

Postbus 718, 6800 AS Arnhem, Nederland

College van Burgemeester en Wethouders
van de gemeente Loppersum
Postbus 25
9919 ZG Loppersum

| | |
|-----------------|-----------------|
| DATUM | 29 januari 2016 |
| UW REFERENTIE | |
| ONZE REFERENTIE | |
| BEHANDELD DOOR | |
| E-MAIL | |
| AANTAL BIJLAGEN | 12 |

BETREFT Aanvraag omgevingsvergunning voor de realisatie van de nieuwe hoogspanningsverbinding Eemshaven Oudeschip – Vierverlaten 380 kV (DEFINITIEVE ACTIVITEITEN).

Geacht College,

Hierbij vraagt TenneT op grond van artikel 2.1 en 2.2 van de Wet algemene bepalingen omgevingsrecht een omgevingsvergunning aan voor de realisatie van een nieuwe hoogspanningsverbinding tussen Eemshaven Oudeschip en Vierverlaten. Zoals besproken in het vooroverleg, bevat deze aanvraag enkel de activiteiten die definitief zijn. Ten aanzien van de tijdelijke activiteiten heeft u van ons een separate aanvraag ontvangen.

Achtergrond

Voor de nieuwe hoogspanningsverbinding tussen Eemshaven en Vierverlaten wordt door de ministers van Economische Zaken en Infrastructuur en Milieu een inpassingsplan opgesteld. Deze vergunningaanvraag is in overeenstemming met dit inpassingsplan (Eemshaven Oudeschip – Vierverlaten 380 kV). De besluitvorming vindt plaats volgens de Rijkscoördinatieregeling. Dat betekent onder meer dat de publicatie van de (ontwerp)besluiten op de vergunningaanvragen en het vaststellingsbesluit van het inpassingsplan op hetzelfde moment plaats vinden. Om die reden moet deze vergunningaanvraag getoetst worden aan het concept inpassingsplan in plaats van aan het vigerende bestemmingsplan.

In de algemene projectomschrijving (bijlage ALG000) is meer informatie opgenomen over het project, de Rijkscoördinatieregeling en de onderhavige aanvraag.

Vooroverleg

In periode voorafgaand aan de indiening van deze aanvraag, is door TenneT vooroverleg gevoerd met alle betrokken bevoegde gezagen. Binnen uw gemeente hebben wij gesproken met mevrouw A van de Water en de heer P. Schipper.

Tijdens deze gesprekken is een toelichting gegeven op het project, de vergunningsplichtige activiteiten binnen het project en de indieningsvereisten per type vergunning. Tijdens de gesprekken is aangegeven dat de aanvragen die wij op dit moment indienen op sommige vlakken slechts principes/hoofdpijnen bevatten. De uitvoerend aannemer zal de detailinformatie (tekeningen, berekeningen en werkplannen) ter goedkeuring bij u indienen voorafgaand aan de start uitvoering van de werkzaamheden.

Activiteiten

Deze aanvraag omgevingsvergunning omvat de volgende activiteiten:

- Overig bouwwerk bouwen
- Kappen

In de onderstaande paragrafen gaan wij nader in op de hierboven genoemde activiteiten. Hierbij beschrijven wij de verschillende objecten, dan wel werkzaamheden die onder de betreffende activiteit vallen en verwijzen wij naar de verschillende bijlagen waarin deze objecten, dan wel werkzaamheden, nader omschreven worden of uitgewerkt zijn in (technische) tekeningen.

Omgevingsvergunning bouwen

Op grond van de Wet algemene bepalingen omgevingsrecht, artikel 2.1 is voor het maken van permanente bouwwerken een omgevingsvergunning nodig.

Objecten/werkzaamheden

TenneT vraagt hierbij een omgevingsvergunning bouwen aan voor:

- o de bouw van 43 Wintrackmasten (380kV masten 704 t/m 746)

Hierbij moet worden vermeld dat mast 708 is komen te vervallen.

Bijlagen

Gegevens relevant voor het onderdeel bouwen zijn opgenomen in de volgende bijlagen:

- o ALG000: Projectomschrijving diverse constructieve onderdelen
- o ALG001: Overzichtstekening gehele tracé
- o ALG002: Algemene informatie over Wintrackmasten
- o WAB003: Gemeentelijke situatietekening met mastposities
- o WAB004: Lengteprofielen met coördinaten en hoogtes van masten en geleiders
- o WAB005: Kadastrale gegevens per mastlocatie
- o WAB006: Mastenlijst met technische tekeningen per masttypen met berekeningen
- o WAB007: Technische tekeningen fundering met berekeningen
- o WAB009: Visualisatie Wintrackmast in landschap
- o WAB010: Mastenboek met detailtekening per mast
- o WAB011: Rapportages veldonderzoeken per mast

Belangrijke informatie

Ten aanzien van het bouwen van de Wintrackmasten vermelden wij dat de exacte uitvoering van de Wintrackmasten nu nog niet bekend is. Het aanbestedingstraject is erop gericht om mede aan de hand van de ontwerp- en uitvoeringskennis van aanbiedende partijen tot een keuze voor een technisch economisch optimale duurzame uitvoering te komen en laat uitvoering van de masten toe in staal, in beton of in een hybride versie. Onder verwijzing naar artikel 2.7 van de Regeling omgevingsrecht (Mor) verzoeken wij u derhalve om in uw besluit te bepalen dat de in artikel 2.7 lid 1 Mor genoemde gegevens later ter goedkeuring zullen worden aangeleverd.

Tegen deze achtergrond bevat de aanvraag de constructieprincipes voor de hoogspanningsmasten en voor hun fundamenteën, uitgevoerd in staal, beton of de hybride versie, waaruit blijkt dat de masten voldoen aan de relevante normen uit het Bouwbesluit en de Bouwverordening.

Tevens is bij de aanvraag een visualisatie (WAB009) opgenomen voor de Wintrackmasten, waaraan de masten – ongeacht in welk materiaal uitgevoerd – aan voldoen. Deze visualisaties zijn ter advisering voorgelegd aan de Commissie van Rijksadviseurs (CRa), die een positief advies afgegeven heeft.

Ten aanzien van het materiaalgebruik en onderhoud van de masten vermelden wij dat het uitgangspunt is dat alle hoogspanningsmasten binnen de verbinding in dezelfde materiaalsoort worden uitgevoerd (beton, staal of een combinatie daarvan). Materiaalwisseling kan alleen aan de orde zijn wanneer er een zwaarwegende technisch of economische reden is.

In het kader van de hiervoor gevraagde flexibiliteit in uw besluit inzake de Wintrackmasten, verzoeken wij u tevens om ten aanzien van de hoogte van de masten te bepalen dat de hoogte van de masten met maximaal 5 meter mag afwijken ten opzichte van de op tekening aangegeven hoogte. De uiteindelijke maximale hoogte van masten zal uiteraard passen binnen de grenzen van het inpassingsplan.

Onder verwijzing naar artikel 2.7 van de Regeling omgevingsrecht (Mor) verzoeken wij u derhalve om in uw

besluit te bepalen dat de in artikel 2.7 lid 1 Mor genoemde gegevens voorafgaand aan de uitvoerende werkzaamheden ter goedkeuring zullen worden aangeleverd.

Tegen deze achtergrond bevat de aanvraag omgevingsvergunning de constructieprincipes voor de hoogspanningsmasten en voor hun fundamenten. Per masttype is een berekening van de hoofd draagconstructie toegevoegd, uitgevoerd in staal, in beton en met een betonnen voet en een stalen top. Per funderingstype is tevens een berekening van de hoofd draagconstructie toegevoegd. Concreet en refererend aan artikel 2.7 lid 2 Mor, bevat de aanvraag de volgende gegevens:

- Technische tekeningen van masten (WAB006) en Fundamenten (WAB007), met indicatieve maatvoering
- schematisch funderingsoverzicht/palenplan (WAB007)
- overzichtstekeningen van constructies en principedetails van karakteristieke constructieonderdelen, met indicatieve maatvoering en toelichtingen op de ontwerpen van de constructies (WAB006 en WAB007)
- de berekeningen voor de masten en de funderingen, waaruit blijkt dat de masten aan de relevante normen en de voorschriften uit het Bouwbesluit en de Bouwverordening zullen voldoen (WAB006 en WAB007).

Ten behoeve van de welstandstoets bevat de aanvraag voorts de gegevens genoemd in artikel 2.5 Mor.

Omgevingsvergunning kappen

Op grond van de Wet algemene bepalingen omgevingsrecht, artikel 2.2, is een vergunning nodig voor het vellen of doen vellen van houtopstanden.

Objecten/werkzaamheden

TenneT vraagt hierbij een omgevingsvergunning bouwen aan voor:

- Het kappen van 6 bomen

Bijlagen

Gegevens relevant voor het onderdeel bouwen zijn opgenomen in de volgende bijlagen:

- ALG000: Projectomschrijving diverse constructieve onderdelen
- ALG001: Overzichtstekening gehele tracé
- WAB005: Kadastrale gegevens per mastlocatie
- WAB017: Situatietekening kap met bomenlijst

Belangrijke informatie

Ten aanzien van bomen die op grond van derden staan, wordt met deze derden voor het aanwezig zijn van mast of geleiders een zakelijk recht overeenkomst afgesloten. In deze overeenkomst worden ook afspraken gemaakt over het kappen van bomen onder of direct naast de geleiders en masten. Als toekomstig eigenaar van dit zakelijk recht is TenneT een belanghebbende partij en daarmee gerechtigd om een kapvergunning aan te vragen.

Geldigheid vergunning/toestemming

Voor zover in een vergunning/toestemming een termijn van geldigheid wordt opgenomen, verzoeken u vergunning/toestemming te verlenen met een geldigheid van 3 jaar na onherroepelijk worden van het besluit.

Rijkscoördinatieprocedure

Ten aanzien van uw besluit op deze aanvraag ingevolge artikel 2.1 van de Wet algemene bepalingen omgevingsrecht is op grond van artikel 20c Elektriciteitswet j° artikel 2 lid 1 onder a Uitvoeringsbesluit rijkscoördinatieprocedure energie-infrastructuurprojecten de Rijkscoördinatieprocedure uit de Wet op de ruimtelijke ordening van toepassing (artikel 3.35). Hierbij is de minister van Economische Zaken de aangewezen minister voor de coördinatie.

In verband daarmee heeft de minister van Economische Zaken ons gevraagd het volgende op te nemen in

deze aanvraag:

1. Ingevolge de Rijkscoördinatieregeling dient u een kopie van onderhavige aanvraag te verzenden aan de minister van Economische Zaken. TenneT zal er echter voor zorgen dat de minister van Economische Zaken een exemplaar van deze aanvraag ontvangt. U hoeft dus geen exemplaar door te sturen.
2. In reactie op deze kopie van de aanvraag zal de minister u per brief melden wanneer van u verwacht wordt een ontwerpbesluit gereed te hebben.
3. U wordt verzocht het ontwerpbesluit en later ook het besluit aan de minister van Economische Zaken te verzenden. Deze zal het besluit doorzenden naar TenneT.

Meer informatie over deze procedure is opgenomen in de projectomschrijving (ALG000).

Correspondentie

Wij verzoeken u alle inhoudelijke correspondentie met betrekking tot deze aanvraag te richten aan:

TenneT TSO B.V.

**Postbus 718
6800 AS Arnhem**

Wij verzoeken u het ontwerpbesluit en het besluit te richten aan:

**Ministerie van Economische Zaken
T.a.v. Bureau Energieprojecten
Postbus 93144
2509 AC Den Haag**

Wij verzoeken u de legesfactuur onder vermelding van **projectnummer 000.144.21** te richten aan:

TenneT TSO B.V.

**Postbus 718
6800 AS Arnhem**

Alleen in het geval wordt voldaan aan voorgaand verzoek, kunnen wij garanderen dat de betaling van de legesfactuur plaatsvindt binnen dertig dagen na ontvangst van de factuur.

Nalevering

Wij verzoeken u om in het besluit op de aanvraag omgevingsvergunning te bepalen dat de gegevens en bescheiden als bedoeld in:

- o artikel 2.7 lid 1 Mor
- o artikel 2.7 lid 3 Mor

uiterlijk binnen een termijn van 3 weken voor de start van de uitvoering van de desbetreffende handeling mogen worden overgelegd.

Voor procedurele vragen verzoeken wij u contact op te nemen met Bureau Energieprojecten, telefoon 070 379 8979.

Graag ontvangen wij een ontvangstbevestiging van deze aanvraag.

Uw nader bericht zien wij met belangstelling tegemoet.

Met vriendelijke groet,
TenneT TSO B.V.

Bijlagen:12

Formulierversie
2016.01

Aanvraaggegevens

Ingediende aanvraag/melding

| | |
|-------------------|---------------------|
| Aanvraagnummer | 1748185 |
| Aanvraagnaam | LP-OMGV lijn-def EV |
| Uw referentiecode | |

| | |
|-----------------|---------------------|
| Ingediend op | 29-01-2016 |
| Soort procedure | Reguliere procedure |

| | |
|---------------------------------|---|
| Projectomschrijving | Tussen Eemshaven Oudeschip en Vierverlaten wordt een nieuwe 380 kV hoogspanningsverbinding gerealiseerd. Zie ALG000 voor meer informatie. |
| Opmerking | In de aanvraagbrief worden de werkzaamheden toegelicht. Wij willen u erop attenderen dat deze vergunningaanvraag onder de rijkscoördinatieregeling moet worden afgehandeld. |
| Gefaseerd | Nee |
| Blokkerende onderdelen weglaten | Ja |
| Persoonsgegevens openbaar maken | Ja |
| Kosten openbaar maken | Nee |
| Bijlagen die later komen | Definitieve tekeningen en constructieve tekeningen worden uitgewerkt door een aannemer en worden uiterlijk drie weken voor aanvang start werkzaamheden overgelegd. |
| Bijlagen n.v.t. of al bekend | Onzes inziens is de aanvraag met bijgevoegde bijlagen ontvankelijk. |

Bevoegd gezag

| | |
|-----------------------|---------------------------------|
| Naam: | Gemeente Loppersum |
| Bezoekadres: | Molenweg 12 te Loppersum |
| Postadres: | Postbus 25 9919 ZG Loppersum |
| Telefoonnummer: | 0596-548200 |
| Faxnummer: | 0596-548201 |
| E-mailadres algemeen: | gemeente@loppersum.nl |
| Website: | www.loppersum.nl |

Overzicht bijgevoegde modulebladen

Aanvraaggegevens

Aanvragergegevens

Locatie van de werkzaamheden

Werkzaamheden en onderdelen

Overig bouwwerk bouwen

- Bouwen

Kappen

- Kappen

Bijlagen

Kosten

Aanvrager bedrijf

1 Bedrijf

| | |
|------------------|-----------------|
| KvK-nummer | 09155985 |
| Vestigingsnummer | 000020300360 |
| Statutaire naam | TenneT TSO B.V. |
| Handelsnaam | TenneT TSO |

2 Contactpersoon

| | |
|--------------|---|
| Geslacht | <input checked="" type="checkbox"/> Man <input type="checkbox"/> Vrouw |
| Voorletters | |
| Voorvoegsels | - |
| Achternaam | |
| Functie | - |

3 Vestigingsadres bedrijf

| | |
|----------------------|--------------|
| Postcode | 6812AR |
| Huisnummer | 310 |
| Huisletter | - |
| Huisnummertoevoeging | - |
| Straatnaam | Utrechtseweg |
| Woonplaats | ARNHEM |

4 Correspondentieadres

| | |
|----------|--------|
| Postbus | 718 |
| Postcode | 6800AS |
| Plaats | Arnhem |

5 Contactgegevens

| | |
|----------------|---|
| Telefoonnummer | |
| Faxnummer | - |
| E-mailadres | |

Locatie

1 Kadastraal perceelnummer

| | |
|--|--|
| Burgerlijke gemeente | Loppersum |
| Kadastrale gemeente | <input checked="" type="checkbox"/> Loppersum |
| Kadastrale sectie | E |
| Kadastraal perceelnummer | 356 |
| Bouwplannaam | - |
| Bouwnummer | - |
| Gelden de werkzaamheden in deze aanvraag/melding voor meerdere adressen of percelen? | <input checked="" type="checkbox"/> Ja <input type="checkbox"/> Nee |
| Specificatie locatie | Zie bijlage WAB005 met een opsomming van alle betrokken kadastrale percelen. |

2 Eigendomssituatie

| | |
|-----------------------------------|---|
| Eigendomssituatie van het perceel | <input type="checkbox"/> U bent eigenaar van het perceel <input type="checkbox"/> U bent erfpachter van het perceel <input type="checkbox"/> U bent huurder van het perceel <input checked="" type="checkbox"/> Anders |
| Uw belang bij deze aanvraag | Zakelijk recht. |

Bouwen

Overig bouwwerk bouwen

1 De bouwwerkzaamheden

Wat is er op het bouwwerk van toepassing?

- Het wordt geheel vervangen
 Het wordt gedeeltelijk vervangen
 Het wordt nieuw geplaatst

Eventuele toelichting

Realisatie van nieuwe Wintrackmasten met de mastnummers 704-746.

Hebt u voor deze bouwwerkzaamheden al eerder een vergunning aangevraagd?

- Ja
 Nee

2 Plaats van het bouwwerk

Waar gaat u bouwen?

Terrein

3 Bruto vloeroppervlakte bouwwerk

Verandert de bruto vloeroppervlakte van het bouwwerk door de bouwwerkzaamheden?

- Ja
 Nee

4 Bruto inhoud bouwwerk

Verandert de bruto inhoud van het bouwwerk door de bouwwerkzaamheden?

- Ja
 Nee

5 Oppervlakte bebouwd terrein

Verandert de bebouwde oppervlakte van het terrein na uitvoering van de bouwwerkzaamheden?

- Ja
 Nee

6 Seizoensgebonden en tijdelijke bouwwerken

Gaat het om een seizoensgebonden bouwwerk?

- Ja
 Nee

Gaat het om een tijdelijk bouwwerk?

- Ja
 Nee

7 Gebruik

Waar gebruikt u het bouwwerk en/of terrein momenteel voor?

- Wonen
 Overige gebruiksfuncties

Geef aan waar u het bouwwerk en/of terrein momenteel voor gebruikt.

De gronden worden momenteel conform vigerende bestemming gebruikt door derden.

Waar gaat u het bouwwerk voor gebruiken?

- Wonen
 Overige gebruiksfuncties

Geef aan waar u het bouwwerk voor gaat gebruiken.

De bouw geschiedt ten behoeve van het nieuwe 380 kV tracé Eemshaven Oudeschip - Vierverlaten.

