).

Controle V_{Rdc} en V_{Rds}

$V_{Ed} = 85.1\ kN \leq V_{Rdc} = 143\ kN$

Opm.: De controle is geslaagd, dwarskracht wordt gedragen door beton ($V_{Ed} \leq V_{Rdc}$), er is geen afschuifwapening vereist. Enkel minimale afschuifwapening volgens detailleringsregels dient te worden ingevoerd.

Eenh. Controle

$$UC = \frac{V_{Ed}}{V_{Rd}} = \frac{85.1\ kN}{143\ kN} = 0.595$$

Controleer torsie en bereken torsieweerstand

Totale oppervlakte van doorsnede

$A_c = 450000\ mm^2$

Buitenomtrek van de doorsnede

$u_c = 2700\ mm$

De oppervlakte van langswapening voor torsie

$A_{sl} = 1923\ mm^2$

Effectieve wanddikte

$$t_{ef} = \max\left(\frac{A_c}{u_c}; 2 \cdot a_{sl}\right) = \max\left(\frac{450000}{2700}; 2 \cdot 0\right) = 167\ mm \qquad (§6.3.2(1))$$

Omtrek en oppervlakte van de zone binnen de centrale lijn van de effectieve doorsnede

$u_k = 2033\ mm$

$A_k = 252778\ mm^2$

Opm.: Torsieparameters [waarden van A_k en u_k] zijn berekend volgens de automatisch ingestelde methode [Methode = Ingevoerde doorsnede].

Parameters voor afschuif/torsie wapening

Beugels over de lengte van scheurafschuifprojectie $\delta = z*\cot(\Theta) = 724$ mm, interval (-362; 362)

$z = \text{Coeff\_d} \cdot \text{Coeff\_z} \cdot h = 0.9 \cdot 0.9 \cdot 0.75 = 608$ mm $\delta = z \cdot \operatorname{cotg}(\theta) = 0.608 \cdot \operatorname{cotg}(40) = 724$ mm

Invoerparameters

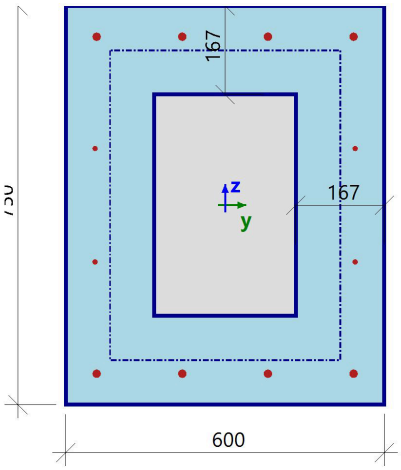
Diameter $\varnothing_{st} = 0$ mm

Hoek van beugels van elementas $\alpha_{st} = 90$ °

Karakteristieke vloeigrens $f_{ywtk} = 0$ [redacted]

Doorsnedeoppervlakte van afschuifwapening

$A_{swt} = 0$ mm^2



Opm.: De oppervlakte van afschuifwapening is nul, beugels worden niet in rekening genomen.

Berekening van torsie weerstanden

Ontwerp torsie scheurmoment

$T_{Rdc} = 2 \cdot f_{ctd} \cdot t_{ef} \cdot A_k = 2 \cdot 1.33 \cdot 167 \cdot 252778 = 112$ kNm

Maximaal ontwerptorsieweerstandsmoment

Sterktereductiefactor voor beton gescheurd in afschuiving - waarde v

$$\nu = 0.6 \cdot \left(1 - \frac{f_{ck}}{250}\right) = 0.6 \cdot \left(1 - \frac{30}{250}\right) = 0.528 \qquad (6.6N)$$

$\nu_1 = 0.528$ (§6.2.3(3)N1)

Coëfficiënt voor de bepaling van de spanning in de drukdiagonaal

$\alpha_{cw} = 1$ (voor niet-voorgespannen element) (§6.2.3(3)N3)

Maximaal ontwerptorsieweerstandsmoment

$$T_{Rdmax} = 2 \cdot \nu \cdot \alpha_{cw} \cdot f_{cd} \cdot A_k \cdot t_{ef} \cdot \cos(\theta) \cdot \sin(\theta)$$
$$= 2 \cdot 0.528 \cdot 1 \cdot 20 \cdot 252778 \cdot 167 \cdot \cos(40) \cdot \sin(40) = 438 \text{ kNm}$$

Torsie weerstandsmoment van de staaf

$T_{Rd} = \min(T_{Rdc}; T_{Rdmax}) = 112$ kNm

Additionele torsiekracht

Ontwerp additionele spanning

$$\sigma_{sd} = \frac{\text{abs}(T_{Ed}) \cdot u_k \cdot \operatorname{cotg}(\theta)}{2 \cdot A_k \cdot A_{sl}} = \frac{\text{abs}(-14.2) \cdot 2033 \cdot \operatorname{cotg}(40)}{2 \cdot 252778 \cdot 1923} = 35.3 \text{ [redacted]} \qquad (6.28)$$

Ontwerp vloeigrens

$$f_{yd} = \frac{f_{yk}}{\gamma_S} = \frac{500}{1.15} = 435 \text{ [redacted]}$$

Ontwerp additionele trekkrachten

$F_{sd} = \sigma_{sd} \cdot A_{sl} = 35.3 \cdot 1923 = 67.9$ kN

Maximale ontwerpkacht

$F_{sdmax} = f_{yd} \cdot A_{sl} = 435 \cdot 1923 = 836$ kN

Torsie controle

Controle T_{Rdmax}

T_{Ed} = 14.2 kNm ≤ T_{Rdmax} = 438 kNm

Opm.: De controle voldoet voor het bezwijken van de drukschoor ($T_{Ed} < T_{Rd,max}$).

Controle T_{Rdc} en T_{Rds}

T_{Ed} = 14.2 kNm < T_{Rdc} = 112 kNm

Opm.: De controle voldoet, torsiemoment kan opgenomen worden door het beton ($T_{Ed} \leq T_{Rdc}$), afschuifwapening is niet nodig. Enkel minimale afschuifwapening volgens detailleringsregels dient te worden ingevoerd.

Controleer F_{sdmax}

F_{sd} = 67.9 kN ≤ F_{sdmax} = 836 kN

Opm.: De controle van additionele trekkracht in langswapening is geslaagd.

Eenh. Controle

$$UC = \max\left(\frac{\text{abs}(T_{Ed})}{T_{Rd}}; \frac{F_{sd}}{F_{sdmax}}\right) = \max\left(\frac{\text{abs}(-14.2\ \text{kNm})}{112\ \text{kNm}}; \frac{67.9\ \text{kN}}{836\ \text{kN}}\right) = 0.126$$

Interactie controle Vy+Vz+T

Interactiecontrole Vy+Vz+T (beton)

Controleer vergelijking $(T_{Ed}/T_{Rdmax})+(V_{Ed}/V_{Rdmax})$

$$\left(\frac{\text{abs}(T_{Ed})}{T_{Rdmax}}\right)+\left(\frac{\text{abs}(V_{Ed})}{V_{Rdmax}}\right)=\left(\frac{\text{abs}(-14.2)}{438}\right)+\left(\frac{\text{abs}(85.1)}{1886}\right)= 0.0775 \leq 1 \quad (6.29)$$

Opm.: Interactie controle $V_y + V_z + T$ for het bezwijken van de drukschoor voldoet.

Controleer vergelijking $(T_{Ed}/T_{Rdc})+(V_{Ed}/V_{Rdc})$

$$\left(\frac{\text{abs}(T_{Ed})}{T_{Rdc}}\right)+\left(\frac{\text{abs}(V_{Ed})}{V_{Rdc}}\right)=\left(\frac{\text{abs}(-14.2)}{112}\right)+\left(\frac{\text{abs}(85.1)}{143}\right)= 0.721 \leq 1 \quad (6.31)$$

Opm.: Interactie controle $V_y + V_z + T$ voor beton voldoet, dwarskrachten en het torsiemoment afgedragen door het beton, geen afschuifwapening is benodigd. Enkel minimale afschuifwapening volgens detailleringsregels dient te worden ingevoerd.

Eenh. Controle

$UC_{int.con}$ = 0.0775

Totale eenheidscontrole van de interactie

$$UC_{int} = \max(UC_{int.con}; UC_{int.shear}) = \max(0.0775; 0) = 0.0775$$

Totale waarde van eenheidscontrole

$$UC = \max(UC_{shear}; UC_{tor}; UC_{int.con}; UC_{int.shear}) = \max(0.595; 0.126; 0.0775; 0) = 0.595$$

Toetsing inleiding krachten in fundering

Projectnaam	Opwaardering KIJ-BVW 380kV	**Rekensheet versie**	3.1
Lijn	KIJ-DIM Ronde Venen	**Datum**	1-2-2026
Subtype deuvels aan randstijl		**Auteur**	[redacted]
Subtype deuvels aan paal	Leka 219	**Eerste interne controle**	[redacted] (RO)
Mastnummer(s)	versterkingen	**Tweede interne controle**	[redacted] (RC)

Samenvatting	UC	Check	F_{Rd}	
Maatgevende unity check	**1,00**	OK		
Max UC randstijldeuvels beton	n.v.t.	OK	D:0 T:0	kN
Max UC paaldeuvels beton	0,87	OK	1683	kN
Max UC lassen	0,74	OK	1990	kN
Max UC staalciteria	1,00	OK	1470	kN
Trekkracht uit randstijl	$F_{Ed,t}$		*1469*	kN
Drukkracht uit randstijl	$F_{Ed,c}$		*1469*	kN
Spanningsbegrenzing		$=0,7f_{cd}$	Nee	
Toetsing incl. buiging			Nee	
Toetsing incl. las reductie		$=f_w/1,2$	Ja	

Zie voor de maximaal optredende paalkrachten het constructief rapport

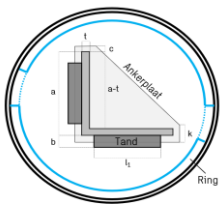
Materialen				
Betonkwaliteit	-		C30/37	
Beton omsloten	-		Ja	
Karakteristieke druksterkte	f_{ck}		30	N/mm^2
Verhogingsfactor druksterkte	C_a	$=min[\sqrt{(A_{c2}/A_{f1})};2,5]$	1,76	-
Verhoogde druksterkte	f_{jk}	$=f_{ck}C_a$	52,81	N/mm^2
Betondruksterkte	f_{cd}	$=f_{jk}/\gamma_c$	35,21	N/mm^2
Staalsoort 1: funderingspaal	-		S235	N/mm^2
Treksterkte staalsoort 1	$f_{u,1}$		360	N/mm^2
Vloeispanning staalsoort 1	$f_{y,1}$		235	N/mm^2
Staalsoort 2: randstijl	-		S235	N/mm^2
Treksterkte staalsoort 2	$f_{u,2}$		360	N/mm^2
Vloeispanning staalsoort 2	$f_{y,2}$		235	N/mm^2
Staalsoort 3: deuvels	-		S235	N/mm^2
Treksterkte staalsoort 3	$f_{u,3}$		360	N/mm^2
Vloeispanning staalsoort 3	$f_{y,3}$		235	N/mm^2
Lassterkte deuvels paal	$f_{w,Rd}$	$=f_{u1,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Lassterkte deuvels randstijl	$f_{w,Rd}$	$=f_{u2,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Partiële factor beton	γ_c		1,50	-
Partiële factor staal	γ_s		1,25	-
Corrolatiefactor lassen	β_w		0,80	-
Reductiefactor lassen	w_r		1,2	-

Hoekprofiel randstijl			0x0x0	
Zijde	L_w		0	mm
Dikte	t_w		0	mm
Lengte verankering	L_e		800	mm

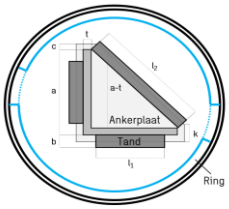
Geometrie				
Hoofdtype deuvels (zie figuren onderaan)			6	
Aantal palen per randstijl*	n_p		1	#
Type paal*			Buispaal	
Diameter paal uitwendig (indien buispaal)	$ø_{p,out}$		219,1	mm
Wanddikte paal	t_p		10,0	mm
Roestreductie paalwand	$t_{p,red}$		0	mm
Lengte paaldeuvel als % van omtrek paal	P_b		100,00%	%
Aantal lagen deuvels aan paal	$n_{b,p}$		3	#
Seperatie paaldeuvels	s_1		200	mm
Breedte deuvels/ lengte stift aan paal*	b_1		30	mm
Dikte deuvels aan fundatiepaal*	h_1		50	mm
Diameter paal inwendig (indien buispaal)	$ø_{p,in}$	$=ø_{p,out}-2t_p$	199,1	mm
Inwendige omtrek paal o.b.v. paaldiameter	P_{in}	$=[0;ø_{p,in}\pi]$	625	mm
Laslengte paaldeuvel	L_b	$=P_{in}P_b$	625	mm
Oppervlakte deuvels per laag aan paal**	$A_{b,1,i}$	$=[P_b(ø_{p,in}-b_1)\pi rb_1;L_bb_1]$	15937	mm2
Deuvels aan buitenzijde randstijl	n_{out}		0	#
Deuvels aan binnenzijde randstijl	n_{in}		0	#
Seperatie randstijldeuvels	s_2		200	mm
(las)Lengte deuvel buitenzijde*	L_{out}		0	mm
Uitkragende lengte deuvel buitenzijde	e		0	mm
(las)Lengte deuvel binnenzijde*	L_{in}		0	mm
Breedte deuvels aan randstijl	b_2		0	mm
Dikte deuvels aan randstijl	h_2		0	mm
Diameter stiftdeuvel	$ø_b$		0	mm
Oppervlakte enkele deuvel buitenzijde	$A_{f1,out,i}$	$=[L_{out}b;L_{out}ø_b]$	0	mm^2
Oppervlakte enkele deuvel binnenzijde	$A_{f1,in,i}$	$=[L_{in}b;L_{in}ø_b]$	0	mm^2
Las ankerplaat|randstijl	a_1		0	mm
Las deuvel|paal	a_2		4	mm
Las deuvel|buitenzijde randstijl	a_3		0	mm
Las deuvel|binnenzijde randstijl	a_4		0	mm
Lengte rugplaat aan ankerplaat	L_{rp}		0	mm
Dikte ankerplaat/rugplaat	t_r		0	mm
n-zijden buitenrand ankerplaat	n_c		2	#
Breedte buitenrand ankerplaat	c		0	mm
Rechte zijde ankerplaat	k_{pl}		0	mm
Aanvullende reductie omvang ankerplaat	$A_{p,red2}$		0	mm^2
(Las)Lengte ankerplaat binnenzijde	L_{lp}	$=[4;2](L_w-t_w-a_1\sqrt{2})$	0	mm
Effectief oppervlakte ankerplaat druk	$A_{p,c}$	$=A_{p,r}-A_{p,red1,2}$	0	mm^2
Effectief oppervlakte ankerplaat trek	$A_{p,t}$	$=A_{p,r}-A_{p,red1,2}-A_s$	0	mm^2

Notities

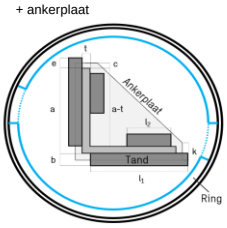
Hoofdtype 1
Tanddeuvels aan buitenzijde + ankerplaat



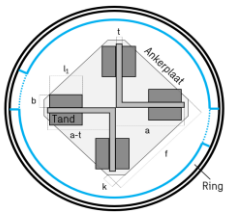
Hoofdtype 2
Tanddeuvels aan buitenzijde +
knag aan rand van de flensen + ankerplaat



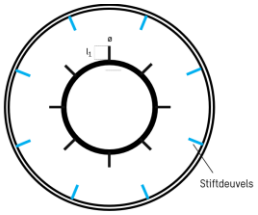
Hoofdtype 3
Tanddeuvels aan buitenzijde en binnenzijde
+ ankerplaat



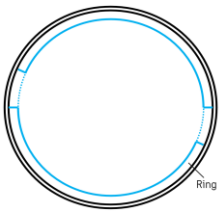
Hoofdtype 4
Tanddeuvels dubbele randstaaf + ankerplaat



Hoofdtype 5
Stiftdeuvels aan ronde buisprofiel, geen ankerplaat

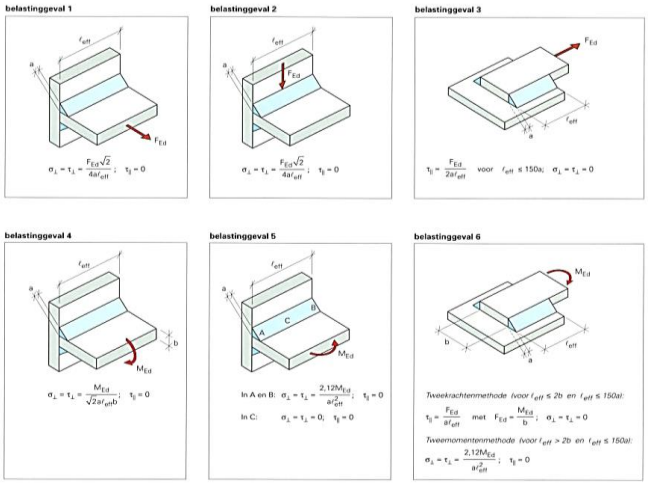


Hoofdtype 6
Enkel toetsing van knaggen aan
funderingspaal + doorsnede paal



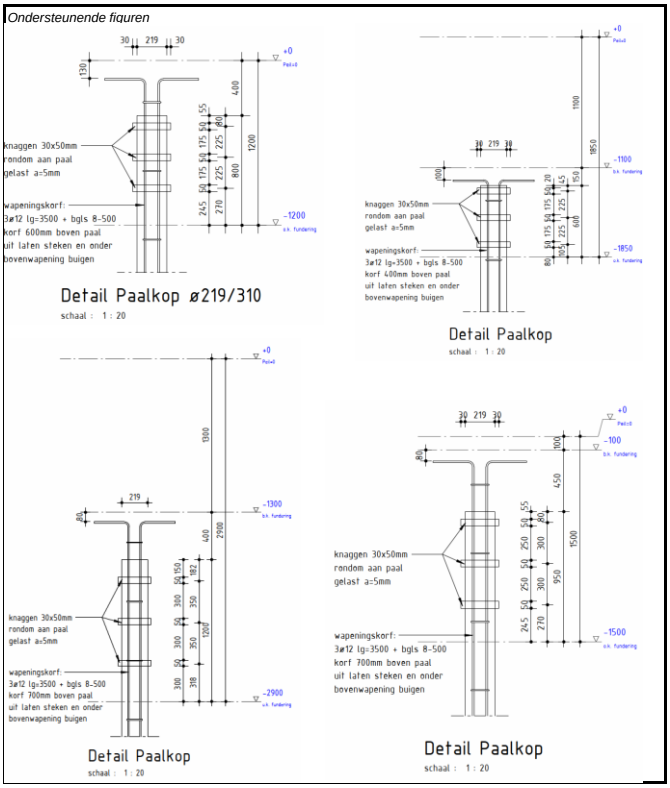
Toetsing capaciteit randstijldeuvels				
Capaciteit ankerplaat bij druk	$F_{Rd,c,p}$	$=A_{p,c}f_{cd}$	0,0	kN
Capaciteit ankerplaat bij trek	$F_{Rd,t,p}$	$=A_{p,t}f_{cd}$	0,0	kN
Capaciteit buitendeuvels	$F_{Rd,b,out}$	$=A_{t1,out,i}f_{cd}n_{out}$	0,0	kN
Capaciteit binnendeuvels	$F_{Rd,b,in}$	$=A_{t1,in,i}f_{cd}n_{in}$	0,0	kN
Capaciteit totaal bij druk	$F_{Rd,c}$	$=F_{Rd,c,p}+F_{Rd,b+o/i}$	0,0	kN
Capaciteit totaal bij trek	$F_{Rd,t}$	$=F_{Rd,t,p}+F_{Rd,b+o/i}$	0,0	kN
Betondrukspanning deuvels bij druk	$\sigma_{c,Ed,c}$	$=F_{ed,c}/(A_{p,c}+A_{t,o/i})$	0,00	N/mm^2
Betondrukspanning bij deuvels bij trek	$\sigma_{c,Ed,t}$	$=F_{ed,t}/(A_{p,t}+A_{t,o/i})$	0,00	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,c}$		0	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,t}$		0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	n.v.t.	OK
UC (betoncriterium)		$=[F_{Ed,c}/F_{Rd,c};F_{Ed,t}/F_{Rd,t}]$	n.v.t.	OK
Toetsing capaciteit paaldeuvels				
Capaciteit deuvels enkele paal	$F_{Rd,b}$	$=A_{b,i}*n_{b,p}*f_{cd}$	1683,3	kN
Betondrukspanning bij deuvels	$\sigma_{c,Ed+max}$	$=F_{Ed}/(A_{b,i}*n_b)$	30,7	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed}$		0,0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	0,00	OK
UC (betoncriterium)		$=F_{Ed}/(F_{Rd,b}+F_{Rd,b,c/st})$	0,87	OK
Toetsing lassen				
Type las randstijldeuvels			Dubbelzijdig	
Type las paaldeuvels			Dubbelzijdig	
Lasspanning ankerplaat	$\sigma_{vw1,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning buitendeuvels	$\sigma_{vw2,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning binnendeuvels	$\sigma_{vw3,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning paaldeuvels	$\sigma_{vw4,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	221	N/mm^2
Maatgevende UC		$=\sigma_{vw,Ed}/f_{w,Rd}$	0,74	OK
Toetsing paalcapaciteit				
Effectieve doorsnede paal	$A_{p,eff}$	$=P_{in}(t_p-t_{p,red})$	6255	mm^2
Maximale spanning in paal	$\sigma_{s,Ed}$	$=F_{Ed}/(A_{p,eff}n_p)$	234,9	N/mm^2
UC doorsnede paal		$=\sigma_{s,Ed}/f_{y,1}$	1,00	OK

Lasspanningen NEN-EN 1993-1-8 p. 4.5.3						
Onderdeel	Ankerplaat	Buitendeuvels	Binnendeuvels (T3)	Binnendeuvels (T2)	Paaldeuvels	
Som σ_T	0,0	0,0	0,0	0,0	110,7	N/mm^2
Som τ_T	0,0	0,0	0,0	0,0	110,7	N/mm^2
Som $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 1	Ja	Nee	Nee	Nee	Nee	
M1 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 2	Nee	Ja	Ja	Nee	Ja	
M2 σ_T	0,0	0,0	0,0	0,0	69,2	N/mm^2
M2 τ_T	0,0	0,0	0,0	0,0	69,2	N/mm^2
M2 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 3	Nee	Nee	Nee	Ja	Nee	
M3 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 4	Nee	Ja	Ja	Nee	Ja	
M4 σ_T	0,0	0,0	0,0	0,0	41,5	N/mm^2
M4 τ_T	0,0	0,0	0,0	0,0	41,5	N/mm^2
M4 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 5	Nee	Nee	Nee	Nee	Nee	
M5 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 6	Nee	Nee	Nee	Nee	Nee	
M6 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2



Achterliggende logica				
Afschuifprojectievlak NEN-EN1994-2 F1.1				
Oppervlakte projectie afschuifweerstand	A_{f2}	$=A_{f2,out}+A_{f2,in}$	3200	mm^2
Minimale h.o.h. seperatie deuvels	s_{min}	$=[250;2*t_w]$	n.v.t.	mm
Breedte projectievlak buitendeuvels	$b_{f2,out}$	$=b_2+s_2/5$	40	mm
Lengte projectievlak buitendeuvels	$L_{f2,out}$	$=L_{out}+2s_2/5$	80	mm
Oppervlak projectie buitendeuvels	$A_{f2,out}$	$=b_{f2,out}L_{f2,out}$	3200	mm^2
Breedte projectievlak binnendeuvels	$b_{f2,in}$	$=b_2+s_2/5$	0	mm
Lengte projectievlak binnendeuvels	$L_{f2,in}$	$=L_{in}+2s_2/5$	0	mm
Oppervlak projectie binnendeuvels	$A_{f2,in}$	$=b_{f2,in}L_{f2,in}$	0	mm^2
Breedte projectievlak paaldeuvels	$b_{f2,p}$	$=\min[b_1;b_{eff,b}]+s_1/5$	70	mm
Lengte projectievlak paaldeuvels	$L_{f2,p}$	$=L_b+2s_1/5$	705	mm
Oppervlak projectie paaldeuvels	$A_{f2,p}$	$=b_{f2,p}L_{f2,p}$	49384	mm^2
Effectieve oppervlakte ankerplaat NEN-EN1993-1-8 p. 4.10				
Oppervlakte ankerplaat excl. reducties	$A_{p,i}$	$=(L_w+cn_c)^2-0,5((w+cn_c-k)^2$	0	mm^2
Reductie ineffectief oppervlak ankerplaat	$A_{p,red1}$	$=0,5b_{ineff}^2$	0	mm^2
Oppervlakte staalprofiel	A_s	$=(2L_w-t_w)t_w$	0	mm^2
Effectieve breedte ankerplaat	b_{eff}	$=t_w+2a_1\sqrt{2}+7kt_f$	0,0	mm
Factor meewerkende breedte	k	$=\min[(t_f/t_w);1,0]$	0,00	-
Ineffectieve breedte	b_{ineff}	$=L_w+cn_c-(2c+t_w+b_{eff})+k_{pl}$	0,0	mm
Momentarm ankerplaat (voor toetsing incl. buiging)				
Momentarm ankerplaat	a_{fp}	$=[\sqrt{(2(z_1-z_2)^2)};0]$	0,0	mm
Zwaartepunt ankerplaat t.o.v. onderhoek	z_1	$=\sum A_i*z_i/A_T$	0,0	mm
Zwaartepunt randstijl t.o.v. onderhoek	z_2	$=\sum A_i*z_i/A_T$	0,0	mm
Staalspanning (voor toetsing incl. buiging)				
Weerstandsmoment ankerplaat	W_1	$=1/6*2(L_w-t_w)t_f^2$	0	mm^3
Weerstandsmoment buitendeuvels	W_2	$=1/6(L_{out}-e)h_2^2$	0	mm^3
Weerstandsmoment binnendeuvels	W_3	$=1/6L_{in}h_2^2$	0	mm^3
Weerstandsmoment paaldeuvels	W_4	$=1/6L_ih_1^2$	260621	mm^3
Staalspanning ankerplaat (druk)	$\sigma_{s,Ed,c}$	$=A_{p,c}\sigma_{c+Ed,c}a_{fp}/W_1$	0	N/mm^2
Staalspanning buitendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,out,c}\sigma_{c+Ed,c}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,in,c}\sigma_{c+Ed,c}(b_2/2)/W_3$	0	N/mm^2
Staalspanning paaldeuvels (max)	$\sigma_{s,Ed,c,t}$	$=A_t\sigma_{c+Ed,max}(b_1/2)/W_4$	28	N/mm^2
Staalspanning ankerplaat (trek)	$\sigma_{s,Ed,t}$	$=A_{p,t}\sigma_{c+Ed,t}a_f/W_1$	0	N/mm^2
Staalspanning buitendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,out,c}\sigma_{c+Ed,t}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,in,c}\sigma_{c+Ed,t}(b_2/2)/W_3$	0	N/mm^2
Optionele meewerkende betondoorsnede paal				
Enkel van toepassing als krachten uit randstijl via schachtwrijving naar de paalwand overbracht kunnen worden.				
Meewerkende wapeningstaven	n_{st}		0	#
Staafdiameter	$ø_{st}$		0	mm
Materiaalkwaliteit staaf	-		-	-
Factor effectiviteit betondoorsnede	α		0,00	-
Vloeigrens	f_{yd}		0	N/mm^2
Trekcapaciteit wapening	$F_{Rd,b,st}$	$=0,25n_{st}ø_{st}^2\pi F_{yd}$	0	kN
Betondoorsnede paal	$A_{c,p}$	$=\alpha*0,25P_{in}^2/\pi$	0	mm^2
Druksterkte betondoorsnede	$F_{Rd,b,c}$	$=A_{c,p}f_{ck}/\gamma_c$	0	kN
Gereduceerde breedte als knaggen geprofileerd zijn volgens NEN-EN1993-1-8 p. 4.10				
Flensdikte aangelast profiel	$t_{f,b}$		0	mm
Factor meewerkende breedte (k)	k_b	$=\min[(t_{f,b}/t_{f,b});1,0]$	0,00	-
Effectieve breedte knag	$b_{eff,b}$	$=0,5(t_{f,b}+2a_2\sqrt{2}+7k_bt_{f,b})$	0	mm

Ondersteunende figuren



Toetsing inleiding krachten in fundering

Projectnaam	Opwaardering KIJ-BVW 380kV	**Rekensheet versie**	3.1
Lijn	KIJ-DIM Ronde Venen	**Datum**	1-2-2026
Subtype deuvels aan randstijl	O	**Auteur**	[redacted]
Subtype deuvels aan paal	Leka 273	**Eerste interne controle**	[redacted] (RO)
Mastnummer(s)	versterkingen	**Tweede interne controle**	[redacted] (RC)

Samenvatting	UC	Check	F_{Rd}	
Maatgevende unity check	**1,00**	OK		
Max UC randstijldeuvels beton	n.v.t.	OK	D:0 T:0	kN
Max UC paaldeuvels beton	0,87	OK	2153	kN
Max UC lassen	0,74	OK	2529	kN
Max UC staalciteria	1,00	OK	1868	kN
Trekkracht uit randstijl	$F_{Ed,t}$		*1867*	kN
Drukkracht uit randstijl	$F_{Ed,c}$		*1867*	kN
Spanningsbegrenzing		$=0,7f_{cd}$	Nee	
Toetsing incl. buiging			Nee	
Toetsing incl. las reductie		$=f_w/1,2$	Ja	

Zie voor de maximaal optredende paalkrachten het constructief rapport

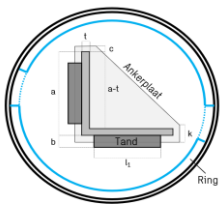
Materialen				
Betonkwaliteit	-		C30/37	
Beton omsloten	-		Ja	
Karakteristieke druksterkte	f_{ck}		30	N/mm^2
Verhogingsfactor druksterkte	C_a	$=min[\sqrt{(A_{c2}/A_{f1})};2,5]$	1,71	-
Verhoogde druksterkte	f_{jk}	$=f_{ck}C_a$	51,21	N/mm^2
Betondruksterkte	f_{cd}	$=f_{jk}/\gamma_c$	34,14	N/mm^2
Staalsoort 1: funderingspaal	-		S235	N/mm^2
Treksterkte staalsoort 1	$f_{u,1}$		360	N/mm^2
Vloeispanning staalsoort 1	$f_{y,1}$		235	N/mm^2
Staalsoort 2: randstijl	-		S235	N/mm^2
Treksterkte staalsoort 2	$f_{u,2}$		360	N/mm^2
Vloeispanning staalsoort 2	$f_{y,2}$		235	N/mm^2
Staalsoort 3: deuvels	-		S235	N/mm^2
Treksterkte staalsoort 3	$f_{u,3}$		360	N/mm^2
Vloeispanning staalsoort 3	$f_{y,3}$		235	N/mm^2
Lassterkte deuvels paal	$f_{w,Rd}$	$=f_{u1,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Lassterkte deuvels randstijl	$f_{w,Rd}$	$=f_{u2,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Partiële factor beton	γ_c		1,50	-
Partiële factor staal	γ_s		1,25	-
Corrolatiefactor lassen	β_w		0,80	-
Reductiefactor lassen	w_r		1,2	-

Hoekprofiel randstijl			0x0x0	
Zijde	L_w		0	mm
Dikte	t_w		0	mm
Lengte verankering	L_e		800	mm