8 Gebruiksfuncties

In onderstaande tabel staan in de eerste kolom mogelijke gebruiksfuncties die in een bouwwerk kunnen voorkomen. Vul voor alle gebruiksfuncties die voor u van toepassing zijn het aantal personen, de totale gebruiksoppervlakte en de totale vloeroppervlakte van het verblijfsgebied in m2 in hele getallen in.

| Gebruiksfunctie | Aantal personen | Gebruiksoppervlakte (m2) | Verblijfsoppervlakte (m2) |
|--------------------------|-----------------|--------------------------|---------------------------|
| Bijeenkomst | | | |
| Cel | | | |
| Gezondheidszorg | | | |
| Industrie | | | |
| Kantoor | | | |
| Logies | | | |
| Onderwijs | | | |
| Sport | | | |
| Winkel | | | |
| Overige gebruiksfuncties | | | |

9 Uiterlijk bouwwerk/welstand

Beschrijf van de onderstaande onderdelen de materialen en kleuren die u voor het bouwwerk gebruikt. U mag het veld leeg laten als u materialen en kleuren in de bijlagen vermeldt

| Onderdelen | Materiaal | Kleur |
|-----------------------|-----------|-------|
| Gevels | | |
| - Plint gebouw | | |
| - Gevelbekleding | | |
| - Borstweringen | | |
| - Voegwerk | | |
| Kozijnen | | |
| - Ramen | | |
| - Deuren | | |
| - Luiken | | |
| Dakgoten en boeidelen | | |
| Dakbedekking | | |

Vul hier overige onderdelen en bijbehorende materialen en kleuren in.

Zie bijlage ALG002.

10 Mondeling toelichten

Ik wil mijn bouwplan mondeling toelichten voor de welstandscommissie/stadsbouwmeester.

- Ja
 Nee

Kappen

1 Kappen

Wat wilt u gaan doen?

Kappen

Anders

Om hoeveel houtopstanden gaat het?

6

Beschrijf per houtopstand om welk soort houtopstand het gaat.

Zie bijlage WAB017 voor een bomeninventarisatie met bijbehorende tekeningen.

Beschrijf per houtopstand de locatie op het voor-, zij-, of achtererf.

Zie bijlage WAB017 voor een bomeninventarisatie met bijbehorende tekeningen.

Geef per houtopstand de diameter van de stam in centimeter, gemeten op 1,30 m boven het maaiveld.

Zie bijlage WAB017 voor een bomeninventarisatie met bijbehorende tekeningen.

Beschrijf per houtopstand of er een mogelijkheid is tot herbepplanten en, zo ja, of u dat van plan bent. Geef in het geval van herbepplanten aan op welke locatie en met welke soorten u dat wilt gaan doen.

Zie WAB017.


Geef eventueel een toelichting op wat u gaat doen.

-

Bijlagen

Formele bijlagen

| Naam bijlage | Bestandsnaam | Type | Datum ingediend | Status document |
|------------------------------|------------------------------|--------|-----------------|-----------------|
| BRIEF Wabo Loppersum def | BRIEF_Wabo LP def.pdf | Anders | 2016-01-29 | In behandeling |
| ALG000 - projectomschrijving | ALG000_Alg Proj LP def.pdf | Anders | 2016-01-29 | In behandeling |
| ALG001 - trace tek | ALG001 - trace tek.pdf | Anders | 2016-01-29 | In behandeling |
| ALG002 brochure wt | ALG002 brochure wt.pdf | Anders | 2016-01-29 | In behandeling |
| WAB003 - sit tek gem | WAB003 - sit tek gem.pdf | Anders | 2016-01-29 | In behandeling |
| WAB004 - lengteprofiel | WAB004 - lengteprofiel.pdf | Anders | 2016-01-29 | In behandeling |
| WAB005 - kad numm | WAB005 - kad numm.pdf | Anders | 2016-01-29 | In behandeling |
| WAB006 - tech tek mast | WAB006 - tech tek mast.pdf | Anders | 2016-01-29 | In behandeling |
| WAB007 - tech tek fund | WAB007 - tech tek fund.pdf | Anders | 2016-01-29 | In behandeling |
| WAB009 - visualisaties | WAB009 - visualisaties.pdf | Anders | 2016-01-29 | In behandeling |
| WAB010 - mastenboek | WAB010 - mastenboek.pdf | Anders | 2016-01-29 | In behandeling |
| WAB011 - veldonderzoeken | WAB011 - veldonderzoeken.pdf | Anders | 2016-01-29 | In behandeling |
| WAB017 tek kap | WAB017 tek kap.pdf | Anders | 2016-01-29 | In behandeling |



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Kosten

Bouwen

Overig bouwwerk bouwen

Wat zijn de geschatte kosten in euro's (exclusief BTW)?

Projectkosten

Wat zijn de geschatte kosten voor het totale project in euro's (exclusief BTW)?

| Nummer | Bijlagen omgevingsvergunning Gemeente Loppersum NW380 kV (13) | | | | |
|--------|--|--------|---------------|------------|-------------|
| | Titel | Versie | Tekening/docu | Vergunning | Opmerkingen |
| 1 | ALG000: Projectomschrijving | | | WABO | |
| 2 | ALG001: Overzichtstekening gehele tracé | | | WABO | |
| 3 | ALG002: Algemene informatie over Wintrackmasten | | | WABO | |
| 4 | WAB003: Gemeentelijke situatietekeningen met mastposities | | | WABO | |
| 5 | WAB004: Lengteprofielen met coördinaten en hoogtes van masten en geleiders | | | WABO | |
| 6 | WAB005: Kadastrale gegevens per mastlocatie | | | WABO | |
| 7 | WAB006: Mastenlijst met technische tekeningen per masttypen met berekeningen | | | WABO | |
| 8 | WAB007: Technische tekeningen funderingen met berekeningen | | | WABO | |
| 9 | WAB009: Visualisatie Wintrackmast in landschap | | | WABO | |
| 10 | WAB010: Mastenboek met detailtekening per mast | | | WABO | |
| 11 | WAB011: Rapportages veldonderzoek per mast | | | WABO | |
| 12 | WAB017: Situatietekening kap met bomenlijst | | | WABO | |

Bijlage 1
Projectomschrijving

ONDERWERP: PROJECTOMSCHRIJVING EEMSHAVEN OUDESCHIP – VIERVERLATEN 380 KV

VERSIE: 19-01-2016

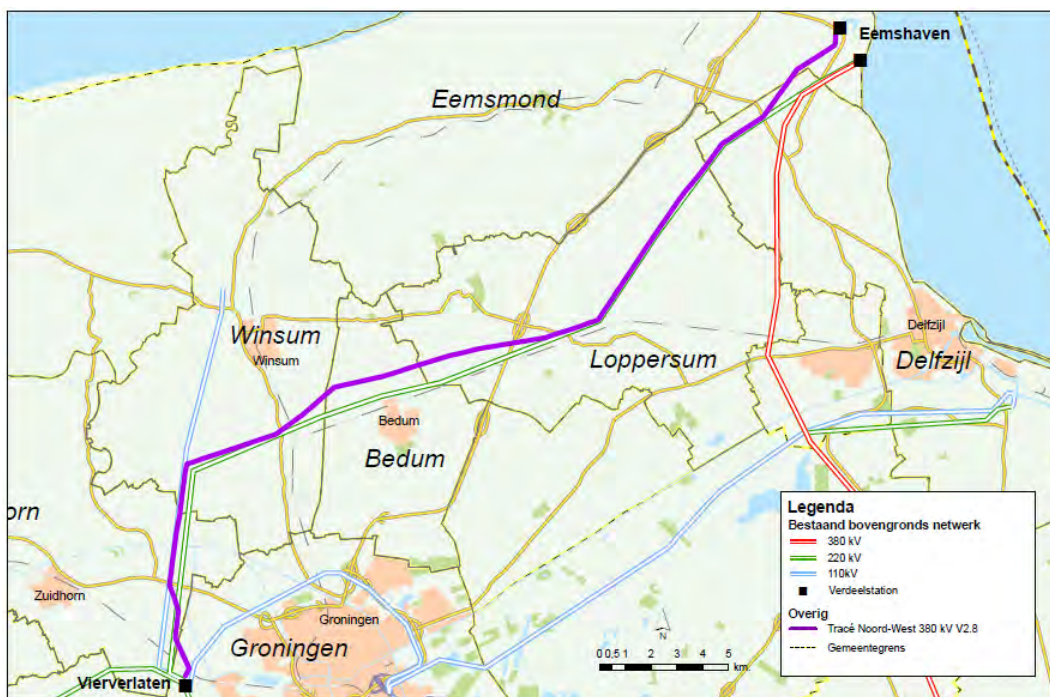
1. Inleiding

Dit document betreft een projectomschrijving, specifiek voor de onderhavige aanvraag Omgevingsvergunning definitieve activiteiten.

Naast een algemene omschrijving van het project "Noord-West 380kV Eemshaven Oudeschip – Vierverlaten" en de noodzaak voor realisatie van deze nieuwe verbinding, volgt een omschrijving van het algemene werkproces. Dit als indicatie van de fysieke werkzaamheden die straks plaats zullen vinden en de doorlooptijd hiervan. De aannemer voorziet in een later stadium in gedetailleerde werkplannen en werkplanningen. Tot slot volgt een opsomming van alle bijlagen die bij deze aanvraag gevoegd zijn. Per bijlage wordt kort toegelicht welke informatie in die bijlage te vinden is en worden eventuele bijzonderheden toegelicht.

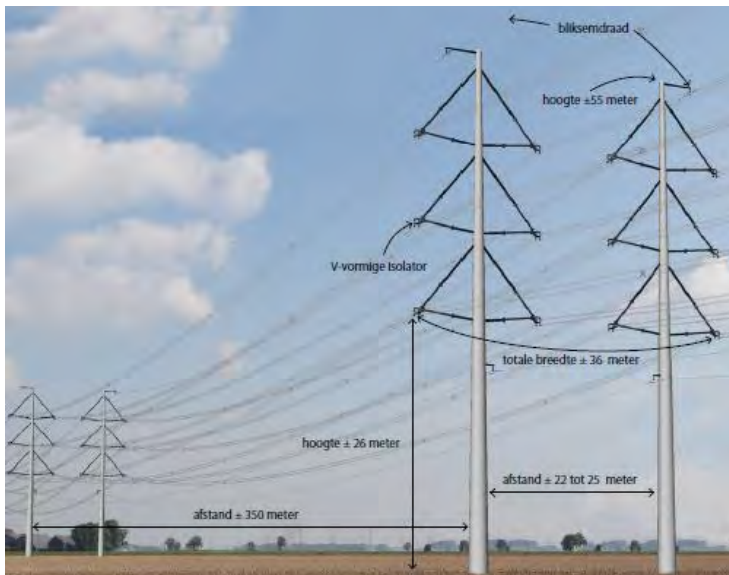
1.1 Nut, noodzaak en project

De energievoorziening in Europa en Nederland verduurzaamt. De hoeveelheid duurzaam opgewekte stroom groeit en daarmee de fluctuaties in het net. TenneT wil daarom tussen het hoogspanningstation Eemshaven-Oudeschip en het hoogspanningsstation Vierverlaten, een nieuwe 380 kV hoogspanningsverbinding bouwen. Het project "Noord-West 380kV Eemshaven Oudeschip – Vierverlaten" draagt bij aan de betrouwbaarheid van het elektriciteitsnet zodat meer duurzaam opgewekte energie kan worden getransporteerd en vraag en aanbod over een groter gebied in balans kunnen worden gebracht.



Afbeelding 1: Tracé nieuwe 380 kV verbinding

Voor het bouwen van de verbinding wordt een nieuw type mast gebruikt: de Wintrackmast. Deze mast heeft door zijn ranke vormgeving minder effect op het landschap. Hij bestaat uit twee pilaarvormige palen en is witgrijs van kleur. Een belangrijke eigenschap van de Wintrackmast is dat deze een compact magneetveld heeft.



Afbeelding 2: Standaard Wintrackmast

1.2 Vier circuits 380 kV

De verbinding Eemshaven Oudeschip – Vierverlaten wordt gebouwd als 4 x 380 kV verbinding die in eerste instantie wordt bedreven op 2-circuits. Dit betekent dat de masten en de fundering worden gebouwd voor een 4-circuit 380 kV verbinding, maar dat in eerste instantie 2 circuits worden opgehangen. In de praktijk betekent dit dat er in eerste instantie alleen aan de binnenzijde van de masten geleiders worden opgehangen. De masten 648 (nabij station Vierverlaten) tot 673 (Brillerij) worden direct uitgevoerd met 4 circuits. Dit zodat ook de parallel lopende 110kV verbinding tussen station Vierverlaten en Winsum hierin wordt opgehangen.

Doordat op de lange termijn wordt verwacht dat de behoefte aan transportcapaciteit stijgt, is er gekozen om de verbinding voor te bereiden op 4 circuits 380 kV, zodat in een later stadium ook aan de buitenzijde geleiders opgehangen kunnen worden. Hiermee heeft de verbinding voldoende capaciteit om de voorziene transportstromen op korte en lange termijn te faciliteren, terwijl er bovendien toekomstige uitbreidingsmogelijkheden ontstaan zonder dat tijdrovende procedures moeten worden doorlopen of op dat moment een volledig nieuwe verbinding gebouwd zal moeten worden. Hierdoor wordt een belangrijke bijdrage geleverd aan de behoefte uit de energietransitie aan flexibele en toekomstbestendige oplossingen die snel en eenvoudig in kunnen spelen op ontwikkelingen. Een groot voordeel hiervan is dat als de uitbreiding nodig is, de kosten aanvaardbaar zijn, er geen extra ruimte nodig is en er minimale werkzaamheden hoeven plaats te vinden. Dit beperkt ook de overlast voor de omgeving.

1.3 Werkproces

Tijdens het bouwen van de hoogspanningsverbinding is werkverkeer nodig in de omgeving van de mastlocaties. Uitgangspunt hierbij is dat dit werkverkeer zoveel mogelijk routes aanhoudt die het minste overlast veroorzaken. Ook is groot transport nodig, bijvoorbeeld voor het aanleveren van de onderdelen van de masten. De uitvoerende aannemer stemt dit transport voorafgaand aan de start van de werkzaamheden met de gemeente af. Bij de aanleg van de nieuwe verbinding kan het gebeuren dat wegen tijdelijk worden afgesloten en daarom omleidingen noodzakelijk zijn. Ook deze afsluitingen worden door de uitvoerende aannemer tijdig met de gemeente afgestemd.

Ook wordt tijdelijke bouwinfra (werkterreinen, bouwwegen en inritten) aangelegd om de mastlocaties te kunnen bereiken. Het streven is om van de doorgaande weg zo snel mogelijk naar de bouwplaats te komen, via een openbare weg of via een tijdelijke bouwweg. De realisatie van de bouwinfra maakt onderdeel uit van de aan te vragen vergunningprocedures.

Voor de aanlegwerkzaamheden van de bovengrondse verbinding worden grofweg de volgende stappen doorlopen: het gereed maken van de bouwplaats en tijdelijke bouwwegen, het aanleggen van de fundering (inclusief bronbemaling), de montage van de mast, het trekken van de geleiders en het weer opruimen van de werklocatie. Zodra alle masten gebouwd zijn worden de geleiders ingehangen. Pas nadat de geleiders in alle masten gehangen zijn en de goede werking van de verbinding is getest, wordt de tijdelijke bouwinfra opgeruimd. Ook het amoveren van oude verbindingen gebeurt in de meeste gevallen pas als de nieuwe verbinding in bedrijf is genomen. Op enkele plaatsen wordt vanwege ruimtegebrek, eerst de huidige verbinding gesloopt.

Bovenstaande betekent dat tijdelijke bouwwegen gedurende 3 jaar in stand moet blijven. Daarna wordt alles ontmanteld en worden terreinen en gronden in oorspronkelijke staat teruggebracht. Met de verschillende grondeigenaren zijn hierover afspraken gemaakt en worden overeenkomsten gesloten.

2. Milieueffectrapport

De besluitvorming over het tracé en de uitvoeringswijze van de verbinding heeft plaats gevonden na vergelijking van de verschillende alternatieven waaronder (milieu)effecten en kosten. De vergelijking vindt plaats in het milieueffectrapport (MER). In het MER is onderzocht welke invloeden de hoogspanningsverbinding heeft op het milieu. Van verschillende alternatieven voor het tracé en de uitvoering van de verbinding zijn de milieueffecten bepaald. De effectenvergelijking maakt een zorgvuldig besluit mogelijk.

3. Rijkscoördinatieregeling

Op grond van artikel 20c Elektriciteitswet is op het project "Noord-West 380kV Eemshaven Oudeschip – Vierverlaten", de Rijkscoördinatieregeling van toepassing. De Rijkscoördinatieregeling voorziet in een gecoördineerde en parallelle besluitvorming van de vereiste besluiten. Dit betekent dat vereiste uitvoeringsbesluiten gecoördineerd worden voorbereid en gelijktijdig met het inpassingsplan bekend worden gemaakt.

In het inpassingsplan is voorzien in de nieuwe bovengrondse 380kV verbinding en ondergrondse aanleg van een aantal 110 kV verbindingen over korte lengte (bij Brillerij in de gemeente Winsum en nabij hoogspanningsstation Vierverlaten). Ook zijn binnen de reikwijdte van dit plan de tijdelijke bouwwegen, alsmede de tijdelijke 150 kV masten voorzien. Dit inpassingsplan maakt de nieuwe verbinding dan ook planologisch mogelijk. De ingekomen aanvragen toetst u derhalve niet aan het vigerende bestemmingsplan, maar aan het inpassingsplan.

Uitzondering hierop zijn enkele bouwwegen, werkterreinen en inritten die (deels) buiten de grens van het

inpassingsplan vallen. Bij deze aanvraag zijn tekeningen gevoegd (WAB003) waarop deze objecten duidelijk aangegeven zijn. Voor deze objecten vragen wij een Omgevingsvergunning uitvoeren Werk of werkzaamheden aan, in combinatie met een Omgevingsvergunning Handelen in strijd met regels ruimtelijke ordening.

De Rijkscoördinatieregeling is bedoeld om sneller besluiten te kunnen nemen, zonder dat dit ten koste gaat van de zorgvuldigheid van de besluitvorming en van de mogelijkheden voor burgers om hierover hun mening te kunnen geven.

De ministers van Economische Zaken (EZ) en van Infrastructuur en Milieu (IenM) zijn het bevoegd gezag voor het project. Zij zijn verantwoordelijk voor de ruimtelijke ontwikkeling van en besluitvorming over de nieuwe verbinding. De ministers bepalen waar deze komt en hoe deze eruit komt te zien. Tijdens de procedure adviseert TenneT de ministers over technische zaken, bouwkosten en over de verschillende mogelijke tracés. Vervolgens is TenneT verantwoordelijk voor het bouwen van de verbinding en voor het beheer nadat deze in gebruik is genomen.

De Rijkscoördinatieregeling schrijft een procedure voor die op een aantal punten afwijkt van de reguliere procedures. Hieronder worden deze afwijkingen kort omschreven.

1. De Rijkscoördinatieregeling volgt de stappen van de uniforme openbare voorbereidingsprocedure uit de Algemene wet bestuursrecht (afdeling 3.4 Awb). Dit betekent dat voor ieder besluit dat genomen wordt, eerst een ontwerpbesluit wordt genomen.
2. Na ontvangst van de vergunningaanvraag moet één exemplaar hiervan doorgestuurd worden naar het ministerie van EZ. Omdat TenneT een afschrift van de aanvraag naar EZ stuurt hoeft u dat niet te doen.
3. Het ontwerpbesluit en het definitieve besluit worden door het bevoegd gezag aan EZ gestuurd, ondanks het feit dat de aanvraag en eventuele aanvullingen namens TenneT worden toegestuurd.
4. Het ministerie van EZ en IenM bepalen op welke datum het (ontwerp)besluit moet worden afgegeven. Deze data worden per brief door het ministerie aan het bevoegd gezag kenbaar gemaakt (spoorboekje).
5. De ter inzage legging van de (ontwerp)besluiten tezamen met het inpassingsplan alsmede de publicatie van de besluiten wordt door het ministerie van EZ verzorgd. Een eigen publicatie is dan ook niet aan de orde.

Voor vragen omtrent de Rijkscoördinatieregeling kunt u terecht bij Bureau Energieprojecten, telefoon 070 379 8979.

4. De aanvraag

De activiteiten waarvoor deze aanvraag wordt ingediend, zijn omschreven in het begeleidend schrijven. In totaal heeft u voor het project "Noord-West 380kV Eemshaven Oudeschip – Vierverlaten", de volgende vergunningaanvragen ontvangen.

- *Omgevingsvergunning definitieve activiteiten*
Bouwen – bouwen van 380 kV masten 704 t/m 746
Kappen – kappen van 6 bomen
- *Omgevingsvergunning tijdelijke activiteiten*
Uitrit – 26 uitritten die uitkomen op gemeentelijke wegen, 2 uitritten die uitkomen op een provinciale weg N46 (uitritten 21 en 22 bij mast 715)
Uitvoeren van werk of werkzaamheden – (gedeelten van) bouwterreinen, (gedeelten van) werkwegen, 28 uitritten, graven/dempen van watergangen
Handelen in strijd met regels ruimtelijke ordening – (gedeelten van) bouwterreinen, (gedeelten van) werkwegen, 28 uitritten, graven/dempen van watergangen

Dit schrijven maakt onderdeel uit van de aanvraag Omgevingsvergunning definitieve activiteiten voor het

bouwen van 380 kV masten 704 t/m 746 en het kappen van 6 bomen.

5. Leeswijzer bijlagen

Voor de volledigheid volgt hieronder een schematisch overzicht van de bijlagen behorende bij onderhavige aanvraag:

| Bijlage | Betreft | Inhoud |
|---------|--|---|
| ALG000 | Projectomschrijving | Nadere toelichting op het project. De leeswijzer bevat een volledig bijlageoverzicht. |
| ALG001 | Overzichtstekening gehele tracé | Overzichtstekening van het gehele tracé Eemshaven (Oudeschip) – Vierverlaten. |
| ALG002 | Algemene informatie over Wintrackmasten | Informatie over de nieuwe Wintrack II masten. |
| WAB003 | Gemeentelijke situatietekening met mastposities | Situatietekeningen per gemeente. |
| WAB004 | Lengteprofielen | Aanzichtstekeningen van de mastverbinding. Deze tekeningen geven de hoogte van de masten aan evenals de hoogte van de geleiders. Per mast worden de x- en y coördinaten aangegeven. |
| WAB005 | Kadastrale gegevens per mastlocatie | Overzichtstekeningen van de mastverbinding inclusief kadastrale gegevens. |
| WAB006 | Mastenlijst met technische tekeningen per masttypen met berekeningen | Mastenlijst waarop per mastnummer het masttype staat. Verder bevat deze bijlage per masttype een constructieve tekening en berekening. |
| WAB007 | Technische tekeningen fundering met berekeningen | Technische tekeningen van het fundament. |
| WAB009 | Visualisatie Wintrackmast in landschap | Visualisatie van Wintrack II masten in een gebiedstyperend landschap. |
| WAB010 | Mastenboek met detailtekening per mast | Situatietekening per mast inclusief tijdelijke werkterreinen, bouwwegen, inritten, tijdelijke/definitieve slootdempingen en slootomleggingen. |
| WAB011 | Rapportages veldonderzoeken (per mast) | Rapportage per mast met relevante onderzoeksgegevens en conclusies voor die locatie voor cultuurtechniek, geohydrologie, grondmechanica, bodem, archeologie en explosieven. |
| WAB017 | Situatietekening kap met bomenlijst | Situatietekeningen van de te kappen bomen, inclusief bomeninventarisatie. |

Bijlage 2
Overzichtstekening gehele tracé

Noord • West 380kV

Tracé EOS-VVL



Legenda

- Bestaand bovengronds netwerk
- 380 kV
- 220 kV
- 110kV
- Alternatieven
- Tracé Noord-West 380 kV V2.9
- Te verwijderen verbinding
- Station VVL2

| | | | |
|---------|----------------|---------|----------|
| Versie | Definitief | Datum | 6-1-2016 |
| Schaal | 1:42.000 | Formaat | 70 x 100 |
| Kenmerk | p_nw380_ALG001 | | |

0 0,5 1 2 5 Kilometers

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Bijlage 3
Algemene informatie over Wintrackmasten

Wintrack

**Een innovatieve oplossing voor nieuwe
hoogspanningsverbindingen**





Wintrack

TenneT heeft een nieuw type hoogspanningsmast ontwikkeld: Wintrack. Deze innovatieve mast vervangt de bestaande vakwerkmast en zorgt voor een forse reductie van de magneetveldzone. Wintrack speelt in op maatschappelijke en technologische ontwikkelingen en maakt het mogelijk om optimaal gebruik te maken van de beschikbare ruimte in de omgeving.

Over TenneT

Als elektriciteitstransporteur zorgt TenneT voor het bewaken van de betrouwbaarheid en de continuïteit van de elektriciteitsvoorziening. Daarbij wordt voortdurend gekeken naar maatschappelijke en technologische ontwikkelingen. TenneT probeert hierop te anticiperen door verbeteringen op het gebied van elektriciteitstransport te ontwikkelen en door te voeren.

Over Wintrack

- Innovatief ontwerp
- Strak vormgegeven masten
- Terughoudend in landschap
- Smaller magneetveld
- Flexibel in gebruik
- Onderhoudsvriendelijk

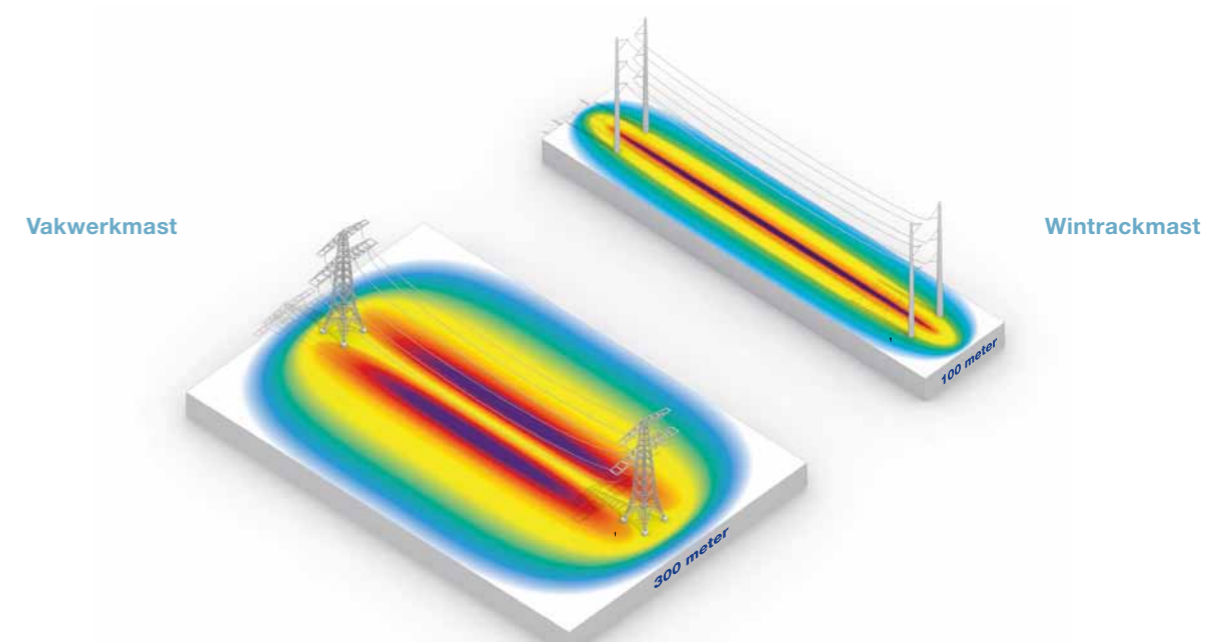
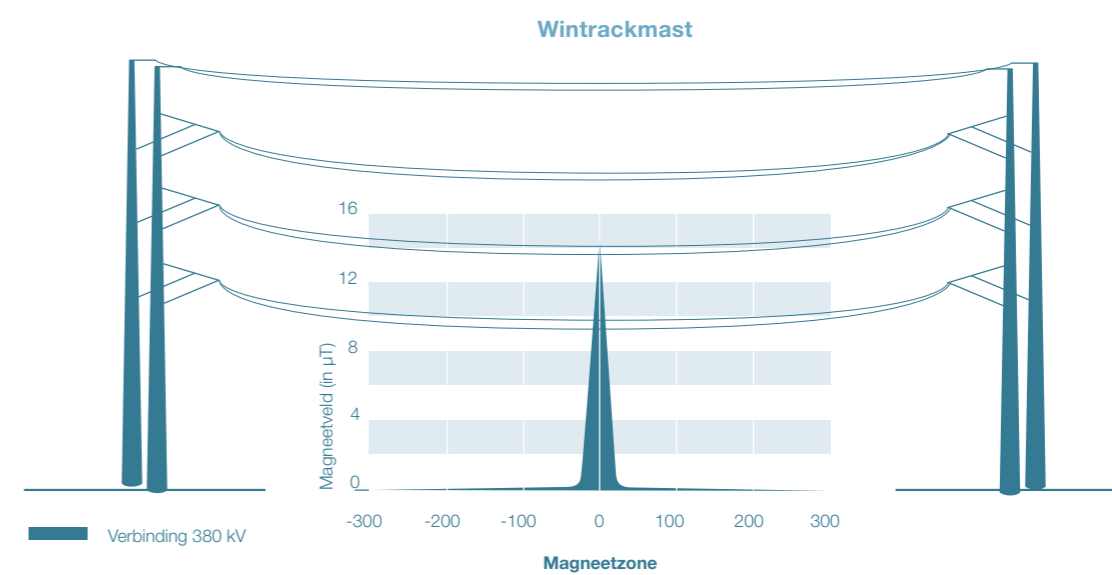
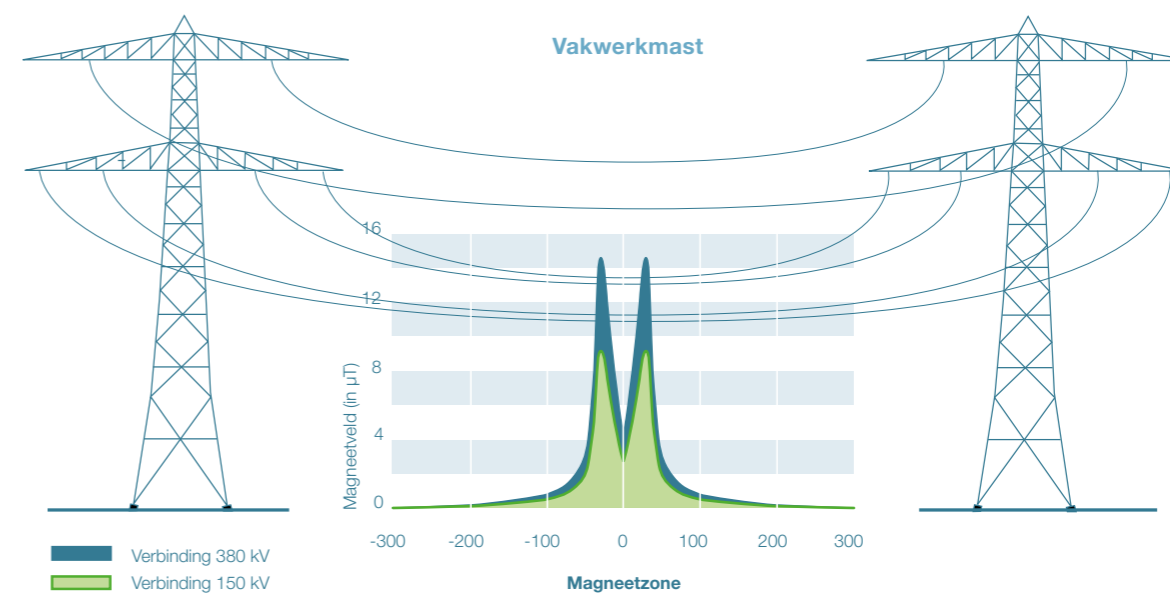
Vormgeving

Wintrack bestaat uit twee palen, waaraan de hoogspanningsdraden worden opgehangen. De slanke en spits toelopende palen staan op het oog los van elkaar. Ze zijn minimalistisch vormgegeven, waarmee voor 'visuele rust' wordt gezorgd. Daardoor passen de masten goed in diverse landschappen. De mast is bovendien onderhoudsarm dankzij de gladde structuur.



Smallere magneetveldzone

Door de draden zo dicht mogelijk bij elkaar op te hangen, wordt de magneetveldzone met meer dan 60 procent teruggebracht. Hierdoor wordt het mogelijk nieuwe verbindingen op een verantwoorde manier aan te leggen, met een minimale impact op mens en landschap.



Combineren van meerdere verbindingen mogelijk

Het Wintrack-ontwerp biedt verder de mogelijkheid om meerdere verbindingen te combineren in één en dezelfde mast. Zo kunnen bestaande 150 kV lijnen gecombineerd worden met 380 kV verbindingen zodat er minder masten nodig zijn. De nieuwe mast biedt hiermee de optimale balans tussen leveringszekerheid en ruimtelijke inpassing.





Afhankelijk van het tracé kunnen masthoogtes en afstanden verschillen

3 soorten wintrack masten



De standaard Wintrackmast

Hierin hangen twee 380 kV verbindingen



De vier circuit Wintrack mast

Hierin hangen vier 380 kV verbindingen



De combinatiemast

Hierin hangt zowel een 150 kV alsook een 380 kV verbinding

TenneT is de eerste grensoverschrijdende elektriciteitstransporteur van Europa. Met 20.000 kilometer aan hoogspanningsverbindingen en 36 miljoen eindgebruikers in Nederland en Duitsland behoren we tot de top 5 elektriciteitstransporteurs van Europa. Onze focus is gericht op de ontwikkeling van een Noordwest-Europese energiemarkt en op de integratie van duurzame energie.

Taking power further

TenneT TSO B.V.