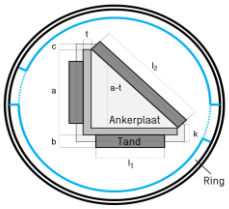
Geometrie				
Hoofdtype deuvels (zie figuren onderaan)			6	
Aantal palen per randstijl*	n_p		1	#
Type paal*			Buispaal	
Diameter paal uitwendig (indien buispaal)	$ø_{p,out}$		273,0	mm
Wanddikte paal	t_p		10,0	mm
Roestreductie paalwand	$t_{p,red}$		0	mm
Lengte paaldeuvel als % van omtrek paal	P_b		100,00%	%
Aantal lagen deuvels aan paal	$n_{b,p}$		3	#
Seperatie paaldeuvels	s_1		200	mm
Breedte deuvels/ lengte stift aan paal*	b_1		30	mm
Dikte deuvels aan fundatiepaal*	h_1		50	mm
Diameter paal inwendig (indien buispaal)	$ø_{p,in}$	$=ø_{p,out}-2t_p$	253,0	mm
Inwendige omtrek paal o.b.v. paaldiameter	P_{in}	$=[0;ø_{p,in}\pi]$	795	mm
Laslengte paaldeuvel	L_b	$=P_{in}P_b$	795	mm
Oppervlakte deuvels per laag aan paal**	$A_{b,1,i}$	$=[P_b(ø_{p,in}-b_1)\pi b_1;L_b b_1]$	21017	mm2
Deuvels aan buitenzijde randstijl	n_{out}		0	#
Deuvels aan binnenzijde randstijl	n_{in}		0	#
Seperatie randstijldeuvels	s_2		200	mm
(las)Lengte deuvel buitenzijde*	L_{out}		0	mm
Uitkragende lengte deuvel buitenzijde	e		0	mm
(las)Lengte deuvel binnenzijde*	L_{in}		0	mm
Breedte deuvels aan randstijl	b_2		0	mm
Dikte deuvels aan randstijl	h_2		0	mm
Diameter stiftdeuvel	$ø_b$		0	mm
Oppervlakte enkele deuvel buitenzijde	$A_{f1,out,i}$	$=[L_{out}b;L_{out}ø_b]$	0	mm^2
Oppervlakte enkele deuvel binnenzijde	$A_{f1,in,i}$	$=[L_{in}b;L_{in}ø_b]$	0	mm^2
Las ankerplaat|randstijl	a_1		0	mm
Las deuvel|paal	a_2		4	mm
Las deuvel|buitenzijde randstijl	a_3		0	mm
Las deuvel|binnenzijde randstijl	a_4		0	mm
Lengte rugplaat aan ankerplaat	L_{rp}		0	mm
Dikte ankerplaat/rugplaat	t_r		0	mm
n-zijden buitenrand ankerplaat	n_c		2	#
Breedte buitenrand ankerplaat	c		0	mm
Rechte zijde ankerplaat	k_{pl}		0	mm
Aanvullende reductie omvang ankerplaat	$A_{p,red2}$		0	mm^2
(Las)Lengte ankerplaat binnenzijde	L_{fp}	$=[4;2](L_w-t_w-a_1\sqrt{2})$	0	mm
Effectief oppervlakte ankerplaat druk	$A_{p,c}$	$=A_{p,r}-A_{p,red1,2}$	0	mm^2
Effectief oppervlakte ankerplaat trek	$A_{p,t}$	$=A_{p,r}-A_{p,red1,2}-A_s$	0	mm^2

Notities

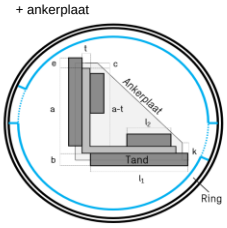
Hoofdtype 1
Tanddeuvels aan buitenzijde + ankerplaat



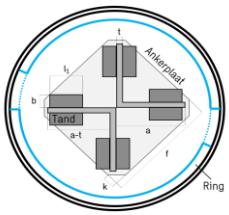
Hoofdtype 2
Tanddeuvels aan buitenzijde +
knag aan rand van de flensen + ankerplaat



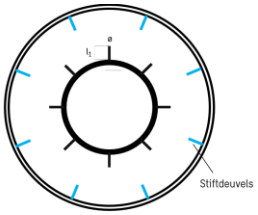
Hoofdtype 3
Tanddeuvels aan buitenzijde en binnenzijde
+ ankerplaat



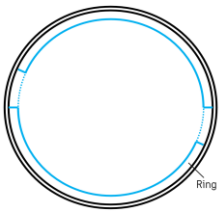
Hoofdtype 4
Tanddeuvels dubbele randstaaf + ankerplaat



Hoofdtype 5
Stiftdeuvels aan ronde buisprofiel, geen ankerplaat



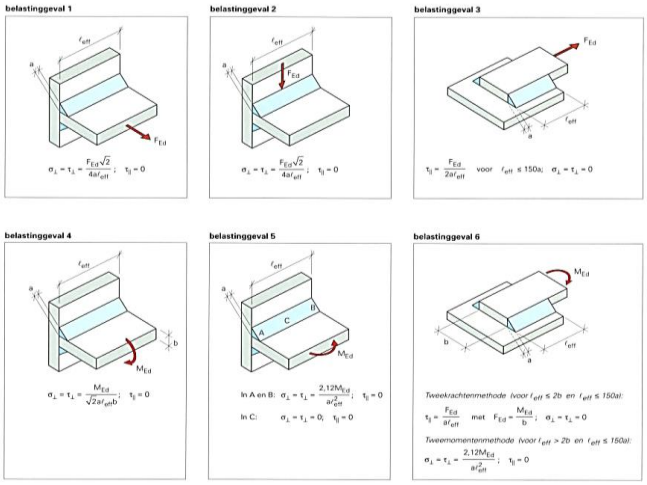
Hoofdtype 6
Enkel toetsing van knaggen aan
funderingspaal + doorsnede paal



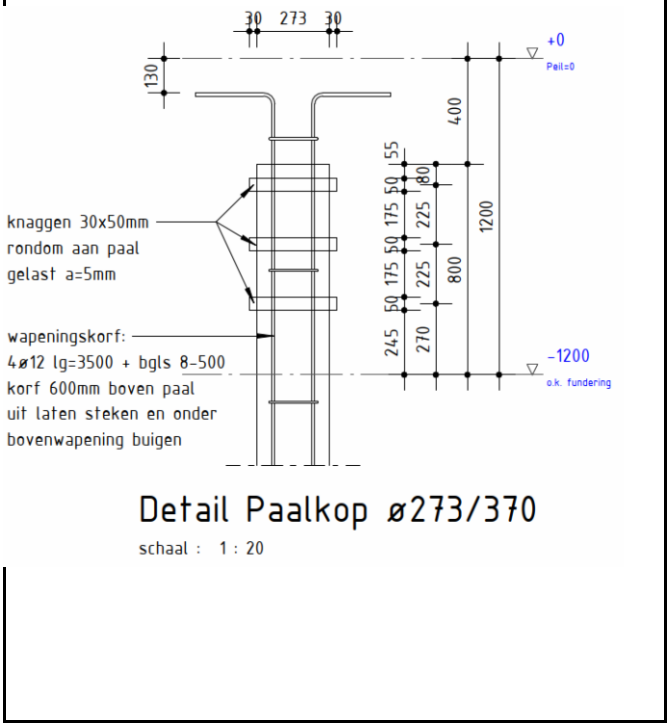
Toetsing capaciteit randstijldeuvels				
Capaciteit ankerplaat bij druk	$F_{Rd,c,p}$	$=A_{p,c}f_{cd}$	0,0	kN
Capaciteit ankerplaat bij trek	$F_{Rd,t,p}$	$=A_{p,t}f_{cd}$	0,0	kN
Capaciteit buitendeuvels	$F_{Rd,b,out}$	$=A_{t1,out,i}f_{cd}n_{out}$	0,0	kN
Capaciteit binnendeuvels	$F_{Rd,b,in}$	$=A_{t1,in,i}f_{cd}n_{in}$	0,0	kN
Capaciteit totaal bij druk	$F_{Rd,c}$	$=F_{Rd,c,p}+F_{Rd,b+o/i}$	0,0	kN
Capaciteit totaal bij trek	$F_{Rd,t}$	$=F_{Rd,t,p}+F_{Rd,b+o/i}$	0,0	kN
Betondrukspanning deuvels bij druk	$\sigma_{c,Ed,c}$	$=F_{ed,c}/(A_{p,c}+A_{t,o/i})$	0,00	N/mm^2
Betondrukspanning bij deuvels bij trek	$\sigma_{c,Ed,t}$	$=F_{ed,t}/(A_{p,t}+A_{t,o/i})$	0,00	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,c}$		0	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,t}$		0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	n.v.t.	OK
UC (betoncriterium)		$=[F_{Ed,c}/F_{Rd,c};F_{Ed,t}/F_{Rd,t}]$	n.v.t.	OK
Toetsing capaciteit paaldeuvels				
Capaciteit deuvels enkele paal	$F_{Rd,b}$	$=A_{b,i}*n_{b,p}*f_{cd}$	2152,5	kN
Betondrukspanning bij deuvels	$\sigma_{c,Ed+max}$	$=F_{Ed}/(A_{b,i}*n_b)$	29,6	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed}$		0,0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	0,00	OK
UC (betoncriterium)		$=F_{Ed}/(F_{Rd,b}+F_{Rd,b,c/st})$	0,87	OK
Toetsing lassen				
Type las randstijldeuvels			Dubbelzijdig	
Type las paaldeuvels			Dubbelzijdig	
Lasspanning ankerplaat	$\sigma_{vw1,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning buitendeuvels	$\sigma_{vw2,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning binnendeuvels	$\sigma_{vw3,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning paaldeuvels	$\sigma_{vw4,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	221	N/mm^2
Maatgevende UC		$=\sigma_{vw,Ed}/f_{w,Rd}$	0,74	OK
Toetsing paalcapaciteit				
Effectieve doorsnede paal	$A_{p,eff}$	$=P_{in}(t_p-t_{p,red})$	7948	mm^2
Maximale spanning in paal	$\sigma_{s,Ed}$	$=F_{Ed}/(A_{p,eff}n_p)$	234,9	N/mm^2
UC doorsnede paal		$=\sigma_{s,Ed}/f_{y,1}$	1,00	OK

Lasspanningen NEN-EN 1993-1-8 p. 4.5.3						
Onderdeel	Ankerplaat	Buitendeuvels	Binnendeuvels (T3)	Binnendeuvels (T2)	Paaldeuvels	
Som σ_T	0,0	0,0	0,0	0,0	110,7	N/mm^2
Som τ_T	0,0	0,0	0,0	0,0	110,7	N/mm^2
Som $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 1	Ja	Nee	Nee	Nee	Nee	
M1 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 2	Nee	Ja	Ja	Nee	Ja	
M2 σ_T	0,0	0,0	0,0	0,0	69,2	N/mm^2
M2 τ_T	0,0	0,0	0,0	0,0	69,2	N/mm^2
M2 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 3	Nee	Nee	Nee	Ja	Nee	
M3 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 4	Nee	Ja	Ja	Nee	Ja	
M4 σ_T	0,0	0,0	0,0	0,0	41,5	N/mm^2
M4 τ_T	0,0	0,0	0,0	0,0	41,5	N/mm^2
M4 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 5	Nee	Nee	Nee	Nee	Nee	
M5 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 6	Nee	Nee	Nee	Nee	Nee	
M6 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2

Achterliggende logica				
Afschuifprojectievlak NEN-EN1994-2 F1.1				
Oppervlakte projectie afschuifweerstand	A_{f2}	$=A_{f2,out}+A_{f2,in}$	3200	mm^2
Minimale h.o.h. seperatie deuvels	s_{min}	$=[250;2*t_w]$	n.v.t.	mm
Breedte projectievlak buitendeuvels	$b_{f2,out}$	$=b_2+s_2/5$	40	mm
Lengte projectievlak buitendeuvels	$L_{f2,out}$	$=L_{out}+2s_2/5$	80	mm
Oppervlak projectie buitendeuvels	$A_{f2,out}$	$=b_{f2,out}L_{f2,out}$	3200	mm^2
Breedte projectievlak binnendeuvels	$b_{f2,in}$	$=b_2+s_2/5$	0	mm
Lengte projectievlak binnendeuvels	$L_{f2,in}$	$=L_{in}+2s_2/5$	0	mm
Oppervlak projectie binnendeuvels	$A_{f2,in}$	$=b_{f2,in}L_{f2,in}$	0	mm^2
Breedte projectievlak paaldeuvels	$b_{f2,p}$	$=\min[b_1;b_{eff,b}]+s_1/5$	70	mm
Lengte projectievlak paaldeuvels	$L_{f2,p}$	$=L_b+2s_1/5$	875	mm
Oppervlak projectie paaldeuvels	$A_{f2,p}$	$=b_{f2,p}L_{f2,p}$	61238	mm^2
Effectieve oppervlakte ankerplaat NEN-EN1993-1-8 p. 4.10				
Oppervlakte ankerplaat excl. reducties	$A_{p,i}$	$=(L_w+cn_c)^2-0,5((w+cn_c-k)^2$	0	mm^2
Reductie ineffectief oppervlak ankerplaat	$A_{p,red1}$	$=0,5b_{ineff}^2$	0	mm^2
Oppervlakte staalprofiel	A_s	$=(2L_w-t_w)t_w$	0	mm^2
Effectieve breedte ankerplaat	b_{eff}	$=t_w+2a_1\sqrt{2}+7kt_f$	0,0	mm
Factor meewerkende breedte	k	$=\min[(t_f/t_w);1,0]$	0,00	-
Ineffectieve breedte	b_{ineff}	$=L_w+cn_c-(2c+t_w+b_{eff})+k_{pl}$	0,0	mm
Momentarm ankerplaat (voor toetsing incl. buiging)				
Momentarm ankerplaat	a_{fp}	$=[\sqrt{(2(z_1-z_2)^2)};0]$	0,0	mm
Zwaartepunt ankerplaat t.o.v. onderhoek	z_1	$=\sum A_i*z_i/A_T$	0,0	mm
Zwaartepunt randstijl t.o.v. onderhoek	z_2	$=\sum A_i*z_i/A_T$	0,0	mm
Staalspanning (voor toetsing incl. buiging)				
Weerstandsmoment ankerplaat	W_1	$=1/6*2(L_w-t_w)t_f^2$	0	mm^3
Weerstandsmoment buitendeuvels	W_2	$=1/6(L_{out}-e)h_2^2$	0	mm^3
Weerstandsmoment binnendeuvels	W_3	$=1/6L_{in}h_2^2$	0	mm^3
Weerstandsmoment paaldeuvels	W_4	$=1/6L_ih_1^2$	331176	mm^3
Staalspanning ankerplaat (druk)	$\sigma_{s,Ed,c}$	$=A_{p,c}\sigma_{c-Ed,c}a_{fp}/W_1$	0	N/mm^2
Staalspanning buitendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,out,c}\sigma_{c-Ed,c}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,in,c}\sigma_{c-Ed,c}(b_2/2)/W_3$	0	N/mm^2
Staalspanning paaldeuvels (max)	$\sigma_{s,Ed,c,t}$	$=A_i\sigma_{c-Ed,max}(b_1/2)/W_4$	28	N/mm^2
Staalspanning ankerplaat (trek)	$\sigma_{s,Ed,t}$	$=A_{p,t}\sigma_{c-Ed,t}a_f/W_1$	0	N/mm^2
Staalspanning buitendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,out,c}\sigma_{c-Ed,t}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,in,c}\sigma_{c-Ed,t}(b_2/2)/W_3$	0	N/mm^2
Optionele meewerkende betondoorsnede paal				
Enkel van toepassing als krachten uit randstijl via schachtwrijving naar de paalwand overbracht kunnen worden.				
Meewerkende wapeningstaven	n_{st}		0	#
Staafdiameter	$ø_{st}$		0	mm
Materiaalkwaliteit staaf	-		-	-
Factor effectiviteit betondoorsnede	α		0,00	-
Vloeigrens	f_{yd}		0	N/mm^2
Trekcapaciteit wapening	$F_{Rd,b,st}$	$=0,25n_{st}ø_{st}^2\pi F_{yd}$	0	kN
Betondoorsnede paal	$A_{c,p}$	$=\alpha*0,25P_{in}^2/\pi$	0	mm^2
Druksterkte betondoorsnede	$F_{Rd,b,c}$	$=A_{c,p}f_{ck}/\gamma_c$	0	kN
Gereduceerde breedte als knaggen geprofileerd zijn volgens NEN-EN1993-1-8 p. 4.10				
Flensdikte aangelast profiel	$t_{f,b}$		0	mm
Factor meewerkende breedte (k)	k_b	$=\min[(t_{f,b}/t_{f,b});1,0]$	0,00	-
Effectieve breedte knag	$b_{eff,b}$	$=0,5(t_{f,b}+2a_2\sqrt{2}+7k_bt_{f,b})$	0	mm



Ondersteunende figuren



Toetsing inleiding krachten in fundering

Projectnaam	Opwaardering KIJ-BVW 380kV	**Rekensheet versie**	3.1
Lijn	KIJ-DIM Ronde Venen	**Datum**	1-2-2026
Subtype deuvels aan randstijl	O	**Auteur**	[redacted]
Subtype deuvels aan paal	Leka 324	**Eerste interne controle**	[redacted] (RO)
Mastnummer(s)	versterkingen	**Tweede interne controle**	[redacted] (RC)

Samenvatting	UC	Check	F_{Rd}	
Maatgevende unity check	**1,00**	OK		
Max UC randstijldeuvels beton	n.v.t.	OK	D:0 T:0	kN
Max UC paaldeuvels beton	0,86	OK	2594	kN
Max UC lassen	0,74	OK	3038	kN
Max UC staalciteria	1,00	OK	2244	kN
Trekkracht uit randstijl	$F_{Ed,t}$		*2234*	kN
Drukkracht uit randstijl	$F_{Ed,c}$		*2234*	kN
Spanningsbegrenzing		$=0,7f_{cd}$	Nee	
Toetsing incl. buiging			Nee	
Toetsing incl. las reductie		$=f_w/1,2$	Ja	

Zie voor de maximaal optredende paalkrachten het constructief rapport

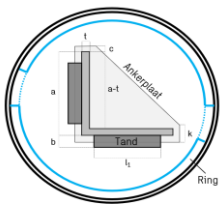
Materialen				
Betonkwaliteit	-		C30/37	
Beton omsloten	-		Ja	
Karakteristieke druksterkte	f_{ck}		30	N/mm^2
Verhogingsfactor druksterkte	C_a	$=min[\sqrt{(A_{c2}/A_{f1})};2,5]$	1,68	-
Verhoogde druksterkte	f_{jk}	$=f_{ck}C_a$	50,25	N/mm^2
Betondruksterkte	f_{cd}	$=f_{jk}/\gamma_c$	33,50	N/mm^2
Staalsoort 1: funderingspaal	-		S235	N/mm^2
Treksterkte staalsoort 1	$f_{u,1}$		360	N/mm^2
Vloeispanning staalsoort 1	$f_{y,1}$		235	N/mm^2
Staalsoort 2: randstijl	-		S235	N/mm^2
Treksterkte staalsoort 2	$f_{u,2}$		360	N/mm^2
Vloeispanning staalsoort 2	$f_{y,2}$		235	N/mm^2
Staalsoort 3: deuvels	-		S235	N/mm^2
Treksterkte staalsoort 3	$f_{u,3}$		360	N/mm^2
Vloeispanning staalsoort 3	$f_{y,3}$		235	N/mm^2
Lassterkte deuvels paal	$f_{w,Rd}$	$=f_{u1,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Lassterkte deuvels randstijl	$f_{w,Rd}$	$=f_{u2,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Partiële factor beton	γ_c		1,50	-
Partiële factor staal	γ_s		1,25	-
Corrolatiefactor lassen	β_w		0,80	-
Reductiefactor lassen	w_r		1,2	-

Hoekprofiel randstijl			0x0x0	
Zijde	L_w		0	mm
Dikte	t_w		0	mm
Lengte verankering	L_e		800	mm

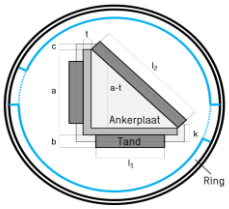
Geometrie				
Hoofdtype deuvels (zie figuren onderaan)			6	
Aantal palen per randstijl*	n_p		1	#
Type paal*			Buispaal	
Diameter paal uitwendig (indien buispaal)	$ø_{p,out}$		323,9	mm
Wanddikte paal	t_p		10,0	mm
Roestreductie paalwand	$t_{p,red}$		0	mm
Lengte paaldeuvel als % van omtrek paal	P_b		100,00%	%
Aantal lagen deuvels aan paal	$n_{b,p}$		3	#
Seperatie paaldeuvels	s_1		200	mm
Breedte deuvels/ lengte stift aan paal*	b_1		30	mm
Dikte deuvels aan fundatiepaal*	h_1		50	mm
Diameter paal inwendig (indien buispaal)	$ø_{p,in}$	$=ø_{p,out}-2t_p$	303,9	mm
Inwendige omtrek paal o.b.v. paaldiameter	P_{in}	$=[0;ø_{p,in}\pi]$	955	mm
Laslengte paaldeuvel	L_b	$=P_{in}P_b$	955	mm
Oppervlakte deuvels per laag aan paal**	$A_{b,1,i}$	$=[P_b(ø_{p,in}-b_1)\pi rb_1;L_bb_1]$	25814	mm2
Deuvels aan buitenzijde randstijl	n_{out}		0	#
Deuvels aan binnenzijde randstijl	n_{in}		0	#
Seperatie randstijldeuvels	s_2		200	mm
(las)Lengte deuvel buitenzijde*	L_{out}		0	mm
Uitkragende lengte deuvel buitenzijde	e		0	mm
(las)Lengte deuvel binnenzijde*	L_{in}		0	mm
Breedte deuvels aan randstijl	b_2		0	mm
Dikte deuvels aan randstijl	h_2		0	mm
Diameter stiftdeuvel	$ø_b$		0	mm
Oppervlakte enkele deuvel buitenzijde	$A_{f1,out,i}$	$=[L_{out}b;L_{out}ø_b]$	0	mm^2
Oppervlakte enkele deuvel binnenzijde	$A_{f1,in,i}$	$=[L_{in}b;L_{in}ø_b]$	0	mm^2
Las ankerplaat|randstijl	a_1		0	mm
Las deuvel|paal	a_2		4	mm
Las deuvel|buitenzijde randstijl	a_3		0	mm
Las deuvel|binnenzijde randstijl	a_4		0	mm
Lengte rugplaat aan ankerplaat	L_{rp}		0	mm
Dikte ankerplaat/rugplaat	t_r		0	mm
n-zijden buitenrand ankerplaat	n_c		2	#
Breedte buitenrand ankerplaat	c		0	mm
Rechte zijde ankerplaat	k_{pl}		0	mm
Aanvullende reductie omvang ankerplaat	$A_{p,red2}$		0	mm^2
(Las)Lengte ankerplaat binnenzijde	L_{fp}	$=[4;2](L_w-t_w-a_1\sqrt{2})$	0	mm
Effectief oppervlakte ankerplaat druk	$A_{p,c}$	$=A_{p,r}-A_{p,red1,2}$	0	mm^2
Effectief oppervlakte ankerplaat trek	$A_{p,t}$	$=A_{p,r}-A_{p,red1,2}-A_s$	0	mm^2

Notities

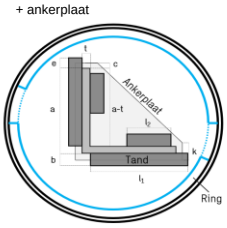
Hoofdtype 1
Tanddeuvels aan buitenzijde + ankerplaat



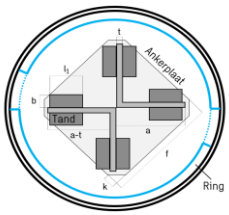
Hoofdtype 2
Tanddeuvels aan buitenzijde +
knag aan rand van de flensen + ankerplaat



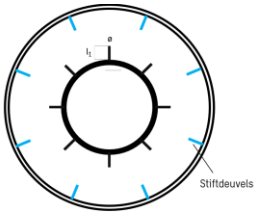
Hoofdtype 3
Tanddeuvels aan buitenzijde en binnenzijde
+ ankerplaat



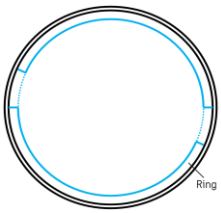
Hoofdtype 4
Tanddeuvels dubbele randstaaf + ankerplaat



Hoofdtype 5
Stiftdeuvels aan ronde buisprofiel, geen ankerplaat



Hoofdtype 6
Enkel toetsing van knaggen aan
funderingspaal + doorsnede paal

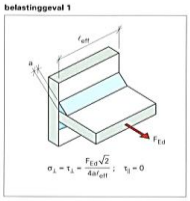


Toetsing capaciteit randstijldeuvels				
Capaciteit ankerplaat bij druk	$F_{Rd,c,p}$	$=A_{p,c}f_{cd}$	0,0	kN
Capaciteit ankerplaat bij trek	$F_{Rd,t,p}$	$=A_{p,t}f_{cd}$	0,0	kN
Capaciteit buitendeuvels	$F_{Rd,b,out}$	$=A_{t1,out,i}f_{cd}n_{out}$	0,0	kN
Capaciteit binnendeuvels	$F_{Rd,b,in}$	$=A_{t1,in,i}f_{cd}n_{in}$	0,0	kN
Capaciteit totaal bij druk	$F_{Rd,c}$	$=F_{Rd,c,p}+F_{Rd,b+o/i}$	0,0	kN
Capaciteit totaal bij trek	$F_{Rd,t}$	$=F_{Rd,t,p}+F_{Rd,b+o/i}$	0,0	kN
Betondrukspanning deuvels bij druk	$\sigma_{c,Ed,c}$	$=F_{ed,c}/(A_{p,c}+A_{t,o/i})$	0,00	N/mm^2
Betondrukspanning bij deuvels bij trek	$\sigma_{c,Ed,t}$	$=F_{ed,t}/(A_{p,t}+A_{t,o/i})$	0,00	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,c}$		0	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,t}$		0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	n.v.t.	OK
UC (betoncriterium)		$=[F_{Ed,c}/F_{Rd,c};F_{Ed,t}/F_{Rd,t}]$	n.v.t.	OK
Toetsing capaciteit paaldeuvels				
Capaciteit deuvels enkele paal	$F_{Rd,b}$	$=A_{b,i}*n_{b,p}*f_{cd}$	2594,5	kN
Betondrukspanning bij deuvels	$\sigma_{c,Ed+max}$	$=F_{Ed}/(A_{b,i}*n_b)$	28,8	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed}$		0,0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	0,00	OK
UC (betoncriterium)		$=F_{Ed}/(F_{Rd,b}+F_{Rd,b,c/st})$	0,86	OK
Toetsing lassen				
Type las randstijldeuvels			Dubbelzijdig	
Type las paaldeuvels			Dubbelzijdig	
Lasspanning ankerplaat	$\sigma_{vw1,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning buitendeuvels	$\sigma_{vw2,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning binnendeuvels	$\sigma_{vw3,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning paaldeuvels	$\sigma_{vw4,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	221	N/mm^2
Maatgevende UC		$=\sigma_{vw,Ed}/f_{w,Rd}$	0,74	OK
Toetsing paalcapaciteit				
Effectieve doorsnede paal	$A_{p,eff}$	$=P_{in}(t_p-t_{p,red})$	9547	mm^2
Maximale spanning in paal	$\sigma_{s,Ed}$	$=F_{Ed}/(A_{p,eff}n_p)$	234,0	N/mm^2
UC doorsnede paal		$=\sigma_{s,Ed}/f_{y,1}$	1,00	OK

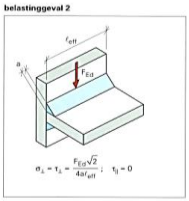
Lasspanningen NEN-EN 1993-1-8 p. 4.5.3						
Onderdeel	Ankerplaat	Buitendeuvels	Binnendeuvels (T3)	Binnendeuvels (T2)	Paaldeuvels	
Som σ_T	0,0	0,0	0,0	0,0	110,3	N/mm^2
Som τ_T	0,0	0,0	0,0	0,0	110,3	N/mm^2
Som $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 1	Ja	Nee	Nee	Nee	Nee	
M1 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 2	Nee	Ja	Ja	Nee	Ja	
M2 σ_T	0,0	0,0	0,0	0,0	68,9	N/mm^2
M2 τ_T	0,0	0,0	0,0	0,0	68,9	N/mm^2
M2 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 3	Nee	Nee	Nee	Ja	Nee	
M3 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 4	Nee	Ja	Ja	Nee	Ja	
M4 σ_T	0,0	0,0	0,0	0,0	41,4	N/mm^2
M4 τ_T	0,0	0,0	0,0	0,0	41,4	N/mm^2
M4 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 5	Nee	Nee	Nee	Nee	Nee	
M5 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 6	Nee	Nee	Nee	Nee	Nee	
M6 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2

Achterliggende logica				
Afschuifprojectievlak NEN-EN1994-2 F1.1				
Oppervlakte projectie afschuifweerstand	A_{f2}	$=A_{f2,out}+A_{f2,in}$	3200	mm^2
Minimale h.o.h. seperatie deuvels	s_{min}	$=[250;2*L_w]$	n.v.t.	mm
Breedte projectievlak buitendeuvels	$b_{f2,out}$	$=b_2+s_2/5$	40	mm
Lengte projectievlak buitendeuvels	$L_{f2,out}$	$=L_{out}+2s_2/5$	80	mm
Oppervlak projectie buitendeuvels	$A_{f2,out}$	$=b_{f2,out}L_{f2,out}$	3200	mm^2
Breedte projectievlak binnendeuvels	$b_{f2,in}$	$=b_2+s_2/5$	0	mm
Lengte projectievlak binnendeuvels	$L_{f2,in}$	$=L_{in}+2s_2/5$	0	mm
Oppervlak projectie binnendeuvels	$A_{f2,in}$	$=b_{f2,in}L_{f2,in}$	0	mm^2
Breedte projectievlak paaldeuvels	$b_{f2,p}$	$=\min[b_1;b_{eff,b}]+s_1/5$	70	mm
Lengte projectievlak paaldeuvels	$L_{f2,p}$	$=L_b+2s_1/5$	1035	mm
Oppervlak projectie paaldeuvels	$A_{f2,p}$	$=b_{f2,p}L_{f2,p}$	72431	mm^2
Effectieve oppervlakte ankerplaat NEN-EN1993-1-8 p. 4.10				
Oppervlakte ankerplaat excl. reducties	$A_{p,i}$	$=(L_w+cn_c)^2-0,5((w+cn_c-k)^2$	0	mm^2
Reductie ineffectief oppervlak ankerplaat	$A_{p,red1}$	$=0,5b_{ineff}^2$	0	mm^2
Oppervlakte staalprofiel	A_s	$=(2L_w-t_w)t_w$	0	mm^2
Effectieve breedte ankerplaat	b_{eff}	$=t_w+2a_1\sqrt{2}+7kt_f$	0,0	mm
Factor meewerkende breedte	k	$=\min[(t_f/t_w);1,0]$	0,00	-
Ineffectieve breedte	b_{ineff}	$=L_w+cn_c-(2c+t_w+b_{eff})+k_{pl}$	0,0	mm
Momentarm ankerplaat (voor toetsing incl. buiging)				
Momentarm ankerplaat	a_{fp}	$=[\sqrt{(2(z_1-z_2)^2)};0]$	0,0	mm
Zwaartepunt ankerplaat t.o.v. onderhoek	z_1	$=\sum A*z_i/A_T$	0,0	mm
Zwaartepunt randstijl t.o.v. onderhoek	z_2	$=\sum A*z_i/A_T$	0,0	mm
Staalspanning (voor toetsing incl. buiging)				
Weerstandsmoment ankerplaat	W_1	$=1/6*2(L_w-t_w)t_f^2$	0	mm^3
Weerstandsmoment buitendeuvels	W_2	$=1/6(L_{out}-e)h_2^2$	0	mm^3
Weerstandsmoment binnendeuvels	W_3	$=1/6L_{in}h_2^2$	0	mm^3
Weerstandsmoment paaldeuvels	W_4	$=1/6L_1h_1^2$	397804	mm^3
Staalspanning ankerplaat (druk)	$\sigma_{s,Ed,c}$	$=A_{p,c}\sigma_{c+Ed,c}a_{fp}/W_1$	0	N/mm^2
Staalspanning buitendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,out,c}\sigma_{c+Ed,c}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,in,c}\sigma_{c+Ed,c}(b_2/2)/W_3$	0	N/mm^2
Staalspanning paaldeuvels (max)	$\sigma_{s,Ed,c,t}$	$=A_t\sigma_{c+Ed,max}(b_1/2)/W_4$	28	N/mm^2
Staalspanning ankerplaat (trek)	$\sigma_{s,Ed,t}$	$=A_{p,t}\sigma_{c+Ed,t}a_f/W_1$	0	N/mm^2
Staalspanning buitendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,out,c}\sigma_{c+Ed,t}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,in,c}\sigma_{c+Ed,t}(b_2/2)/W_3$	0	N/mm^2
Optionele meewerkende betondoorsnede paal				
Enkel van toepassing als krachten uit randstijl via schachtwrijving naar de paalwand overbracht kunnen worden.				
Meewerkende wapeningstaven	n_{st}		0	#
Staafdiameter	$ø_{st}$		0	mm
Materiaalkwaliteit staaf	-		-	-
Factor effectiviteit betondoorsnede	α		0,00	-
Vloeigrens	f_{yd}		0	N/mm^2
Trekcapaciteit wapening	$F_{Rd,b,st}$	$=0,25n_{st}ø_{st}^2\pi F_{yd}$	0	kN
Betondoorsnede paal	$A_{c,p}$	$=\alpha*0,25P_{in}^2/\pi$	0	mm^2
Druksterkte betondoorsnede	$F_{Rd,b,c}$	$=A_{c,p}f_{cd}/\gamma_c$	0	kN
Gereduceerde breedte als knaggen geprofileerd zijn volgens NEN-EN1993-1-8 p. 4.10				
Flensdikte aangelast profiel	$t_{f,b}$		0	mm
Factor meewerkende breedte (k)	k_b	$=\min[(t_{f,b}/t_{f,b});1,0]$	0,00	-
Effectieve breedte knag	$b_{eff,b}$	$=0,5(t_{f,b}+2a_2\sqrt{2}+7k_bt_{f,b})$	0	mm