Utrechtseweg 310, Arnhem
Postbus 718, 6800 AS Arnhem
Nederland

Telefoon +31 (0)800 836 63 88

E-mail servicecenter@tennet.eu

www.tennet.eu

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September 2012
CE10630B.NL1209



Bijlage 4
Gemeentelijke situatietekeningen met
mastposities

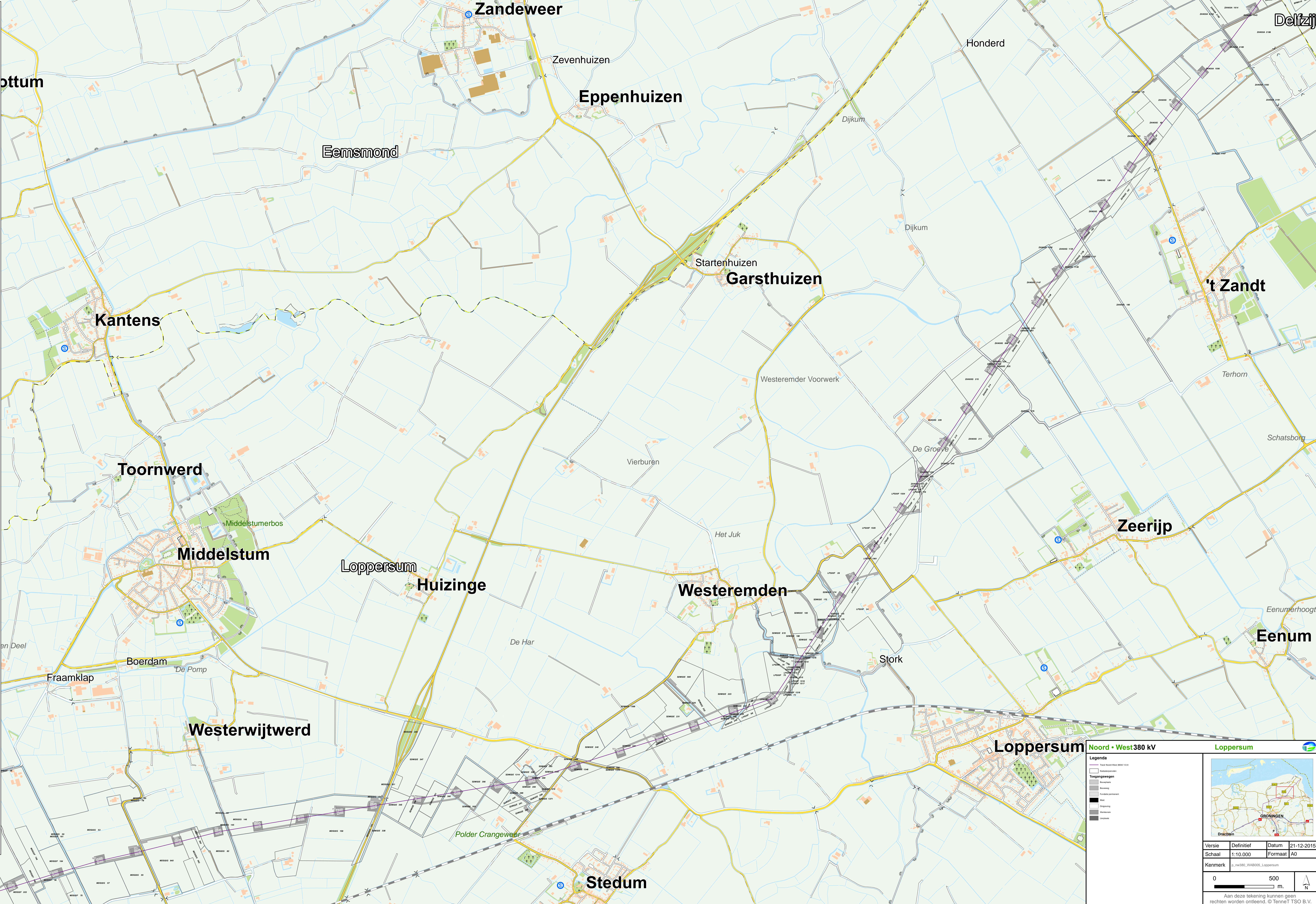
Bijlage 5
Lengteprofielen met coördinaten en
hoogtes van masten en geleiders

Bijlage 6
Kadastrale gegevens per mastlocatie

Noord • West 380kV Kadastergegevens gemeente Loppersum



- Perceel gemeente Loppersum
- PERCEEL
 - BRM01K 141
 - BRM01K 345
 - BRM01K 450
 - BRM01K 497
 - LPS00F 9
 - LPS00F 11
 - LPS00F 12
 - LPS00F 24
 - LPS00F 25
 - LPS00F 26
 - LPS00F 28
 - LPS00F 29
 - LPS00F 68
 - LPS00F 69
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 - LPS00F 1516
 - LPS00F 1517
 - LPS00F 1518
 - LPS00F 1961
 - MDS02F 20
 - MDS02F 36
 - MDS02F 39
 - MDS02F 75
 - MDS02F 161
 - MDS02F 164
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 - SDM02E 1247
 - SDM02E 1248
 - SDM02E 1314
 - SDM02E 1368
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 - SDM02E 1371
 - SDM02E 1372
 - ZAN00A 1543
 - ZAN00A 1550
 - ZAN00A 1554
 - ZAN00A 1797
 - ZAN00A 1858
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 - ZAN00G 901
 - ZAN00G 902
 - ZAN00G 1135
 - ZAN00G 1136
 - ZAN00G 1137
 - ZAN00G 1139
 - ZAN00G 1140
 - ZAN00G 1147
 - ZAN00G 1148
 - ZAN00G 1150
 - ZAN00G 1151
 - ZAN00G 1354



Legenda

- Grondsgrenzen
- Toeslaggrenzen
- Water
- Openbaar gebied
- Groenland
- Water
- Water
- Water

Info

Versie Definitief Datum 21-12-2015

Schaal 1:10.000 Formaat A0

Kenmerk p_m380_WA8005_Loppersum

0 500 m

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Bijlage 7
Mastenlijst met technische tekeningen per
masttypen met berekeningen

ENGINEERING NW 380

Ontwerpbelastingen voor de 4 x 380 kV Wintrack masten familie

TenneT TSO BV

Rapport nr.: 15-2235 revisie 3.0

Datum: 13-01-2016



Projectnaam: Engineering NW 380
Rapport titel: Ontwerpbelastingen voor de 4 x 380 kV Wintrack masten familie
Klant: TenneT TSO BV
Contactpersoon: G. Boudewijn
Datum: 13-01-2016
Project nr.: 74101611
Unit: PMTS/POL
Rapport nr.: 15-2235 revisie 3.0

DNV GL - Energy
Energy Advisory
Postbus 9035
6800 ET ARNHEM

Tel: +31 26 356 9111
KvK 09080262

Auteur:



A. Perzoz
Engineer

Beoordeeld:



B/A
A.J.P. v/d Wekken
senior Engineer

Goedgekeurd:




A. v/d Wal
Head of Section Power Links

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- 1) in een andere taal dan die waarin de rapportage is opgesteld, en/of
- 2) met wijzigingen in de tekst en/of layout van de rapportage

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| Versie | Datum | Reden voor uitgave | Auteur | Beoordeeld | Goedgekeurd |
|--------|-------|--|---------------------|-------------------|-------------|
| 1.0 | | First issue, translated to Dutch from 12-01886 rev 8 | A.Peroz B. Rotte | A.J.P. v/d Wekken | A. v/d Wal |
| 2.0 | | RFA Aanpassingen | R.lommers | A. Peroz | A v/d Wal |
| 3.0 | | RFA Aanpassingen | R.lommers | A. Peroz | A v/d Wal |



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1 SAMENVATTING

Dit rapport is gebaseerd op de het document 74101494-ETD 12-00588 "Update 4x380 Design loads" (Tower loads rev 4.0).

De in dit rapport vermelde ontwerpbelastingen moeten worden gebruikt bij de sterkteberekeningen van de mastlichamen, de dimensionering van de isolatoren, klemmen en andere elektrische componenten. In appendix B is een overzicht weergegeven van de meest extreme belastingen voor de Wintrack masten.

Uplift is niet beschouwd voor de masten aan weerszijde van een verhoogde mast. De belasting op de V-brace isolatoren is niet gecontroleerd voor de verhoogde masten en de masten die aan weerszijde staan. Het is daarom sterk aan te raden om een verificatie uit te voeren voor deze belastinggevallen of de trekisolatoren niet op druk worden belast. Trekisolatoren mogen in geen geval op druk worden belast. De controleberekeningen op uplift zijn weergegeven in het rapport 74101611ETD/POL 12-1876, 1876 "Electrical design report"

Voor alle masttypen zijn de berekeningen gebaseerd op de NEN EN 50341-3-15 met het windgebied gedefinieerd op "2" en het ijsgebied gedefinieerd op "A".

Vanwege de grote hoeveelheid aan gegevens is een MS Excel file (Tower loads 4x380 rev 4.0) bij dit rapport toegevoegd. De Excel file is onderverdeeld in drie masten families.

2 MASTTYPEN

Het Wintrack concept bestaat, afhankelijk van de mastfamilie, uit verschillende masttypen. Voor de NW380 4 x 380kV familie is een onderscheid gemaakt tussen de masten met een spanveld van 350 meter en masten met een spanveld van 400 meter. Het ijsgebied "A" is van toepassing op alle masten in het NW 380 project.

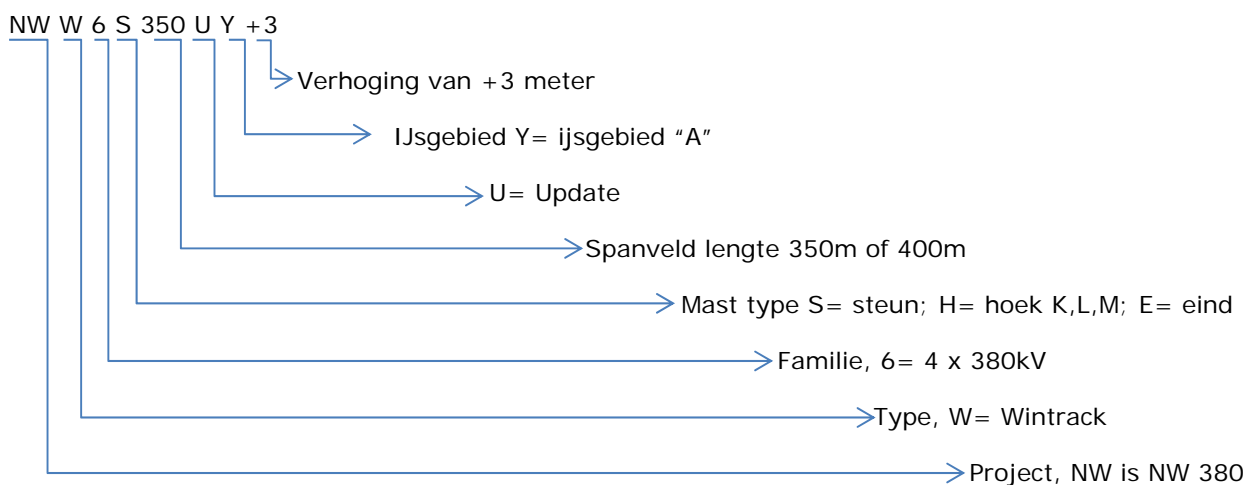
De steunmasten worden toegepast in situaties met een lijnhoek van 175° tot 180°, waarbij een maximum hoek van 2,5° in beide richtingen wordt aangehouden. Deze lijnhoek is niet mogelijk op steunmasten die meer als 9 meter zijn verhoogd.

In dit rapport worden drie type hoekmasten onderzocht en berekend:

- Hoekmast type "K": met een lijnhoek tussen 150° tot 180°
- Hoekmast type "L": met een lijnhoek tussen 130° tot 150°
- Hoekmast type "M": met een lijnhoek tussen 120° tot 130°.

Het uitgangspunt voor de berekeningen van de verhoogde masten is dat aan weerszijde van de verhoogde mast de masten niet verhoogd zijn. Hierdoor wordt uitgegaan van het maximale hoogteverschil tussen de masten en die situatie berekend waarbij de belastingen het hoogst zijn.

De aanduiding van de masttype is als volgt opgebouwd:



In Tabel 1 is een overzicht gegeven van de onderzochte masttypen.

Tabel 1: Overzicht onderzochte mast typen

| Mast type | Aanduiding |
|---------------|--|
| NWW6S350UY | 4 circuit 380kV steunmast, span 350m, lijnhoek 175°-180° |
| NWW6S350UY+3 | 4 circuit 380kV steunmast, span 350m, met 3m verhoging, lijnhoek 175°-180° |
| NWW6S350UY+21 | 4 circuit 380kV steunmast, span 350m met 21m verhoging, geen lijnhoek |
| NWW6HK350UY | 4 circuit 380kV hoekmast, span 350m, lijnhoek 150°-180° |
| NWW6HL350UY | 4 circuit 380kV hoekmast, span 350m, lijnhoek 130°-150° |

| Mast type | Aanduiding |
|-------------|--|
| NWW6HM350UY | 4 circuit 380kV hoekmast, span 350m, lijnhoek 120°-130° |
| NWW6S400UY | 4 circuit 380kV steunmast, span 400m, lijnhoek 175°-180° |
| NWW6HK400UY | 4 circuit 380kV hoekmast, span 400m, lijnhoek 150°-180° |
| NWW6HM400UY | 4 circuit 380kV hoekmast, span 400m, lijnhoek 120°-130° |
| NWW6E350UY | 4 circuit 380kV eindmast, span 350 m, lijnhoek 180°. |
| NWW6E400UY | 4 circuits 380kV eindmast, span 400 m, lijnhoek 180°. |

De belastingen op de eindmasten NWW6E350UY en NWW6E400UY zijn identiek zijn aan de belastingen op de hoekmasten NWW6HM350UY respectievelijk NWW6HM400UY en daarom zijn de berekeningen alleen uitgevoerd voor de hoekmast typen.

2.1 Mastafmetingen

De basisafmetingen, masthoogten en de hoogte van de ophangpunten van de verschillende masten zijn weergegeven in de tekeningen zoals genoemd in Tabel 2

Tabel 2: tekeningnummer per masttype

| Mast | Tekening nummer |
|---------------|------------------|
| NWW6HK350UY | 74101611-035-205 |
| NWW6HL350UY | 74101611-035-215 |
| NWW6HM350UY | 74101611-035-225 |
| NWW6S350UY | 74101611-035-240 |
| NWW6S350UY+3 | 74101611-035-241 |
| NWW6S350UY+21 | 74101611-035-247 |
| NWW6HK400UY | 74101611-035-255 |
| NWW6HM400UY | 74101611-035-275 |
| NWW6S400UY | 74101611-035-290 |
| NWW6E350UY | 74101611-035-355 |
| NWW6E400UY | 74101611-035-365 |

3 GELEIDER CONFIGURATIES

Voor de belastingen uit de geleiders zijn de geleidergegevens gebruikt zoals weergegeven in Tabel 3.

Tabel 3: Geleider data

| Conductor data | | Fase geleider | OPGW | Bliksemdraad/ Retourstroomgeleider |
|----------------|-----------------|---------------|------------------|---------------------------------------|
| Type | | AMS620 | 226-AL2/38-A20Sa | AACSR/AS Hawk 242/39 |
| Doorsnede | mm ² | 620,9 | 264 | 282,5 |
| Diameter | mm | 32,4 | 21,7 | 21,8 |
| Gewicht per km | N/m | 17,75 | 9,44 | 9,39 |

| Conductor data | | Fase geleider | OPGW | Bliksemdraad/ Retourstroomgeleider |
|---------------------------|-------------------|---------------|----------|---------------------------------------|
| UTS | N | 161400 | 119000 | 118000 |
| E final | N/mm ² | 56425 | 81000 | 77000 |
| coef. of linear expansion | 1/°C | 2,30E-05 | 2,02E-05 | 1,9E-05 |

3.1 Bundelconfiguratie

Tabel 4 geeft een overzicht van de bundelconfiguratie waar de berekeningen op zijn gebaseerd.

Tabel 4: Bundelconfiguratie

| Masten familie | Fase bundel AMS 620 | Afmetingen AMS620 [mm] | OPGW TenneT | Bliksemdraad Hawk | Retourstroomgeleider Hawk* |
|----------------|---------------------|------------------------|-------------|-------------------|----------------------------|
| 4 x 380kV | 4 | 500 | 1 | 1 | 2 |

* Berekening is uitgevoerd met 2 geleiders. Feitelijke uitvoering zal geschieden met 1 geleider.

4 BEVESTIGINGSPUNTEN WINTRACK MASTEN

De belastingen uit de geleiderbundel zijn uitgerekend en grijpen aan op de bevestigingspunten van de mast. De bevestigingspunten zijn nader vastgelegd in Bijlage A.

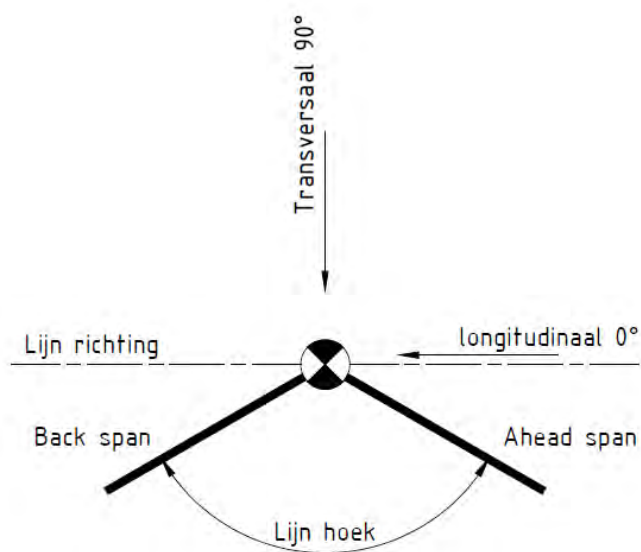
De namen van de ophangpunten van beide mastpalen zijn identiek en daarom zijn op tekeningen zoals weergegeven in Bijlage A slechts de namen van de ophangpunten van één paal weergegeven.

In de tekeningen worden de onderstaande afkortingen gebruikt:

- OPGW/GW: Optical Ground Wire/ Aarddraad;
- 380C1F1/380C2F1: 380 kV, Circuit 1 en Circuit 2, fase 1 ;
- 380C1F2/380C2F2: 380 kV, Circuit 1 en Circuit 2, fase 2 ;
- 380C1F3/380C2F3: 380 kV, Circuit 1 en Circuit 2, fase 3 ;
- Return conductor: Retourstroomgeleider.

4.1 Richting van de krachten

De krachten op de ophangpunten, komende uit de geleiders, zijn in drie richtingen uitgerekend. Te weten: longitudinaal (in de richting van de lijn), transversaal (haaks op de lijn) en verticaal (naar beneden gericht). In Figuur 1 zijn deze krachten grafisch weergegeven.



Figuur 1: De drie richtingen van de krachten

Definitie van belastings richtingen:

Longitudinaal : in de richting van de hoogspanningslijn;

Transversaal : haaks op de richting van de lijn

Verticaal : van mast aangrijppunt naar de basis van de mast.

5 BELASTINGEN

Alle berekeningen uit dit rapport zijn conform NEN EN 50341-3-15 uitgevoerd. Hierbij zijn de onderstaande omgevingscondities toegepast:

- Wind regio: 2;
- Referentieperiode: 50 jaar;
- Betrouwbaarheidsniveau: 3;
- IJs Regio A voor bliksemdraad en OPGW: $5\sqrt{d}$;
- IJs Regio A voor retourstroomgeleider: $5\sqrt{d}$;
- IJs Regio A voor fasegeleider: $5\sqrt{d}$.

De belastingen op de masten zijn berekend volgens de drie toestanden zoals deze zijn beschreven in de Nederlandse regelgeving.

Tabel 4.2.11/NL.1 uiterste grenstoestand (ULS, Ultimate Limit State)

Deze tabel beschrijft de belastinggevallen voor de uiterste grenstoestand met de daarbij behorende partiële belastingfactoren. Deze tabel wordt voor alle masttypen gebruikt.

Tabel 4.2.11/NL.3 uiterste grenstoestand (SpLS, Special Limit State)

Deze tabel beschrijft de belastinggevallen voor de uiterste grenstoestand met de daarbij behorende partiële belastingfactoren. Deze tabel wordt voor alleen voor steunmasten gebruikt. De belastinggevallen in deze tabel zijn specifiek voor de gevallen waarbij de er aan één kant van de mast een (bundel)geleider mist, of dat alle (bundel)geleiders aan één kant van de mast ontbreken.

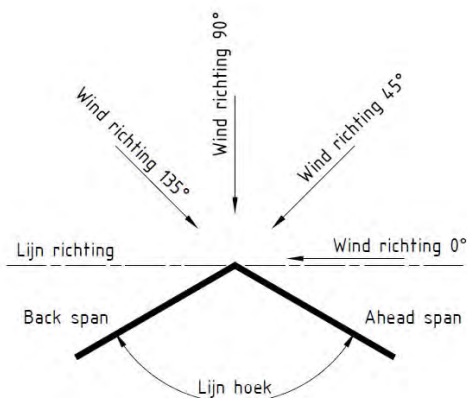
De belastingen die horen bij het afwezig zijn van één of alle geleiders zijn slechts berekend voor één zijde van de mast. Voor de sterkte berekeningen moeten echter beide zijde van een mast worden beschouwd. Omdat de krachten in beide richtingen identiek zijn kan voor de andere kant van de mast met dezelfde kracht worden gerekend.