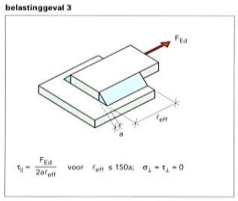
belastinggeval 1



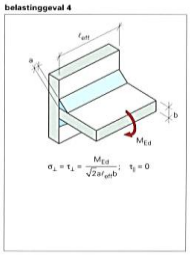
belastinggeval 2



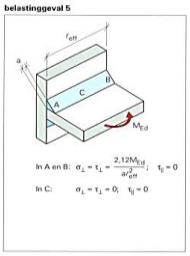
belastinggeval 3



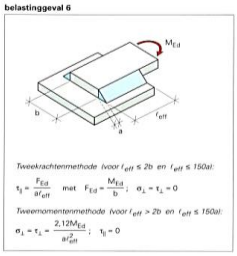
belastinggeval 4



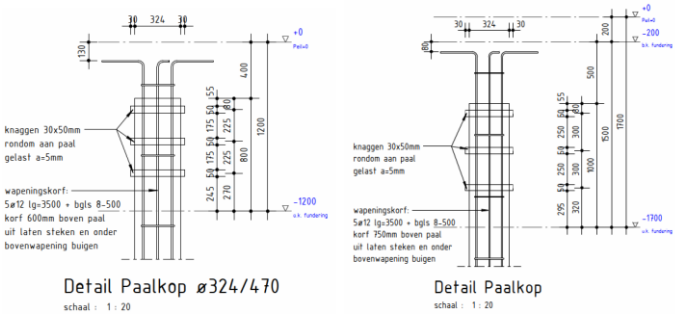
belastinggeval 5



belastinggeval 6



Ondersteunende figuren



Toetsing inleiding krachten in fundering

Projectnaam	Opwaardering KIJ-BVW 380kV	**Rekensheet versie**	3.1
Lijn	KIJ-DIM Ronde Venen	**Datum**	1-2-2026
Subtype deuvels aan randstijl		**Auteur**	[redacted]
Subtype deuvels aan paal	Buitenzijde LD1 (maximaal)	**Eerste interne controle**	[redacted] (RO)
Mastnummer(s)	versterkingen	**Tweede interne controle**	[redacted] (RC)

Samenvatting	UC	Check	F_{Rd}	
Maatgevende unity check	**1,00**	OK		
Max UC randstijldeuvels beton	n.v.t.	OK	D:0 T:0	kN
Max UC paaldeuvels beton	0,85	OK	3201	kN
Max UC lassen	0,78	OK	3499	kN
Max UC staalciteria	1,00	OK	2726	kN
Trekkracht uit randstijl	$F_{Ed,t}$		*2720*	kN
Drukkracht uit randstijl	$F_{Ed,c}$		*2720*	kN
Spanningsbegrenzing		$=0,7f_{cd}$	Nee	
Toetsing incl. buiging			Nee	
Toetsing incl. las reductie		$=f_w/1,2$	Ja	

Zie voor de maximaal optredende paalkrachten het constructief rapport

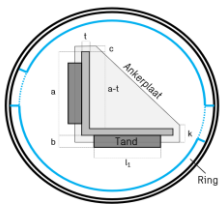
Materialen				
Betonkwaliteit	-		C30/37	
Beton omsloten	-		Ja	
Karakteristieke druksterkte	f_{ck}		30	N/mm^2
Verhogingsfactor druksterkte	C_a	$=min[\sqrt{(A_{c2}/A_{f1})};2,5]$	1,62	-
Verhoogde druksterkte	f_{jk}	$=f_{ck}C_a$	48,52	N/mm^2
Betondruksterkte	f_{cd}	$=f_{jk}/\gamma_c$	32,35	N/mm^2
Staalsoort 1: funderingspaal	-		S235	N/mm^2
Treksterkte staalsoort 1	$f_{u,1}$		360	N/mm^2
Vloeispanning staalsoort 1	$f_{y,1}$		235	N/mm^2
Staalsoort 2: randstijl	-		S235	N/mm^2
Treksterkte staalsoort 2	$f_{u,2}$		360	N/mm^2
Vloeispanning staalsoort 2	$f_{y,2}$		235	N/mm^2
Staalsoort 3: deuvels	-		S235	N/mm^2
Treksterkte staalsoort 3	$f_{u,3}$		360	N/mm^2
Vloeispanning staalsoort 3	$f_{y,3}$		235	N/mm^2
Lassterkte deuvels paal	$f_{w,Rd}$	$=f_{u1,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Lassterkte deuvels randstijl	$f_{w,Rd}$	$=f_{u2,3}/(w_r\beta_w\gamma_s)$	300	N/mm^2
Partiële factor beton	γ_c		1,50	-
Partiële factor staal	γ_s		1,25	-
Corrolatiefactor lassen	β_w		0,80	-
Reductiefactor lassen	w_r		1,2	-

Hoekprofiel randstijl			0x0x0	
Zijde	L_w		0	mm
Dikte	t_w		0	mm
Lengte verankering	L_e		800	mm

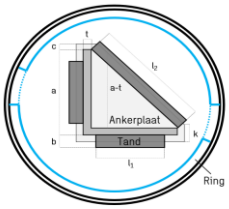
Geometrie				
Hoofdtype deuvels (zie figuren onderaan)			6	
Aantal palen per randstijl*	n_p		1	#
Type paal*			LD1	
Diameter paal uitwendig (indien buispaal)	$ø_{p,out}$		0,0	mm
Wanddikte paal	t_p		8,0	mm
Roestreductie paalwand	$t_{p,red}$		0	mm
Lengte paaldeuvel als % van omtrek paal	P_b		45,50%	%
Aantal lagen deuvels aan paal	$n_{b,p}$		5	#
Seperatie paaldeuvels	s_1		200	mm
Breedte deuvels/ lengte stift aan paal*	b_1		30	mm
Dikte deuvels aan fundatiepaal*	h_1		30	mm
Diameter paal inwendig (indien buispaal)	$ø_{p,in}$	$=ø_{p,out}-2t_p$	n.v.t.	mm
Inwendige omtrek paal o.b.v. tabellen	P_{in}	$=[0;ø_{p,in}\pi]$	1450	mm
Laslengte paaldeuvel	L_b	$=P_{in}P_b$	660	mm
Oppervlakte deuvels per laag aan paal**	$A_{b,1,i}$	$=[P_b(ø_{p,in}-b_1)\pi b_1;L_b b_1]$	19793	mm2
Deuvels aan buitenzijde randstijl	n_{out}		0	#
Deuvels aan binnenzijde randstijl	n_{in}		0	#
Seperatie randstijldeuvels	s_2		332	mm
(las)Lengte deuvel buitenzijde*	L_{out}		0	mm
Uitkragende lengte deuvel buitenzijde	e		0	mm
(las)Lengte deuvel binnenzijde*	L_{in}		0	mm
Breedte deuvels aan randstijl	b_2		0	mm
Dikte deuvels aan randstijl	h_2		0	mm
Diameter stiftdeuvel	$ø_b$		0	mm
Oppervlakte enkele deuvel buitenzijde	$A_{f1,out,i}$	$=[L_{out}b;L_{out}ø_b]$	0	mm^2
Oppervlakte enkele deuvel binnenzijde	$A_{f1,in,i}$	$=[L_{in}b;L_{in}ø_b]$	0	mm^2
Las ankerplaat|randstijl	a_1		0	mm
Las deuvel|paal	a_2		5	mm
Las deuvel|buitenzijde randstijl	a_3		0	mm
Las deuvel|binnenzijde randstijl	a_4		0	mm
Lengte rugplaat aan ankerplaat	L_{rp}		0	mm
Dikte ankerplaat/rugplaat	t_r		0	mm
n-zijden buitenrand ankerplaat	n_c		2	#
Breedte buitenrand ankerplaat	c		0	mm
Rechte zijde ankerplaat	k_{pl}		0	mm
Aanvullende reductie omvang ankerplaat	$A_{p,red2}$		0	mm^2
(Las)Lengte ankerplaat binnenzijde	L_{fp}	$=[4;2](L_w-t_w-a_1\sqrt{2})$	0	mm
Effectief oppervlakte ankerplaat druk	$A_{p,c}$	$=A_{p,r}-A_{p,red1,2}$	0	mm^2
Effectief oppervlakte ankerplaat trek	$A_{p,t}$	$=A_{p,r}-A_{p,red1,2}-A_s$	0	mm^2

Notities

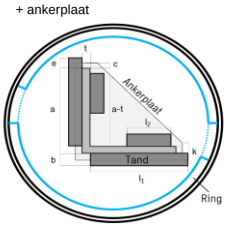
Hoofdtype 1
Tanddeuvels aan buitenzijde + ankerplaat



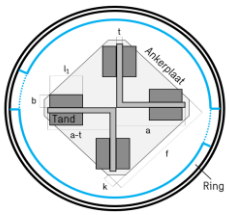
Hoofdtype 2
Tanddeuvels aan buitenzijde +
knag aan rand van de flensen + ankerplaat



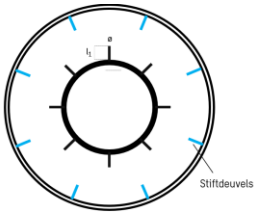
Hoofdtype 3
Tanddeuvels aan buitenzijde en binnenzijde
+ ankerplaat



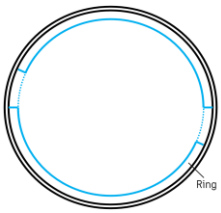
Hoofdtype 4
Tanddeuvels dubbele randstaaf + ankerplaat



Hoofdtype 5
Stiftdeuvels aan ronde buisprofiel, geen ankerplaat



Hoofdtype 6
Enkel toetsing van knaggen aan
funderingspaal + doorsnede paal

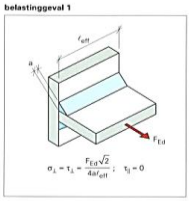


Toetsing capaciteit randstijldeuvels				
Capaciteit ankerplaat bij druk	$F_{Rd,c,p}$	$=A_{p,c}f_{cd}$	0,0	kN
Capaciteit ankerplaat bij trek	$F_{Rd,t,p}$	$=A_{p,t}f_{cd}$	0,0	kN
Capaciteit buitendeuvels	$F_{Rd,b,out}$	$=A_{t1,out,i}f_{cd}n_{out}$	0,0	kN
Capaciteit binnendeuvels	$F_{Rd,b,in}$	$=A_{t1,in,i}f_{cd}n_{in}$	0,0	kN
Capaciteit totaal bij druk	$F_{Rd,c}$	$=F_{Rd,c,p}+F_{Rd,b+o/i}$	0,0	kN
Capaciteit totaal bij trek	$F_{Rd,t}$	$=F_{Rd,t,p}+F_{Rd,b+o/i}$	0,0	kN
Betondrukspanning deuvels bij druk	$\sigma_{c,Ed,c}$	$=F_{ed,c}/(A_{p,c}+A_{t,o/i})$	0,00	N/mm²
Betondrukspanning bij deuvels bij trek	$\sigma_{c,Ed,t}$	$=F_{ed,t}/(A_{p,t}+A_{t,o/i})$	0,00	N/mm²
Max. buigspanning in staal	$\sigma_{s,Ed,c}$		0	N/mm²
Max. buigspanning in staal	$\sigma_{s,Ed,t}$		0	N/mm²
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	n.v.t.	OK
UC (betoncriterium)		$=[F_{Ed,c}/F_{Rd,c};F_{Ed,t}/F_{Rd,t}]$	n.v.t.	OK
Toetsing capaciteit paaldeuvels				
Capaciteit deuvels enkele paal	$F_{Rd,b}$	$=A_{b,i}*n_{b,p}*f_{cd}$	3201,4	kN
Betondrukspanning bij deuvels	$\sigma_{c,Ed+max}$	$=F_{Ed}/(A_{b,i}*n_b)$	27,5	N/mm²
Max. buigspanning in staal	$\sigma_{s,Ed}$		0,0	N/mm²
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	0,00	OK
UC (betoncriterium)		$=F_{Ed}/(F_{Rd,b}+F_{Rd,b,c/st})$	0,85	OK
Toetsing lassen				
Type las randstijldeuvels			Dubbelzijdig	
Type las paaldeuvels			Dubbelzijdig	
Lasspanning ankerplaat	$\sigma_{vw1,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm²
Lasspanning buitendeuvels	$\sigma_{vw2,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm²
Lasspanning binnendeuvels	$\sigma_{vw3,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	n.v.t.	N/mm²
Lasspanning paaldeuvels	$\sigma_{vw4,Ed}$	$=\sqrt{(\sigma_T^2+3(\tau_T^2+\tau_{//}^2))}$	233	N/mm²
Maatgevende UC		$=\sigma_{vw,Ed}/f_{w,Rd}$	0,78	OK
Toetsing paalcapaciteit				
Effectieve doorsnede paal	$A_{p,eff}$	$=P_{in}(t_p-t_{p,red})$	11600	mm²
Maximale spanning in paal	$\sigma_{s,Ed}$	$=F_{Ed}/(A_{p,eff}n_p)$	234,5	N/mm²
UC doorsnede paal		$=\sigma_{s,Ed}/f_{y,1}$	1,00	OK

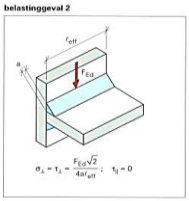
Lasspanningen NEN-EN 1993-1-8 p. 4.5.3						
Onderdeel	Ankerplaat	Buitendeuvels	Binnendeuvels (T3)	Binnendeuvels (T2)	Paaldeuvels	
Som σ_T	0,0	0,0	0,0	0,0	116,6	N/mm²
Som τ_T	0,0	0,0	0,0	0,0	116,6	N/mm²
Som $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 1	Ja	Nee	Nee	Nee	Nee	
M1 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M1 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M1 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 2	Nee	Ja	Ja	Nee	Ja	
M2 σ_T	0,0	0,0	0,0	0,0	58,3	N/mm²
M2 τ_T	0,0	0,0	0,0	0,0	58,3	N/mm²
M2 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 3	Nee	Nee	Nee	Ja	Nee	
M3 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M3 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M3 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 4	Nee	Ja	Ja	Nee	Ja	
M4 σ_T	0,0	0,0	0,0	0,0	58,3	N/mm²
M4 τ_T	0,0	0,0	0,0	0,0	58,3	N/mm²
M4 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 5	Nee	Nee	Nee	Nee	Nee	
M5 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M5 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M5 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²
Mechanisme 6	Nee	Nee	Nee	Nee	Nee	
M6 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M6 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm²
M6 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm²

Achterliggende logica				
Afschuifprojectievlak NEN-EN1994-2 F1.1				
Oppervlakte projectie afschuifweerstand	A_{f2}	$=A_{f2,out}+A_{f2,in}$	8818	mm²
Minimale h.o.h. seperatie deuvels	s_{min}	$=[250;2*t_w]$	n.v.t.	mm
Breedte projectievlak buitendeuvels	$b_{f2,out}$	$=b_2+s_2/5$	66,4	mm
Lengte projectievlak buitendeuvels	$L_{f2,out}$	$=L_{out}+2s_2/5$	132,8	mm
Oppervlak projectie buitendeuvels	$A_{f2,out}$	$=b_{f2,out}L_{f2,out}$	8817,92	mm²
Breedte projectievlak binnendeuvels	$b_{f2,in}$	$=b_2+s_2/5$	0	mm
Lengte projectievlak binnendeuvels	$L_{f2,in}$	$=L_{in}+2s_2/5$	0	mm
Oppervlak projectie binnendeuvels	$A_{f2,in}$	$=b_{f2,in}L_{f2,in}$	0	mm²
Breedte projectievlak paaldeuvels	$b_{f2,p}$	$=\min[b_1;b_{eff,b}]+s_1/5$	70	mm
Lengte projectievlak paaldeuvels	$L_{f2,p}$	$=L_b+2s_1/5$	740	mm
Oppervlak projectie paaldeuvels	$A_{f2,p}$	$=b_{f2,p}L_{f2,p}$	51783	mm²
Effectieve oppervlakte ankerplaat NEN-EN1993-1-8 p. 4.10				
Oppervlakte ankerplaat excl. reducties	$A_{p,i}$	$=(L_w+cn_c)^2-0,5((w+cn_c-k)^2$	0	mm²
Reductie ineffectief oppervlak ankerplaat	$A_{p,red1}$	$=0,5b_{ineff}^2$	0	mm²
Oppervlakte staalprofiel	A_s	$=(2L_w-t_w)t_w$	0	mm²
Effectieve breedte ankerplaat	b_{eff}	$=t_w+2a_1\sqrt{2}+7kt_f$	0,0	mm
Factor meewerkende breedte	k	$=\min[(t_f/t_w);1,0]$	0,00	-
Ineffectieve breedte	b_{ineff}	$=L_w+cn_c-(2c+t_w+b_{eff})+k_{pl}$	0,0	mm
Momentarm ankerplaat (voor toetsing incl. buiging)				
Momentarm ankerplaat	a_{fp}	$=[\sqrt{(2(z_1-z_2)^2)};0]$	0,0	mm
Zwaartepunt ankerplaat t.o.v. onderhoek	z_1	$=\sum A_i*z_i/A_T$	0,0	mm
Zwaartepunt randstijl t.o.v. onderhoek	z_2	$=\sum A_i*z_i/A_T$	0,0	mm
Staalspanning (voor toetsing incl. buiging)				
Weerstandsmoment ankerplaat	W_1	$=1/6*2(L_w-t_w)t_f^2$	0	mm³
Weerstandsmoment buitendeuvels	W_2	$=1/6(L_{out}-e)h_2^2$	0	mm³
Weerstandsmoment binnendeuvels	W_3	$=1/6L_{in}h_2^2$	0	mm³
Weerstandsmoment paaldeuvels	W_4	$=1/6L_ph_1^2$	98963	mm³
Staalspanning ankerplaat (druk)	$\sigma_{s,Ed,c}$	$=A_{p,c}\sigma_{c\text{-}Ed,c}a_{fp}/W_1$	0	N/mm²
Staalspanning buitendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,out,c}\sigma_{c\text{-}Ed,c}(b_2/2)/W_2$	0	N/mm²
Staalspanning binnendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,in,c}\sigma_{c\text{-}Ed,c}(b_2/2)/W_3$	0	N/mm²
Staalspanning paaldeuvels (max)	$\sigma_{s,Ed,c,t}$	$=A_t\sigma_{c\text{-}Ed,max}(b_1/2)/W_4$	82	N/mm²
Staalspanning ankerplaat (trek)	$\sigma_{s,Ed,t}$	$=A_{p,t}\sigma_{c\text{-}Ed,t}a_f/W_1$	0	N/mm²
Staalspanning buitendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,out,c}\sigma_{c\text{-}Ed,t}(b_2/2)/W_2$	0	N/mm²
Staalspanning binnendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,in,c}\sigma_{c\text{-}Ed,t}(b_2/2)/W_3$	0	N/mm²
Optionele meewerkende betondoorsnede paal				
Enkel van toepassing als krachten uit randstijl via schachtwrijving naar de paalwand overbracht kunnen worden.				
Meewerkende wapeningstaven	n_{st}		0	#
Staafdiameter	$ø_{st}$		0	mm
Materiaalkwaliteit staaf	-		-	-
Factor effectiviteit betondoorsnede	α		0,00	-
Vloeigrens	f_{yd}		0	N/mm²
Trekcapaciteit wapening	$F_{Rd,b,st}$	$=0,25n_{st}ø_{st}^2\pi F_{yd}$	0	kN
Betondoorsnede paal	$A_{c,p}$	$=\alpha*0,25P_{in}^2/\pi$	0	mm²
Druksterkte betondoorsnede	$F_{Rd,b,c}$	$=A_{c,p}f_{ck}/\gamma_c$	0	kN
Gereduceerde breedte als knaggen geprofileerd zijn volgens NEN-EN1993-1-8 p. 4.10				
Flensdikte aangelast profiel	$t_{f,b}$		0	mm
Factor meewerkende breedte (k)	k_b	$=\min[(t_{f,b}/t_{f,b});1,0]$	0,00	-
Effectieve breedte knag	$b_{eff,b}$	$=0,5(t_{f,b}+2a_2\sqrt{2}+7k_bt_{f,b})$	0	mm

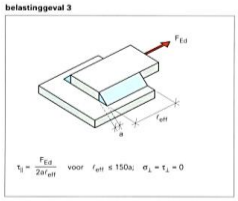
belastinggeval 1



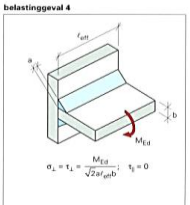
belastinggeval 2



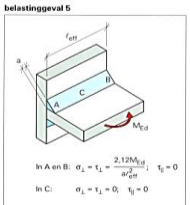
belastinggeval 3



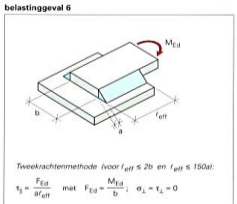
belastinggeval 4



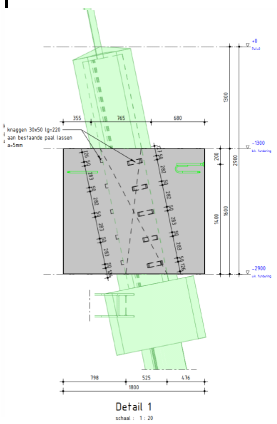
belastinggeval 5

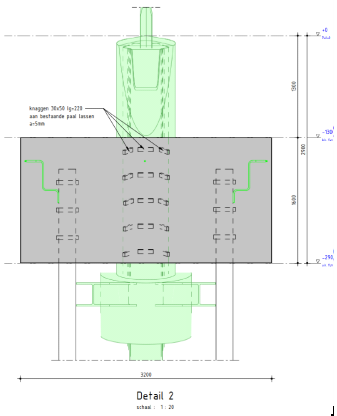


belastinggeval 6



Ondersteunende figuren





Toetsing inleiding krachten in fundering

Projectnaam	Opwaardering KIJ-BVW 380kV	**Rekensheet versie**	3.1
Lijn	KIJ-DIM Ronde Venen	**Datum**	1-2-2026
Subtype deuvels aan randstijl		**Auteur**	[redacted]
Subtype deuvels aan paal	Buitenzijde LD1 (minimaal)	**Eerste interne controle**	[redacted] (RO)
Mastnummer(s)	versterkingen	**Tweede interne controle**	[redacted] (RC)

Samenvatting	UC	Check	F_{Rd}	
Maatgevende unity check	**1,00**	OK		
Max UC randstijldeuvels beton	n.v.t.	OK	D:0 T:0	kN
Max UC paaldeuvels beton	1,00	OK	1921	kN
Max UC lassen	0,73	OK	2624	kN
Max UC staalciteria	0,70	OK	2726	kN
Trekkracht uit randstijl	$F_{Ed,t}$		*1920*	kN
Drukkracht uit randstijl	$F_{Ed,c}$		*1920*	kN
Spanningsbegrenzing		$=0,7f_{cd}$	Nee	
Toetsing incl. buiging			Nee	
Toetsing incl. las reductie		$=f_w/1,2$	Ja	

Zie voor de maximaal optredende paalkrachten het constructief rapport

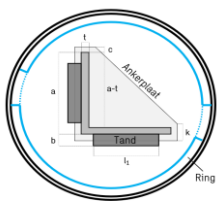
Materialen				
Betonkwaliteit	-		C30/37	
Beton omsloten	-		Ja	
Karakteristieke druksterkte	f_{ck}		30	N/mm^2
Verhogingsfactor druksterkte	C_a	$=\min[\sqrt{(A_{t2}/A_{t1})};2,5]$	1,62	-
Verhoogde druksterkte	f_{jk}	$=f_{ck}C_a$	48,52	N/mm^2
Betondruksterkte	f_{cd}	$=f_{jk}/\gamma_c$	32,35	N/mm^2
Staalsoort 1: funderingspaal	-		S235	N/mm^2
Treksterkte staalsoort 1	$f_{u,1}$		360	N/mm^2
Vloeispanning staalsoort 1	$f_{y,1}$		235	N/mm^2
Staalsoort 2: randstijl	-		S235	N/mm^2
Treksterkte staalsoort 2	$f_{u,2}$		360	N/mm^2
Vloeispanning staalsoort 2	$f_{y,2}$		235	N/mm^2
Staalsoort 3: deuvels	-		S235	N/mm^2
Treksterkte staalsoort 3	$f_{u,3}$		360	N/mm^2
Vloeispanning staalsoort 3	$f_{y,3}$		235	N/mm^2
Lassterkte deuvels paal	$f_{w,Rd}$	$=f_{u1,2}/(w_t\beta_w\gamma_s)$	300	N/mm^2
Lassterkte deuvels randstijl	$f_{w,Rd}$	$=f_{u2,2}/(w_t\beta_w\gamma_s)$	300	N/mm^2
Partiële factor beton	γ_c		1,50	-
Partiële factor staal	γ_s		1,25	-
Corrolatiefactor lassen	β_w		0,80	-
Reductiefactor lassen	w_t		1,2	-

Hoekprofiel randstijl			0x0x0	
Zijde	L_w		0	mm
Dikte	t_w		0	mm
Lengte verankering	L_e		800	mm

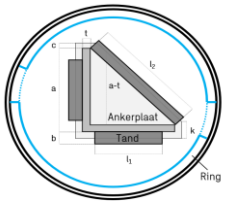
Geometrie				
Hoofdtype deuvels (zie figuren onderaan)			6	
Aantal palen per randstijl*	n_p		1	#
Type paal*			LD1	
Diameter paal uitwendig (indien buispaal)	$ø_{p,out}$		0,0	mm
Wanddikte paal	t_p		8,0	mm
Roestreductie paalwand	$t_{p,red}$		0	mm
Lengte paaldeuvel als % van omtrek paal	P_b		45,50%	%
Aantal lagen deuvels aan paal	$n_{b,p}$		3	#
Seperatie paaldeuvels	s_1		200	mm
Breedte deuvels/ lengte stift aan paal*	b_1		30	mm
Dikte deuvels aan fundatiepaal*	h_1		50	mm
Diameter paal inwendig (indien buispaal)	$ø_{p,in}$	$=ø_{p,out}-2t_p$	n.v.t.	mm
Inwendige omtrek paal o.b.v. tabellen	P_{in}	$=[0;ø_{p,in}\pi]$	1450	mm
Laslengte paaldeuvel	L_b	$=P_{in}P_b$	660	mm
Oppervlakte deuvels per laag aan paal**	$A_{b,1,i}$	$=[P_b(ø_{p,in}-b_1)\pi b_1;L_bb_1]$	19793	mm2
Deuvels aan buitenzijde randstijl	n_{out}		0	#
Deuvels aan binnenzijde randstijl	n_{in}		0	#
Seperatie randstijldeuvels	s_2		450	mm
(las)Lengte deuvel buitenzijde*	L_{out}		0	mm
Uitkragende lengte deuvel buitenzijde	e		0	mm
(las)Lengte deuvel binnenzijde*	L_{in}		0	mm
Breedte deuvels aan randstijl	b_2		0	mm
Dikte deuvels aan randstijl	h_2		0	mm
Diameter stiftdeuvel	$ø_b$		0	mm
Oppervlakte enkele deuvel buitenzijde	$A_{t1,out,i}$	$=[L_{out}b;L_{out}ø_b]$	0	mm^2
Oppervlakte enkele deuvel binnenzijde	$A_{t1,in,i}$	$=[L_{in}b;L_{in}ø_b]$	0	mm^2
Las ankerplaat|randstijl	a_1		0	mm
Las deuvel|paal	a_2		5	mm
Las deuvel|buitenzijde randstijl	a_3		0	mm
Las deuvel|binnenzijde randstijl	a_4		0	mm
Lengte rugplaat aan ankerplaat	L_{rp}		0	mm
Dikte ankerplaat/rugplaat	t_f		0	mm
n-zijden buitenrand ankerplaat	n_c		2	#
Breedte buitenrand ankerplaat	c		0	mm
Rechte zijde ankerplaat	k_{pl}		0	mm
Aanvullende reductie omvang ankerplaat	$A_{p,red2}$		0	mm^2
(Las)Lengte ankerplaat binnenzijde	L_{fp}	$=[4;2](L_w-t_w-a_1\sqrt{2})$	0	mm
Effectief oppervlakte ankerplaat druk	$A_{p,c}$	$=A_{p,r}-A_{p,red1,2}$	0	mm^2
Effectief oppervlakte ankerplaat trek	$A_{p,t}$	$=A_{p,r}-A_{p,red1,2}-A_s$	0	mm^2

Notities

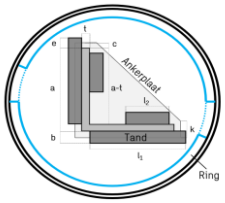
Hoofdtype 1
Tanddeuvels aan buitenzijde + ankerplaat



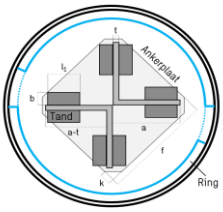
Hoofdtype 2
Tanddeuvels aan buitenzijde +
knag aan rand van de flensen + ankerplaat



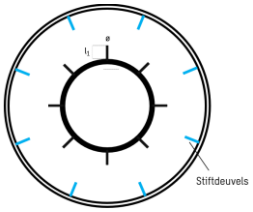
Hoofdtype 3
Tanddeuvels aan buitenzijde en binnenzijde
+ ankerplaat



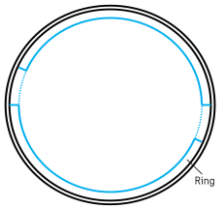
Hoofdtype 4
Tanddeuvels dubbele randstaaf + ankerplaat



Hoofdtype 5
Stiftdeuvels aan ronde buisprofiel, geen ankerplaat



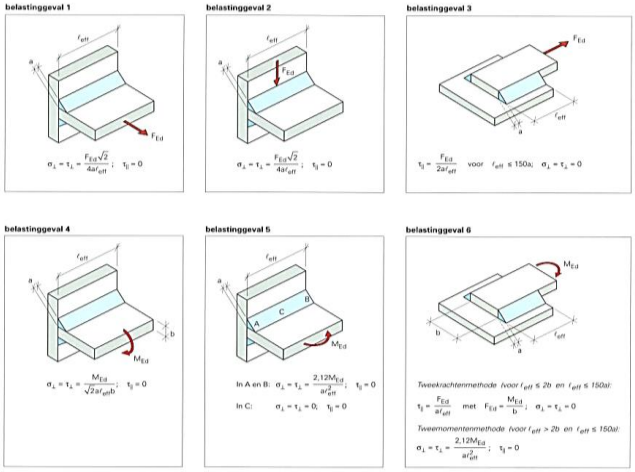
Hoofdtype 6
Enkel toetsing van knaggen aan
funderingspaal + doorsnede paal



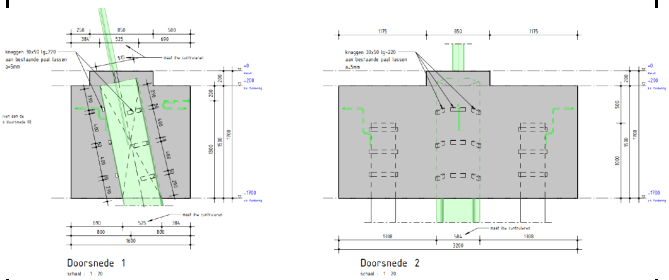
Toetsing capaciteit randstijldeuvels				
Capaciteit ankerplaat bij druk	$F_{Rd,c,p}$	$=A_{p,c}f_{cd}$	0,0	kN
Capaciteit ankerplaat bij trek	$F_{Rd,t,p}$	$=A_{p,t}f_{cd}$	0,0	kN
Capaciteit buitendeuvels	$F_{Rd,b,out}$	$=A_{t1,out,i}f_{cd}n_{out}$	0,0	kN
Capaciteit binnendeuvels	$F_{Rd,b,in}$	$=A_{t1,in,i}f_{cd}n_{in}$	0,0	kN
Capaciteit totaal bij druk	$F_{Rd,c}$	$=F_{Rd,c,p}+F_{Rd,b+o/i}$	0,0	kN
Capaciteit totaal bij trek	$F_{Rd,t}$	$=F_{Rd,t,p}+F_{Rd,b+o/i}$	0,0	kN
Betondrukspanning deuvels bij druk	$\sigma_{c,Ed,c}$	$=F_{ed,c}/(A_{p,c}+A_{t,c,i})$	0,00	N/mm^2
Betondrukspanning bij deuvels bij trek	$\sigma_{c,Ed,t}$	$=F_{ed,t}/(A_{p,t}+A_{t,c,i})$	0,00	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,c}$		0	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed,t}$		0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	n.v.t.	OK
UC (betoncriterium)		$=[F_{Ed,c}/F_{Rd,c};F_{Ed,t}/F_{Rd,t}]$	n.v.t.	OK
Toetsing capaciteit paaldeuvels				
Capaciteit deuvels enkele paal	$F_{Rd,b}$	$=A_{b,i}*n_{b,p}*f_{cd}$	1920,8	kN
Betondrukspanning bij deuvels	$\sigma_{c,Ed+max}$	$=F_{Ed}/(A_{b,i}*n_b)$	32,3	N/mm^2
Max. buigspanning in staal	$\sigma_{s,Ed}$		0,0	N/mm^2
UC (staalcriterium)		$=\sigma_{s,Ed}/f_{y,3}$	0,00	OK
UC (betoncriterium)		$=F_{Ed}/(F_{Rd,b}+F_{Rd,b,c/st})$	1,00	OK
Toetsing lassen				
Type las randstijldeuvels			Dubbelzijdig	
Type las paaldeuvels			Dubbelzijdig	
Lasspanning ankerplaat	$\sigma_{vw1,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning buitendeuvels	$\sigma_{vw2,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning binnendeuvels	$\sigma_{vw3,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	n.v.t.	N/mm^2
Lasspanning paaldeuvels	$\sigma_{vw4,Ed}$	$=\sqrt{(\sigma_\perp^2+3(\tau_\perp^2+\tau_{//}^2))}$	220	N/mm^2
Maatgevende UC		$=\sigma_{vw,Ed}/f_{w,Rd}$	0,73	OK
Toetsing paalcapaciteit				
Effectieve doorsnede paal	$A_{p,eff}$	$=P_{in}(t_p-t_{p,red})$	11600	mm^2
Maximale spanning in paal	$\sigma_{s,Ed}$	$=F_{Ed}/(A_{p,eff}n_p)$	165,5	N/mm^2
UC doorsnede paal		$=\sigma_{s,Ed}/f_{y,1}$	0,70	OK

Lasspanningen NEN-EN 1993-1-8 p. 4.5.3						
Onderdeel	Ankerplaat	Buitendeuvels	Binnendeuvels (T3)	Binnendeuvels (T2)	Paaldeuvels	
Som σ_T	0,0	0,0	0,0	0,0	109,8	N/mm^2
Som τ_T	0,0	0,0	0,0	0,0	109,8	N/mm^2
Som $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 1	Ja	Nee	Nee	Nee	Nee	
M1 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M1 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 2	Nee	Ja	Ja	Nee	Ja	
M2 σ_T	0,0	0,0	0,0	0,0	68,6	N/mm^2
M2 τ_T	0,0	0,0	0,0	0,0	68,6	N/mm^2
M2 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 3	Nee	Nee	Nee	Ja	Nee	
M3 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M3 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 4	Nee	Ja	Ja	Nee	Ja	
M4 σ_T	0,0	0,0	0,0	0,0	41,2	N/mm^2
M4 τ_T	0,0	0,0	0,0	0,0	41,2	N/mm^2
M4 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 5	Nee	Nee	Nee	Nee	Nee	
M5 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M5 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2
Mechanisme 6	Nee	Nee	Nee	Nee	Nee	
M6 σ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 τ_T	0,0	0,0	0,0	0,0	0,0	N/mm^2
M6 $\tau_{//}$	0,0	0,0	0,0	0,0	0,0	N/mm^2

Achterliggende logica				
Afschuifprojectievlak NEN-EN1994-2 F1.1				
Oppervlakte projectie afschuifweerstand	A_{f2}	$=A_{f2,out}+A_{f2,in}$	16200	mm^2
Minimale h.o.h. seperatie deuvels	s_{min}	$=[250;2*L_w]$	n.v.t.	mm
Breedte projectievlak buitendeuvels	$b_{f2,out}$	$=b_2+s_2/5$	90	mm
Lengte projectievlak buitendeuvels	L_{f2+out}	$=L_{c,out}+2s_2/5$	180	mm
Oppervlak projectie buitendeuvels	$A_{f2,out}$	$=b_{f2,out}L_{f2,out}$	16200	mm^2
Breedte projectievlak binnendeuvels	$b_{f2,in}$	$=b_2+s_2/5$	0	mm
Lengte projectievlak binnendeuvels	L_{f2+in}	$=L_{c,in}+2s_2/5$	0	mm
Oppervlak projectie binnendeuvels	$A_{f2,in}$	$=b_{f2,in}L_{f2,in}$	0	mm^2
Breedte projectievlak paaldeuvels	$b_{f2,p}$	$=\min[b_1;b_{eff,1}]+s_1/5$	70	mm
Lengte projectievlak paaldeuvels	L_{f2+p}	$=L_b+2s_1/5$	740	mm
Oppervlak projectie paaldeuvels	$A_{f2,p}$	$=b_{f2,p}L_{f2,p}$	51783	mm^2
Effectieve oppervlakte ankerplaat NEN-EN1993-1-8 p. 4.10				
Oppervlakte ankerplaat excl. reducties	$A_{p,i}$	$=(L_w+cn_c)^2-0,5((w+cn_c-k)^2$	0	mm^2
Reductie ineffectief oppervlak ankerplaat	$A_{p,red1}$	$=0,5b_{ineff}^2$	0	mm^2
Oppervlakte staalprofiel	A_s	$=(2L_w-t_w)t_w$	0	mm^2
Effectieve breedte ankerplaat	b_{eff}	$=t_w+2a_1\sqrt{2}+7kt_f$	0,0	mm
Factor meewerkende breedte	k	$=\min[(t_f/t_w);1,0]$	0,00	-
Ineffectieve breedte	b_{ineff}	$=L_w+cn_c-(2c+t_w+b_{eff})+k_{pl}$	0,0	mm
Momentarm ankerplaat (voor toetsing incl. buiging)				
Momentarm ankerplaat	a_{fp}	$=[\sqrt{(2(z_1-z_2)^2)};0]$	0,0	mm
Zwaartepunt ankerplaat t.o.v. onderhoek	z_1	$=\Sigma A_i*z_i/A_T$	0,0	mm
Zwaartepunt randstijl t.o.v. onderhoek	z_2	$=\Sigma A_i*z_i/A_T$	0,0	mm
Staalspanning (voor toetsing incl. buiging)				
Weerstandsmoment ankerplaat	W_1	$=1/6*2(L_w-t_w)t_f^2$	0	mm^3
Weerstandsmoment buitendeuvels	W_2	$=1/6(L_{out}-e)h_2^2$	0	mm^3
Weerstandsmoment binnendeuvels	W_3	$=1/6L_{in}h_2^2$	0	mm^3
Weerstandsmoment paaldeuvels	W_4	$=1/6L_1h_1^2$	274896	mm^3
Staalspanning ankerplaat (druk)	$\sigma_{s,Ed,c}$	$=A_{p,c}\sigma_{c:Ed,c}a_{fp}/W_1$	0	N/mm^2
Staalspanning buitendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,out,c}\sigma_{c:Ed,c}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (druk)	$\sigma_{s,Ed,c}$	$=A_{t1,in,c}\sigma_{c:Ed,c}(b_2/2)/W_3$	0	N/mm^2
Staalspanning paaldeuvels (max)	$\sigma_{s,Ed,c,i}$	$=A_i\sigma_{c:Ed,max}(b_1/2)/W_4$	35	N/mm^2
Staalspanning ankerplaat (trek)	$\sigma_{s,Ed,t}$	$=A_{p,t}\sigma_{c:Ed,t}a_t/W_1$	0	N/mm^2
Staalspanning buitendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,out,c}\sigma_{c:Ed,t}(b_2/2)/W_2$	0	N/mm^2
Staalspanning binnendeuvels (trek)	$\sigma_{s,Ed,t}$	$=A_{t1,in,c}\sigma_{c:Ed,t}(b_2/2)/W_3$	0	N/mm^2
Optionele meewerkende betondoorsnede paal				
Enkel van toepassing als krachten uit randstijl via schachtwrijving naar de paalwand overbracht kunnen worden.				
Meewerkende wapeningstaven	n_{st}		0	#
Staafdiameter	$ø_{st}$		0	mm
Materiaalkwaliteit staaf	-		-	-
Factor effectiviteit betondoorsnede	α		0,00	-
Vloeigrens	f_{yd}		0	N/mm^2
Trekcapaciteit wapening	$F_{Rd,b,st}$	$=0,25n_{st}ø_{st}^2\pi F_{yd}$	0	kN
Betondoorsnede paal	$A_{c,p}$	$=\alpha*0,25P_{in}^2/\pi$	0	mm^2
Druksterkte betondoorsnede	$F_{Rd,b,c}$	$=A_{c,p}f_{ck}/\gamma_c$	0	kN
Gereduceerde breedte als knaggen geprofileerd zijn volgens NEN-EN1993-1-8 p. 4.10				
Flensdikte aangelast profiel	$t_{f,b}$		0	mm
Factor meewerkende breedte (k)	k_b	$=\min[(t_{f,p}/t_{f,b});1,0]$	0,00	-
Effectieve breedte knag	$b_{eff,b}$	$=0,5(t_{f,b}+2a_2\sqrt{2}+7k_bt_{f,b})$	0	mm



Ondersteunende figuren



BIJLAGE 14
Meridian kenmerk C1704328

Mast	Masttype	Masthoogte	Paaltype	Maximale drukkracht in één LEKA-paal [kN]	Maximale trekkracht in één LEKA-paal [kN]	Capaciteit knag LEKA [kN/paal]	Capaciteit knag best. paal [kN/paal]	UC knag LEKA druk [kN/paal]	UC knag LEKA trek [kN/paal]	UC knag best. paal [kN/paal]	Locatie berekening knag
128	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
129	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
130	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
131	S+6	54	Leka 324/470	242,8	112,0	2234	1920	0,11	0,05	0,25	Bijlage 11&13
133	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
134	S+0	48	Leka 324/470	198,9	99,4	2234	1920	0,09	0,04	0,21	Bijlage 11&13
135	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
136	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
138	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
139	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
140	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
141	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
142	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
143	S+0	48	Leka 324/470	244,6	125,3	2234	1920	0,11	0,06	0,25	Bijlage 11&13
144	S+6	54	Leka 219/310	377,6	92,0	1469	2720	0,26	0,06	0,28	Bijlage 9&12
145	S+6	54	Leka 324/470	242,8	112,0	2234	1920	0,11	0,05	0,25	Bijlage 11&13
146 optie 1	S+9	57	Leka 219/310	462,2	189,6	1469	n.v.t	0,31	0,13		Bijlage 9
147 optie 1	S+9	57	Leka 219/310	216,3	159,0	1469	n.v.t	0,15	0,11		Bijlage 9
148	S+12	60	Leka 219/310	491,4	401,9	1469	n.v.t	0,33	0,27		Bijlage 9

BIJLAGE 15
Meridian kenmerk C1704329

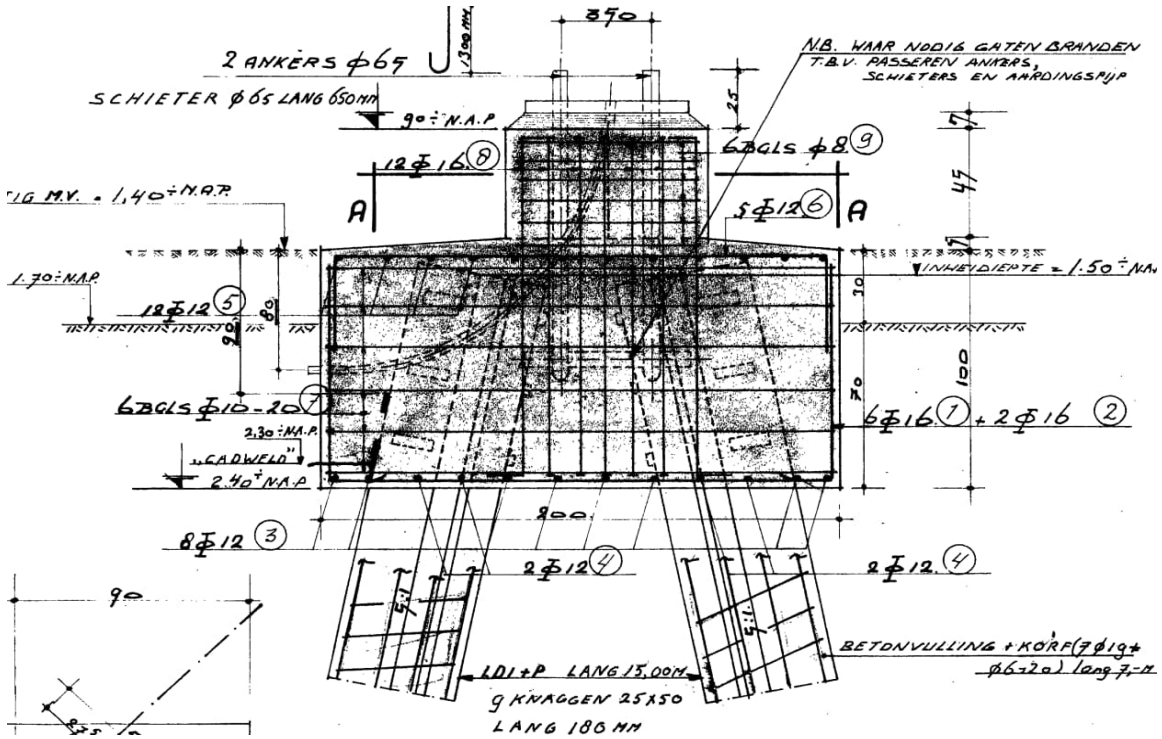
Bestaande poer: Mast 148

hoogte	breedte	Boven wapening			Onder wapening			Flank wapening		
		aantal	Ø		aantal	Ø		aantal	Ø	
1000	900	5	12	mm	6	16	mm	6	10	mm
		As:	565	mm2		1206	mm2		471	mm2
		Beugels			Feb:			C12/15	12	N/mm2
		h.o.h.	Ø		QR24	QR40		α	21,8	graden
		90	10	mm	210	348		TAN α	0,40	
			1745	mm2/m1				VRcd:	0,30	N/mm2

			As:ben		As:aanw		U.C. As
Nd:min	-187,42	kN	228	mm2	2243	mm2	0,10
Nd:max	65,92	kN	189	mm2	2243	mm2	0,08
Vd:min	-422,94	kN	942	mm2	1745	mm2	0,54
Vd:max	778,08	kN	1733	mm2	1745	mm2	0,99
Mxd:min	-31,51	kN.m	118	mm2	785	mm2	0,15
Mxd:max	31,47	kN.m	118	mm2	785	mm2	0,15
Myd:min	-162,07	kN.m	272	mm2	723	mm2	0,38
Myd:max	355,07	kN.m	1193	mm2	1206	mm2	0,99
Mzd:min	-12,16	kN.m	15	mm2	157	mm2	0,09
Mzd:max	12,17	kN.m	15	mm2	157	mm2	0,09

Zie pg. 5&6 voor berekening bestaande balk.

$N_{d:max} / f_{yd}$
$N_{d:min} / f_{yd}$



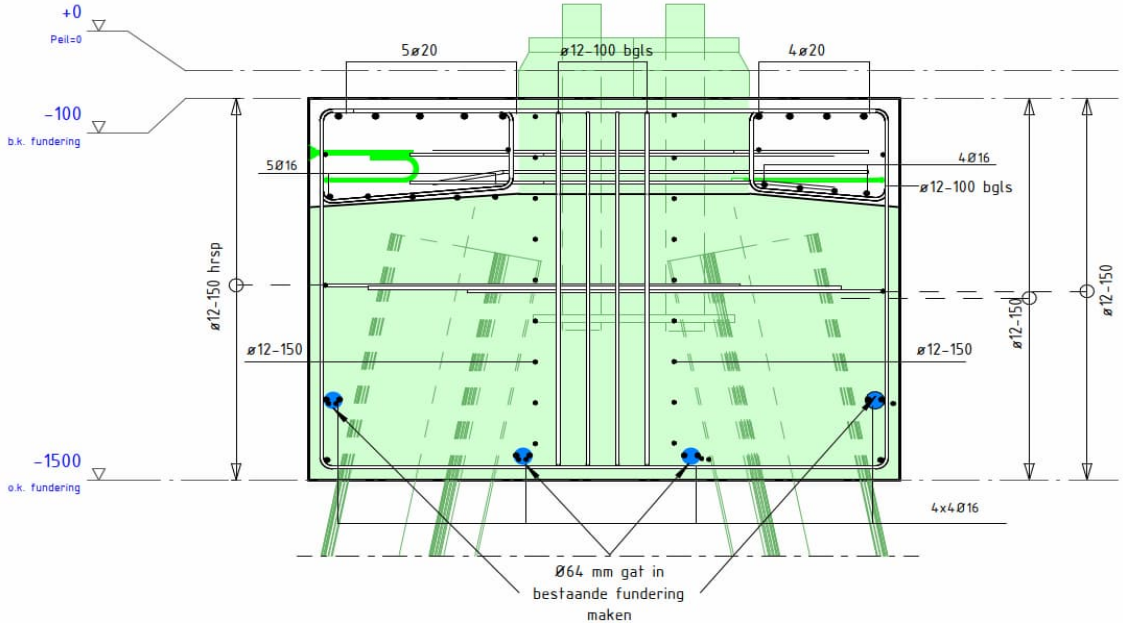
Nieuwe balk: Mast 148

hoogte	breedte	Boven wapening			Onder wapening			Flank wapening		
		aantal	Ø		aantal	Ø		aantal	Ø	
1400	2000	8	16	mm	8	16	mm	2	16	mm
		As:	1608	mm2		1608	mm2		402	mm2
		Beugels			Feb:			C30/37	30	N/mm2
		h.o.h.	Ø				feb500	α	21	graden
		100	12	mm			435	TAN α	0,38	
			2262	mm2/m1				VRcd:	0,47	N/mm2

			As:ben		As:aanw		U.C. As
Nd:min	-7,25	kN	17	mm2	3619	mm2	0,00
Nd:max	7,28	kN	17	mm2	3619	mm2	0,00
Vd:min	-536,47	kN	390	mm2	2262	mm2	0,17
Vd:max	492,42	kN	358	mm2	2262	mm2	0,16
Mxd:min	-33,62	kN.m	44	mm2	804	mm2	0,05
Mxd:max	33,61	kN.m	44	mm2	804	mm2	0,05
Myd:min	-532,7	kN.m	1008	mm2	1608	mm2	0,63
Myd:max	334,68	kN.m	682	mm2	1608	mm2	0,42
Mzd:min	-17,69	kN.m	3	mm2	226	mm2	0,01
Mzd:max	17,7	kN.m	3	mm2	226	mm2	0,01

$N_{d:max} / f_{yd}$
$N_{d:min} / f_{yd}$

Zie pg. 7&8 voor berekening nieuwe balk.



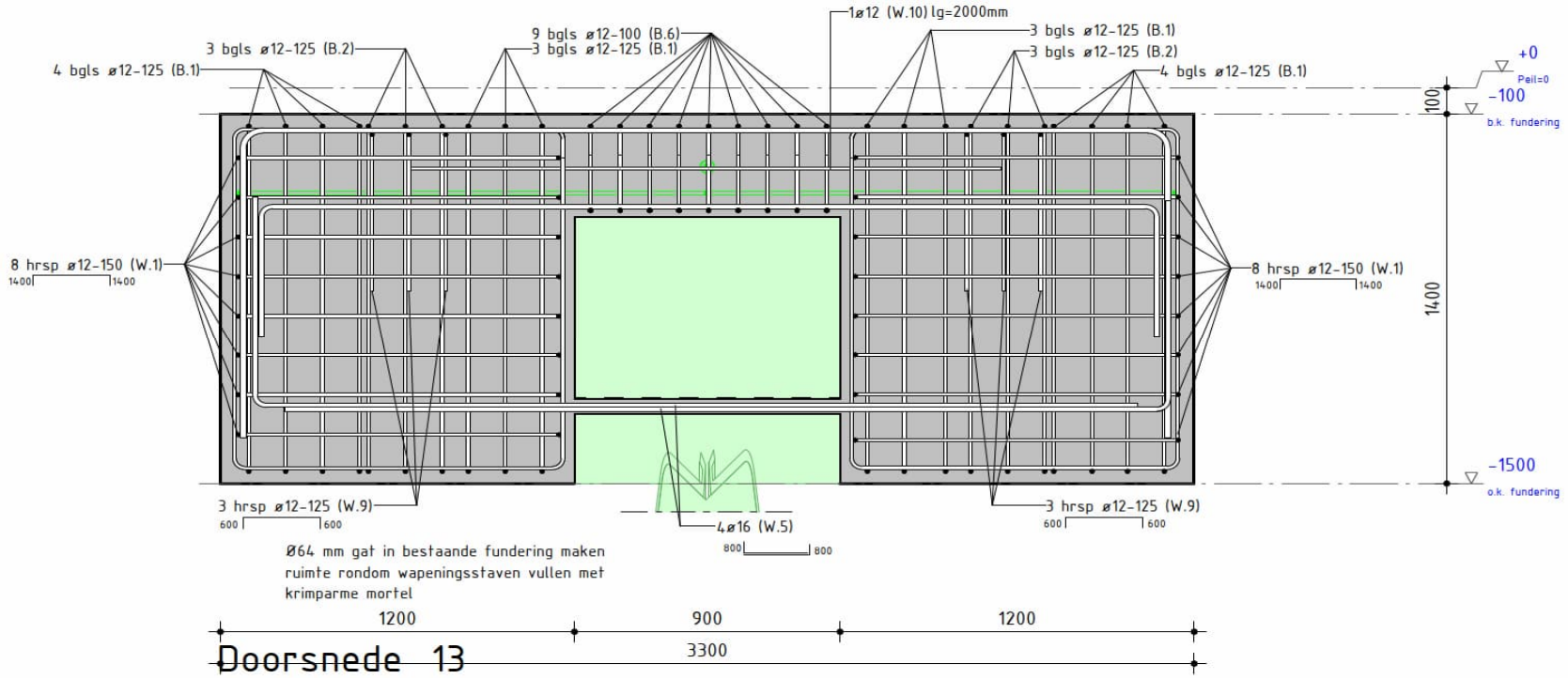
Koppeling nieuw aan bestaande poer: Mast 148

hoogte	breedte	Stekken (1000mm)			Feb:		
		h.o.h.	Ø				feb500
1000	2000	125	16	mm			435
	0		1608	mm2/m1			

Fd:paal druk -491,4 kN
trek 402 kN
Excentrisiteit paal 0,64 m

Zie pg. 4 voor toets stortvlak capaciteit

		AS:ben		AS:aanw		U.C. As	
Vd:druk	0,378 N/mm	1130	mm2	1608	mm2	0,70	exclusief aandeel beton
Vd:trek	0,31 kN.m	924	mm2	1608	mm2	0,57	exclusief aandeel beton



c	0,4	
f_{ctd}	1,333	N/mm2
μ	0,7	
σ_n	0,001	N/mm2
ρ	0,002	
f_{yd}	500	N/mm2
α	90	graden
v	0,528	
f_{cd}	20	N/mm2
0,6 * f_{cd}	12	N/mm2
V_{Rdi}	0,534	N/mm2
0,5 * v * f_{cd}	5,280	N/mm2
α_{ct}	1	
$f_{ctk:0,05}$	2	N/mm2
γ_C	1,5	

0 bij trek

normatief

$$f_{ctd} = \alpha_{ct}\, f_{ctk,0,05} / \gamma_C$$ 3.16

$$\sigma_n < 0{,}6\, f_{cd}$$

$$\nu = 0{,}6\left[1 - \frac{f_{ck}}{250}\right] \quad (f_{ck} \text{ in MPa})$$ 6.6N

$$f_{cd} = \alpha_{cc}\, f_{ck} / \gamma_C$$ 3.15

$$v_{Rdi} = c\, f_{ctd} + \mu\, \sigma_n + \rho\, f_{yd}\,(\mu \sin\alpha + \cos\alpha) \le 0{,}5\, \nu\, f_{cd}$$ 6.25

A_s	3216	mm2
A_i	2000000	mm2
b = b_i	2000	mm
h	1000	mm
f_{ck}	30	N/mm2

Afschuifweerstand Blokpoer

α_{cc}	1	
sin α	1	
cos α	0,00	
axiale druk	1	kN

normatief

β	1	
V_{Ed}	491,38	kN
z	900	mm
V_{Edi}	0,273	N/mm2

$$z = 0{,}9\, d$$

$$v_{Edi} = \beta\, V_{Ed} / (z\, b_i)$$ 6.24

U.C.	0,51

$v_{Edi} \le v_{Rdi}$ 6.23

NEN-EN 1992-1-1+C2:2011

Wap. toets best. poer My + Vz

A_s	1206	mm^2
f_{yd}	400	N/mm^2
b | b_w	900	mm
f_{cd}	20	N/mm^2
h	1500	mm
Ø	16	mm
dekking	40	mm
d	1452	mm

z	1000	mm
0,9 * d	1306,8	mm
0,6 x l	1200	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$F_{d\ druk}$	856	kN
l	2	m

M_{Ed}	355,1	kN.m
V_{Ed}	767,2	kN

toets	6899,9	kN

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

k	1,37		2
ρ_l	0,0009		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,308		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$

6.2.2(1)	
6.3N	
6.10.aN	
6.2.3(3)	
6.2.2(1)	

$V_{Rd,c}$	301,92	kN
	402,21	kN

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ 6.2.b

$A_{s:Md:ben}$	1020	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

UC $M_{d,wap.}$	0,85

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	5317,96	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$V_{Rd,s}$	458	kN
Ø	10	mm
s	90	mm
snedes	2	stuks
opp	1745	mm^2/m
θ	40,0	graden
cot θ	1	
tan θ	1	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ 6.8

UC $V_{d,wap.}$	0,89	beton

NEN-EN 1992-1-1+C2:2011

Wap. toets best. poer My + Vz

A_s	723	mm^2
f_{yd}	400	N/mm^2
b | b_w	900	mm
f_{cd}	20	N/mm^2
h	1500	mm
Ø	16	mm
dekking	40	mm
d	1452	mm

z	1000	mm
0,9 * d	1306,8	mm
0,6 x l	1200	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$F_{d\ druk}$	856	kN
l	2	m

M_{Ed}	162,1	kN.m
V_{Ed}	4,94	kN

toets	6899,9	kN

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

k	1,37		2
ρ_l	0,0006		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,308		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$

6.2.2(1) | 6.3N | 6.10.aN | 6.2.3(3) | 6.2.2(1)

$V_{Rd,c}$	254,58	kN
	402,21	kN

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a
$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ 6.2.b

$A_{s:Md:ben}$	466	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

UC $M_{d,wap.}$	0,64

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	5317,96	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$V_{Rd,s}$	458	kN
Ø	10	mm
s	90	mm
snedes	2	stuks
opp	1745	mm^2/m
θ	40,0	graden
cot θ	1	
tan θ	1	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ 6.8

UC $V_{d,wap.}$	0,01	beton

NEN-EN 1992-1-1+C2:2011

Wap. toets best. poer Mx + Vy

A_s	474	mm^2
f_{yd}	400	N/mm^2
b | b_w	1500	mm
f_{cd}	20	N/mm^2
h	900	mm
Ø	10	mm
dekking	30	mm
d	865	mm

z	600	mm
0,9 * d	778,5	mm
0,6 x l	720	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$F_{d\ druk}$	483	kN
l	1,2	m

M_{Ed}	31,5	kN.m
V_{Ed}	13,64	kN

toets	6850,8	kN

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

k	1,48		2
ρ_l	0,0004		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,345		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

$$V_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$

6.2.2(1)	
6.3N	
6.10.aN	
6.2.3(3)	
6.2.2(1)	

$V_{Rd,c}$	237,72	kN
	448,23	kN

$$V_{Rd,c} = [C_{Rd,c}\,k(100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a
$$V_{Rd,c} = (v_{min} + k_1\sigma_{cp})\,b_w d$$ 6.2.b

$A_{s:Md:ben}$	151	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

UC $M_{d,wap.}$	0,32

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	5317,96	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$V_{Rd,s}$	90	kN
Ø	8	mm
s	175	mm
snedes	2	stuks
opp	574	mm^2/m
θ	40,0	graden
cot θ	1	
tan θ	1	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\cot\theta$$ 6.8

UC $V_{d,wap.}$	0,04	beton

NEN-EN 1992-1-1+C2:2011

Wap. toets nieuw balk My + Vz

A_s	3216	mm^2
f_{yd}	500	N/mm^2
b | b_w	2000	mm
f_{cd}	20	N/mm^2
h	1400	mm
Ø	16	mm
dekking	45	mm
d	1347	mm

z	980	mm
0,9 * d	1212,3	mm
0,6 x l	1260	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ — 6.1 (10)

$F_{d\ druk}$	593,33	kN
l	2,1	m

M_{Ed}	532,7	kN.m
V_{Ed}	536,47	kN

toets	14224,3	kN

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ — 6.5

k	1,39		2
ρ_l	0,0012		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,313		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$

6.2.2(1)	
6.3N	
6.10.aN	
6.2.3(3)	
6.2.2(1)	

$V_{Rd,c}$	685,19	kN
	842,08	kN

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ — 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ — 6.2.b

$A_{s:Md:ben}$	1010	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ — 6.1 (10)

UC $M_{d,wap.}$	0,31

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	11581,3	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ — 6.9

$V_{Rd,s}$	465	kN
Ø	12	mm
s	125	mm
snedes	2	stuks
opp	1810	mm^2/m
θ	40,0	graden
cot θ	1	
tan θ	1	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ — 6.8

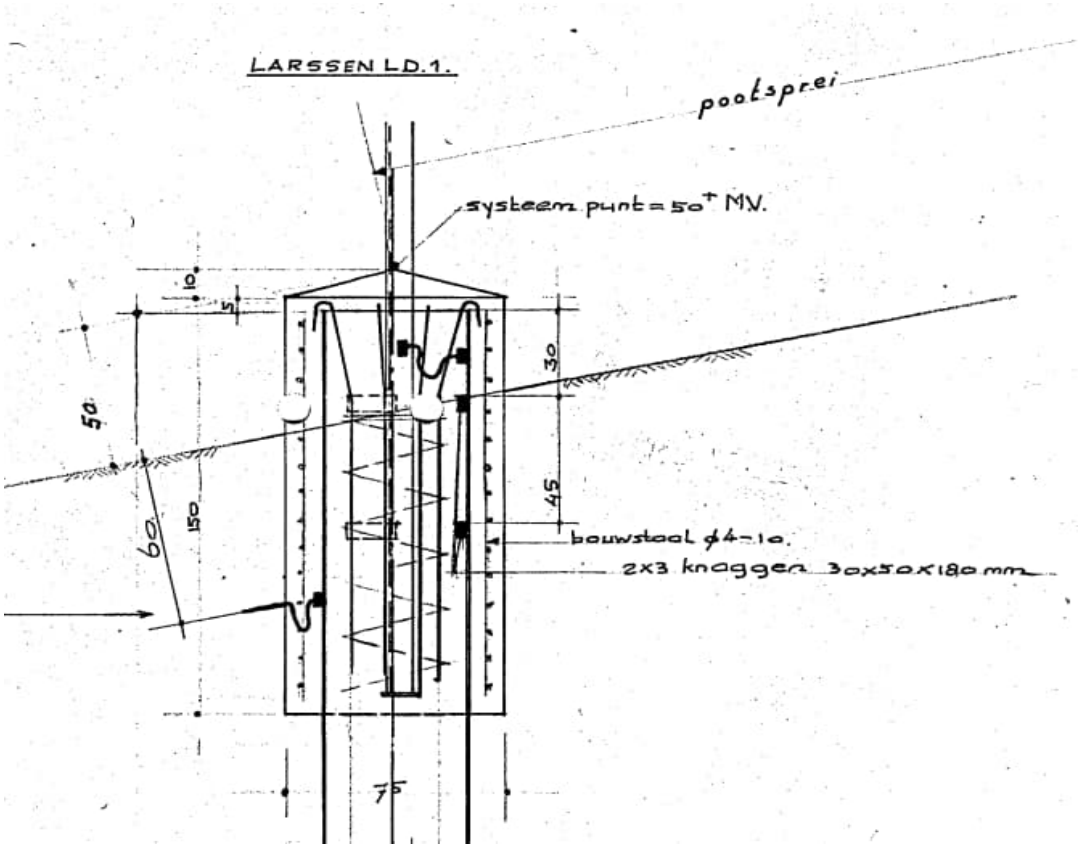
UC $V_{d,wap.}$	0,47	beton

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BIJLAGE 16
Meridian kenmerk C1704330

Bestaande balk: Mast 134

Cylinderpoeren hebben geen bestaande balk

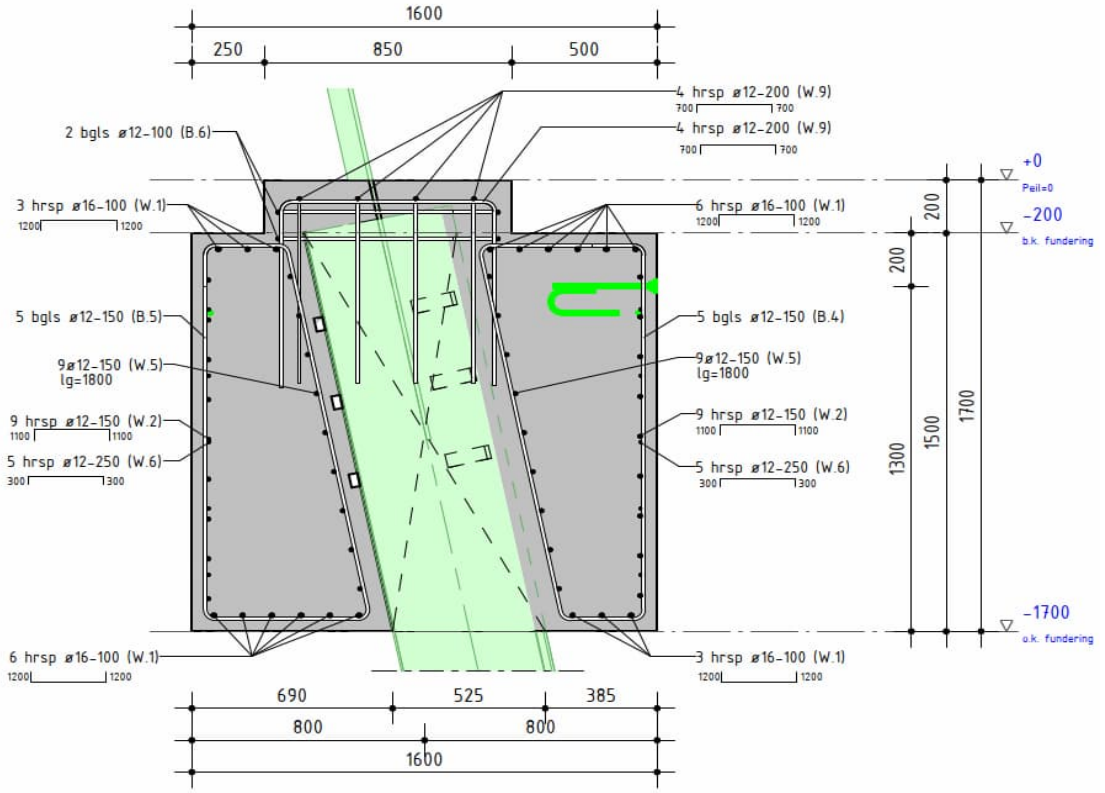


Nieuwe balk: Mast 134

hoogte	breedte	Boven wapening			Onder wapening			Flank wapening		
		aantal	Ø		aantal	Ø		aantal	Ø	
750	1000	9	16	mm	9	16	mm	9	12	mm
		As:	1810	mm2		1810	mm2		1018	mm2
		Beugels			Feb:			C30/37	30	N/mm2
		h.o.h.	Ø				feb500	α	21	graden
		200	12	mm			435	TAN α	0,38	
			1131	mm2/m1				VRcd:	0,47	N/mm2

			As:ben		As:aanw		U.C. As
Nd:min	-10,4	kN	24	mm2	4637	mm2	0,01
Nd:max	10,29	kN	24	mm2	4637	mm2	0,01
Vd:min	-230,29	kN	323	mm2	1131	mm2	0,29
Vd:max	229,05	kN	321	mm2	1131	mm2	0,28
Mxd:min	-67,7	kN.m	182	mm2	1420	mm2	0,13
Mxd:max	67,04	kN.m	180	mm2	1420	mm2	0,13
Myd:min	-245,77	kN.m	897	mm2	1810	mm2	0,50
Myd:max	243,42	kN.m	888	mm2	1810	mm2	0,49
Mzd:min	-38,33	kN.m	27	mm2	226	mm2	0,12
Mzd:max	79,24	kN.m	57	mm2	226	mm2	0,25

Zie pg. 5&6 voor berekening nieuwe balk.