Tabel 4.2.11/NL.4 bruikbaarheidsgrenstoestand (SLS Serviceability Limit State)

Deze tabel beschrijft de belastinggevallen voor de bruikbaarheidsgrenstoestand met de daarbij behorende partiële belastingfactoren. Deze tabel wordt voor het mastlichaam van alle masttypen gebruikt en is gericht op de doorbuiging van het mastlichaam.

5.1 Windrichtingen op de masten

De windrichtingen worden gedefinieerd ten opzichte van de lijnrichting. Er worden een viertal windrichtingen beschouwd: 0°, 45°, 90° en 135°.



Figuur 2: Windrichtingen op de mast

6 BELASTINGEN

In bijlage B is een samenvatting gegeven van de maximale transversale belasting op de bevestigingspunten. Omdat de krachten op de ophangpunten voor beide circuits gelijk zijn op een mast is slechts één circuit berekend.

Voor alle masttypen zijn de relevante belastinggevallen en geleiderbelastingen weergegeven in de Excel-file "Tower loads 4 x 380 rev 4.0".

Opmerking bij belastinggeval 4 "Construction and Maintenance"

Belastinggeval 4 is gedefinieerd als de belasting van een bundelgeleider met daarop een lijnwagen van 3 kN. Het gewicht van de lijnwagen is met een factor 1,5 vermenigvuldigd om tot een belasting te komen die gebruikt kan worden voor de toetsing van de uiterste grenstoestand en met een factor van 1,2 om tot een belasting te komen die gebruikt kan worden voor de toestand van de bijzondere grenstoestand (Special Limit State).

In de berekeningen worden alle bundels van alle circuits tegelijkertijd belast met een lijnwagen van 3 kN. Echter dit is een onrealistische benadering en veroorzaakt een te zwaar belastinggeval. In werkelijkheid zal slechts één lijnwagen per circuit worden gebruikt.

De consequentie hiervan is dat belastinggeval "4" niet als maatgevend mag worden beschouwd bij de dimensionering van de Wintrack mastlichamen. Echter de resultaten van belastinggeval "4" moeten **wel** worden gebruikt bij het berekenen van de bevestigingspunten van de isolatoren en traversen.

6.1 Uplift

De uplift is niet beschouwd bij de masten aan weerszijde van een verhoogde mast. Ook zijn de belastingen op de V-braces van de verhoogde niet onderzocht. DNV GL beveelt sterk aan om nader te onderzoeken of de trekisolatoren op druk worden belast (dan is er sprake van uplift), of trek isolatoren

op trek niet worden overbelast. Hierbij moet worden opgemerkt dat in geen enkele situatie een trekisolator op druk mag worden belast.

6.2 Resultaten

De transversale krachten loodrecht op de lijn richting zijn bepalend voor het ontwerp van de steunmasten. Terwijl de verticale- en longitudinale belastingen maar een beperkte invloed op het mastontwerp. De verticale- en longitudinale belastingen zijn echter wel bepalend voor de V-braces.

Belastinggeval 1a (extreme wind bij +10°C) is bepalend, onafhankelijk van de veldlengte of masthoogte. Daarbij moet worden opgemerkt dat voor ijs-regio "A" belastinggeval 1a (extreme wind bij +10°C) en belastinggeval 3 (wind en ijs bij -5°C) vrijwel even grote transversale belastingen op de mast uitoefenen.

Voor de hoekmasten hebben de longitudinale en verticale belastingen een beperkte bijdrage op de afmetingen van de masten. Deze krachten zijn echter wel bepalend voor de afmetingen van de traversen.

De maximale transversale belasting op de masten word bepaald door belastinggeval 3 (wind en ijs bij -5°C)

6.3 Belastingen uit geleiders

Bliksemdraad/OPGW/Retourstroomgeleider

Onafhankelijk van de locatie van de hoogspanningslijn moet de berekening van de belastingen op de bliksemdraden, OPGW en de retourstroomgeleider worden uitgegaan van ijs-regio "A". Met een trekparameter van 1800 meter komt de belasting op de OPGW uit op een 62% van UTS en van de retourstroomgeleider op 49% van UTS. De maximale belasting voor dit type geleiders bij EDS (Every Day Stress) is echter voor de OPGW 14% UTS en voor de retourstroomgeleider 13%.

De uitgerekenende trekbelasting op de OPGW is hoger dan gespecificeerd in de TenneT specificatie 315-S versie 3.0 met de titel "Algemene specificatie voor aarddraden met geïntegreerde glasvezels (OPGW)". In deze specificatie is bepaald dat de belasting op een OPGW geleider maximaal 40% van de UTS mag bedragen. Uit eerdere berekeningen voor het Wintrackontwerp is het bekend bij TenneT dat de OPGW bij belastinggeval 3 (wind en ijs bij -5°C) te hoog belast wordt. Volgens de TenneT specificatie 334-S versie 2.1 met de titel "Algemene specificatie voor geleiders met ronde draden voor hoogspanningslijnen" mag de maximale belasting op een geleider echter 80% UTS bedragen. De belasting van de bliksemdraad en de retourstroomgeleider vallen daarom wel binnen de gestelde eisen.

AMS 620

De maximale trekbelasting op de AMS 620 geleider vindt plaats bij belastinggeval 3 (wind en ijs bij -5°C). de maximale belasting bedraagt in deze situatie 60,3% UTS. De belasting bij EDS (Every Day Stress) bedraagt 19,8% UTS.

De trekbelasting op de AMS 620 geleider valt binnen de specificaties zoals vermeld in de TenneT specificatie 334-S versie 2.1, met de titel "Algemene specificatie voor geleiders met ronde draden voor hoogspanningslijnen". Hierin staat voorgeschreven dat dat de maximale belasting onder de 80% UTS moet blijven en de EDS (Every Day Stress) onder de 20% UTS.

6.4 Torsiekrachten op de steunmasten

De torsiebelasting op steunmasten is in dit rapport niet onderzocht. Bij de detailengineering moeten daarom de volgende belastingen en parameters worden meegenomen voor de sterkteberekeningen van de 380 kV braced-V insulator set.

De torsiebelasting ontstaat bij bundelbreuk en moet berekend worden onder EDS condities bij een belastingsfactor van 0,8.

- AMS-620 gewicht $g=17.7$ N/m
- Bundel afmeting: 4
- Trek parameter bij $10\text{ }^{\circ}\text{C}$ $p= 1800$ m
- belastingsfactor $\gamma= 0,8$

De torsiebelasting van een 380 kV bundel wordt hiermee:

$$\text{Torsie} = 0,8 \cdot 4 \cdot 17.7 \cdot 1800 = 102 \text{ kN}$$

Deze torsiebelasting moet door de ophangpunten kunnen worden weerstaan.

7 LEESWIJZER BELASTINGSGEVALEN TABEL

In dit hoofdstuk wordt een uitleg gegeven over de tabellen in bijlagen D, E en F.

Tabel 5: Voorbeeld van een belastingsgeval

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| towertype: NWW6S350U+18 | | | | | | | |
| NL1/1a | GW / opgw | 2319 | 5140 | 42731 | 2319 | 5140 | -42731 |
| Wind, 10°C | 380C1F1 | 17782 | 29025 | 263383 | 17782 | 29025 | -263383 |
| Permanent loads $y_g = 1.2$ | 380C1F2 | 17971 | 27181 | 253719 | 17971 | 27181 | -253719 |
| Wind angle: 90° | 380C1F3 | 18234 | 24894 | 241718 | 18234 | 24894 | -241718 |
| | RTG | 4836 | 7791 | 72117 | 4836 | 7791 | -72117 |
| | 380C2F1 | 17782 | 29025 | 263383 | 17782 | 29025 | -263383 |
| | 380C2F2 | 17971 | 27181 | 253719 | 17971 | 27181 | -253719 |
| | 380C2F3 | 18234 | 24894 | 241718 | 18234 | 24894 | -241718 |

Uitleg:

- De eerste kolom beschrijft het masttype, belastingsgeval met daarin de windrichting.
- De tweede kolom beschrijft de ohangpunten van de geleider aan de mast. Hierbij moet worden opgemerkt dat zowel de ohangpunten als de belasting van beide circuits identiek zijn.
- De overige kolommen geven de belastingen van respectievelijk de "ahead span" en de "back span" op de mast aan. De belastingen zijn voor elke bundel afzonderlijk weergegeven.

8 CONCLUSIES

De ontwerpbelastingen die de geleiders op de masten uitoefenen zijn bepaald op basis van de NEN – EN 50341-3-15. Een uitgebreid overzicht van de resultaten is weergegeven in een MS Excel bestand met de naam: "Tower loads 4 x 380 rev 4.0". Het overzicht van de verschillende belastinggevallen is weergegeven in bijlage B.

De transversale krachten loodrecht op de lijn richting is bepalend voor het ontwerp van de steunmasten. Terwijl de verticale- en longitudinale belastingen maar een beperkte invloed op het mastontwerp. De verticale- en longitudinale belastingen zijn echter wel bepalend voor de V-braces.

Hoekmasten

Over het algemeen is belastinggeval 3 (wind en ijs bij -5°C), onafhankelijk van de ijs-regio en de veldlengte bepalend voor de belasting op de hoekmasten. Echter voor de 4x380 HK (150° - 180°) hoekmasten geeft belastinggeval 3 gecombineerd met afwezigheid van geleiders de hoogste belasting.

Steunmasten

Belastinggeval 1a (extreme wind) is onafhankelijk van de veldlengte bepalend voor de steunmasten. Echter opgemerkt moet worden dat belastinggeval 1a (extreme wind) en belastinggeval 3 (wind en ijs bij -5°C) vrijwel gelijke transversale belasting van de geleiders opleveren.

Bliksemdraad/OPGW/retourstroomgeleider

Met een trekparameter van 1800 wordt de belasting op de OPGW maximaal 62% UTS, en bij de retourstroomgeleider maximaal 49% UTS. De belasting bij EDS (Every Day Stress) is voor de OPGW 14,3% en voor de retourstroomgeleider 13%.

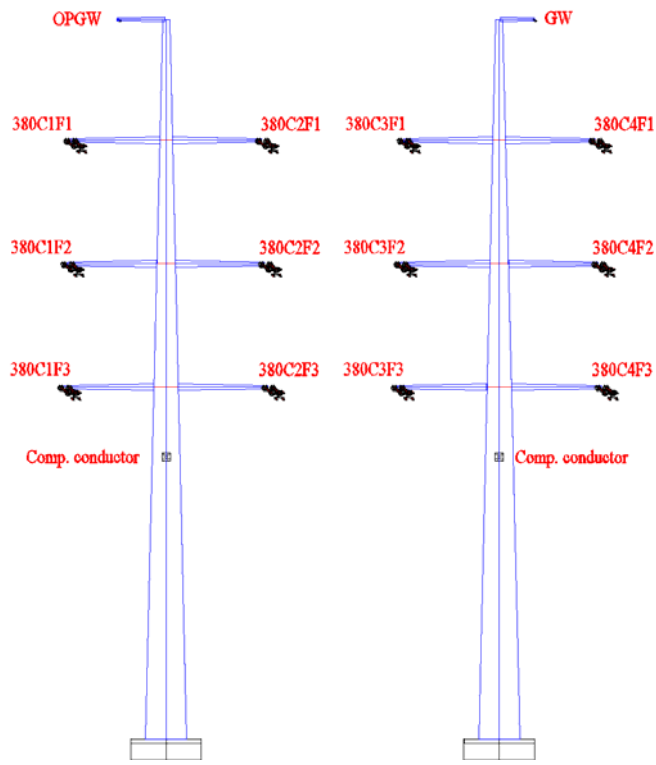
De trekbelasting op de OPGW is niet in overeenstemming met de gestelde eisen in de TenneT specificatie 315-S versie 3.0 "Algemene specificatie voor aarddraden met geïntegreerde glasvezels (OPGW)". Deze specificatie stelt dat de maximale belasting op de OPGW 40% UTS mag bedragen.

De trekbelasting op de bliksemdraad en de retourstroomgeleider blijven binnen de door TenneT gestelde eisen. Volgens de TenneT specificatie 334-S versie 2.1 met de titel "Algemene specificatie voor geleiders met ronde draden voor hoogspanningslijnen" moet de maximale belasting onder de 80% UTS blijven.

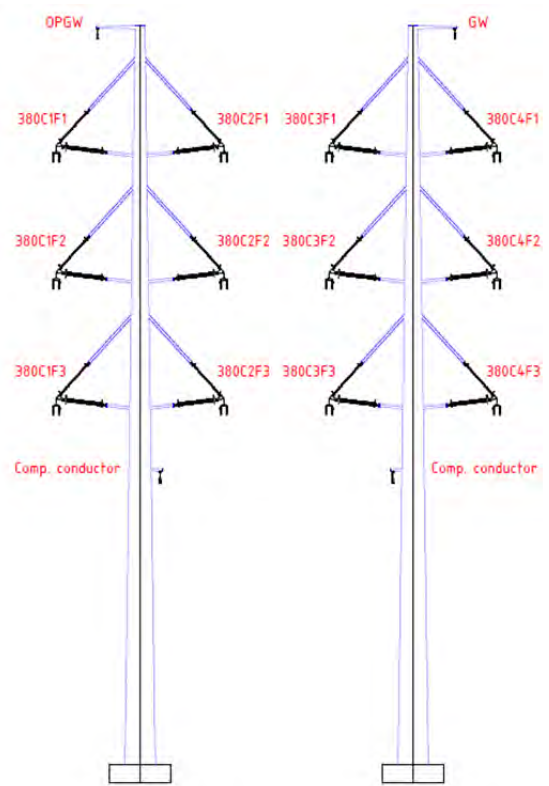
AMS 620

De trekbelasting op de AMS 620 geleiders blijft binnen de grenzen zoals gesteld in de TenneT specificatie 334-S versie 2.1 met de titel "Algemene specificatie voor geleiders met ronde draden voor hoogspanningslijnen". Deze specificatie eist dat de maximale belasting onder de 80% UTS moet blijven en in de EDS situatie onder de 20%.

BIJLAGE A LABELS OPHANG- EN AFSPANPUNTEN 4 X 380KV



Hoekmast Combi 4 x 380kV



Steunmast 4 x 380kV

BIJLAGE B MAXIMALE GELEIDER TRANSVERSALE BELASTINGEN

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|-------------------------------------|---------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| towertype: NWW6HK400UY | | | | | | | |
| NL1/3 | GW / opgw | 9341 | 22868 | 64392 | 9341 | 22868 | -64392 |
| Wind, -5°C | 380C1F1 | 51342 | 122478 | 366212 | 51342 | 122478 | -366212 |
| Permanent loads yg= 1.2 | 380C1F2 | 51340 | 119472 | 362850 | 51340 | 119472 | -362850 |
| Wind angle: 90° | 380C1F3 | 51339 | 115720 | 358949 | 51339 | 115720 | -358949 |
| | RTG | 18679 | 40515 | 122871 | 18679 | 40515 | -122871 |
| | 380C2F1 | 51342 | 122478 | 366212 | 51342 | 122478 | -366212 |
| | 380C2F2 | 51340 | 119472 | 362850 | 51340 | 119472 | -362850 |
| | 380C2F3 | 51339 | 115720 | 358949 | 51339 | 115720 | -358949 |
| towertype: NWW6S350UY+21 | | | | | | | |
| NL1/1a | GW / opgw | 2367 | 5180 | 42940 | 2367 | 5180 | -42940 |
| Wind, 10°C | 380C1F1 | 18226 | 29332 | 264980 | 18226 | 29332 | -264980 |
| Permanent loads yg= 1.2 | 380C1F2 | 18439 | 27523 | 255499 | 18439 | 27523 | -255499 |
| Wind angle: 90° | 380C1F3 | 18731 | 25304 | 243857 | 18731 | 25304 | -243857 |
| | RTG | 4951 | 7952 | 72984 | 4951 | 7952 | -72984 |
| | 380C2F1 | 18226 | 29332 | 264980 | 18226 | 29332 | -264980 |
| | 380C2F2 | 18439 | 27523 | 255499 | 18439 | 27523 | -255499 |
| | 380C2F3 | 18731 | 25304 | 243857 | 18731 | 25304 | -243857 |
| towertype: NWW6S350UY | | | | | | | |
| NL1/3 | GW / opgw | 8168 | 7832 | 65101 | 8168 | 7832 | -65101 |
| Wind, -5°C | 380C1F1 | 44898 | 37858 | 370716 | 44898 | 37858 | -370716 |
| Permanent loads yg= 1.2 | 380C1F2 | 44897 | 35867 | 366850 | 44897 | 35867 | -366850 |
| Wind angle: 90° | 380C1F3 | 44895 | 33358 | 362342 | 44895 | 33358 | -362342 |
| | RTG | 16334 | 12131 | 123270 | 16334 | 12131 | -123270 |
| | 380C2F1 | 44898 | 37858 | 370716 | 44898 | 37858 | -370716 |
| | 380C2F2 | 44897 | 35867 | 366850 | 44897 | 35867 | -366850 |
| | 380C2F3 | 44895 | 33358 | 362342 | 44895 | 33358 | -362342 |
| towertype: NWW6HM350UY | | | | | | | |
| NL1/3 | GW / opgw | 8167 | 34537 | 52320 | 8167 | 34537 | -52320 |
| Wind, -5°C | 380C1F1 | 44895 | 194662 | 304627 | 44895 | 194662 | -304627 |
| Permanent loads yg= 1.2 | 380C1F2 | 44894 | 192336 | 303294 | 44894 | 192336 | -303294 |
| Wind angle: 90° | 380C1F3 | 44893 | 189470 | 301800 | 44893 | 189470 | -301800 |
| | RTG | 16333 | 64841 | 102157 | 16333 | 64841 | -102157 |
| | 380C2F1 | 44895 | 194662 | 304627 | 44895 | 194662 | -304627 |
| | 380C2F2 | 44894 | 192336 | 303294 | 44894 | 192336 | -303294 |
| | 380C2F3 | 44893 | 189470 | 301800 | 44893 | 189470 | -301800 |