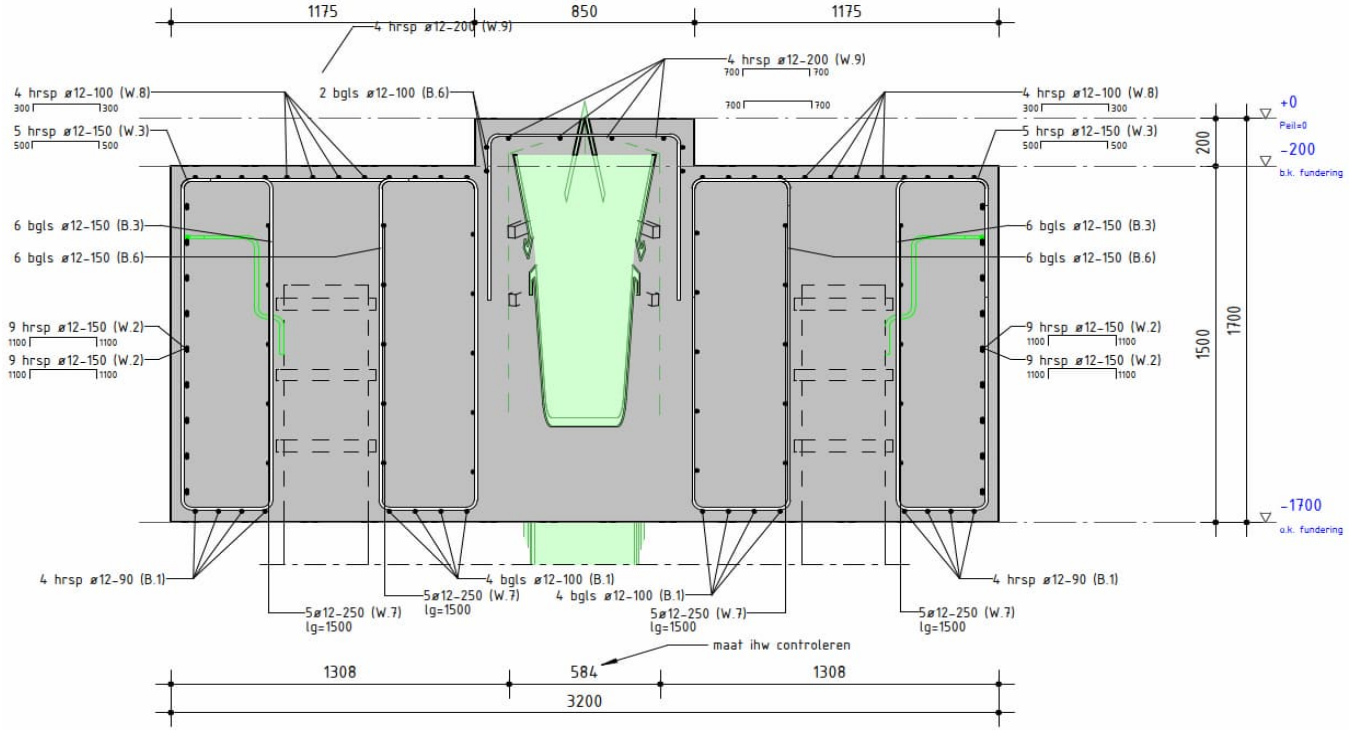
Koppeling nieuw aan bestaande balk: Mast 134

hoogte	breedte	Stekken (1000mm)			Feb:		
		h.o.h.	Ø				feb500
750	1000	150	16	mm			435
			1340	mm2/m1			

Fd:paal druk -310,9 kN
trek 125,3 kN
Excentrisiteit paal 0,8 m

			As:ben		As:aanw		U.C. As
Md:druk	-248,81	kN.m	1017	mm2	1340	mm2	0,76
Md:trek	100,22	kN.m	410	mm2	1340	mm2	0,31

Zie pg. 4 voor toets stortvlak capaciteit



c	0,4		
fctd	1,333	N/mm2	0 bij trek
μ	0,7		
σn	0,001	N/mm2	
ρ	0,002		
fyd	500	N/mm2	
α	90	graden	
v	0,528		
fcd	20	N/mm2	
0,6 * fcd	12	N/mm2	

$f_{ctd} = \alpha_{ct}\, f_{ctk,0,05} / \gamma_C$ — 3.16

$\sigma_n < 0,6\, f_{cd}$

$\nu = 0,6\left[1 - \frac{f_{ck}}{250}\right]$ (f_{ck} in MPa) — 6.6N

$f_{cd} = \alpha_{cc}\, f_{ck} / \gamma_C$ — 3.15

vRdi	0,534	N/mm2
0,5 * v * fcd	5,280	N/mm2

$v_{Rdi} = c\, f_{ctd} + \mu\, \sigma_n + \rho\, f_{yd}\, (\mu \sin \alpha + \cos \alpha) \leq 0,5\, \nu\, f_{cd}$ — 6.25

αct	1	normatief
fctk:0,05	2	N/mm2
γC	1,5	

Weerstand stortvlak cylinder 75

As	1809	mm2
Ai	787500	mm2
b	525	mm
h	1500	mm

fck	30	N/mm2

αcc	1	normatief
Sin α	1	
Cos α	0,00	

axiale druk	1	kN

β	1	
vEd	310,94	kN
z	1350	mm
vEdi	0,439	N/mm2

$z = 0,9\, d$

$v_{Edi} = \beta\, V_{Ed} / (z\, b_i)$ — 6.24

U.C.	0,82

$v_{Edi} \leq v_{Rdi}$ — 6.23

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Wap. toets nieuw balk My + Vz

A_s	1809	mm^2
f_{yd}	500	N/mm^2
b | b_w	1075	mm
f_{cd}	20	N/mm^2
h	1500	mm
Ø	16	mm
dekking	45	mm
d	1447	mm

z	1000	mm
0,9 * d	1302,3	mm
0,6 x l	1200	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$F_{d\ druk}$	310,94	kN
l	2	m

M_{Ed}	290,0	kN.m
V_{Ed}	230,29	kN

toets	8213,172	kN

$$V_{Ed} \le 0{,}5\, b_w d\, \nu\, f_{cd}$$ 6.5

k	1,37		2
ρ_l	0,0012		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,308		
v_1	0,600		
α_{cw}	1,00		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0$$ fyd x z(min) $$\rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

6.2.2(1)	
6.3N	$v_{min} = 0{,}035\, k^{3/2} \cdot f_{ck}^{1/2}$
6.10.aN	
6.2.3(3)	
6.2.2(1)	

$V_{Rd,c}$	388,36	kN
	479,10	kN

$$V_{Rd,c} = [C_{Rd,c} k (100\, \rho_l f_{ck})^{1/3} + k_1\, \sigma_{cp}]\, b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\, b_w d$$ 6.2.b

$A_{s:Md:ben}$	667	mm^2

$$M_{Rd} = z\, A_s\, f_s$$ 6.1 (10)

UC $M_{d,wap.}$	0,37

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	6450,00	kN

$$V_{Rd,max} = \alpha_{cw}\, b_w\, z\, \nu_1\, f_{cd} / (\cot\theta + \tan\theta)$$ 6.9

$V_{Rd,s}$	249	kN
Ø	12	mm
s	200	mm
snedes	4	stuks
opp	2262	mm^2/m
θ	45	graden
cot θ	1	
tan θ	1	

$$V_{Rd,s} = \frac{A_{sw}}{s}\, z\, f_{ywd} \cot\theta$$ 6.8

UC $V_{d,wap.}$	0,36	beton

NEN-EN 1992-1-1+C2:2011

Wap. toets nieuw balk My + Vz

A_s	1018	mm^2
f_{yd}	500	N/mm^2
b | b_w	1500	mm
f_{cd}	20	N/mm^2
h	1075	mm
Ø	12	mm
dekking	45	mm
d	1024	mm

z	1130	mm
0,9 * d	921,6	mm
0,6 x l	2100	mm

$F_{d\ druk}$	50	kN
l	3,5	m

M_{Ed}	67,7	kN.m
V_{Ed}	49,62	kN

toets	8110,08	kN

k	1,44		2
ρ_l	0,0007		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,332		
v_1	0,600		
α_{cw}	1,00		N.B.
k_1	0,15		normatief

$V_{Rd,c}$	334,21	kN
	509,85	kN

$A_{s:Md:ben}$	169	mm^2

UC $M_{d,wap.}$	0,17

$V_{Rd,max}$	8294,40	kN

$V_{Rd,s}$	459	kN
Ø	12	mm
s	100	mm
snedes	2	stuks
opp	2262	mm^2/m
θ	45	graden
cot θ	1	
tan θ	1	

UC $V_{d,wap.}$	0,06

beton

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

	6.2.2(1)
$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$	6.3N
	6.10.aN
	6.2.3(3)
	6.2.2(1)

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ 6.2.b

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\cot\theta$$ 6.8

NEN-EN 1992-1-1+C2:2011

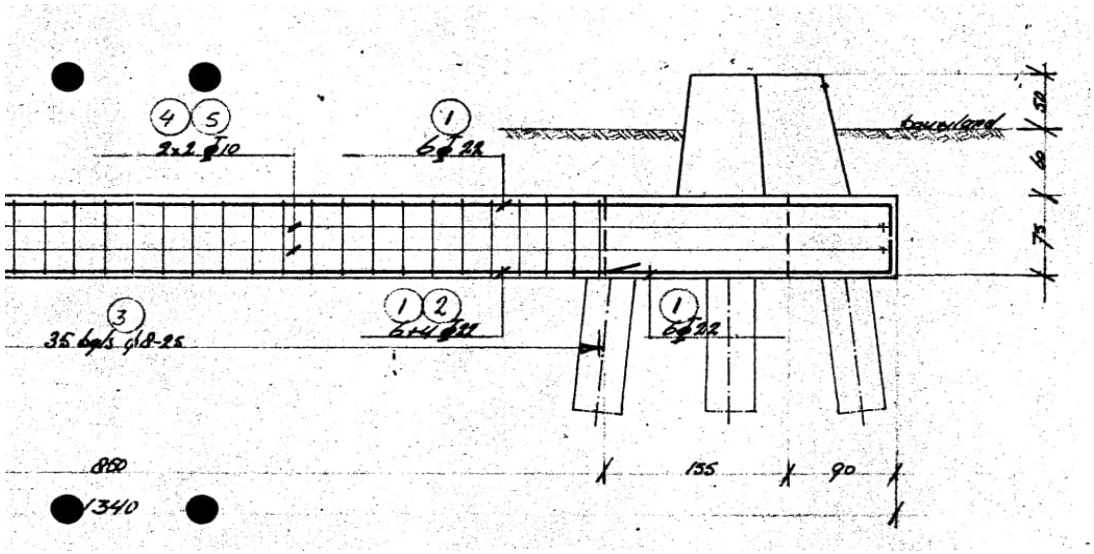
Bestaande balk: Mast 146&147

hoogte	breedte	Boven wapening			Onder wapening			Flank wapening		
		aantal	Ø		aantal	Ø		aantal	Ø	
750	900	6	22	mm	6	22	mm	2	10	mm
		As:	2281	mm2		2281	mm2		157	mm2
		Beugels			fyd:			C12/15	12	N/mm2
		h.o.h.	Ø		QR24	QR40		θ	21,8	graden
		250	8	mm	210	348		TAN θ	0,40	
			402	mm2/m1				VRcd:	0,30	N/mm2

			As:ben		As:aanw		U.C. As
Nd:min	-107,28	kN	308	mm2	4719	mm2	0,07
Nd:max	96,52	kN	277	mm2	4719	mm2	0,06
Vd:min	-348,03	kN	1052	mm2	402	mm2	2,62
Vd:max	353,03	kN	1067	mm2	402	mm2	2,65
Mxd:min	-417,7	kN.m	1569	mm2	1678	mm2	0,94
Mxd:max	416,65	kN.m	1565	mm2	1678	mm2	0,93
Myd:min	-191,88	kN.m	875	mm2	2281	mm2	0,38
Myd:max	371,87	kN.m	1696	mm2	2281	mm2	0,74
Mzd:min	-62,09	kN.m	-299	mm2	101	mm2	-2,98
Mzd:max	62,93	kN.m	-220	mm2	101	mm2	-2,19

$N_{d:max} / f_{yd}$
$N_{d:min} / f_{yd}$

Zie pg. 6&7 voor berekening bestaande balk.



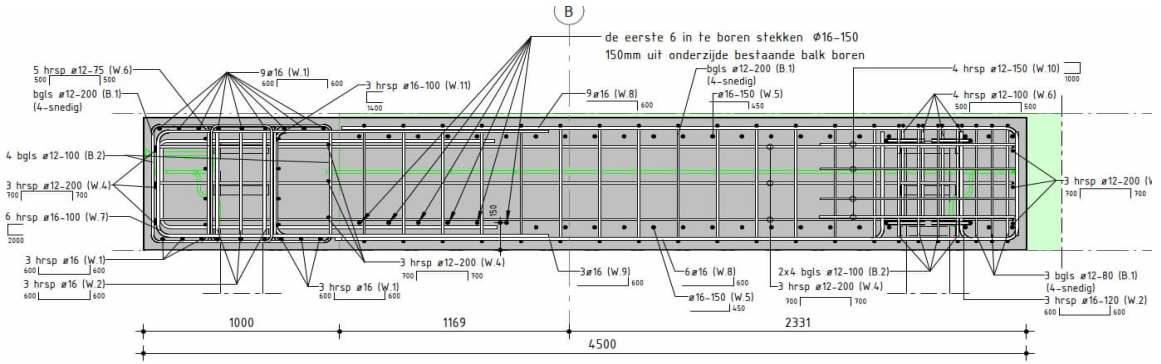
Nieuwe balk: Mast 146&147

hoogte	breedte	Boven wapening			Onder wapening			Flank wapening		
		aantal	Ø		aantal	Ø		aantal	Ø	
750	1000	9	16	mm	9	16	mm	3	12	mm
		As:	1810	mm2		1810	mm2		339	mm2
		Beugels			fyd:			C30/37	30	N/mm2
		h.o.h.	Ø				fyd500	θ	21,8	graden
		200	12	mm			435	TAN θ	0,40	
			1131	mm2/m1				VRcd:	0,47	N/mm2

			As:ben		As:aanw		U.C. As
Nd:min	-40,63	kN	93	mm2	3958	mm2	0,02
Nd:max	32,16	kN	74	mm2	3958	mm2	0,02
Vd:min	-80,48	kN	117	mm2	1131	mm2	0,10
Vd:max	81,14	kN	118	mm2	1131	mm2	0,10
Mxd:min	-91,45	kN.m	246	mm2	741	mm2	0,33
Mxd:max	91,22	kN.m	245	mm2	741	mm2	0,33
Myd:min	-103,16	kN.m	376	mm2	1810	mm2	0,21
Myd:max	142,5	kN.m	520	mm2	1810	mm2	0,29
Mzd:min	-17,73	kN.m	13	mm2	226	mm2	0,06
Mzd:max	17,63	kN.m	13	mm2	226	mm2	0,06

$N_{d:max} / f_{yd}$
$N_{d:min} / f_{yd}$

Zie pg. 8&9 voor berekening nieuwe balk.



Koppeling nieuw aan bestaande balk: Mast 146&147

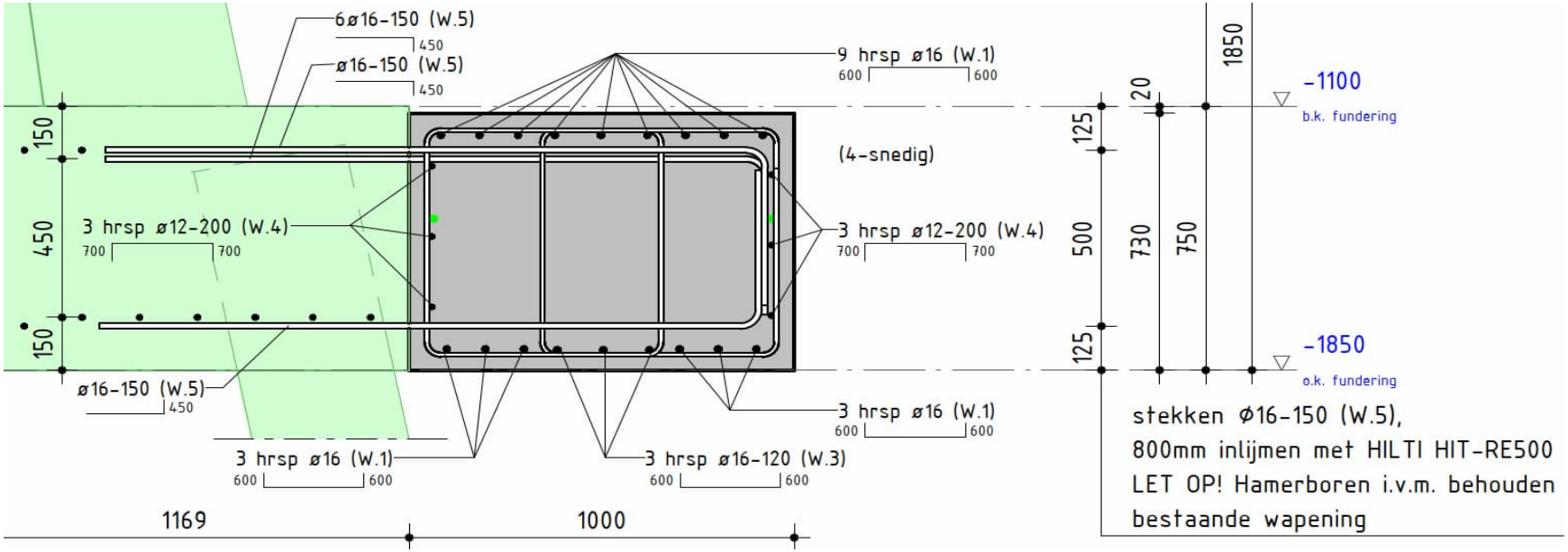
hoogte	breedte	Stekken (1000mm)			Feb:		
		h.o.h.	Ø				feb500
750	1000	150	16	mm			435
			1676	mm2/m1			

Fd:paal druk -491,2 kN
trek 189,6 kN
Excentrisiteit paal 0,875 m

		As:ben		As:aanw		U.C. As
Md:druk	-429,82 kN.m	1651	mm2	1676	mm2	0,99
Md:trek	165,94 kN.m	678	mm2	1676	mm2	0,40

Zie pg. 5 voor toets stortvlak capaciteit

Eff breedte 1,25 m



c	0,4	
f_{ctd}	1,333	N/mm2
μ	0,7	
σ_n	0,001	N/mm2
ρ	0,002	
f_{yd}	500	N/mm2
α	90	graden
v	0,528	
f_{cd}	20	N/mm2
0,6 * f_{cd}	12	N/mm2
V_{Rdi}	1,177	N/mm2
0,5 * v * f_{cd}	5,280	N/mm2
α_{ct}	1	
$f_{ctk:0,05}$	2	N/mm2
γ_C	1,5	

0 bij trek

normatief

$$f_{ctd} = \alpha_{ct} f_{ctk,0,05} / \gamma_C$$ 3.16

$$\sigma_n < 0,6 f_{cd}$$

$$\nu = 0,6\left[1 - \frac{f_{ck}}{250}\right]$$ (f_{ck} in MPa) 6.6N

$$f_{cd} = \alpha_{cc} f_{ck} / \gamma_C$$ 3.15

$$v_{Rdi} = c f_{ctd} + \mu \sigma_n + \rho f_{yd} (\mu \sin \alpha + \cos \alpha) \leq 0,5 \nu f_{cd}$$ 6.25

Weerstand stortvlak balkrooster

A_s	1675	mm2
A_i	912500	mm2
b = b_i	1250	mm
h	730	mm
f_{ck}	30	N/mm2

α_{cc}	1	
sin α	1	
cos α	0	
axiale druk	1	kN

normatief

β	1	
V_{Ed}	491,22	kN
z	657	mm
V_{Edi}	0,598	N/mm2

$$z = 0,9 d$$

$$v_{Edi} = \beta V_{Ed} / (z b_i)$$ 6.24

U.C.	0,51	$v_{Edi} \leq v_{Rdi}$	6.23

NEN-EN 1992-1-1+C2:2011

Wap. toets best. balk My + Vz

A_s	2281	mm^2
f_{yd}	400	N/mm^2
b | b_w	900	mm
f_{cd}	20	N/mm^2
h	750	mm
Ø	22	mm
dekking	30	mm
d	709	mm

z	2000	mm
0,9 * d	638,1	mm
0,6 x l	5100	mm

$F_{d\ druk}$	491,22	kN
l	8,5	m

M_{Ed}	371,9	kN.m
V_{Ed}	353,03	kN

toets	3369,168	kN

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ — 6.1 (10)

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ — 6.5

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

k	1,53		2
ρ_l	0,0036		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,363		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$ — 6.2.2(1) / 6.3N / 6.10.aN / 6.2.3(3) / 6.2.2(1)

$V_{Rd,c}$	258,54	kN
	231,76	kN

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ — 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ — 6.2.b

$A_{s:Md:ben}$	1675	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ — 6.1 (10)

UC $M_{d,wap.}$	0,73

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	2376,25	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ — 6.9

$V_{Rd,s}$	141	kN
Ø	8	mm
s	250	mm
snedes	2	stuks
opp	402	mm^2/m
θ	21,8	graden
cot θ	3	
tan θ	0	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ — 6.8

UC $V_{d,wap.}$	0,88	beton

NEN-EN 1992-1-1+C2:2011

Wap. toets best. balk Mx + Vy

A_s	1678	mm^2
f_{yd}	400	N/mm^2
b | b_w	750	mm
f_{cd}	20	N/mm^2
h	900	mm
Ø	22	mm
dekking	30	mm
d	859	mm

z	2060	mm
0,9 * d	773,1	mm
0,6 x l	5100	mm

$F_{d\ druk}$	107,28	kN
l	8,5	m

M_{Ed}	417,7	kN.m
V_{Ed}	30,52	kN

toets	3401,64	kN

k	1,48		2
ρ_l	0,0026		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,346		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$V_{Rd,c}$	227,43	kN
	222,94	kN

$A_{s:Md:ben}$	1553	mm^2

UC $M_{d,wap.}$	0,93

$V_{Rd,max}$	2399,15	kN

$V_{Rd,s}$	171	kN
Ø	8	mm
s	250	mm
snedes	2	stuks
opp	402	mm^2/m
θ	21,8	graden
cot θ	3	
tan θ	0	

UC $V_{d,wap.}$	0,08

beton

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

6.2.2(1)

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$ 6.3N

6.10.aN

6.2.3(3)

6.2.2(1)

$$V_{Rd,c} = [C_{Rd,c}\,k(100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1\sigma_{cp})\,b_w d$$ 6.2.b

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,v_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ 6.8

NEN-EN 1992-1-1+C2:2011

Wap. toets nieuw balk My + Vz

A_s	1809	mm^2
f_{yd}	500	N/mm^2
b | b_w	1000	mm
f_{cd}	20	N/mm^2
h	730	mm
Ø	16	mm
dekking	45	mm
d	677	mm

z	992	mm
0,9 * d	609,3	mm
0,6 x l	2100	mm

$F_{d\ druk}$	491,22	kN
l	3,5	m

M_{Ed}	103,2	kN.m
V_{Ed}	81,14	kN

toets	3574,56	kN

k	1,54		2
ρ_l	0,0027		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,368		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$V_{Rd,c}$	250,96	kN
	248,88	kN

$A_{s:Md:ben}$	389	mm^2

UC $M_{d,wap.}$	0,22

$V_{Rd,max}$	2521,11	kN

$V_{Rd,s}$	379	kN
Ø	12	mm
s	200	mm
snedes	4	stuks
opp	2262	mm^2/m
θ	21,8	graden
cot θ	3	
tan θ	0	

UC $V_{d,wap.}$	0,13

beton

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$ 6.2.2(1) 6.3N 6.10.aN 6.2.3(3) 6.2.2(1)

$$V_{Rd,c} = [C_{Rd,c} k (100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1 \sigma_{cp})\,b_w d$$ 6.2.b

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\cot\theta$$ 6.8

NEN-EN 1992-1-1+C2:2011

Wap. toets nieuw balk Mx + Vy

A_s	741	mm^2
f_{yd}	500	N/mm^2
b | b_w	730	mm
f_{cd}	20	N/mm^2
h	1000	mm
Ø	16	mm
dekking	45	mm
d	947	mm

z	1100	mm
0,9 * d	852,3	mm
0,6 x l	2100	mm

$$z = 0{,}2\,l + 0{,}4\,h \le 0{,}6\,l$$ 6.1 (10)

$F_{d\ druk}$	4,89	kN
l	3,5	m

M_{Ed}	54,3	kN.m
V_{Ed}	4,89	kN

toets	3650,1168	kN

$$V_{Ed} \le 0{,}5\,b_w d\,\nu\,f_{cd}$$ 6.5

k	1,46		2
ρ_l	0,0011		0,02
σ_{cp}	0,0	N/mm^2	
$C_{Rd,c}$	0,12		N.B.
v_{min}	0,338		
v_1	0,600		
α_{cw}	1,000		N.B.
k_1	0,15		normatief

$$k = 1 + \sqrt{\frac{200}{d}} \le 2{,}0 \qquad \rho_l = \frac{A_{sl}}{b_w d} \le 0{,}02$$

6.2.2(1)

$$v_{min} = 0{,}035\,k^{3/2} \cdot f_{ck}^{1/2}$$ 6.3N

6.10.aN

6.2.3(3)

6.2.2(1)

$V_{Rd,c}$	178,72	kN
	233,69	kN

$$V_{Rd,c} = [C_{Rd,c}k(100\,\rho_l f_{ck})^{1/3} + k_1\,\sigma_{cp}]\,b_w d$$ 6.2.a

$$V_{Rd,c} = (v_{min} + k_1\sigma_{cp})\,b_w d$$ 6.2.b

$A_{s:Md:ben}$	146	mm^2

$$M_{Rd} = z\,A_s\,f_s$$ 6.1 (10)

UC $M_{d,wap.}$	0,20

$$A_{s:ben} = M_d / 0{,}87 * f_{yd} * z$$

$V_{Rd,max}$	2574,40	kN

$$V_{Rd,max} = \alpha_{cw}\,b_w\,z\,\nu_1\,f_{cd}/(\cot\theta + \tan\theta)$$ 6.9

$V_{Rd,s}$	530	kN
Ø	12	mm
s	200	mm
snedes	2	stuks
opp	1131	mm^2/m
θ	21,8	graden
cot θ	3	
tan θ	0	

$$V_{Rd,s} = \frac{A_{sw}}{s}\,z\,f_{ywd}\,\cot\theta$$ 6.8

UC $V_{d,wap.}$	0,01	beton

NEN-EN 1992-1-1+C2:2011

Project : KIJ - BVW De Ronde Venen
Onderdeel : Vd + Td
Datum : 26/03/2026
Eenheden : kN/m/rad

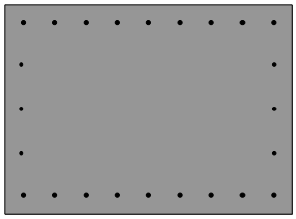
Toegepaste normen volgens Eurocode met Nederlandse NB

Belastingen	NEN-EN 1990:2002	C2:2010,A1:2019	NB:2019(nl)
	NEN-EN 1991-1-1:2002	C1/C11:2019	NB:2019(nl)
Beton	NEN-EN 1992-1-1:2011(nl)	C2/A1:2020(nl)	NB:2016(nl)

Dwarskracht en wringing. Nieuw

GEOMETRIE

Elementtype : Balk
Betonkwaliteit : C30/37
Soort spanningsrekdiagram : Parabolisch - rechthoekig diagram
Doorsnedevorm : Rechthoek
Afmetingen : b=1000 h=730
Referentieperiode : 50 jaar



WAPENING

Staalkwaliteit : B500B
Soort spanningsrekdiagram : Bi-lineair diagram met klimmende tak
Toevallige inklemming : nee

	Boven	Onder
Toegepaste wapening :	9x16	9x16
Breedte stortsleuf :	50	
	Links	Rechts
Toegepaste wapening :	3x12	3x12

Betondekking	Boven	Onder
Milieu :	XC3	XC3
Gestort tegen bestaand beton :	Nee	Nee
Element met plaatgeometrie :	Nee	Nee
Specifieke kwaliteitsbeheersing :	Nee	Nee
Oneffen beton oppervlak :	Nee	Nee
Ondergrond :	Glad / N.v.t.	Glad / N.v.t.
Constructieklasse :	S4	S4
Grootste korrel :	31.5	
Hoofdwapening :	2de laag	2de laag
Nominale dekking :	30	30
Toegepaste dekking :	57	57
Gelijkwaardige diameter :	16	16

$C_{min,b}$	$C_{min,dur}$	ΔC_{dur}						
C_{min}	ΔC_{dev}	C_{nom}						
:	16	25	0	16	25	0		
:	25	5	30	25	5	30		

Project : KIJ - BVW De Ronde Venen
Onderdeel : Vd + Td
Datum : 26/03/2026
Eenheden : kN/m/rad