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|-------------------------------------|---------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| towertype: NWW6S350UY+3 | | | | | | | |
| NL1/3 | GW / opgw | 8578 | 7890 | 65230 | 8578 | 7890 | -65230 |
| Wind, -5°C | 380C1F1 | 47494 | 38156 | 371314 | 47494 | 38156 | -371314 |
| Permanent loads yg= 1.2 | 380C1F2 | 47545 | 36223 | 367521 | 47545 | 36223 | -367521 |
| Wind angle: 90° | 380C1F3 | 47605 | 33829 | 363153 | 47605 | 33829 | -363153 |
| | RTG | 17241 | 12385 | 123703 | 17241 | 12385 | -123703 |
| | 380C2F1 | 47494 | 38156 | 371314 | 47494 | 38156 | -371314 |
| | 380C2F2 | 47545 | 36223 | 367521 | 47545 | 36223 | -367521 |
| | 380C2F3 | 47605 | 33829 | 363153 | 47605 | 33829 | -363153 |
| towertype: NWW6HL350UY | | | | | | | |
| NL1/3 | GW / opgw | 8168 | 30486 | 55661 | 8168 | 30486 | -55661 |
| Wind, -5°C | 380C1F1 | 44896 | 169988 | 322382 | 44896 | 169988 | -322382 |
| Permanent loads yg= 1.2 | 380C1F2 | 44895 | 167493 | 320522 | 44895 | 167493 | -320522 |
| Wind angle: 90° | 380C1F3 | 44894 | 164404 | 318395 | 44894 | 164404 | -318395 |
| | RTG | 16333 | 56441 | 107885 | 16333 | 56441 | -107885 |
| | 380C2F1 | 44896 | 169988 | 322382 | 44896 | 169988 | -322382 |
| | 380C2F2 | 44895 | 167493 | 320522 | 44895 | 167493 | -320522 |
| | 380C2F3 | 44894 | 164404 | 318395 | 44894 | 164404 | -318395 |
| towertype: NWW6HK350UY | | | | | | | |
| NL1/3 | GW / opgw | 8168 | 21226 | 61194 | 8168 | 21226 | -61194 |
| Wind, -5°C | 380C1F1 | 44897 | 115035 | 351119 | 44897 | 115035 | -351119 |
| Permanent loads yg= 1.2 | 380C1F2 | 44896 | 112522 | 348218 | 44896 | 112522 | -348218 |
| Wind angle: 90° | 380C1F3 | 44895 | 109379 | 344829 | 44895 | 109379 | -344829 |
| | RTG | 16334 | 37908 | 117079 | 16334 | 37908 | -117079 |
| | 380C2F1 | 44897 | 115035 | 351119 | 44897 | 115035 | -351119 |
| | 380C2F2 | 44896 | 112522 | 348218 | 44896 | 112522 | -348218 |
| | 380C2F3 | 44895 | 109379 | 344829 | 44895 | 109379 | -344829 |
| towertype: NWW6S400UY | | | | | | | |
| NL1/3 | GW / opgw | 9341 | 8805 | 68683 | 9341 | 8805 | -68683 |
| Wind, -5°C | 380C1F1 | 51343 | 42068 | 387352 | 51343 | 42068 | -387352 |
| Permanent loads yg= 1.2 | 380C1F2 | 51342 | 39731 | 382980 | 51342 | 39731 | -382980 |
| Wind angle: 90° | 380C1F3 | 51340 | 36670 | 377697 | 51340 | 36670 | -377697 |
| | RTG | 18679 | 13482 | 129555 | 18679 | 13482 | -129555 |
| | 380C2F1 | 51343 | 42068 | 387352 | 51343 | 42068 | -387352 |
| | 380C2F2 | 51342 | 39731 | 382980 | 51342 | 39731 | -382980 |
| | 380C2F3 | 51340 | 36670 | 377697 | 51340 | 36670 | -377697 |
| towertype: NWW6HM400UY | | | | | | | |

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|---|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | GW / opgw | 9340 | 36701 | 54851 | 9340 | 36701 | -54851 |
| | 380C1F1 | 51339 | 204736 | 316799 | 51339 | 204736 | -316799 |
| | 380C1F2 | 51338 | 201969 | 315275 | 51338 | 201969 | -315275 |
| | 380C1F3 | 51337 | 198568 | 313586 | 51337 | 198568 | -313586 |
| | RTG | 18678 | 68566 | 106970 | 18678 | 68566 | -106970 |
| | 380C2F1 | 51339 | 204736 | 316799 | 51339 | 204736 | -316799 |
| | 380C2F2 | 51338 | 201969 | 315275 | 51338 | 201969 | -315275 |
| | 380C2F3 | 51337 | 198568 | 313586 | 51337 | 198568 | -313586 |
| towertype: NWW6HE400UY | | | | | | | |
| NL1/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 9341 | 5812 | -69028 |
| | 380C1F1 | 0 | 0 | 0 | 51343 | 25211 | -388988 |
| | 380C1F2 | 0 | 0 | 0 | 51342 | 23032 | -384437 |
| | 380C1F3 | 0 | 0 | 0 | 51340 | 20230 | -379063 |
| | RTG | 0 | 0 | 0 | 18679 | 7860 | -130095 |
| | 380C2F1 | 0 | 0 | 0 | 51343 | 25211 | -388988 |
| | 380C2F2 | 0 | 0 | 0 | 51342 | 23032 | -384437 |
| | 380C2F3 | 0 | 0 | 0 | 51340 | 20230 | -379063 |
| towertype: NWW6HE350UY | | | | | | | |
| NL1/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 8168 | 5000 | -65419 |
| | 380C1F1 | 0 | 0 | 0 | 44898 | 21693 | -372107 |
| | 380C1F2 | 0 | 0 | 0 | 44897 | 19896 | -368202 |
| | 380C1F3 | 0 | 0 | 0 | 44896 | 17582 | -363567 |
| | RTG | 0 | 0 | 0 | 16334 | 6767 | -123728 |
| | 380C2F1 | 0 | 0 | 0 | 44898 | 21693 | -372107 |
| | 380C2F2 | 0 | 0 | 0 | 44897 | 19896 | -368202 |
| | 380C2F3 | 0 | 0 | 0 | 44896 | 17582 | -363567 |
| towertype: NWW6HE350UY | | | | | | | |
| NL1/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 8168 | 5000 | -65419 |
| | 380C1F1 | 0 | 0 | 0 | 44898 | 21693 | -372107 |
| | 380C1F2 | 0 | 0 | 0 | 44897 | 19896 | -368202 |
| | 380C1F3 | 0 | 0 | 0 | 44896 | 17582 | -363567 |
| | RTG | 0 | 0 | 0 | 16334 | 6767 | -123728 |
| | 380C2F1 | 0 | 0 | 0 | 44898 | 21693 | -372107 |
| | 380C2F2 | 0 | 0 | 0 | 44897 | 19896 | -368202 |
| | 380C2F3 | 0 | 0 | 0 | 44896 | 17582 | -363567 |
| towertype: NWW6HE350UY | | | | | | | |



ABOUT DNV GL

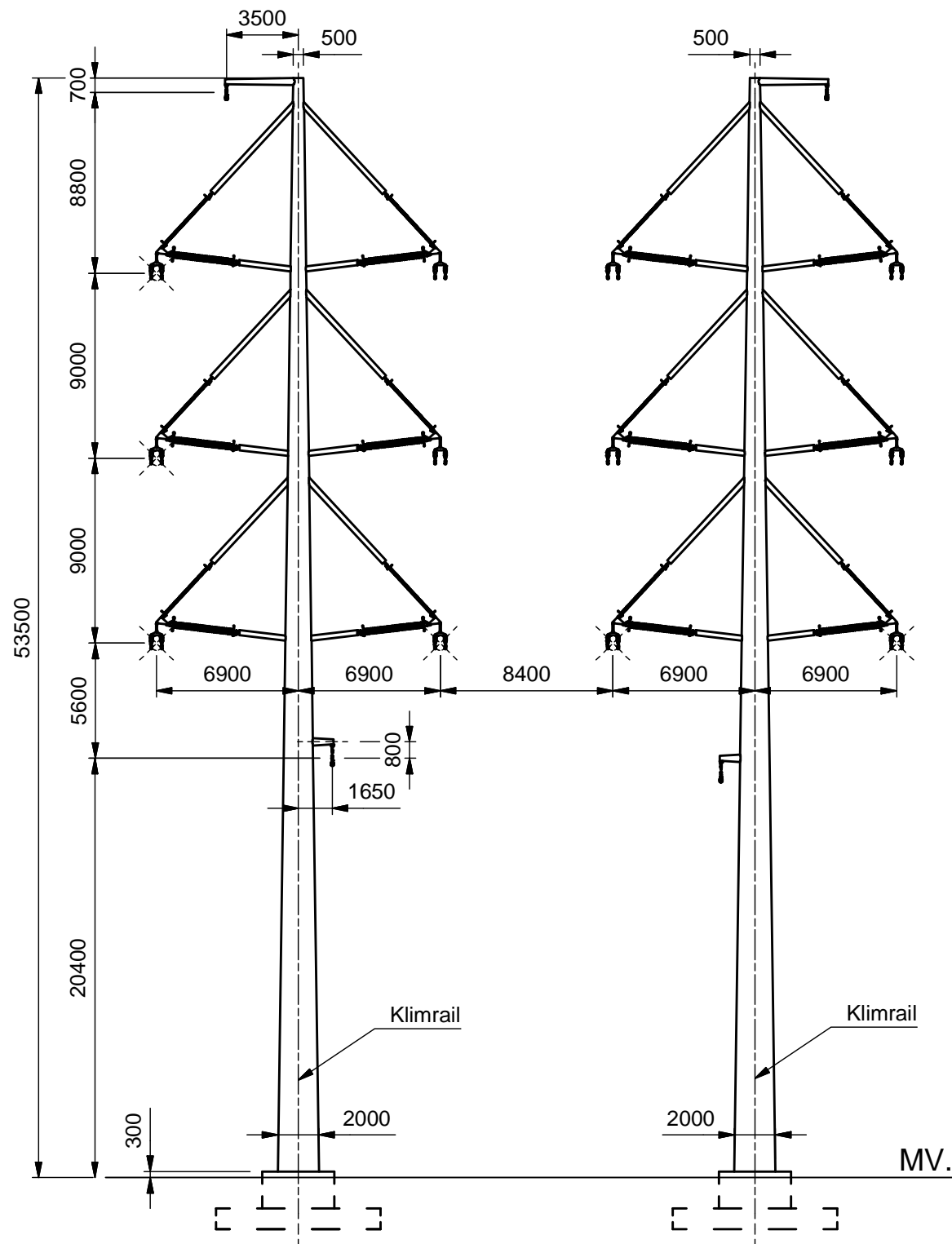
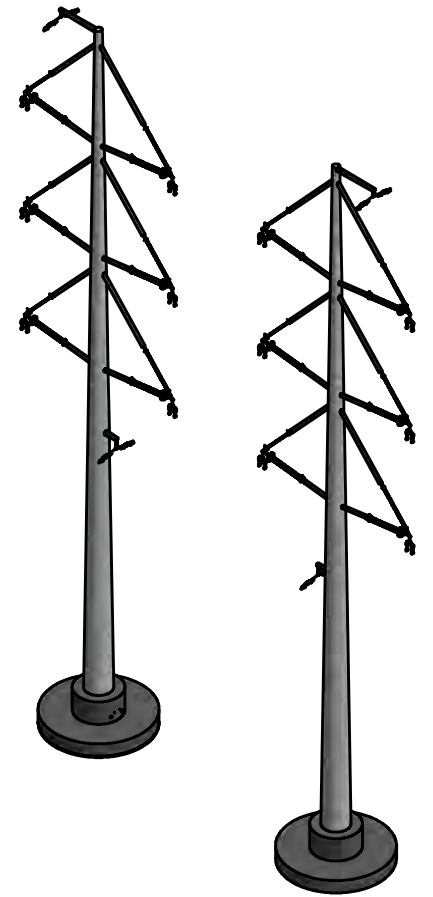
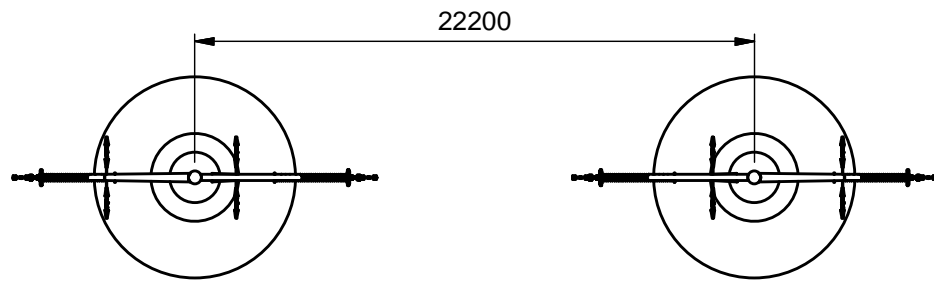
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Mastenlijst Noord - West 380kV (Deelgebied 1, tussen Vierverlaten - Eemshaven Oudeschip)



Basis voor mastenlijst is: 74100828-050-100 dg1 mastenplan 2.9 rev 4.0.xyz en project line: Masterplan 2.9


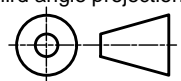
| 74100828-039-100 | | | | | | | | | | 12 | 2 | 1 | 1 | 1 | 83 | 9 | 4 | 1 | 2 | 5 | 1 | Opmerkingen | | | | | | | | | | | | | | | | | |
|------------------|------------|------------|--------------|-----------|------------------------|-----------------------------|----------------------|---------------|-------------|------------------------------|------------|------------|------------|------------|-------------|--------------|--------------|-------------|-------------|---------------------------|------------|--------------------|--------------------|--------------------|--------------------|----------------|---------------------|----------------|------------------|------------------|------------|---|--|--|--|--|--|--|--|
| | | | | | | | | | | Masten familie Noordwest 380 | | | | | | | | | | Locatie specifieke masten | | | | | | | | | | Algemeen | | | | | | | | | |
| Beneemte | Trace blad | Mastnummer | masttype | Usggeblad | Veldlengte vooruit [m] | Lijnhoek [graden, decimaal] | Afspanning/oplegging | Vaklengte [m] | NWW6HK350UY | NWW6HL350UY | NWW6H650UY | NWW6E350UY | NWW6E400UY | NWW6S350UY | NWW6S30UY+3 | NWW6S30UY+15 | NWW6S30UY+21 | NWW6HK400UY | NWW6HL400UY | NWW6HM400UY | NWW6S400UY | Lijnportaal EOS380 | Tjariet A specialy | Tjariet B specialy | Tjariet C specialy | Masthoogte [m] | Fundatie hoogte [m] | IAP Hoogte [m] | X-coördinaat [m] | Y-coördinaat [m] | Koppeldoes | GSM antenne | | | | | | | |
| Loppersum | | 704 | NWW6S350UY | A | 346,1 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,66 | 236969,15 | 593554,52 | | | | | | | | | |
| Loppersum | | 705 | NWW6S350UY | A | 346,0 | | S | | | | | | | | | | | | | | | | | | | 53,5 | | -0,35 | 237299,60 | 593657,27 | | | | | | | | | |
| Loppersum | | 706 | NWW6S400UY | A | 390,8 | 179,1 | S | | | | | | | | | | | | | | | | | | | 60,0 | | -0,45 | 237630,00 | 593760,00 | | | | | | | | | |
| Loppersum | | 707 | NWW6S400UY | A | 363,9 | 176,4 | S | | | | | | | | | | | | | | | | | | | 60,0 | | -0,45 | 238005,00 | 593870,00 | | | | | | | | | |
| Loppersum | | 709 | NWW6S400UY | A | 350,9 | 178,6 | S | | | | | | | | | | | | | | | | | | | 60,0 | | -0,13 | 238360,00 | 593950,00 | | | | | | | | | |
| Loppersum | | 710 | NWW6S350UY | A | 349,4 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,01 | 238700,38 | 594035,44 | | | | | | | | | |
| Loppersum | | 711 | NWW6S350UY | A | 333,9 | 175,4 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,03 | 239039,26 | 594120,51 | | | | | | | | | |
| Loppersum | | 712 | NWW6S350UY | A | 333,9 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,03 | 239368,60 | 594175,42 | | | | | | | | | |
| Loppersum | | 713 | NWW6S350UY | A | 333,8 | | S | 3492,27 | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,13 | 239697,98 | 594230,34 | | | | | | | | | |
| Loppersum | | 714 | NWW6HK350UY | A | 324,4 | | H | | 1 | | | | | | | | | | | | | | | | | 52,9 | | 0,10 | 240027,24 | 594285,25 | | Hoekmast ivm overschrijding vaklengte | | | | | | | |
| Loppersum | | 715 | NWW6S350UY | A | 343,3 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,07 | 240347,20 | 594338,60 | | | | | | | | | |
| Loppersum | | 716 | NWW6S350UY | A | 333,8 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,04 | 240685,78 | 594395,05 | | | | | | | | | |
| Loppersum | | 717 | NWW6S350UY | A | 343,5 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,13 | 241015,04 | 594449,96 | | | | | | | | | |
| Loppersum | | 718 | NWW6S350UY | A | 325,6 | | S | 1670,51 | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,20 | 241353,87 | 594506,45 | | | | | | | | | |
| Loppersum | | 719 | NWW6HK400UY | A | 374,2 | 170,7 | H | | | | | | | | | | | 1 | | | | | | | | 59,4 | | 0,43 | 241675,00 | 594560,00 | | | | | | | | | |
| Loppersum | | 720 | NWW6S400UY | A | 372,9 | 178,5 | S | | | | | | | | | | | | | | | | | | | 60,0 | | 0,68 | 242029,20 | 594680,56 | | | | | | | | | |
| Loppersum | | 721 | NWW6S400UY | A | 349,3 | | S | | | | | | | | | | | | | | | | | | | 60,0 | | 0,27 | 242385,17 | 594791,69 | | | | | | | | | |
| Loppersum | | 722 | NWW6S350UY | A | 347,8 | 177,8 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,20 | 242718,63 | 594895,80 | | | | | | | | | |
| Loppersum | | 723 | NWW6S350UY | A | 349,0 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,76 | 243046,28 | 595012,39 | | | | | | | | | |
| Loppersum | | 724 | NWW6S350UY | A | 344,8 | | S | 2138,05 | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,09 | 243375,13 | 595129,40 | | | | | | | | | |
| Loppersum | | 725 | NWW6HL350UY | A | 344,6 | 143,2 | H | | | 1 | | | | | | | | | | | | | | | | 52,9 | | 0,30 | 243700,00 | 595245,00 | | | | | | | | | |
| Loppersum | | 726 | NWW6S350UY | A | 295,1 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,22 | 243891,00 | 595311,88 | | | | | | | | | |
| Loppersum | | 727 | NWW6S350UY | A | 336,2 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,68 | 244054,52 | 595777,50 | | | | | | | | | |
| Loppersum | | 728 | NWW6S350UY | A | 248,1 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | -0,33 | 244240,85 | 596057,36 | | | | | | | | | |
| Loppersum | | 729 | NWW6S350UY | A | 322,3 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,57 | 244378,33 | 596263,85 | | | | | | | | | |
| Loppersum | | 730 | NWW6S350UY | A | 349,7 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,59 | 244556,94 | 596532,14 | | | | | | | | | |
| Loppersum | | 731 | NWW6S350UY | A | 350,5 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,52 | 244750,76 | 596823,24 | | | | | | | | | |
| Loppersum | | 732 | NWW6S350UY | A | 346,8 | 179,8 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,86 | 244945,00 | 597115,00 | | | | | | | | | |
| Loppersum | | 733 | NWW6S350UY | A | 350,0 | 179,8 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,74 | 245138,05 | 597403,10 | | | | | | | | | |
| Loppersum | | 734 | NWW6S350UY+3 | A | 350,8 | | S | | | | | | | | 1 | | | | | | | | | | | 56,5 | | 0,37 | 245331,74 | 597694,62 | | | | | | | | | |
| Loppersum | | 735 | NWW6S350UY+3 | A | 347,1 | | S | | | | | | | | 1 | | | | | | | | | | | 56,5 | | 0,57 | 245525,84 | 597986,77 | | | | | | | | | |
| Loppersum | | 736 | NWW6S350UY+3 | A | 347,1 | | S | 3988,3 | | | | | | | 1 | | | | | | | | | | | 56,5 | | 0,48 | 245717,92 | 598275,90 | | | | | | | | | |
| Loppersum | | 737 | NWW6HK350UY | A | 347,4 | 178,8 | H | | 1 | | | | | | | | | | | | | | | | | 52,9 | | 0,58 | 245910,00 | 598565,00 | | Hoekmast ivm overschrijding vaklengte | | | | | | | |
| Loppersum | | 738 | NWW6S350UY | A | 343,6 | 179,7 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,36 | 246108,33 | 598850,17 | | | | | | | | | |
| Loppersum | | 739 | NWW6S350UY | A | 335,5 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,44 | 246302,80 | 599133,43 | | | | | | | | | |
| Loppersum | | 740 | NWW6S350UY | A | 348,5 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,39 | 246492,69 | 599410,00 | | | | | | | | | |
| Loppersum | | 741 | NWW6S350UY | A | 300,5 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,25 | 246689,92 | 599697,27 | | | | | | | | | |
| Loppersum | | 742 | NWW6S350UY | A | 349,1 | 176,5 | S | 2024,46 | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,36 | 246860,00 | 599945,00 | | | | | | | | | |
| Loppersum | | 743 | NWW6HK350UY | A | 338,9 | 177,9 | H | | 1 | | | | | | | | | | | | | | | | | 52,9 | | 0,44 | 247075,00 | 600220,00 | | Hoekmast ivm overschrijding vaklengte | | | | | | | |
| Loppersum | | 744 | NWW6S350UY | A | 343,3 | | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,56 | 247293,38 | 600479,18 | | Mast 13.9m verplaatst richting mast 743 | | | | | | | |
| Loppersum | | 745 | NWW6S350UY | A | 350,3 | 176,9 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,50 | 247514,62 | 600741,74 | | Mast 23.9m verplaatst richting mast 744 | | | | | | | |
| Loppersum | | 746 | NWW6S350UY | A | 315,8 | 179,8 | S | | | | | | | 1 | | | | | | | | | | | | 53,5 | | 0,32 | 247725,54 | 601021,39 | | | | | | | | | |