Betondekking		Boven			Onder		
Beugel / Verdeelwapening	:	1ste laag			1ste laag		
Nominale dekking	:	30			30		
Toegepaste dekking	:	45			45		
Gelijkwaardige diameter	:	12			12		
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	12	25	0	12	25	0
C_{min} ΔC_{dev} C_{nom}	:	25	5	30	25	5	30

Betondekking		Links			Rechts		
Milieu	:	XC3			XC3		
Gestort tegen bestaand beton	:	Nee			Nee		
Element met plaatgeometrie	:	Nee			Nee		
Specifieke kwaliteitsbeheersing	:	Nee			Nee		
Oneffen beton oppervlak	:	Nee			Nee		
Ondergrond	:	Glad / N.v.t.			Glad / N.v.t.		
Constructieklasse	:	S4			S4		
Grootste korrel	:	31.5					
Hoofdwapening	:	2de laag			2de laag		
Nominale dekking	:	30			30		
Toegepaste dekking	:	52			57		
Gelijkwaardige diameter	:	12			12		
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	12	25	0	12	25	0
C_{min} ΔC_{dev} C_{nom}	:	25	5	30	25	5	30
Beugel / Verdeelwapening	:	1ste laag			1ste laag		
Nominale dekking	:	30			30		
Toegepaste dekking	:	40			45		
Gelijkwaardige diameter	:	12			12		
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	12	25	0	12	25	0
C_{min} ΔC_{dev} C_{nom}	:	25	5	30	25	5	30

Minimale beugelafstand : 130 Theta [graden] : 45.0
Uitg.p. inw.hefboomsarm z : MRd

BELASTING

NEd	[kN]:	31.4	MEd	[kNm]:	118.5
VEd	[kN]:	34.3	TEd	[kNm]:	91.5
Q-permanent	[kN/m]:	0.0	Gamma-permanent	:	1.00
Q-veranderlijk	[kN/m]:	0.0	Gamma-veranderlijk	:	1.00
L	[m]:	3.5	X	[m]:	0.0

RESULTATEN

Beugeldiameter	[mm]:	12		z	[mm]	:	556.70
Trekzijde	:	Boven		Wapeningsverhouding		:	0.00272
Dwarskracht				Wringing			
$V_{Rd,max}$	[kN]:	2939.39		$T_{Rd,max}$	[kNm]	:	912.39
V_{Ed}	[kN]:	34.28		T_{Ed}	[kNm]	:	91.45
$V_{Rd,c}$	[kN]:	244.50		$T_{RD,c}$	[kNm]	:	233.57
A-opg	[mm^2/m]:	0.00		A-langs	[mm^2]	:	0.00
A-bgl	[mm^2/m]:	0.00		A-bgl	[mm^2/m]	:	0.00
H.o.h. afstand	[mm]:	200.0		Aant. beugelsneden/drsn		:	4
$V_{Rd,s}$	[kN]:	547.49		$T_{Rd,bgl}$	[kNm]	:	201.37
				$T_{Rd,langs}$	[kNm]	:	334.78
V_{Ed}	[kN]:	34.3	<	V_{Rd}	[kN]	:	547.5
T_{Ed}	[kNm]:	91.4	<	T_{Rd}	[kNm]	:	233.6
M_{Ed}	[kNm]:	118.5	<	M_{Rd}	[kNm]	:	617.0

Project : KIJ - BVW De Ronde Venen
Onderdeel : Vd + Td
Datum : 26/03/2026
Eenheden : kN/m/rad

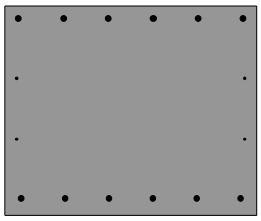
Opmerkingen

[8] * = Eisen met betrekking tot minimum wapening zijn toegepast, zie art. 9.2.1.1(1)

Dwarskracht en wringing. Bestaand

GEOMETRIE

Elementtype : Balk
Betonkwaliteit : C30/37
Soort spanningsrekdiagram : Parabolisch - rechthoekig diagram
Doorsnedevorm : Rechthoek
Afmetingen : b=900 h=750
Referentieperiode : 50 jaar



WAPENING

Staalkwaliteit : B400B
Soort spanningsrekdiagram : Bi-lineair diagram met klimmende tak
Toevallige inklemming : nee

		Boven	Onder
Toegepaste wapening	:	6x22	6x22
Breedte stortsleuf	:	50	
		Links	Rechts
Toegepaste wapening	:	2x10	2x10

Betondekking		Boven	Onder
Milieu	:	XC3	XC3
Gestort tegen bestaand beton	:	Nee	Nee
Element met plaatgeometrie	:	Nee	Nee
Specifieke kwaliteitsbeheersing	:	Nee	Nee
Oneffen beton oppervlak	:	Nee	Nee
Ondergrond	:	Glad / N.v.t.	Glad / N.v.t.
Constructieklasse	:	S4	S4
Grootste korrel	:	31.5	
Hoofdwapening	:	2de laag	2de laag
Nominale dekking	:	30	30
Toegepaste dekking	:	38	48
Gelijkwaardige diameter	:	22	22
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	22 25 0	22 25 0
C_{min} ΔC_{dev} C_{nom}	:	25 5 30	25 5 30
Beugel / Verdeelwapening	:	1ste laag	1ste laag
Nominale dekking	:	30	30
Toegepaste dekking	:	30	40
Gelijkwaardige diameter	:	8	8
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	8 25 0	8 25 0
C_{min} ΔC_{dev} C_{nom}	:	25 5 30	25 5 30

Project : KIJ - BVW De Ronde Venen
Onderdeel : Vd + Td
Datum : 26/03/2026
Eenheden : kN/m/rad

Betondekking		Links			Rechts		
Milieu	:	XC3			XC3		
Gestort tegen bestaand beton	:	Nee			Nee		
Element met plaatgeometrie	:	Nee			Nee		
Specifieke kwaliteitsbeheersing	:	Nee			Nee		
Oneffen beton oppervlak	:	Nee			Nee		
Ondergrond	:	Glad / N.v.t.			Glad / N.v.t.		
Constructieklasse	:	S4			S4		
Grootste korrel	:	31.5					
Hoofdwapening	:	2de laag			2de laag		
Nominale dekking	:	30			30		
Toegepaste dekking	:	38			38		
Gelijkwaardige diameter	:	10			10		
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	10	25	0	10	25	0
C_{min} ΔC_{dev} C_{nom}	:	25	5	30	25	5	30
Beugel / Verdeelwapening	:	1ste laag			1ste laag		
Nominale dekking	:	30			30		
Toegepaste dekking	:	30			30		
Gelijkwaardige diameter	:	8			8		
$C_{min,b}$ $C_{min,dur}$ ΔC_{dur}	:	8	25	0	8	25	0
C_{min} ΔC_{dev} C_{nom}	:	25	5	30	25	5	30

Minimale beugelafstand : 130 Theta [graden] : 45.0
Uitg.p. inw.hefboomsarm z : MRd

BELASTING

NEd	[kN]:	-48.2	MEd	[kNm]:	205.4
VEd	[kN]:	61.0	TEd	[kNm]:	215.1
Q-permanent	[kN/m]:	0.0	Gamma-permanent	:	1.00
Q-veranderlijk	[kN/m]:	0.0	Gamma-veranderlijk	:	1.00
L	[m]:	3.5	X	[m]:	0.0

RESULTATEN

Beugeldiameter	[mm]:	8		z	[mm] :	634.33	
Trekzijde	:	Boven		Wapeningsverhouding	:	0.00362	
Dwarskracht				Wringing			
$V_{Rd,max}$	[kN]:	3014.33		$T_{Rd,max}$	[kNm] :	819.37	
V_{Ed}	[kN]:	60.96		T_{Ed}	[kNm] :	215.14	
$V_{Rd,c}$	[kN]:	263.85		$T_{RD,c}$	[kNm] :	209.76	
A-opg	[mm^2/m]:	0.00		A-langs	[mm^2] :	2023.35	
A-bgl	[mm^2/m]:	276.29		A-bgl	[mm^2/m] :	815.27	
H.o.h. afstand	[mm]:	250.0		Aant. beugelsneden/drsn	:	2	
$V_{Rd,s}$	[kN]:	0.00		$T_{Rd,bgl}$	[kNm] :	16.60	
				$T_{Rd,langs}$	[kNm] :	222.18	
V_{Ed}	[kN]:	61.0	<	V_{Rd}	[kN] :	61.0	
TEd	*[kNm]:*	*215.1*	*>*	*TRd*	*[kNm] :*	*16.6*	
MEd	*[kNm]:*	*205.4*	*>*	*MRd*	*[kNm] :*	*94.9*	

LET OP:
(148) 50% dwarskrachtwapening moet bestaan uit beugels

LET OP:
(151) Er zijn onvoldoende beugelstaven per doorsnede toegepast. Zie art. 9.2.2 (8).

Onvoldoendes door detaillering regels

Project : KIJ - BVW De Ronde Venen
Onderdeel : Vd + Td
Datum : 26/03/2026
Eenheden : kN/m/rad

Opmerkingen

[145] De toegepaste dwarskrachtwapening A.sw.toeg = 402.1 mm2/m is kleiner dan de minimale dwarskrachtwapening A.sw.min = 985.9 mm2/m (art. 9.2.2(5))

[132] De h.o.h.-afstand 130.0 mm van de beugels is groter dan 102.0 mm (art. 9.2.2(5))

[168] De h.o.h.-afstand 250.0 mm van de beugels is groter dan 102.0 mm (art. 9.2.3(3))

[8] * = Eisen met betrekking tot minimum wapening zijn toegepast, zie art. 9.2.1.1(1)

BIJLAGE 18
Meridian kenmerk C1704332

Cilind 75 F3	Mast S+0	Mast S+0 134	Mast S+6
LD1 Rd druk	797	1076	1076
LD1 Rd trek	-193	-285	-285,00
LEKA Rd druk	301,25	310,94	198,86
LEKA Rd trek	-125,25	-65,84	-99,37
Poer Nd druk	-893,53	-999,86	-945,51
Poer Nd trek	694,89	773,58	726,99
Poer Vz druk	-32,89	-38,27	-39,04
Poer Vz trek	41,83	52,41	48,69
Poer Mx max	0	0	0
Poer Mx min	0	0	0
Poer My max	-43,68	-62,65	-51,13
Poer My min	43,83	62,56	52,45
Poer Mz max	-61,23	-77,74	-71,93
Poer Mz min	48,63	57,74	58,22
Balk Nd druk	-8,89	-10,4	-10,15
Balk Nd trek	8,70	10,29	9,97
Balk Vz druk	-230,29	-204,72	-184,09
Balk Vz trek	229,05	202,74	185,18
Balk Mx max	-67,70	-62,5	-62,5
Balk Mx min	67,04	63,62	63,62
Balk My max	-290,00	-245,77	-194,02
Balk My min	288,37	243,42	192,56
Balk Mz max	-38,33	-18,73	-18,39
Balk Mz min	79,24	75,89	75,92

Ringbalk F5	Mast 146	Mast 147
BP Rd druk	237,2	74,91
BP Rd trek	-42,17	-35,54
LEKA Rd druk	242,82	491,22
LEKA Rd trek	-158,99	-189,64
B.balk Nd druk	-107,28	-90,32
B.balk Nd trek	52,82	96,52
B.balk Vz druk	-224,3	-348,03
B.balk Vz trek	228,27	353,03
B.balk Mx max	-146,8	-215,1
B.balk Mx min	145,82	214,65
B.balk My max	-179,57	-191,88
B.balk My min	145,35	371,87
B.balk Mz max	-62,09	-57,57
B.balk Mz min	62,93	58,09
Balk Nd druk	-40,63	-32,16
Balk Nd trek	25,54	32,16
Balk Vz druk	-68,71	-80,48
Balk Vz trek	67,9	81,14
Balk Mx max	-35,88	-91,45
Balk Mx min	36,28	91,22
Balk My max	-85,73	-103,16
Balk My min	60,34	142,5
Balk Mz max	-17,73	-15,17
Balk Mz min	17,63	15,09

kop.frame F5	Mast 144
LD1 Rd druk	849
LD1 Rd trek	-236
LEKA Rd druk	377,55
LEKA Rd trek	-91,96
Poer Nd druk	-1032,9
Poer Nd trek	781,65
Poer Vz druk	-103,1
Poer Vz trek	116,79
Poer Mx max	-10,5
Poer Mx min	10,3
Poer My max	-209,53
Poer My min	154,43
Poer Mz max	-142,33
Poer Mz min	123,73
Balk Nd druk	-8,97
Balk Nd trek	8,97
Balk Vz druk	-281,8
Balk Vz trek	294,6
Balk Mx max	-18,88
Balk Mx min	18,91
Balk My max	-156,22
Balk My min	189,49
Balk Mz max	-6,46
Balk Mz min	6,47

Blokpoer 2xLD1 F5	Mast 148
LD1 Rd druk	856
LD1 Rd trek	-196
LEKA Rd druk	491,38
LEKA Rd trek	-402
Balk Nd druk	-187,42
Balk Nd trek	65,92
Balk Vz druk	-422,94
Balk Vz trek	778,1
Balk Mx max	-31,51
Balk Mx min	31,47
Balk My max	-162,1
Balk My min	355,07
Balk Mz max	-12,16
Balk Mz min	12,17
Balk Nd druk	-7,25
Balk Nd trek	7,28
Balk Vz druk	-492,42
Balk Vz trek	536,47
Balk Mx max	-33,62
Balk Mx min	33,61
Balk My max	-532,70
Balk My min	334,7
Balk Mz max	-17,69
Balk Mz min	17,70

BIJLAGE 19
Meridian kenmerk C1704333

Toegepast

Voorschriften : NEN-EN 1990 - serie

Beton, bestaand: K225, ≙ C16/20 bij t=∞
1.p.v. t=28 dagen

Staal : S-355

Lijmankers : Hilti HZA M27
lijm: HIT-RE-500 V4

Betonstaal bestaand : Fe B 400

Inhoud

Verdeling belasting bestaand - nieuw	1
Versterking voetplaat	2-5
Lijmankers	6-7
Opname horizontale belasting	8-9
Controle wapening in bestaande beton kolom	10

Bijlage : Hilti lijmankers

SWECO

AFDELING: .....

WERK: Roode Venen

ONDERDEEL: bijlage versterking masten 146-147

ORDERNUMMER: .....

BLAD: .....

OPSTELLER: ..... PARAAF: ..... DATUM: .....

verdeling belasting bestaand - nieuw

* Combinatie met Trek

$F_{t,Ed} = 822$ kN

$F_{t,Rd,paal} = 37$ kN (bestaand)

$F_{t,Rd,verankering} = 702$ kN

- Trek belasting nieuwe stalen versterking

$F_{t,Ed}$: reken $\frac{2}{3} \times 822 = 548$ kN op nieuwe ankers, dus de 2 bestaande ankers krijgen dezelfde belasting als de 4 nieuwe ankers. $F_{t,Ed} = \frac{548}{4} = 137$ kN per anker (bestaand en nieuw)

- Horizontale belasting

$F_{h,Ed} = 193$ kN : volledig op nieuwe versterking.

* Combinatie met druk

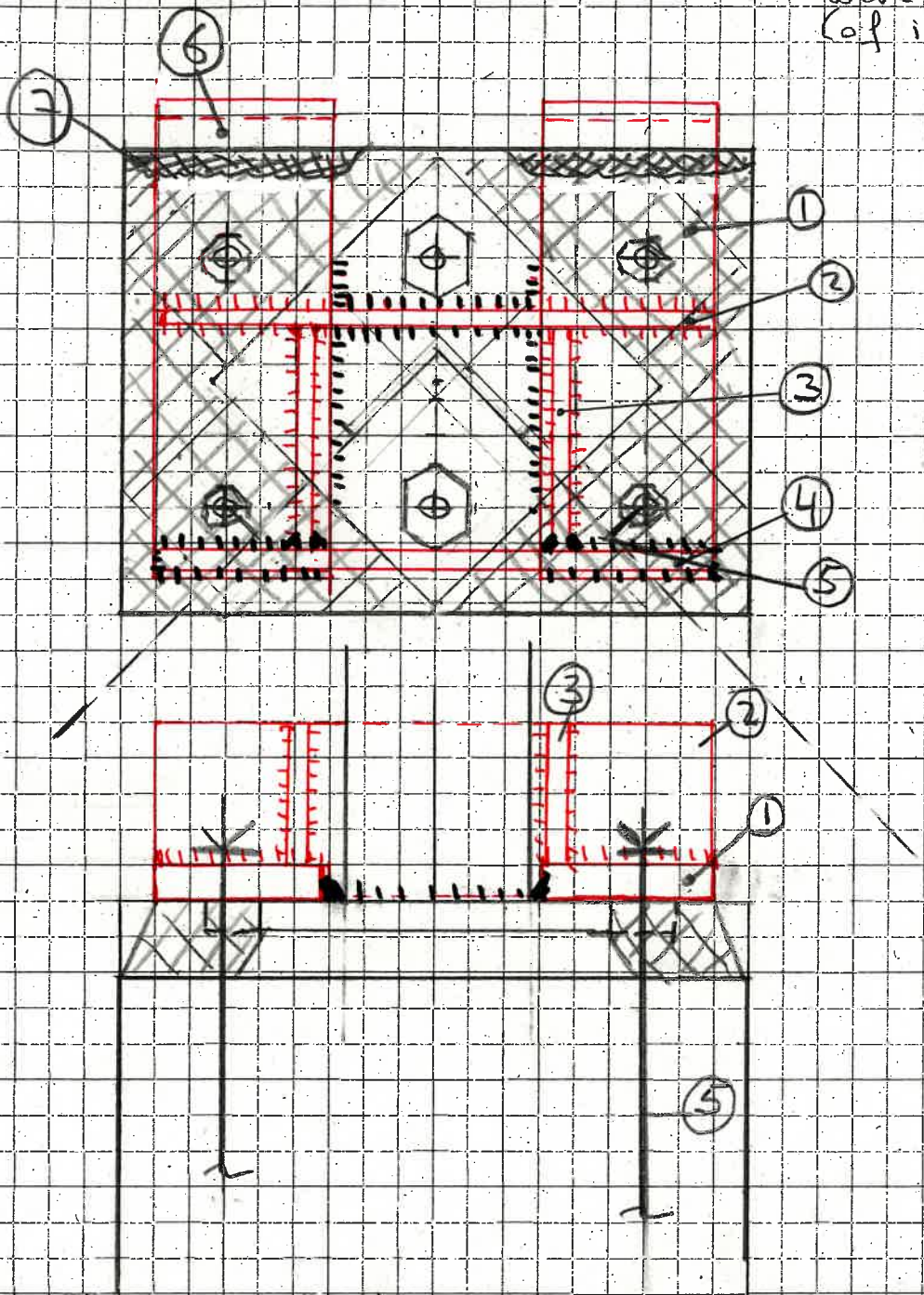
$N_{Ed} = 1030$ kN : kan door bestaande verankering worden opgenomen

$F_{h,Ed} = 255$ kN : verdeling : zie bld 9

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: Versterking mast 146 - 147, belastingen	ORDERNUMMER: BLAD: 1
	OPSTELLER:	PARAAF:	DATUM:

lassen a=6 — = lassen in het wat

S-355 — = lassen in werkplaats (of in het werk)



①	≠	40 x 250 L=550	(2x)
②	≠	35 x 200 L=800	(1x)
③	≠	20 x 150 L in het werk bepalen	(2x)
④	≠	20 x 200 L=800	(1x)
⑤	Hilti lijmankers, zie blad		(4x)

SWECO

AFDELING:

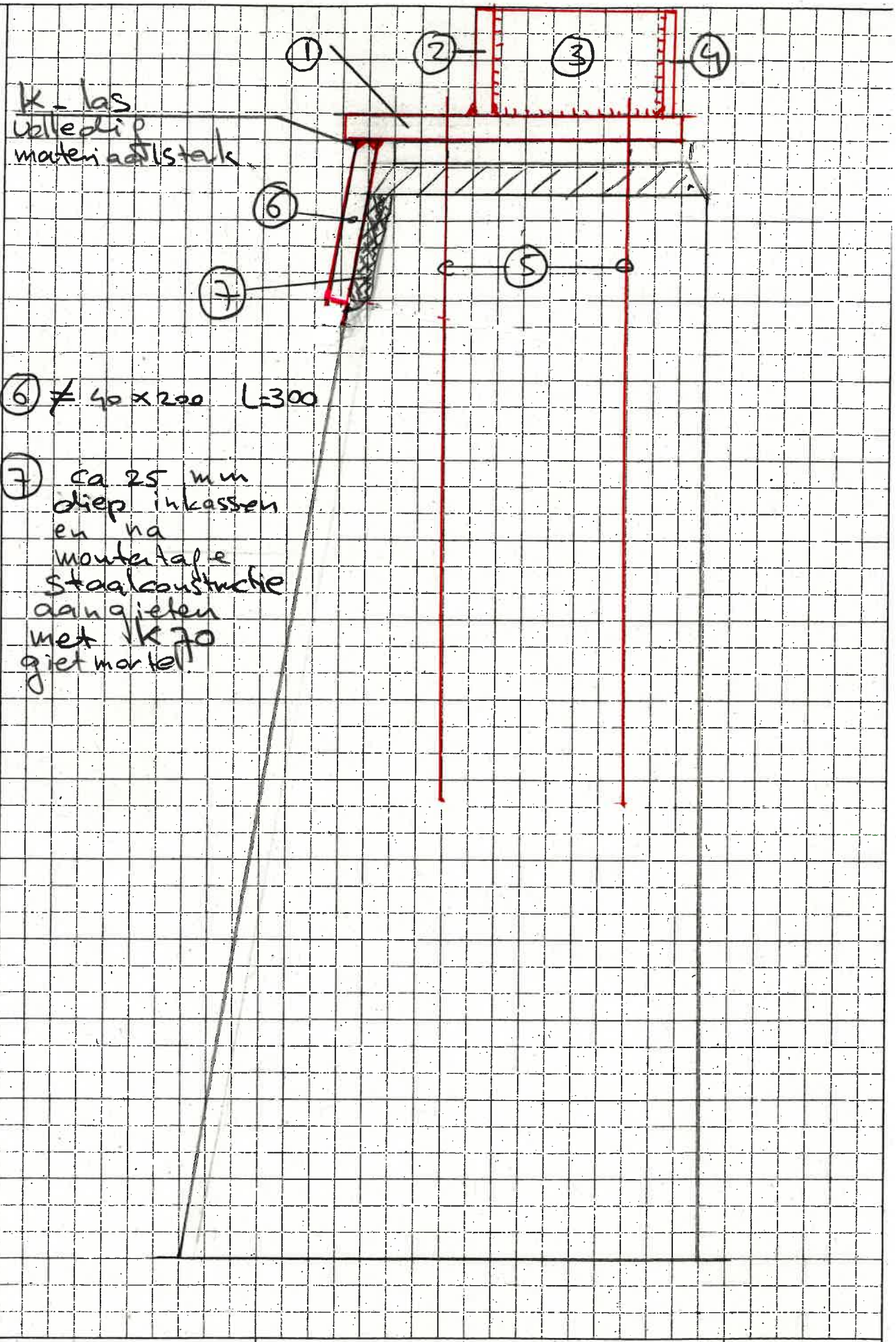
WERK: Ronde Venen

ONDERDEEL: Versterking mast 146, 147

ORDERNUMMER:

BLAD: 2

OPSTELLER: PARAAF: DATUM:



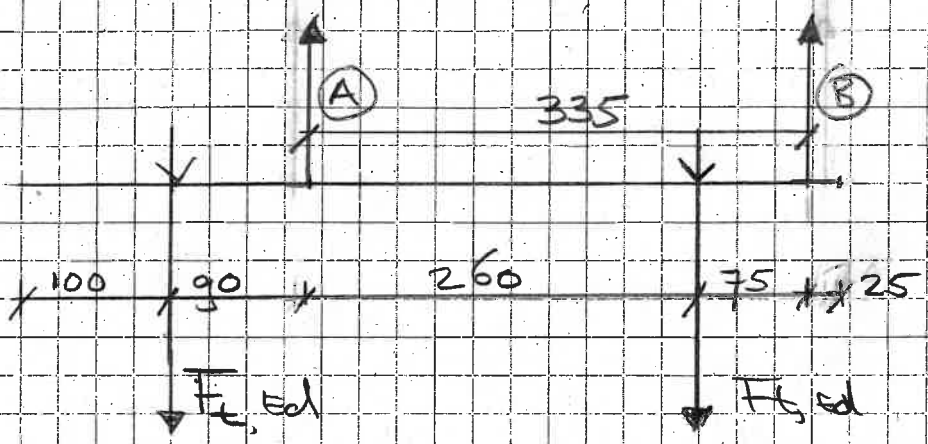
HK - las volledig materiaal/staal

⑥ ≠ 40 x 200 L=300

⑦ ca 25 mm diep inkassen en na montage/afe staalconstructie aangieten met ↓K70 gietmortel

SWECO	AFDELING:	ORDERNUMMER:
	WERK: Ronde Venen	
	ONDERDEEL: versterking mast 146, 147	BLAD: 3
	OPSTELLER: PARAAF: DATUM:	

① nieuwe voetplaat t=40 op bestaande voetplaat



$F_{t,Ed} = 822/6 = 137$ kN

$R_{(A),Ed} = 137 \times (425+75)/335 = 205$ kN

$R_{(B),Ed} = 137 \times (260-90)/335 = 70$ "

$M_{Ed,max} = 137.000 \times 90 = 12,33$ kNm

$l_{eff} = 200$ mm , $t = 40$ mm

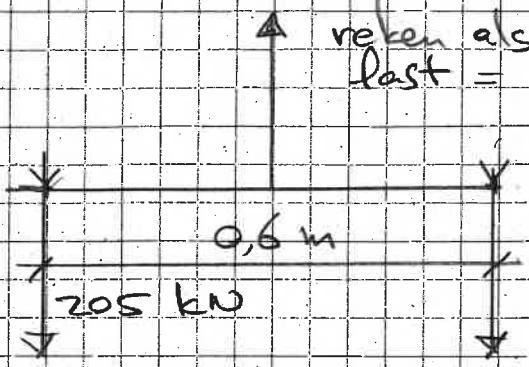
$\sigma_{b,Ed} = \frac{12,33 \times 10^6 \times 6}{200 \times 40^2} = 231$ N/mm²

kies staal S355 $f_{yd} = 355$ "

$\gamma_c = 0,65$

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: versterking mast 146, 147	ORDERNUMMER: BLAD: 4
	OPSTELLER:	PARAAF:	DATUM:

② versterking schot ≠ 35 x 200



$M_{Ed} = 1/4 \times 410 \times 0{,}6 = 61{,}5$ kNm

$\sigma_b = \frac{61{,}5 \times 10^6 \times 6}{35 \times 200^2} = 264$ N/mm²

≤ 355 : $f_{yd} = 355$ N/mm² u.c = 0,74

③ versterking schot ≠ 20 x 150

$M_{Ed} = 2 \times M_{Ed}(①) = 2 \times 12{,}33 = 24{,}7$ kNm

$W = 1/6 \times 20 \times (150+40)^2 = 120 \times 10^3$ mm³

$\sigma_b = 205$ N/mm² u.c = 0,58

④ versterking schot ≠ 20 x 200

mech schema : principe als ② $F_{z,Ed} = 70$ kN

$M_{Ed} = 1/4 \times (2 \times 70) \times 0{,}6 = 21{,}0$ kNm

$\sigma_b = \frac{21{,}0 \times 10^6 \times 6}{20 \times 200^2} = 158$ N/mm²

≤ 355 : u.c = 0,44

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: versterking mast 146, 147	ORDERNUMMER: BLAD: 5
	OPSTELLER:	PARAAF:	DATUM:

(5) Controle wapenings deel ϕ28

$A_s = 615\ mm^2$

$F_{t,Rd} = 615 \times 0{,}500 / 1{,}15 = 268\ kN.$

$u.c = 137/268 = 0{,}51$

Controle schroefdraad deel M27

$A_s = 459\ mm^2$, controle EN 1993-1-8

$F_{t,Rd} = 0{,}9 \times k \times f_{yd} \times A_s / \gamma_M$

$= 0{,}9 \times 1{,}08 \times 0{,}500 \times 459 / 1{,}25 = 178\ kN$

vlgs Hilti $F_{t,Rd} = 253/1{,}4 = 181\ kN.$ (≈ gelijk)

$u.c = 137/178 = 0{,}77$

Controle aanhechting

C16/20 : $f_{bd} = 2{,}0\ N/mm^2$

$\sigma_{sd} = \frac{137.000}{615} = 223\ N/mm^2$

$f_{b,rqd} = \frac{223 \times 28}{4 \times 2{,}0} = 781\ mm.$

$c_d = \min\left\{150 - \frac{28}{2},\ \frac{300-28}{2}\right\} = 136\ mm.$

$\alpha_1 = 1{,}0 \qquad \alpha_2 = 1 - 0{,}15(136-28)/28 = 0{,}42$
$\alpha_2 < 0{,}7$

$\alpha_3 + \alpha_5 = 1{,}0 \qquad \alpha_6 = 1{,}5$

$l_a = 781 \times 0{,}7 \times 1{,}5 = 820\ mm$

SWECO

AFDELING: .....

WERK: Ronde Venen

ONDERDEEL: versteking mast 146, 147, lijmankers

ORDERNUMMER: .....

BLAD: 6

OPSTELLER: ..... PARAAF: ..... DATUM: .....

(5) Vervolg controle aanhechting.

afstand bestaande wapening – lijmanker

$= 100 + 50 + 170 \times \frac{1100}{1890} - 30 - 10 - 22 - \frac{28}{2} = 173$ mm.

max afstand volgens EN 2 8.7.2 toeslag $l_{0,extra} = \frac{50}{123}$ " "

$l_{0,totaal} = 820 + 123 = 943$ mm.

aanwezige $l_0 = 1100$ mm. $\mu_c = 0{,}86$

SWECO	AFDELING:	WERK: Ronde Venen	ORDERNUMMER:
		ONDERDEEL: versterking mast 146, 147	BLAD: 7
	OPSTELLER:	PARAAF:	DATUM:

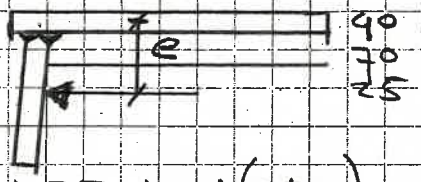
⑥ Hoogte drukzone $N_{ed} = 822$ (↑) + $H_{ed} = 193$

$f_{cd} = 16/1{,}5 = 10{,}67$ N/mm²

$x = 99.500 / (0{,}75 \times 200 \times 10{,}67) = 62$ mm

$y = 7/8 \times 62 = 24{,}2$ afgerond 25 mm

Moment plaat



$e = 40/2 + 70 + 25 + \Delta(=40) = 155$ mm

$M_{ed} = 99.500 \times 155 = 15{,}42 \times 10^6$ N mm

≠ 40 x 250 $\sigma_{b,ED} = \frac{15{,}42 \times 10^6 \times 6}{250 \times 40^2} = 231$ N/mm²

u.c. $= 231/355 = 0{,}65$

SWECO	AFDELING:	ORDERNUMMER:
	WERK: Rande Venen	
	ONDERDEEL: versterking mast 146-147 opname Hor. belasting	BLAD: 8
	OPSTELLER: PARAAF: DATUM:	

Opname H-krachten

⑥ combinatie met druk: plaat ⑥ niet effectief

$N_{c,Ed} = N_{Ed} = 1013,5$ kN.

$H_{Ed} = 255$ kN

$F_{f,Rd} = C_{f,d} \times N_{c,Ed} = 0,2 \times 1013,5 = 202,7$ kN.
(wrijving)

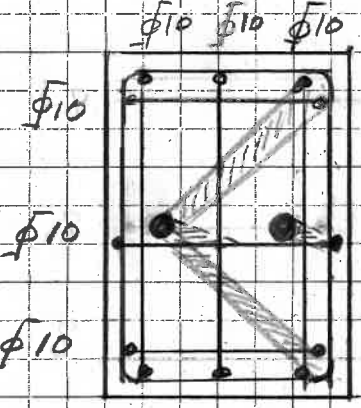
$F_{z,vb,Rd} = \alpha_{bc} f_{ub} A_s / \gamma_{M2}$

$= (0,44 - 0,0003 \times 235) \times 0,400 \times 2500 / 1,25$

$= 296$ kN /anker.