Wintrack
Masttype: NWW6S350UY

- Trekparameter 1800m
- 4x380 Steunmast
- 350m Veldlengte
- 175»180» Lijnhoek
- IJsgebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijsschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|-----------|-------------------------|
| Rev. | Date | Description |
| 3 | 13-6-2013 | Small modification |
| 4 | 22-5-2014 | New template |
| 5 | 13-1-2016 | Kleurstelling aangepast |

| | | |
|--|--|--|
|  | | Projectname: TenneT Engineering verbinding NW380 |
| Design state: Released | | Third angle projection:  |
| Drawn by: SGR 22-5-2014 | | Drawing no.: 74101611-035-240 |
| Checked by: EKA 23-5-2014 | | Description: NWW6S350UY |
| Approved by: AW 23-5-2014 | | |
| Scale: 1 : 300 | | Revision: 5 |
| Units: mm | | Format: A3 |
| Project no: | | |
| Company: TenneT | | |

DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com

NWW6S350UY

Appendix NWW6S350UY / NL1

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2019 | 880 | 19934 | 2019 | 880 | -19934 |
| Wind, 10°C | 380C1F1 | 14907 | 6455 | 146657 | 14907 | 6455 | -146657 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 6451 | 146657 | 14907 | 6451 | -146657 |
| Wind angle: 0° | 380C1F3 | 14907 | 6445 | 146657 | 14907 | 6445 | -146657 |
| | RTG | 4038 | 1753 | 39867 | 4038 | 1753 | -39867 |
| | 380C2F1 | 14907 | 6455 | 146657 | 14907 | 6455 | -146657 |
| | 380C2F2 | 14907 | 6451 | 146657 | 14907 | 6451 | -146657 |
| | 380C2F3 | 14907 | 6445 | 146657 | 14907 | 6445 | -146657 |
| NL1/1b | GW / opgw | 2018 | 1006 | 23003 | 2018 | 1006 | -23003 |
| Wind, -20°C | 380C1F1 | 14900 | 7606 | 173967 | 14900 | 7606 | -173967 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 7605 | 173967 | 14900 | 7605 | -173967 |
| Wind angle: 0° | 380C1F3 | 14900 | 7604 | 173967 | 14900 | 7604 | -173967 |
| | RTG | 4036 | 2011 | 46005 | 4036 | 2011 | -46005 |
| | 380C2F1 | 14900 | 7606 | 173967 | 14900 | 7606 | -173967 |
| | 380C2F2 | 14900 | 7605 | 173967 | 14900 | 7605 | -173967 |
| | 380C2F3 | 14900 | 7604 | 173967 | 14900 | 7604 | -173967 |
| NL1/3 | GW / opgw | 8166 | 2562 | 58467 | 8166 | 2562 | -58467 |
| Wind, -5°C | 380C1F1 | 44890 | 15135 | 345706 | 44890 | 15135 | -345706 |
| Permanent loads yg= 1.2 | 380C1F2 | 44890 | 15132 | 345706 | 44890 | 15132 | -345706 |
| Wind angle: 0° | 380C1F3 | 44890 | 15127 | 345707 | 44890 | 15127 | -345707 |
| | RTG | 16332 | 5118 | 116934 | 16332 | 5118 | -116934 |
| | 380C2F1 | 44890 | 15135 | 345706 | 44890 | 15135 | -345706 |
| | 380C2F2 | 44890 | 15132 | 345706 | 44890 | 15132 | -345706 |
| | 380C2F3 | 44890 | 15127 | 345707 | 44890 | 15127 | -345707 |
| NL1/4 | GW / opgw | 2771 | 1135 | 25955 | 2771 | 1135 | -25955 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 7550 | 172686 | 17913 | 7550 | -172686 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 7549 | 172686 | 17913 | 7549 | -172686 |
| Wind angle: 0° | 380C1F3 | 17913 | 7548 | 172686 | 17913 | 7548 | -172686 |
| | RTG | 5542 | 2269 | 51910 | 5542 | 2269 | -51910 |
| | 380C2F1 | 17913 | 7550 | 172686 | 17913 | 7550 | -172686 |
| | 380C2F2 | 17913 | 7549 | 172686 | 17913 | 7549 | -172686 |
| | 380C2F3 | 17913 | 7548 | 172686 | 17913 | 7548 | -172686 |
| NL1/6 | GW / opgw | 2272 | 954 | 21854 | 2272 | 954 | -21854 |
| Permanent, +10°C | 380C1F1 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| Permanent loads yg= 1.35 | 380C1F2 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| | 380C1F3 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| | RTG | 4543 | 1908 | 43709 | 4543 | 1908 | -43709 |
| | 380C2F1 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| | 380C2F2 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| | 380C2F3 | 16772 | 7005 | 160442 | 16772 | 7005 | -160442 |
| NL1/1a | GW / opgw | 2020 | 3402 | 26986 | 2020 | 3922 | -29174 |
| Wind, 10°C | 380C1F1 | 14910 | 20205 | 178494 | 14912 | 23048 | -189320 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 18965 | 174005 | 14911 | 21553 | -183547 |
| Wind angle: 45° | 380C1F3 | 14909 | 17406 | 168618 | 14910 | 19670 | -176538 |
| | RTG | 4039 | 5068 | 47189 | 4039 | 5755 | -49764 |
| | 380C2F1 | 14910 | 20205 | 178494 | 14912 | 23048 | -189320 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 14910 | 18965 | 174005 | 14911 | 21553 | -183547 |
| | 380C2F3 | 14909 | 17406 | 168618 | 14910 | 19670 | -176538 |
| NL1/1b | GW / opgw | 2018 | 1465 | 23368 | 2018 | 1556 | -23522 |
| Wind, -20°C | 380C1F1 | 14900 | 10140 | 175438 | 14900 | 10641 | -176069 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 9921 | 175195 | 14900 | 10378 | -175725 |
| Wind angle: 45° | 380C1F3 | 14900 | 9644 | 174917 | 14900 | 10046 | -175330 |
| | RTG | 4036 | 2624 | 46335 | 4036 | 2745 | -46477 |
| | 380C2F1 | 14900 | 10140 | 175438 | 14900 | 10641 | -176069 |
| | 380C2F2 | 14900 | 9921 | 175195 | 14900 | 10378 | -175725 |
| | 380C2F3 | 14900 | 9644 | 174917 | 14900 | 10046 | -175330 |
| NL1/3 | GW / opgw | 8166 | 4897 | 59926 | 8167 | 5360 | -60536 |
| Wind, -5°C | 380C1F1 | 44892 | 25235 | 351012 | 44893 | 27226 | -353277 |
| Permanent loads yg= 1.2 | 380C1F2 | 44891 | 24363 | 350137 | 44892 | 26180 | -352042 |
| Wind angle: 45° | 380C1F3 | 44891 | 23263 | 349136 | 44892 | 24859 | -350626 |
| | RTG | 16332 | 8249 | 118245 | 16332 | 8863 | -118814 |
| | 380C2F1 | 44892 | 25235 | 351012 | 44893 | 27226 | -353277 |
| | 380C2F2 | 44891 | 24363 | 350137 | 44892 | 26180 | -352042 |
| | 380C2F3 | 44891 | 23263 | 349136 | 44892 | 24859 | -350626 |
| NL1/4 | GW / opgw | 2771 | 1588 | 26186 | 2771 | 1677 | -26285 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 10070 | 173799 | 17914 | 10565 | -174285 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 9853 | 173613 | 17914 | 10305 | -174020 |
| Wind angle: 45° | 380C1F3 | 17913 | 9579 | 173400 | 17913 | 9977 | -173717 |
| | RTG | 5542 | 2877 | 52114 | 5542 | 2996 | -52204 |
| | 380C2F1 | 17913 | 10070 | 173799 | 17914 | 10565 | -174285 |
| | 380C2F2 | 17913 | 9853 | 173613 | 17914 | 10305 | -174020 |
| | 380C2F3 | 17913 | 9579 | 173400 | 17913 | 9977 | -173717 |
| NL1/1a | GW / opgw | 2021 | 6656 | 41006 | 2021 | 6656 | -41006 |
| Wind, 10°C | 380C1F1 | 14918 | 38160 | 252052 | 14918 | 38160 | -252052 |
| Permanent loads yg= 1.2 | 380C1F2 | 14917 | 35357 | 240182 | 14917 | 35357 | -240182 |
| Wind angle: 90° | 380C1F3 | 14915 | 31804 | 225181 | 14915 | 31804 | -225181 |
| | RTG | 4041 | 9426 | 65173 | 4041 | 9426 | -65173 |
| | 380C2F1 | 14918 | 38160 | 252052 | 14918 | 38160 | -252052 |
| | 380C2F2 | 14917 | 35357 | 240182 | 14917 | 35357 | -240182 |
| | 380C2F3 | 14915 | 31804 | 225181 | 14915 | 31804 | -225181 |
| NL1/1b | GW / opgw | 2018 | 2050 | 24704 | 2018 | 2050 | -24704 |
| Wind, -20°C | 380C1F1 | 14900 | 13329 | 181035 | 14900 | 13329 | -181035 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 12824 | 179919 | 14900 | 12824 | -179919 |
| Wind angle: 90° | 380C1F3 | 14900 | 12189 | 178628 | 14900 | 12189 | -178628 |
| | RTG | 4037 | 3393 | 47604 | 4037 | 3393 | -47604 |
| | 380C2F1 | 14900 | 13329 | 181035 | 14900 | 13329 | -181035 |
| | 380C2F2 | 14900 | 12824 | 179919 | 14900 | 12824 | -179919 |
| | 380C2F3 | 14900 | 12189 | 178628 | 14900 | 12189 | -178628 |
| NL1/3 | GW / opgw | 8168 | 7832 | 65101 | 8168 | 7832 | -65101 |
| Wind, -5°C | 380C1F1 | 44898 | 37858 | 370716 | 44898 | 37858 | -370716 |
| Permanent loads yg= 1.2 | 380C1F2 | 44897 | 35867 | 366850 | 44897 | 35867 | -366850 |
| Wind angle: 90° | 380C1F3 | 44895 | 33358 | 362342 | 44895 | 33358 | -362342 |
| | RTG | 16334 | 12131 | 123270 | 16334 | 12131 | -123270 |
| | 380C2F1 | 44898 | 37858 | 370716 | 44898 | 37858 | -370716 |
| | 380C2F2 | 44897 | 35867 | 366850 | 44897 | 35867 | -366850 |
| | 380C2F3 | 44895 | 33358 | 362342 | 44895 | 33358 | -362342 |
| NL1/4 | GW / opgw | 2771 | 2154 | 27073 | 2771 | 2154 | -27073 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 13206 | 178158 | 17914 | 13206 | -178158 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 12711 | 177281 | 17914 | 12711 | -177281 |
| Wind angle: 90° | 380C1F3 | 17914 | 12088 | 176270 | 17914 | 12088 | -176270 |
| | RTG | 5542 | 3627 | 52937 | 5542 | 3627 | -52937 |
| | 380C2F1 | 17914 | 13206 | 178158 | 17914 | 13206 | -178158 |
| | 380C2F2 | 17914 | 12711 | 177281 | 17914 | 12711 | -177281 |
| | 380C2F3 | 17914 | 12088 | 176270 | 17914 | 12088 | -176270 |
| NL1/1a | GW / opgw | 2020 | 3922 | 29174 | 2020 | 3402 | -26986 |
| Wind, 10°C | 380C1F1 | 14912 | 23048 | 189320 | 14910 | 20205 | -178494 |
| Permanent loads yg= 1.2 | 380C1F2 | 14911 | 21553 | 183547 | 14910 | 18965 | -174005 |
| Wind angle: -45° | 380C1F3 | 14910 | 19670 | 176538 | 14909 | 17406 | -168618 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4039 | 5755 | 49764 | 4039 | 5068 | -47189 |
| | 380C2F1 | 14912 | 23048 | 189320 | 14910 | 20205 | -178494 |
| | 380C2F2 | 14911 | 21553 | 183547 | 14910 | 18965 | -174005 |
| | 380C2F3 | 14910 | 19670 | 176538 | 14909 | 17406 | -168618 |
| NL1/1b | GW / opgw | 2018 | 1556 | 23522 | 2018 | 1465 | -23368 |
| Wind, -20°C | 380C1F1 | 14900 | 10641 | 176069 | 14900 | 10140 | -175438 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 10378 | 175725 | 14900 | 9921 | -175195 |
| Wind angle: -45° | 380C1F3 | 14900 | 10046 | 175330 | 14900 | 9644 | -174917 |
| | RTG | 4036 | 2745 | 46477 | 4036 | 2624 | -46335 |
| | 380C2F1 | 14900 | 10641 | 176069 | 14900 | 10140 | -175438 |
| | 380C2F2 | 14900 | 10378 | 175725 | 14900 | 9921 | -175195 |
| | 380C2F3 | 14900 | 10046 | 175330 | 14900 | 9644 | -174917 |
| NL1/3 | GW / opgw | 8167 | 5360 | 60536 | 8166 | 4897 | -59926 |
| Wind, -5°C | 380C1F1 | 44893 | 27226 | 353277 | 44892 | 25235 | -351012 |
| Permanent loads yg= 1.2 | 380C1F2 | 44892 | 26180 | 352042 | 44891 | 24363 | -350137 |
| Wind angle: -45° | 380C1F3 | 44892 | 24859 | 350626 | 44891 | 23263 | -349136 |
| | RTG | 16332 | 8863 | 118814 | 16332 | 8249 | -118245 |
| | 380C2F1 | 44893 | 27226 | 353277 | 44892 | 25235 | -351012 |
| | 380C2F2 | 44892 | 26180 | 352042 | 44891 | 24363 | -350137 |
| | 380C2F3 | 44892 | 24859 | 350626 | 44891 | 23263 | -349136 |
| NL1/4 | GW / opgw | 2771 | 1677 | 26285 | 2771 | 1588 | -26186 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 10565 | 174285 | 17913 | 10070 | -173799 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 10305 | 174020 | 17913 | 9853 | -173613 |
| Wind angle: -45° | 380C1F3 | 17913 | 9977 | 173717 | 17913 | 9579 | -173400 |
| | RTG | 5542 | 2996 | 52204 | 5542 | 2877 | -52114 |
| | 380C2F1 | 17914 | 10565 | 174285 | 17913 | 10070 | -173799 |
| | 380C2F2 | 17914 | 10305 | 174020 | 17913 | 9853 | -173613 |
| | 380C2F3 | 17913 | 9977 | 173717 | 17913 | 9579 | -173400 |
| NL1//1a | GW / opgw | 1514 | 702 | 15867 | 1514 | 702 | -15867 |
| Wind, 10°C | 380C1F1 | 11178 | 5177 | 117394 | 11178 | 5177 | -117394 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 5173 | 117394 | 11178 | 5173 | -117394 |
| Wind angle: 0° | 380C1F3 | 11178 | 5167 | 117394 | 11178 | 5167 | -117394 |
| | RTG | 3028 | 1398 | 31734 | 3028 | 1398 | -31734 |
| | 380C2F1 | 11178 | 5177 | 117394 | 11178 | 5177 | -117394 |
| | 380C2F2 | 11178 | 5173 | 117394 | 11178 | 5173 | -117394 |
| | 380C2F3 | 11178 | 5167 | 117394 | 11178 | 5167 | -117394 |
| NL1/1b | GW / opgw | 1513 | 821 | 18772 | 1513 | 821 | -18772 |
| Wind, -20°C | 380C1F1 | 11172 | 6290 | 143818 | 11172 | 6290 | -143818 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 6289 | 143818 | 11172 | 6289 | -143818 |
| Wind angle: 0° | 380C1F3 | 11172 | 6288 | 143818 | 11172 | 6288 | -143818 |
| | RTG | 3027 | 1642 | 37544 | 3027 | 1642 | -37544 |
| | 380C2F1 | 11172 | 6290 | 143818 | 11172 | 6290 | -143818 |
| | 380C2F2 | 11172 | 6289 | 143818 | 11172 | 6289 | -143818 |
| | 380C2F3 | 11172 | 6288 | 143818 | 11172 | 6288 | -143818 |
| NL1/3 | GW / opgw | 7659 | 2450 | 55900 | 7659 | 2450 | -55900 |
| Wind, -5°C | 380C1F1 | 41153 | 14253 | 325504 | 41153 | 14253 | -325504 |
| Permanent loads yg= 0.9 | 380C1F2 | 41153 | 14250 | 325504 | 41153 | 14250 | -325504 |
| Wind angle: 0° | 380C1F3 | 41153 | 14245 | 325504 | 41153 | 14245 | -325504 |
| | RTG | 15319 | 4894 | 111800 | 15319 | 4894 | -111800 |
| | 380C2F1 | 41153 | 14253 | 325504 | 41153 | 14253 | -325504 |
| | 380C2F2 | 41153 | 14250 | 325504 | 41153 | 14250 | -325504 |
| | 380C2F3 | 41153 | 14245 | 325504 | 41153 | 14245 | -325504 |
| NL1/4 | GW / opgw | 2266 | 974 | 22270 | 2266 | 974 | -22270 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 6342 | 145028 | 14184 | 6342 | -145028 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 6342 | 145028 | 14184 | 6342 | -145028 |
| Wind angle: 0° | 380C1F3 | 14184 | 6340 | 145028 | 14184 | 6340 | -145028 |
| | RTG | 4531 | 1947 | 44539 | 4531 | 1947 | -44539 |
| | 380C2F1 | 14184 | 6342 | 145028 | 14184 | 6342 | -145028 |
| | 380C2F2 | 14184 | 6342 | 145028 | 14184 | 6342 | -145028 |
| | 380C2F3 | 14184 | 6340 | 145028 | 14184 | 6340 | -145028 |
| NL1/6 | GW / opgw | 1514 | 693 | 15867 | 1514 | 693 | -15867 |
| Permanent, +10°C | 380C1F1 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |
| | 380C1F3 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |
| | RTG | 3028 | 1386 | 31734 | 3028 | 1386 | -31734 |
| | 380C2F1 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |
| | 380C2F2 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |
| | 380C2F3 | 11178 | 5126 | 117395 | 11178 | 5126 | -117395 |
| NL1/1a | GW / opgw | 1515 | 3306 | 24794 | 1515 | 3840 | -27285 |
| Wind, 10°C | 380C1F1 | 11181 | 19367 | 159343 | 11182 | 22304 | -172313 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 18082 | 153828 | 11182 | 20761 | -165449 |
| Wind angle: 45° | 380C1F3 | 11180 | 16464 | 147083 | 11181 | 18813 | -156951 |
| | RTG | 3029 | 4819 | 41488 | 3029 | 5531 | -44633 |
| | 380C2F1 | 11181 | 19367 | 159343 | 11182 | 22304 | -172313 |
| | 380C2F2 | 11181 | 18082 | 153828 | 11182 | 20761 | -165449 |
| | 380C2F3 | 11180 | 16464 | 147083 | 11181 | 18813 | -156951 |
| NL1/1b | GW / opgw | 1513 | 1287 | 19310 | 1513 | 1382 | -19531 |
| Wind, -20°C | 380C1F1 | 11172 | 8855 | 146011 | 11173 | 9369 | -146931 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 8631 | 145654 | 11172 | 9099 | -146430 |
| Wind angle: 45° | 380C1F3 | 11172 | 8349 | 145246 | 11172 | 8758 | -145854 |
| | RTG | 3027 | 2262 | 38036 | 3027 | 2386 | -38244 |
| | 380C2F1 | 11172 | 8855 | 146011 | 11173 | 9369 | -146931 |
| | 380C2F2 | 11172 | 8631 | 145654 | 11172 | 9099 | -146430 |
| | 380C2F3 | 11172 | 8349 | 145246 | 11172 | 8758 | -145854 |
| NL1/3 | GW / opgw | 7660 | 4791 | 57492 | 7660 | 5255 | -58153 |
| Wind, -5°C | 380C1F1 | 41155 | 24381 | 331492 | 41156 | 26384 | -334026 |
| Permanent loads yg= 0.9 | 380C1F2 | 41155 | 23505 | 330511 | 41155 | 25331 | -332646 |
| Wind angle: 45° | 380C1F3 | 41154 | 22399 | 329387 | 41155 | 24004 | -331060 |
| | RTG | 15319 | 8030 | 113237 | 15319 | 8646 | -113857 |
| | 380C2F1 | 41155 | 24381 | 331492 | 41156 | 26384 | -334026 |
| | 380C2F2 | 41155 | 23505 | 330511 | 41155 | 25331 | -332646 |
| | 380C2F3 | 41154 | 22399 | 329387 | 41155 | 24004 | -331060 |
| NL1/4 | GW / opgw | 2266 | 1430 | 22574 | 2266 | 1521 | -22704 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 8881 | 146573 | 14184 | 9384 | -147235 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 8661 | 146318 | 14184 | 9119 | -146874 |
| Wind angle: 45° | 380C1F3 | 14184 | 8384 | 146027 | 14184 | 8786 | -146461 |
| | RTG | 4531 | 2558 | 44812 | 4531 | 2678 | -44930 |
| | 380C2F1 | 14184 | 8881 | 146573 | 14184 | 9384 | -147235 |
| | 380C2F2 | 14184 | 8661 | 146318 | 14184 | 9119 | -146874 |
| | 380C2F3 | 14184 | 8384 | 146027 | 14184 | 8786 | -146461 |
| NL1/1a | GW / opgw | 1516 | 6612 | 40006 | 1516 | 6612 | -40006 |
| Wind, 10°C | 380C1F1 | 11188 | 37732 | 242299 | 11188 | 37732 | -242299 |
| Permanent loads yg= 0.9 | 380C1F2 | 11187 | 34888 | 229487 | 11187 | 34888 | -229487 |
| Wind angle: 90° | 380C1F3 | 11186 | 31273 | 213074 | 11186 | 31273 | -213074 |
| | RTG | 3030 | 9292 | 62106 | 3030 | 9292 | -62106 |
| | 380C2F1 | 11188 | 37732 | 242299 | 11188 | 37732 | -242299 |
| | 380C2F2 | 11187 | 34888 | 229487 | 11187 | 34888 | -229487 |
| | 380C2F3 | 11186 | 31273 | 213074 | 11186 | 31273 | -213074 |
| NL1/1b | GW / opgw | 1514 | 1896 | 21165 | 1514 | 1896 | -21165 |
| Wind, -20°C | 380C1F1 | 11173 | 12147 | 153984 | 11173 | 12147 | -153984 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 11622 | 152423 | 11173 | 11622 | -152423 |
| Wind angle: 90° | 380C1F3 | 11173 | 10964 | 150602 | 11173 | 10964 | -150602 |
| | RTG | 3027 | 3055 | 39854 | 3027 | 3055 | -39854 |
| | 380C2F1 | 11173 | 12147 | 153984 | 11173 | 12147 | -153984 |
| | 380C2F2 | 11173 | 11622 | 152423 | 11173 | 11622 | -152423 |
| | 380C2F3 | 11173 | 10964 | 150602 | 11173 | 10964 | -150602 |
| NL1/3 | GW / opgw | 7662 | 7741 | 63046 | 7662 | 7741 | -63046 |
| Wind, -5°C | 380C1F1 | 41162 | 37096 | 353335 | 41162 | 37096 | -353335 |
| Permanent loads yg= 0.9 | 380C1F2 | 41160 | 35088 | 349081 | 41160 | 35088 | -349081 |
| Wind angle: 90° | 380C1F3 | 41159 | 32559 | 344103 | 41159 | 32559 | -344103 |
| | RTG | 15321 | 11930 | 118675 | 15321 | 11930 | -118675 |
| | 380C2F1 | 41162 | 37096 | 353335 | 41162 | 37096 | -353335 |
| | 380C2F2 | 41160 | 35088 | 349081 | 41160 | 35088 | -349081 |
| | 380C2F3 | 41159 | 32559 | 344103 | 41159 | 32559 | -344103 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL1/4 | GW / opgw | 2266 | 2008 | 23711 | 2266 | 2008 | -23711 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 12081 | 152422 | 14184 | 12081 | -152422 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 11574 | 151258 | 14184 | 11574 | -151258 |
| Wind angle: 90° | 380C1F3 | 14184 | 10937 | 149910 | 14184 | 10937 | -149910 |
| | RTG | 4531 | 3319 | 45880 | 4531 | 3319 | -45880 |
| | 380C2F1 | 14184 | 12081 | 152422 | 14184 | 12081 | -152422 |
| | 380C2F2 | 14184 | 11574 | 151258 | 14184 | 11574 | -151258 |
| | 380C2F3 | 14184 | 10937 | 149910 | 14184 | 10937 | -149910 |
| NL1/1a | GW / opgw | 1515 | 3840 | 27285 | 1515 | 3306 | -24794 |
| Wind, 10°C | 380C1F1 | 11182 | 22304 | 172313 | 11181 | 19367 | -159343 |
| Permanent loads yg= 0.9 | 380C1F2 | 11182 | 20761 | 165449 | 11181 | 18082 | -153828 |
| Wind angle: -45° | 380C1F3 | 11181 | 18813 | 156951 | 11180 | 16464 | -147083 |
| | RTG | 3029 | 5531 | 44633 | 3029 | 4819 | -41488 |
| | 380C2F1 | 11182 | 22304 | 172313 | 11181 | 19367 | -159343 |
| | 380C2F2 | 11182 | 20761 | 165449 | 11181 | 18082 | -153828 |
| | 380C2F3 | 11181 | 18813 | 156951 | 11180 | 16464 | -147083 |
| NL1/1b | GW / opgw | 1513 | 1382 | 19531 | 1513 | 1287 | -19310 |
| Wind, -20°C | 380C1F1 | 11173 | 9369 | 146931 | 11172 | 8855 | -146011 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 9099 | 146430 | 11172 | 8631 | -145654 |
| Wind angle: -45° | 380C1F3 | 11172 | 8758 | 145854 | 11172 | 8349 | -145246 |
| | RTG | 3027 | 2386 | 38244 | 3027 | 2262 | -38036 |
| | 380C2F1 | 11173 | 9369 | 146931 | 11172 | 8855 | -146011 |
| | 380C2F2 | 11172 | 9099 | 146430 | 11172 | 8631 | -145654 |
| | 380C2F3 | 11172 | 8758 | 145854 | 11172 | 8349 | -145246 |
| NL1/3 | GW / opgw | 7660 | 5255 | 58153 | 7660 | 4791 | -57492 |
| Wind, -5°C | 380C1F1 | 41156 | 26384 | 334026 | 41155 | 24381 | -331492 |
| Permanent loads yg= 0.9 | 380C1F2 | 41155 | 25331 | 332646 | 41155 | 23505 | -330511 |
| Wind angle: -45° | 380C1F3 | 41155 | 24004 | 331060 | 41154 | 22399 | -329387 |
| | RTG | 15319 | 8646 | 113857 | 15319 | 8030 | -113237 |
| | 380C2F1 | 41156 | 26384 | 334026 | 41155 | 24381 | -331492 |
| | 380C2F2 | 41155 | 25331 | 332646 | 41155 | 23505 | -330511 |
| | 380C2F3 | 41155 | 24004 | 331060 | 41154 | 22399 | -329387 |
| NL1/4 | GW / opgw | 2266 | 1521 | 22704 | 2266 | 1430 | -22574 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 9384 | 147235 | 14184 | 8881 | -146573 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 9119 | 146874 | 14184 | 8661 | -146318 |
| Wind angle: -45° | 380C1F3 | 14184 | 8786 | 146461 | 14184 | 8384 | -146027 |
| | RTG | 4531 | 2678 | 44930 | 4531 | 2558 | -44812 |
| | 380C2F1 | 14184 | 9384 | 147235 | 14184 | 8881 | -146573 |
| | 380C2F2 | 14184 | 9119 | 146874 | 14184 | 8661 | -146318 |
| | 380C2F3 | 14184 | 8786 | 146461 | 14184 | 8384 | -146027 |