Staal afschuiving is niet maatgevend.

beton



beperk afschuifcapaciteit tot 4 ϕ10

$N_{s,Rd} = 314 \times 0,400 / 1,15 = 109$ kN

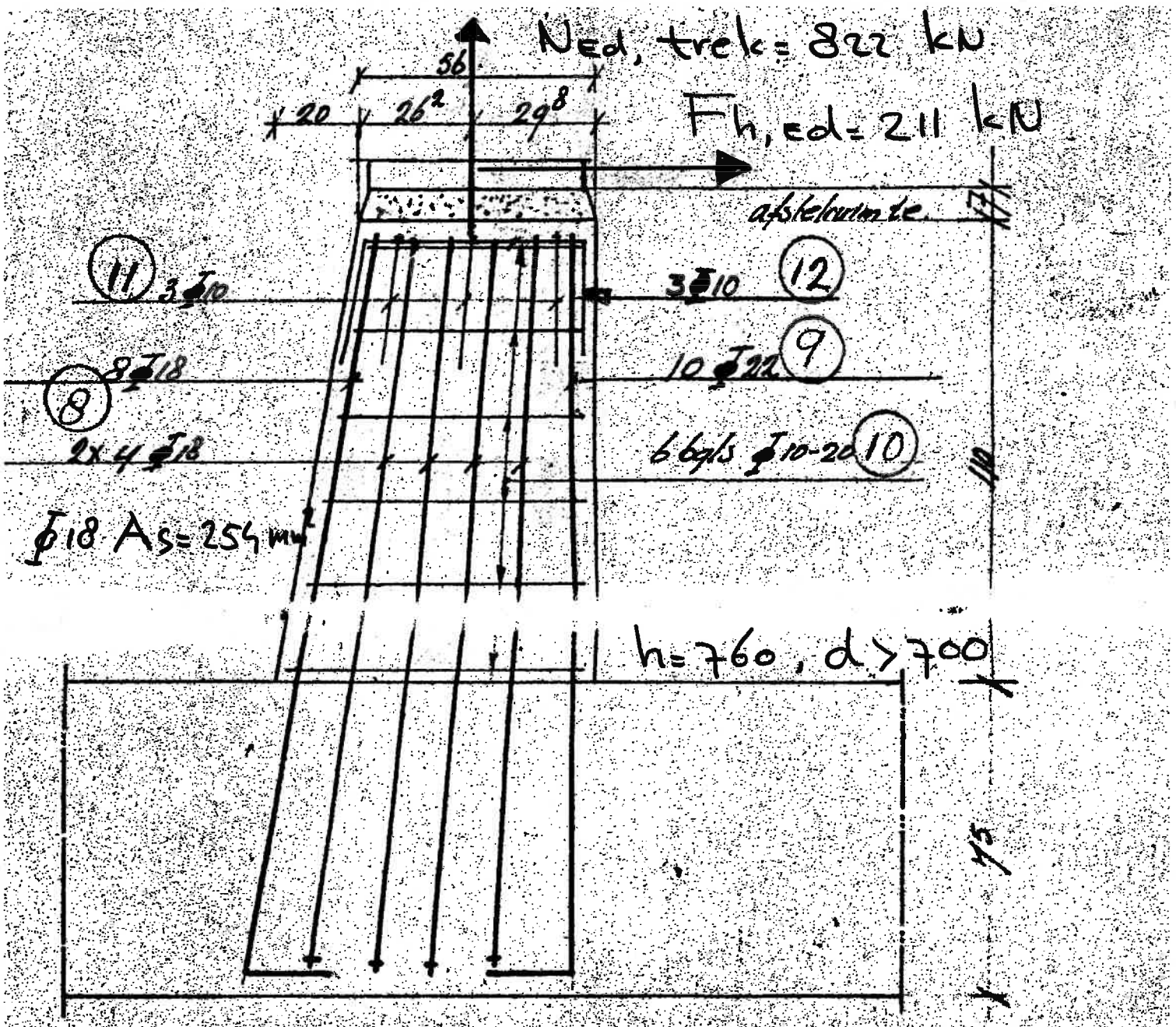
bgls ϕ10-200 (alleen bovenste anker)

totaal $F_{Rd} = 202,7 + 109 = 312$ kN.

$u.c = 255 / 312 = 0,82$

plaat ⑥ niet nodig aan binnen zijde voor H-krachten in combinatie met druk.

SWECO	AFDELING:	ORDERNUMMER:
	WERK: Ronde Venen	
	ONDERDEEL: Versterking mast 146-147 : Opname H-belasting	BLAD: 9
OPSTELLER:	PARAAF:	DATUM:



$M_{ed} = 211 \times 1{,}25 = 264$ kNm

$$\sigma_{sd} = \frac{822.000}{24 \times 254} + \frac{264}{0{,}9 \times 0{,}700 \times 8 \times 0{,}254}$$

$$= 135 + 206 = 341 \text{ N/mm}^2$$

$\therefore$ u.c. $= 341/348 = 0{,}98$

Reductie moment t.g.v excentriciteit Ned t.o.v. d.k. kolom. $e > 0{,}1$ m.

$M_{ed} = 264 - 0{,}1 \times 882 = 176$ kNm.

$\sigma_{sd} = 135 + 176/264 \times 206 = 272$ kNm

u.c. $= 272/348 = 0{,}78$

Centre Scientifique et
Technique du Bâtiment
84 avenue Jean Jaurès
CHAMPS-SUR-MARNE
F-77447 Marne-la-Vallée Cedex 2
Tél. : (33) 01 64 68 82 82
Fax : (33) 01 60 05 70 37

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European Technical Assessment

ETA-25/0448 dated 17/07/2025

English translation prepared by CSTB - Original version in French language

General Part

Technical Assessment Body issuing the European Technical Assessment:
Centre Scientifique et Technique du Batiment (CSTB)

Trade name:	**Injection system Hilti HIT-RE 500 V4 for rebar connection for 120 years working life**
Product family:	Post installed rebar connections diameter 8 to 40 mm made with Hilti HIT-RE 500 V4 injection mortar for a working life of 120 years
Manufacturer:	Hilti Aktiengesellschaft Feldkircherstrasse 100 9494 Schaan Fürstentum Liechtenstein
Manufacturing plants:	Hilti plants
This European Technical Assessment contains:	31 pages including 28 pages of annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 330087-02-0601-v01
This Assessment replaces:	-

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Dit is een samenvatting t.b.v. deze constructieve bijlage, geen volledige weergave van dit ETA document.

Installed condition

Figure A1:

Overlap joint with existing reinforcement for rebar connections of slabs and beams

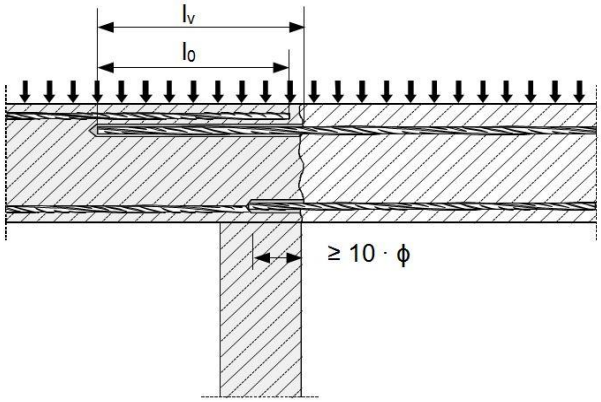


Figure A2:

Overlap joint with existing reinforcement at a foundation of a column or wall where the rebars are stressed in tension

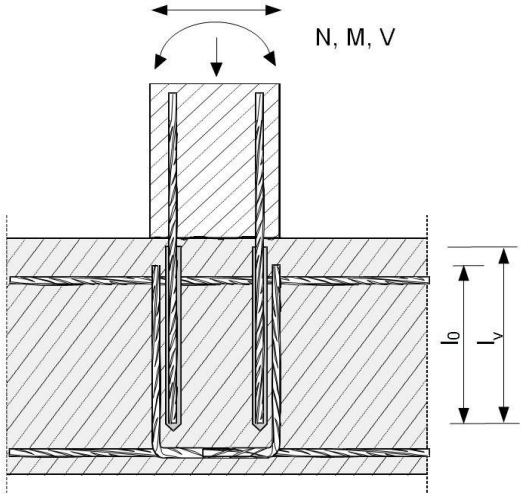
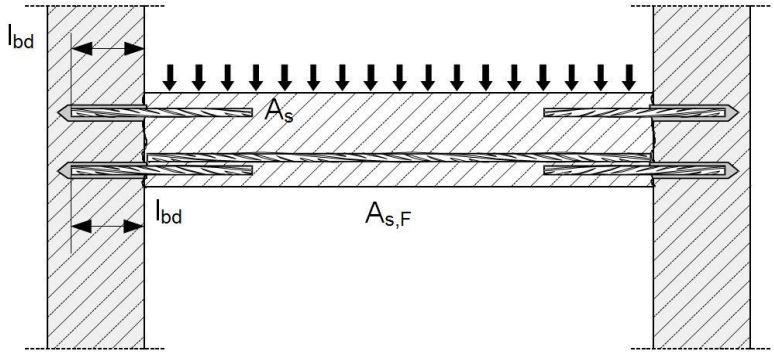


Figure A3:

End anchoring of slabs or beams



Injection system Hilti HIT-RE 500 V4	
Product description Installed condition: application examples of post-installed rebars	**Annex A1**

Product description: Injection mortar and steel elements

Injection mortar Hilti HIT-RE 500 V4: epoxy system with aggregate
330 ml, 500 ml and 1400 ml

Marking:
HILTI HIT
Product name
Production time and line
Expiry date mm/yyyy

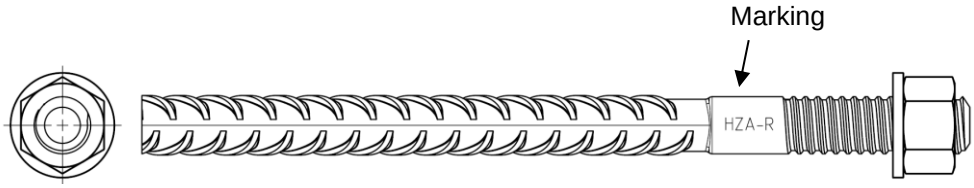


Product name: “Hilti HIT-RE 500 V4”

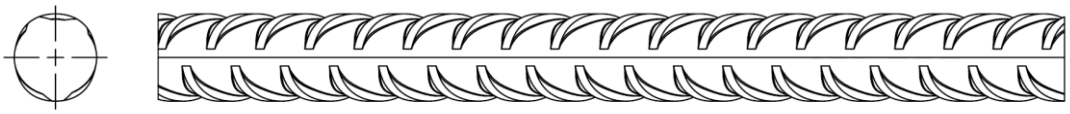
Static mixer Hilti HIT-RE-M



Steel elements



Hilti Tension Anchor HZA: M12 to M27
Hilti Tension Anchor HZA-R: M12 to M24
Marking:
embossing “HZA-R” M .. / tfix



Reinforcing bar (rebar): ϕ 8 to ϕ 40

- Materials and mechanical properties according to Table A1.
- Minimum value of related rib area f_R according to EN 1992-1-1.
- Rib height of the bar h_{rib} shall be in the range:
  $0{,}05 \cdot \phi \le h_{rib} \le 0{,}07 \cdot \phi$
- The maximum outer rebar diameter over the ribs shall be:
  $\phi + 2 \cdot 0{,}07 \cdot \phi = 1{,}14 \cdot \phi$
  (ϕ: nominal diameter of the bar; h_{rib}: rib height of the bar)

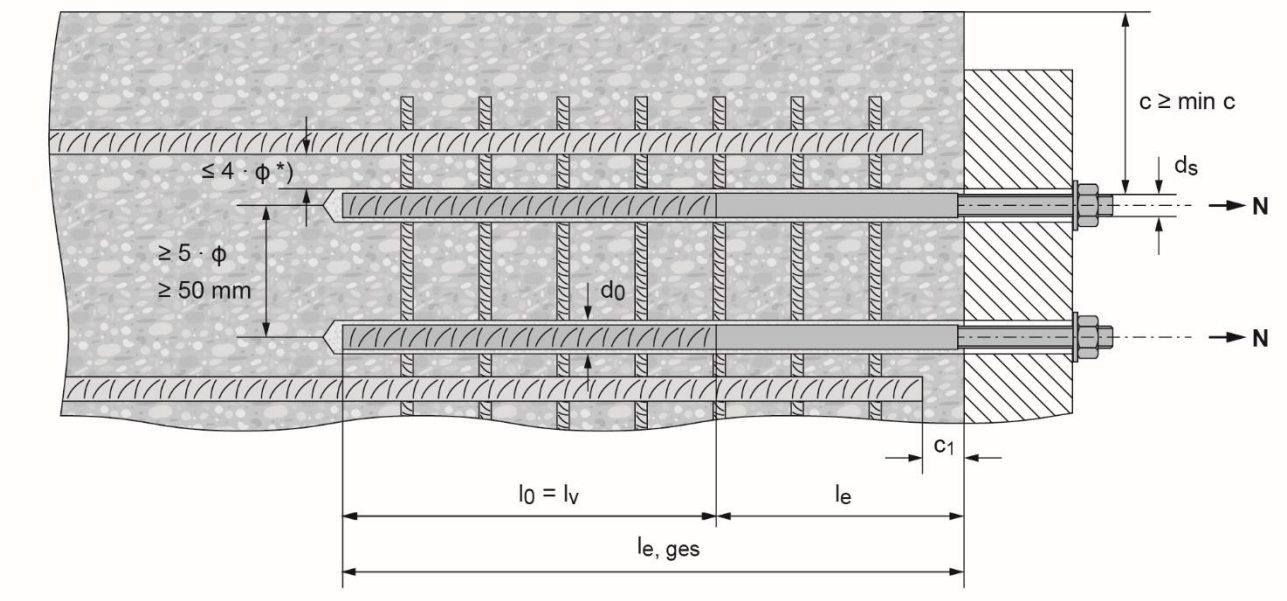
Injection system Hilti HIT-RE 500 V4	
Product description Injection mortar / Static mixer / Steel elements	**Annex A4**

Table A1: Materials

Designation	**Material**
Reinforcing bars (rebars)	
Rebar EN 1992-1-1 and AC:2010, Annex C	Bars and de-coiled rods class B or C with f_{yk} and k according to NDP or NCL of EN 1992-1-1/NA:2013 $f_{uk} = f_{tk} = k \cdot f_{yk}$
Metal parts made of zinc coated steel	
Hilti tension anchor HZA	Round steel with threaded part: electroplated zinc coated ≥ 5 μm Rebar: f_{yk} = 500 N/mm² class B according to NDP or NCL of EN 1992-1-1/NA:2013
Washer	Electroplated zinc coated ≥ 5 μm, hot dip galvanized ≥ 50 μm
Nut	Nominal strength class of nut equal or higher than nominal strength class of rod. Electroplated zinc coated ≥ 5 μm, hot dip galvanized ≥ 50 μm
Metal parts made of stainless steel Corrosion class III according to EN 1993-1-4	
Hilti tension anchor HZA-R	Round steel with threaded part: Stainless steel according to EN 10088-1 Rebar: f_{yk} = 500 N/mm² class B according to NDP or NCL of EN 1992-1-1/NA:2013
Washer	Stainless steel according to EN 10088-1
Nut	Nominal strength class of nut equal or higher than nominal strength class of rod. Stainless steel according to EN 10088-1

Figure B2: General construction rules for Hilti tension anchor HZA / HZA-R

- Hilti tension anchor HZA / HZA-R may be designed for tension forces only.
- The tension forces must be transferred via an overlap joint to the reinforcement in the existing structure.
- The length of the bonded-in smooth shaft may not be accounted as anchorage.
- The transfer of shear forces shall be ensured by appropriate additional measures, e.g. by shear lugs or by anchors with a European technical assessment (ETA).
- In the anchor plate the holes for the Hilti tension anchor shall be executed as elongated holes with the axis in the direction of the shear force.



*) If the clear distance between lapped bars exceeds 4·ϕ, then the lap length shall be increased by the difference between the clear bar distance and 4·ϕ.

c concrete cover of Hilti tension anchor HZA / HZA-R
c_1 concrete cover at end-face of existing rebar
c_{min} minimum concrete cover according to Table B3 and to EN 1992-1-1
ϕ diameter of reinforcement bar
l_0 lap length, according to EN 1992-1-1
l_v embedment length
l_e length of the smooth shaft or the bonded-in threaded part
$l_{e,ges}$ overall embedment length
d_0 nominal drill bit diameter

Table B1: Hilti tension anchor HZA-R, dimensions

Hilti tension anchor HZA-R			**M12**	**M16**	**M20**	**M24**
Rebar diameter	ϕ	[mm]	12	16	20	25
Overall embedment length and drill hole depth	$l_{e,ges}$	[mm]	170 to 800	180 to 1300	190 to 1300	200 to 1300
Embedment length ($l_v = l_{e,ges} - l_e$)	l_v	[mm]	$l_{e,ges}$ – 100			
Length of smooth shaft	l_e	[mm]	100			
Nominal diameter of drill bit	d_0	[mm]	16	20	25	32
Maximum diameter of clearance hole in the fixture	d_f	[mm]	14	18	22	26
Maximum installation torque	max. T_{inst}	[Nm]	40	80	150	200

Table B2: Hilti tension anchor HZA, dimensions

Hilti tension anchor HZA			**M12**	**M16**	**M20**	**M24**	**M27**
Rebar diameter	ϕ	[mm]	12	16	20	25	28
Overall embedment length and drill hole depth	$l_{e,ges}$	[mm]	90 to 800	100 to 1300	110 to 1300	120 to 1300	140 to 1300
Embedment length ($l_v = l_{e,ges} - l_e$)	l_v	[mm]	$l_{e,ges}$ – 20				
Length of smooth shaft	l_e	[mm]	20				
Nominal diameter of drill bit	d_0	[mm]	16	20	25	32	35
Maximum diameter of clearance hole in the fixture	d_f	[mm]	14	18	22	26	30
Maximum installation torque	max. T_{inst}	[Nm]	40	80	150	200	270

Table B3: Minimum concrete cover c_{min}[1)] of the post-installed rebar or tension anchor HZA-(R) depending on drilling method and drilling tolerance

Drilling method	**Rebar diameter [mm]**	**Minimum concrete cover c_{min}[1)] [mm]**	
		Without drilling aid[2)]	With drilling aid[2)]
Hammer drilling and hammer drilling with Hilti hollow drill bit TE-CD, TE-YD	$\phi < 25$	$30 + 0{,}06 \cdot l_v \geq 2 \cdot \phi$	$30 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
	$\phi \geq 25$	$40 + 0{,}06 \cdot l_v \geq 2 \cdot \phi$	$40 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
Compressed air drilling	$\phi < 25$	$50 + 0{,}08 \cdot l_v$	$50 + 0{,}02 \cdot l_v$
	$\phi \geq 25$	$60 + 0{,}08 \cdot l_v \geq 2 \cdot \phi$	$60 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
Diamond coring (wet/dry)	$\phi < 25$	Drill stand works like a drilling aid	$30 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
	$\phi \geq 25$		$40 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
Diamond coring with roughening with Hilti Roughening tool TE-YRT	$\phi < 25$	$30 + 0{,}06 \cdot l_v \geq 2 \cdot \phi$	$30 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$
	$\phi \geq 25$	$40 + 0{,}06 \cdot l_v \geq 2 \cdot \phi$	$40 + 0{,}02 \cdot l_v \geq 2 \cdot \phi$

1) See Annexes B2 and B3, Figures B1 and B2.
Comments: The minimum concrete cover acc. EN 1992-1-1. The same minimum concrete covers apply for rebar elements in the case of seismic loading, i.e. $c_{min,seis} = 2\,\phi$.

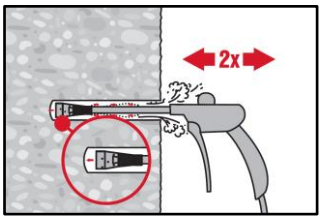
2) For HZA(-R) $l_{e,ges}$ instead of l_v.

Injection system Hilti HIT-RE 500 V4

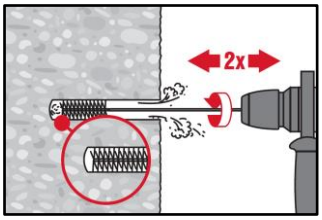
Intended use
Dimensions for HZA and HZA-R / Minimum concrete cover c_{min}

Annex B5

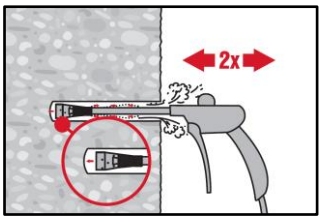
Compressed Air Cleaning (CAC) for hammer drilled holes:
for drill holes deeper than 250 mm (for ϕ8 to ϕ12) or deeper than 20·ϕ (for ϕ > 12 mm)



Use the appropriate air nozzle Hilti HIT-DL (see Table B6).
Blow 2 times from the back of the hole over the whole length with oil-free compressed air until return air stream is free of noticeable dust.
Safety tip:
Do not inhale concrete dust.

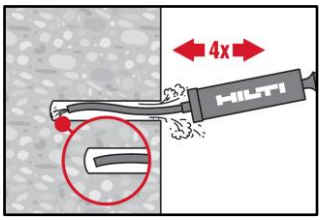


Screw the round steel brush HIT-RB in one end of the brush extension(s) HIT-RBS, so that the overall length of the brush is sufficient to reach the base of the drill hole. Attach the other end of the extension to the TE-C/TE-Y chuck.
Safety tip:
Start machine brushing operation slowly.
Start brushing operation once the brush is inserted in the drill hole.

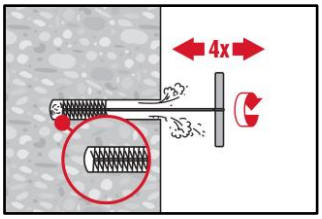


Use the appropriate air nozzle Hilti HIT-DL (see Table B6).
Blow 2 times from the back of the hole over the whole length with oil-free compressed air until return air stream is free of noticeable dust.
Safety tip:
Do not inhale concrete dust.

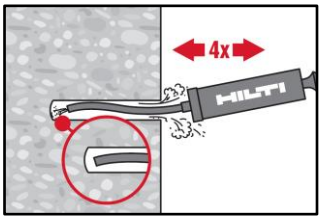
Manual Cleaning (MC) for hammer drilled holes:
for drill hole diameters d_0 ≤ 20 mm and all drill hole depths ≤ 10·ϕ.



The Hilti hand pump may be used for blowing out drill holes up to diameters d_0 ≤ 20 mm and drill hole depths ≤ 10·ϕ.
Blow out at least 4 times from the back of the drill hole until return air stream is free of noticeable dust.



Brush 4 times with the specified brush (see Table B6) by inserting the steel brush Hilti HIT-RB to the back of the hole (if needed with extension) in a twisting motion and removing it.
The brush must produce natural resistance as it enters the drill hole (brush Ø ≥ drill hole Ø) - if not the brush is too small and must be replaced with the proper brush diameter.



Blow again with the Hilti hand pump at least 4 times until return air stream is free of noticeable dust.

BIJLAGE 20
Meridian kenmerk C1704334

Toegepast:

Voorschriften: NEN-EN 1992-serie

Beton, bestaand: K225, ≙ C16/20 bij t=∞ i.p.v. 28 dagen

Beton, nieuw: C30/37

Staal: S-235

ankers: 8.8.

Beton staal: bestaand FeB 400
nieuw B500B

Inhoud

Verdeling belasting bestaand-nieuw 1

Versterking voetplaat 2-5

Controle drukspanning voetplaat 6

Controle horizontale belasting 7-8

Wapening poer
(controle topwaartse belasting) 9-14

SWECO

AFDELING: .....

WERK: Ronde Venen

ONDERDEEL: bijlage versterking Mast 148

ORDERNUMMER: .....

BLAD: .....

OPSTELLER: ..... PARAAF: ..... DATUM: .....

verdeling belasting bestaand - nieuw.

* Combinatie met Trek,

$F_{t,Ed} = 882$ kN.

$F_{t,Rd,paal} = 205$ kN.

$F_{t,Rd,verankering} = 702$ kN.

$F_{h,Ed} = \sqrt{161^2 + 136,5^2} = 211$ kN

$F_{h,Rd} = \sqrt{204,5^2 + 178,6^2} = 272$ kN.

- Trek belasting nieuwe verankering, reken $^2/_3 F_{t,Ed}$.

$F_{t,Ed} = 882 \times \frac{1}{3} = 147$ kN (= veilig)
(per HEB140)

Horizontale belasting nieuwe verankering

$F_{h,Ed} = \frac{211 - 49}{2} = 81$ kN
(per HEB140)

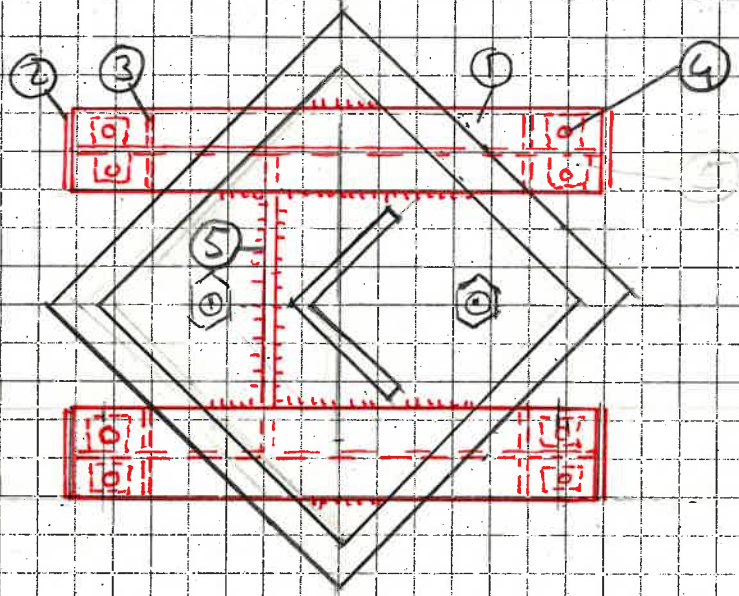
* Combinatie met Druk.

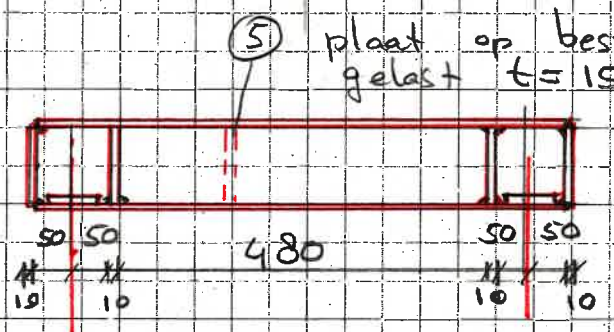
$N_{Ed} = 1093$ kN. $N_{Rd} = 1030$ kN

$F_{h,Ed} = 272$ " $F_{h,Rd} = 49$ " (zie blad 7)

SWECO	AFDELING:	WERK: Roode Venen ONDERDEEL: versterking mast 148 verdeling belasting	ORDERNUMMER: BLAD: 1
	OPSTELLER:	PARAAF:	DATUM:

Versterking voetplaat Mast 148





① HEB 140 L=700 (2x)

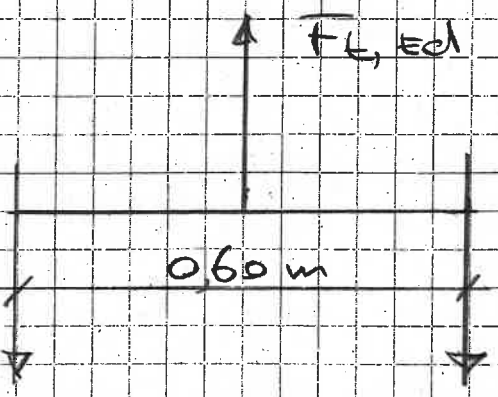
② kopplaat t=10 (4x)

③ schotje t=10 (8x)

④ anker M16 + vulgplaten (zie bld) (4x)

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: versterking mast 148 Staalconstructie voetplaat	ORDERNUMMER: BLAD: 2
	OPSTELLER:	PARAAF:	DATUM:

① HEB 140



$M_{Ed} = 1/4 \times 294 \times 0,6 = 44,1$ kNm

HEB 140 : $W_x = 216$ cm³

$\sigma_b = 44,1 / 0,216 = 204$ N/mm² u.c = 0,87

controle kip bovenflens

$\lambda_y = 140 \sqrt{1/12} = 40,4$

$\lambda_{rel} = 600 / (40,4 \times 94) = 0,16$ < 0,2 : gedrongen

②, ③ kopplaat en schotjes praktisch t = 10 mm

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: versterking mast 148 staalconstructie voetplaat	ORDERNUMMER: BLAD: 3
	OPSTELLER:	PARAAF:	DATUM:

(4) Anker M16 + volg platen

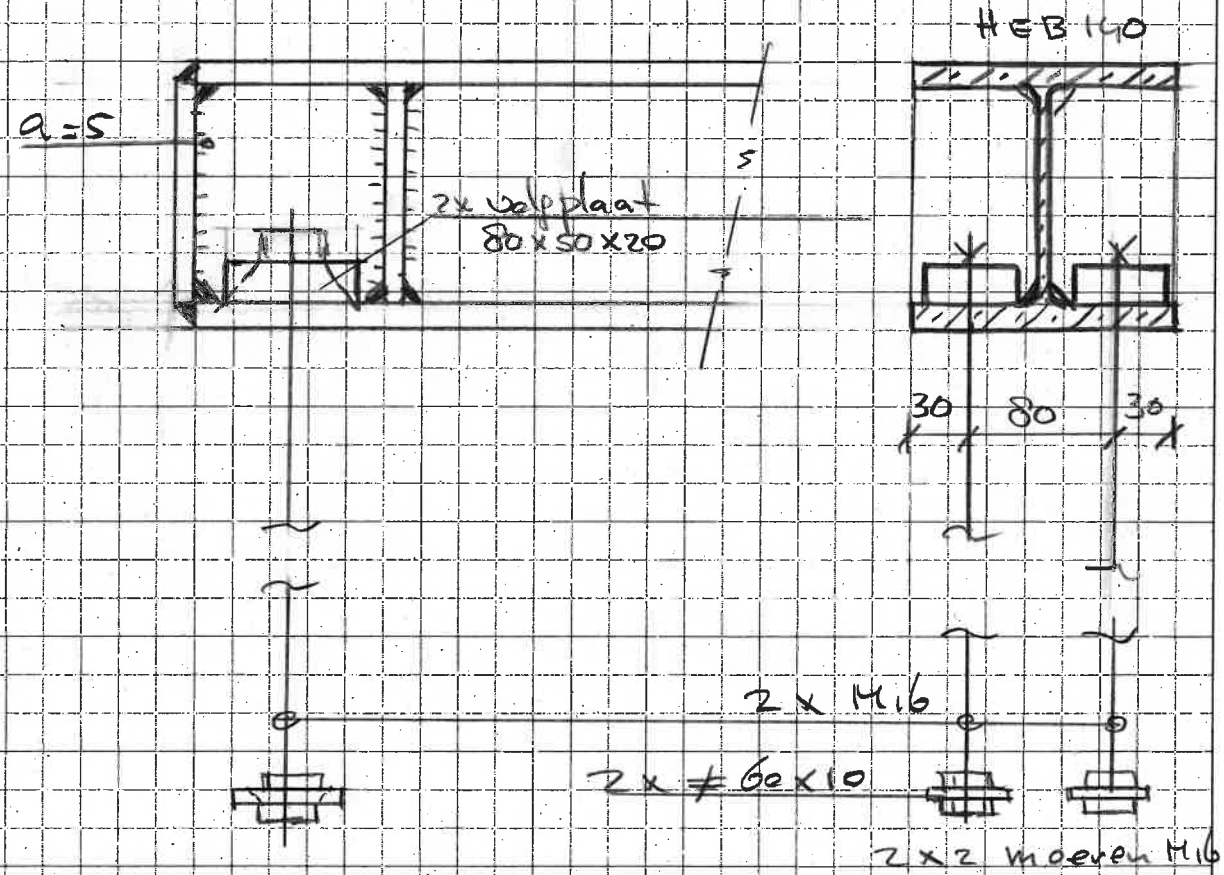
M16 8.8 : $F_{t,Rd} = 0,9 \times 157 \times 0,800 / 1,25 = 90,4$ kN

$F_{t,ED} = 9,5 \times 14,7 = 74$ kN

$u.c. = 0,82$

controle onderflens HEB 140, t = 12 mm.

onderflens alleen volbloet niet, volgplaat t = 20 mm toepassen



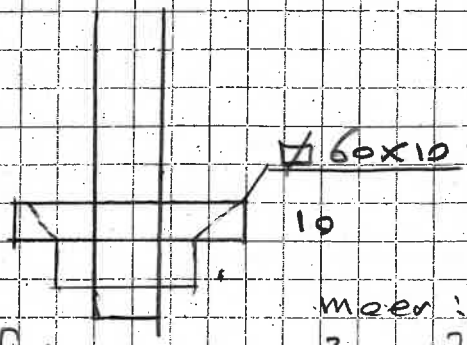
controle lassen naast volgplaat

$l_{eff} = 140/2 - 8/2 = 66$ mm

$\sigma_{Sd} = \frac{0,5 \times 74.000}{66 \times 5} = 112$ N/mm² $u.c. = 112/207 = 0,54$

SWECO	AFDELING:	WERK: Roode Venen ONDERDEEL: versterking mast 148 staalconstructie voetplaat	ORDERNUMMER: BLAD: 4
	OPSTELLER:	PARAAF:	DATUM:

Controle aanlegplaat met moer



moer: $d_m = 25{,}8$ mm

$$A_h = \frac{\pi}{4}\left\{(25{,}8 + 2\times10)^2 - 18^2\right\} = 1392 \text{ mm}^2$$

$$N_{Rd,p} = 1392 \times 3 \times 30 / 1{,}5 \times 10^{-3} = 83{,}5 \text{ kN}$$

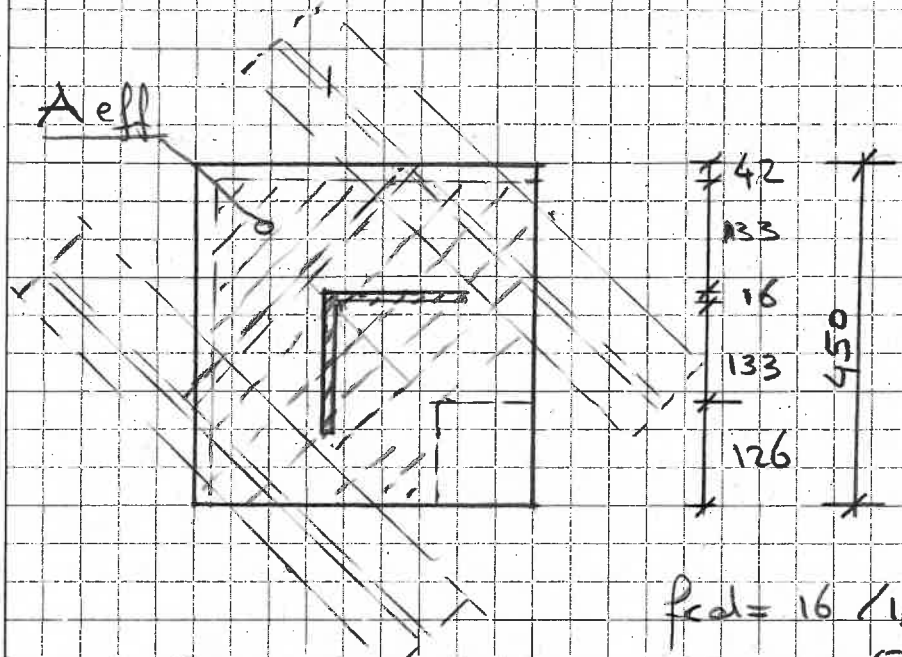
$N_{Ed} = 74$ kN

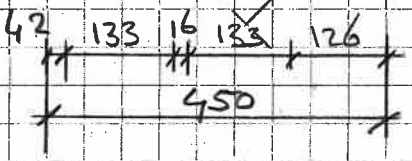
$u.c = 74 / 83{,}5 = 0{,}89$

SWECO	AFDELING:	WERK: Ronde Venen ONDERDEEL: versterking mast 148 staalconstructie voetplaat	ORDERNUMMER: BLAD: 5
	OPSTELLER:	PARAAF:	DATUM:

Controle druk spanning voetplaat

Aeff





$f_{cd} = 16 / 1{,}5 = 10{,}67 \ N/mm^2$

$A_1/A_2 = 550/450 = 1{,}2$

$f_s = 45\sqrt{\frac{235}{1{,}2 \times 10{,}67 \times 3 \times \frac{2}{3}}} = 133 \ mm$

$A_{eff} = 450^2 - 126^2 - 42(450 + 450 - 42) = 150.588 \ mm^2$

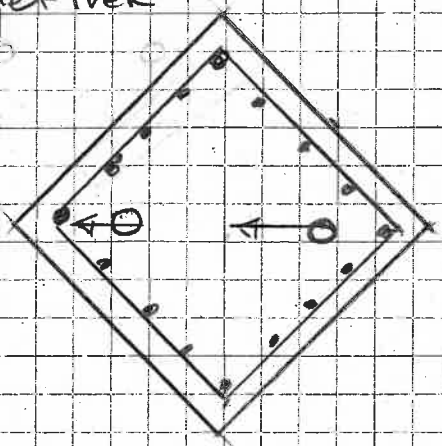
$N_{Rd} = 150.588 \times 1{,}2 \times 10{,}67 \times \frac{2}{3} \times 10^{-3} = 1285 \ kN$

$u.c = 1093/1285 = 0{,}85$

SWECO	AFDELING:	WERK: Ronde Venen	ORDERNUMMER:
		ONDERDEEL: versterking mast 148 controle druk spanning voetplaat	BLAD: 6
	OPSTELLER:	PARAAF:	DATUM:

Weerstand bestaande ankers tegen afschuiving

* combinatie met Trek



6 bgls ϕ8-70

bovenste 2 bgls zijn effectief voor kracht-inleiding.

$F_{h,Rd} = \frac{2 \times 2 \times 50 \times 0{,}348}{\sqrt{2}}$

$= 49$ kN.

Weerstand nieuwe ankers tegen afschuiving.

formule 6.2 EC3

$\alpha_{bc} = 0{,}44 - 0{,}0003 \times 640 = 0{,}248$

$F_{2,vb,Rd} = 0{,}248 \times 0{,}800 \times 157 / 1{,}25 = 24{,}9$ kN.
(M16)

hrsp ϕ12 $F_{,Rd} = 226 \times 0{,}435 = 98$ kN (niet maatgevend)
(ophangoog)

Toetsing horizontale belasting.

$F_{h,Ed} = 211$ kN.

$F_{h,Rd} = 49$ kN (bestaand)

$F_{h,Ed,nieuw} = \frac{211 - 49}{2} = 81$ kN.
(per HEB 140)

$F_{h,Rd,nieuw} = 2 \times 2 \times 24{,}9 = 100$ kN
(per HEB 140)

u.c. = 0,81

SWECO	AFDELING:	WERK: Rande Venen
	ONDERDEEL: versterking mast 148 controle horizontale belasting	ORDERNUMMER:
		BLAD: 7
OPSTELLER:	PARAAF:	DATUM:

* combinatie met druk.

ophang wapening hoep rondom ankers niet effectief

$N_{c,Ed} = N_{Ed} = 1093$ kN

$H_{Ed} = 272$ kN

$F_{f,Rd} = C_{f,d} \times N_{c,Ed} = 0{,}2 \times 1093 = 218$ kN
(wrijvingf)

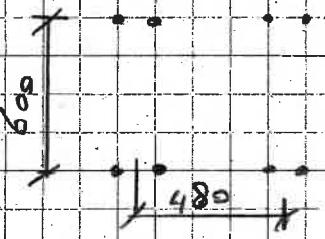
$F_{h,Rd,bestaande\ ankers} = \frac{48}{267}$ "

$F_{s,Ed\ nieuw} = 272 - 267 = 5$ kN.

per 2 M16 $F_{s,Ed} = \frac{5}{4} = 1{,}3$ kN.

$$N_{spl} = \frac{1{,}8\ f_b}{1/s_h^2 + 1/s_v^2 + 1/l_a^2}$$ (NEN 6720 9.16.4)

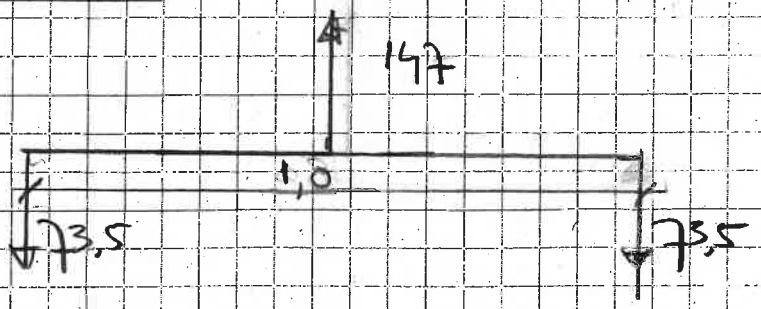
$$N_{spl} = \frac{1{,}8 \times 1{,}35}{1/480^2 + 1/600^2 + 1/400^2} = 182 \times 10^3$$



$F_{s,Ed} < K \frac{1}{2} N_{spl}$ ∴ geen ophang wapening noodzakelijk om ankers voor combinatie met druk

SWECO	AFDELING:	WERK: Roode Venen ONDERDEEL: versterking mast 148 controle horizontale belasting	ORDERNUMMER: BLAD: 8
OPSTELLER:	PARAAF:	DATUM:	

Strook (I)



$M_{Ed} = 147/4 \times 1,0 = 36,8$ kNm

$h \approx 500$, $d \geq 400$ mm.

$A_{sb} = 36,8 / (0,9 \times 0,4 \times 0,435) = 235$ mm²

2 ϕ 16 - 100

u.c = 235/402 = 0,58

$V_{Ed} = 73,5$ $\quad A_{sw}/s\ (\theta = 45°) = 73,5 / (0,9 \times 0,4 \times 0,435) = 469$ mm²/m'

hrsp ϕ12 - 150

Controle schenkwijdte

2ϕ16 - 100, u.c = 0,58 $\quad \sigma_{s,rep} = 0,58 \times 435 / 1,35 = 188$ N/mm²

$w < 0,2$ $\quad s^* = 1,34 \times 100 = 134$ mm $\quad \sigma_{s,max} = 212$ N/mm²

u.c = 0,89

Detail wapening

Max. belasting $H_{Ed,tot} = 211$ kN.

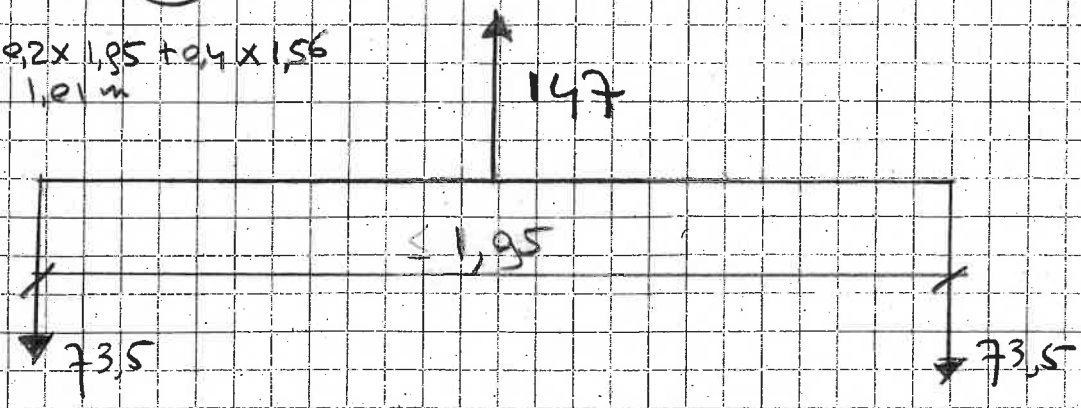
1 hrsp ϕ12 per 2 ankers M16

$H_{Rd} = 226 \times 0,435 = 98$ kN / hrsp.

SWECO	AFDELING:	ORDERNUMMER:
	WERK: Ronde Venen	
	ONDERDEEL: Versterking mast 148 wapening paar	BLAD: 9
OPSTELLER:	PARAAF:	DATUM:

Strook (II) h = 1560

$Z = 0{,}2 \times 1{,}95 + 0{,}4 \times 1{,}56 = 1{,}01$ m



$M_{Ed} = 147/4 \times 1{,}95 = 71{,}7$ kNm.

$As\,b = 71{,}7 / (1{,}01 \times 0{,}435) = 163$ mm²

3 ϕ 12 As = 339 mm² u.c = 0,48

$V_{Ed} = 73{,}5$ $A_{sv} = 469$ mm²/m'

hrsp ϕ 12–150 u.c = 469/753 = 0,62

controle scheurwijdte

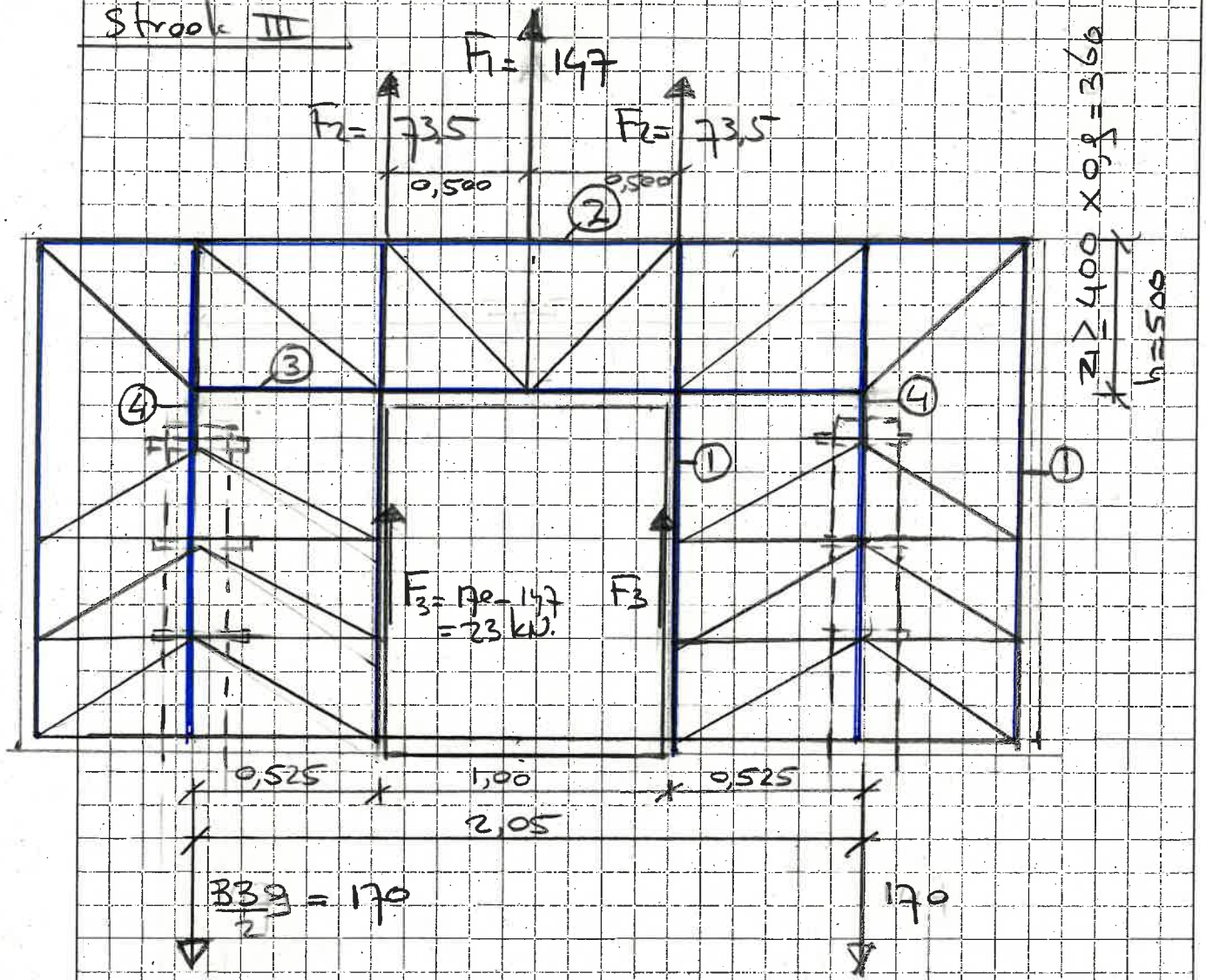
zie ook strook III $\sigma_{s,rep} = 0{,}48 \times 0{,}74 \times 435 = 154$ N/mm²

$w < 0{,}2$, $\phi = 12$ $\phi^* < 12$

$\sigma_{s,max} = 240$ N/mm² u.c = 154/212 = 0,73

SWECO	AFDELING:	WERK: Roode Venen ONDERDEEL: versterking mast 148 wapening poer	ORDERNUMMER: BLAD: 10
	OPSTELLER:	PARAAF:	DATUM:

Strook III



Staaf ①

$\Sigma F_{t,Ed} = 170$ $A_{s,req} = 170 / 0,435 = 391\ mm^2$

aanwezige wapening $\geq \phi 12\text{-}150$ is ruim voldoende.

Staaf ②

$z_1 = 0,36\ m$

$z_2 = 0,2 \times 2,05 + 0,4 \times 1,56 = 1,03\ m$

$F_{t,Ed} = 170 \times \frac{0,525}{1,03} + (170 - 23 - 735) \times \frac{0,500}{0,36}$

$= 86,7 + 102 = 188,8\ kN$

SWECO	AFDELING:	WERK: Roode Venen ONDERDEEL: versterking mast 148 wapening paar.
		ORDERNUMMER: BLAD: 11
OPSTELLER:	PARAAF:	DATUM:

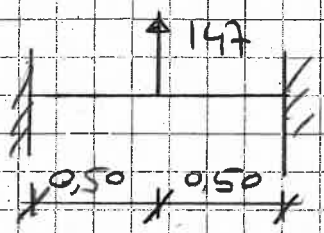
Vervolg strook III, staaf ②

4 ϕ 20 – 125 A_s = 1256 mm²

$F_{t,Rd}$ = 1256 × 0,435 = 546 kN $u.c.$ = 0,35

Staaf ③

beschouw als toevalligte inklemming



M_{Ed} = 147/8 × 1,0 = 18,4 kN m

$F_{t,Ed}$ = 18,4 / 0,36 = 51 kN.

$F_{t,Ed} \geq$ ½ $F_{t,Ed}$ staaf ② = 94,4 kN.

4 ϕ16 $F_{t,Rd}$ = 804 × 0,435 = 350 kN $u.c.$ = 0,27
scheurwijde voldoet

Staaf ④

$F_{t,Ed}$ = 170 kN, zie wand strook IV
(= ½ totale trekkracht op paal)

SWECO	AFDELING:	WERK: Rondse Venen ONDERDEEL: versterking mast 148 wapening poer	ORDERNUMMER: BLAD: 12
	OPSTELLER:	PARAAF:	DATUM:

Uervalg 5 traak III, controle scheurwijde staaf (2)

$M_{rep}/M_{Ed} \leq 1/1,35 = 0,74$

$\sigma_{s,rep} = 0,35 \times 0,74 \times 435 = 113\ N/mm^2$

$s = 125$ mm (beschouw $\phi 12 + \phi 20$ als gebundeld)

$s_s^* = 2,5 \times (h-d) / (f_{ct,eff} \times 0,4\ h_{cr})$

$= 2,5 \times 2 \times (45 + 12 + 20/2) / (2,5 \times 0,4 \times 0,5 \times 500)$

$= 388,6 / 250 = 1,34$

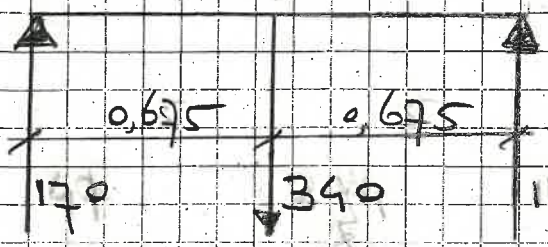
$s^* = 1,34 \times 125 = 168$ mm

$\sigma_{s,max} = 186\ N/mm^2$ $\quad u.c. = 0,61$

$(w \leq 0,2)$

SWECO	AFDELING:	WERK: Ronde Venen	ORDERNUMMER:
		ONDERDEEL: Versterking mast 148 wapening poer	BLAD: 13
	OPSTELLER:	PARAAF:	DATUM:

Strook IV



$V_{Ed} = 170$ kN $A_{sw} = 170 / 0{,}435 = 391$ mm²

bgls / hrsp ϕ12–150 is ruim voldoende.

$M_{Ed} = 170 \times 0{,}675 = 114{,}8$ kNm

$h \geq 1500$, $z = 0{,}2 \times 1{,}35 + 0{,}4 \times 1{,}5 = 0{,}87$
$\leq 0{,}6 \times 1{,}35 = 0{,}81$

$A_{s,req} = 114{,}8 / (0{,}81 \times 0{,}435) = 326$ mm²

wap. praktisch 10 ϕ 12–125 $A_{s,prov} = 1130$ mm²

u.c = 0,29 → scheurwijdte voldoet
(zie ook strook II en III)

SWECO	AFDELING:	WERK: ONDERDEEL: versterking mast 148 wapening poer
		ORDERNUMMER:
		BLAD: 14
OPSTELLER:	PARAAF:	DATUM:

BIJLAGE 21
Meridian kenmerk C1704335

Samenvatting gegevens bestaande en nieuwe mastfundaties

Samenvatting gegevens bestaande en nieuwe mastfundaties

Mast	Mastmodel	Mast type	Mastfunctie	Masthoogte	Paalgegevens bestaand: Paaltype	Aantal palen per randstijl	Aantal palen totaal	Paal boven maaiveld [m]	Maaiveld t.o.v. NAP [m]	Syst. punt t.o.v. MV [cm]	Paalpuntniveau t.o.v. MV [m]	Paallengte [m]	Schoorstand palen (°)	GEO Drukcapaciteit enkele paal [kN]	GEO Trekcapaciteit enkele paal [kN]	Paalgewicht één-paals-poeren: Gewicht paal (kN/strekkende meter)	Gewicht paal [kN]	Toelichting
128	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	12,5@13,5	14	4,9:1	965	240	3,82	47,75	
129	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	13,5@15,0	15,5	4,9:1	1184	308	3,82	53,48	
130	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,0@0,5		50+	12,5@13,0	13,5	4,9:1	1058	263	3,82	45,84	
131	Donaumast	S+6	Steunmast	54	LD1+p	1	4	2,5@1,5		50+	12,0@14,0	14,5	4,9:1	931	301	3,82	49,66	
133	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	13,0@14,0	14,5	4,9:1	940	285	3,82	49,66	
134	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	12,0@13,0	13,5	4,9:1	1132	285	3,82	45,84	
135	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	12,5@13,5	14	4,9:1	1075	230	3,82	47,75	
136	Donaumast	S+0	Steunmast	48	LD1+p	1	4	2,5@0,5		50+	10,0@12,0	12,5	4,9:1	949	222	3,82	42,02	
138	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	15,5@16,0	16,5	4,9:1	1755	333	3,82	57,30	
139	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	13,0@14,0	14,5	4,9:1	1120	340	3,82	49,66	
140	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	13,0@14,0	14,5	4,9:1	1622	322	3,82	49,66	
141	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	11,5@12,5	13	4,9:1	904	193	3,82	43,93	
142	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5@0,5		50+	12,5@13,5	14	4,9:1	797	200	3,82	47,75	
143	Donaumast	S+0	Steunmast	48	LD1+p	1	4	1,5		50+	13	14,5	4,9:1	982	222	3,82	49,66	
144	Donaumast	S+6	Steunmast	54	LD1+p	1	4	3,5		275+	14	17,5	4,9:1	849	236			
145	Donaumast	S+6	Steunmast	54	LD1+p	1	4	0,5		50+	14	14,5	4,9:1	1397	295	3,82	49,66	
146 optie 1	Donaumast	S+9	Steunmast	57	32*32 cm bet.	5	20	1,5@1,0		50+	7,5@8,0	9	5:1	76	27			
147 optie 1	Donaumast	S+9	Steunmast	57	32*32 cm bet.	5	20	1,5@1,0		80+	7,5@8,0	9	5:1	403	32			
148	Donaumast	S+12	Steunmast	60	2 LD1+p	2	8	1,5		80+	13,5	15	5:1	856	196			

Mast	Poergevens bestaand: Poer- type	b [m]	l [m]	h [m]	hoek [m]	b poer [m]	l poer [m]	h poer [m]	Volume poer [m³]	EG poer[kN]	Fd;eg poer / paal [kN]	Verankering: Type Ringen of stiftdeuvels	Type Blokdeuvel	Type ankers/ voetplaat	Capaciteit drukkracht mast - fundatie [kN]	Capaciteit trekkracht mast - fundatie [kN]	Capacitieit drukkracht fundatie - paal [kN/paal]	Capaciteit trekkracht fundatie - paal [kN/paal]
128	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
129	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
130	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
131	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
133	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
134	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
135	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
136	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
138	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
139	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
140	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
141	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
142	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
143	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
144	Koppelframe (Cilinderpoer 1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
145	Cilinderpoer(75) (1*LD1)	0,66467	0,66467	1,56	0	0	0	0	2,757	66,2	16,5	G: 6x30.50.180	M: 12x50.30.100	n.v.t.	1205	1205	916	916
146 optie 1	Balkrooster (5*B)	0,9	12,5	0,75	1,55	0,94	0,68	1,17	40,345206	968,28494	48,414247	?	?	C: 2xM64-450.450.45	1030	702	1331	90
147 optie 1	Balkrooster (5*B)	0,9	12,5	0,75	1,55	0,94	0,68	1,17	40,345206	968,28494	48,414247	?	?	C: 2xM64-450.450.45	1030	702	1331	90
148	Blokpoer(200) (2*LD1)	0,9	2	1,05	0	0,55	0,55	0,5	8,165	196	24,5	C9. Poer	n.v.t.	C: 2xM64-450.450.45	1030	702	1362,5	1362,5

Mast	Paalgegevens nieuw (LEKA palen): Aantal extra palen per poer	Paaltype	Paal boven maaiveld [m NAP]	Maaiveld t.o.v. NAP [m]	PPN t.o.v. NAP [m]	PP niveau t.o.v. maaiveld [m]	Paallengte [m]	Schoor... op 1	Drukcapaciteit enkele paal [kN]	Trekcapaciteit enkele paal [kN]	Poergevens nieuw: Poer- verzwaringstype	b poer [m]	l poer [m]	h poer [m]	b balk [m]	l balk[m]	h balk/hoek [m]	Hoek l [m]	Afm. onder MV [m]	Volume onder GWS [m^3]	Volume poer [m³]	EG per nieuwe poer - bestaande poer [kN]	Waterdruk [kN]
128	2	Leka 324/470	-1,28		-15		13,72		877	253	Extra palen (2 stuks)	1,60	3,20	1,5									
129	2	Leka 324/470	-1,49		-16,5		15,01		1143	325	Extra palen (2 stuks)	1,60	3,20	1,5									
130	2	Leka 324/470	-1,02		-14		12,98		932	277	Extra palen (2 stuks)	1,60	3,20	1,5									
131	2	Leka 324/470	-1,25		-15,5		14,25		968	322	Extra palen (2 stuks)	1,60	3,20	1,5									
133	2	Leka 324/470	-1,7		-16		14,3		1062	310	Extra palen (2 stuks)	1,60	3,20	1,5									
134	2	Leka 324/470	-1,82		-15		13,18		1105	307	Extra palen (2 stuks)	1,60	3,20	1,5									
135	2	Leka 324/470	-1,94		-16,5		14,56		1038	282	Extra palen (2 stuks)	1,60	3,20	1,5									
136	2	Leka 324/470	-1,94		-15,5		13,56		892	279	Extra palen (2 stuks)	1,60	3,20	1,5									
138	2	Leka 324/470	-1,73		-18		16,27		1503	365	Extra palen (2 stuks)	1,60	3,20	1,5									
139	2	Leka 324/470	-1,7		-16		14,3		1249	365	Extra palen (2 stuks)	1,60	3,20	1,5									
140	2	Leka 324/470	-1,76		-16		14,24		1452	352	Extra palen (2 stuks)	1,60	3,20	1,5									
141	2	Leka 324/470	-0,94		-15		14,06		1117	308	Extra palen (2 stuks)	1,60	3,20	1,5									
142	2	Leka 324/470	-0,9		-17,5		16,6		1197	367	Extra palen (2 stuks)	1,60	3,20	1,5									
143	2	Leka 324/470	-1,13		-15,5		14,37		1118	284	Extra palen (2 stuks)	1,60	3,20	1,5									
144	2	Leka 219/310	-1,33		-17,5		16,17		659	229	Extra palen (2 stuks) + Koppelbalk (beton) + Versterking verankering	1,60	3,20	1,5	0,6	10,79	0,75						
145	2	Leka 324/470	-1,56		-16		14,44		1294	329	Extra palen (2 stuks)	1,60	3,20	1,5									
146 optie 1	3	Leka 219/310	-1,7		-20		18,3		1018	249	Aanstorting met 3 extra palen + Versterking verankering	0,00	0,00	0	1	2x4,5	0,75						
147 optie 1	3	Leka 219/310	-1,73		-18,5		16,77		733	208	Aanstorting met 3 extra palen + Versterking verankering	0,00	0,00	0	1	2x4,5	0,75						
148	2	Leka 273/370	-1,78		-23,5		21,72		1761	524	Extra palen (2 stuks) blokpoer + Versterking verankering	2,00	3,20	1,5									

Mast	SCIA model fundering input: Naam SCIA-model funderingstype	Beschouwde belasting	Toelichting	Windgebied	Maatgevende belasting	PY Curve 1 of 2	Begrensde paalcapaciteit beschouwd	Opmerking	SCIA model resultaten, bestaande palen: Maximale drukkracht in één fundatiepaal [kN]	Maximale trekkracht in één fundatiepaal [kN]	LEKA palen: Maximale drukkracht in één fundatiepaal [kN]	Maximale trekkracht in één fundatiepaal [kN]	Input vanuit Lijnen (Nieuwbouw): Maximale drukkracht in één randstijl [kN]	Maximale trekkracht in één randstijl [kN]	Toetsingen, bestaande palen: Toetsing paalcapaciteit op maximale drukkracht	Toetsing paalcapaciteit op maximale trekkracht	LEKA palen: Toetsing paalcapaciteit op maximale drukkracht	Toetsing paalcapaciteit op maximale trekkracht	Overkoepelende toetsing	Opmerking	Versterking	Categorie
128	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,83	0,80	0,28	0,50	**0,83**		Extra palen (2 stuks)	F3
129	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,67	0,63	0,21	0,39	**0,67**		Extra palen (2 stuks)	F3
130	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,75	0,73	0,26	0,45	**0,75**		Extra palen (2 stuks)	F3
131	Cilinderpoer 75_LD1_S+6	NB S+6 max		3	144&145	2	931 druk en 295 trek	meerdere masten model	931,0	295,0	242,8	112,0	976	775	1,00	0,98	0,25	0,35	**1,00**		Extra palen (2 stuks) + Versterking verankerin	F3
133	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,85	0,68	0,23	0,40	**0,85**		Extra palen (2 stuks)	F3
134	Cilinderpoer 75_LD1_S+0_134	NB S+0_134	Let op afwijkende belasting voor een S+0 mast	3	134	2	1132 druk en 285 trek	een mast model	1075,7	285,0	198,9	99,4	922	728	0,95	1,00	0,18	0,32	**1,00**		Extra palen (2 stuks)	F3
135	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,74	0,84	0,24	0,44	**0,84**		Extra palen (2 stuks)	F3
136	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,84	0,87	0,27	0,45	**0,87**		Extra palen (2 stuks)	F3
138	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,45	0,58	0,16	0,34	**0,58**		Extra palen (2 stuks)	F3
139	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,71	0,57	0,20	0,34	**0,71**		Extra palen (2 stuks)	F3
140	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,49	0,60	0,17	0,36	**0,60**		Extra palen (2 stuks)	F3
141	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,88	1,00	0,22	0,41	**1,00**		Extra palen (2 stuks)	F3
142	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	1,00	0,97	0,20	0,34	**1,00**		Extra palen (2 stuks)	F3
143	Cilinderpoer 75_LD1_S+0	NB S+0 max		3	139&143	2	797 druk en 193 trek	meerdere masten model	797,0	193,0	244,6	125,3	869	696	0,81	0,87	0,22	0,44	**0,87**		Extra palen (2 stuks)	F3
144	Koppelframe_LD1_S+6_144	NB S+6 _144		3	144	2	849 druk en 236 trek	een mast model	849,0	236,0	377,6	92,0	986	783	1,00	1,00	0,57	0,40	**1,00**		Extra palen (2 stuks) + Koppelbalk (beton) +	F5
145	Cilinderpoer 75_LD1_S+6	NB S+6 max		3	144&145	2	931 druk en 295 trek	meerdere masten model	931,0	295,0	242,8	112,0	976	775	0,67	1,00	0,19	0,34	**1,00**		Extra palen (2 stuks) + Versterking verankerin	F3
146 optie 1	Balkrooster_5B_S+9_146	NB S+9_146		3	146	PY Curve 2 met een Reductiefactor van 96%	76 druk en 27 trek	een mast model	76,0	27,0	469,9	168,7	1028	814	1,00	1,00	0,46	0,68	**1,00**	Optie 1 is de werkhypothese	Aanstorting met 3 palen + Versterking verankering	F5
147 optie 1	Balkrooster_5B_S+9_147	NB S+9_147		3	147	PY Curve 2 met een Reductiefactor van 96%	403 druk en 32 trek	een mast model	249,7	32,0	212,2	138,4	1045	833	0,62	1,00	0,29	0,69	**1,00**	Optie 1 is de werkhypothese	Aanstorting met 3 palen + Versterking verankering	F5
148	Blokpoer 200_2LD1_S+12_148	NB S+12_148		3	148	2	856 druk en 196 trek	een mast model	856,0	196,0	491,4	401,9	1114	897	1,00	1,00	0,28	0,77	**1,00**		Extra palen (2 stuks) blokpoer + Versterking verankering	F5