NWW6S350UY

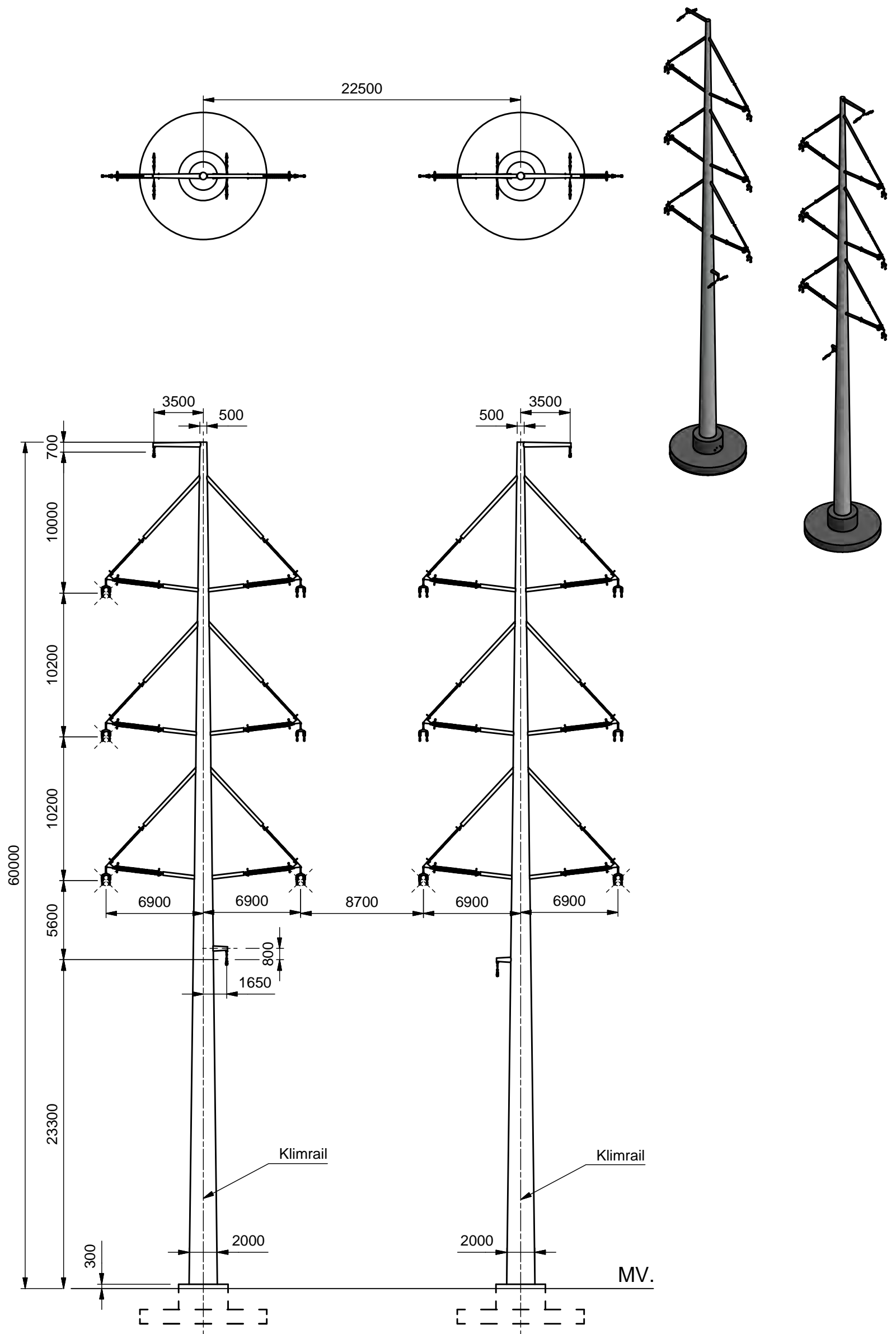
Appendix NWW6S350UY / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a | GW / opgw | 1682 | 760 | 17260 | 1682 | 760 | -17260 |
| Wind, 10°C | 380C1F1 | 12421 | 5598 | 127433 | 12421 | 5598 | -127433 |
| Permanent loads yg= 1.0 | 380C1F2 | 12421 | 5595 | 127433 | 12421 | 5595 | -127433 |
| Wind angle: 0° | 380C1F3 | 12421 | 5592 | 127433 | 12421 | 5592 | -127433 |
| | RTG | 3365 | 1516 | 34521 | 3365 | 1516 | -34521 |
| | 380C2F1 | 12421 | 5598 | 127433 | 12421 | 5598 | -127433 |
| | 380C2F2 | 12421 | 5595 | 127433 | 12421 | 5595 | -127433 |
| | 380C2F3 | 12421 | 5592 | 127433 | 12421 | 5592 | -127433 |
| NL4/1b | GW / opgw | 1682 | 884 | 20227 | 1682 | 884 | -20227 |
| Wind, -20°C | 380C1F1 | 12415 | 6739 | 154195 | 12415 | 6739 | -154195 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 6739 | 154195 | 12415 | 6739 | -154195 |
| Wind angle: 0° | 380C1F3 | 12415 | 6738 | 154195 | 12415 | 6738 | -154195 |
| | RTG | 3363 | 1768 | 40455 | 3363 | 1768 | -40455 |
| | 380C2F1 | 12415 | 6739 | 154195 | 12415 | 6739 | -154195 |
| | 380C2F2 | 12415 | 6739 | 154195 | 12415 | 6739 | -154195 |
| | 380C2F3 | 12415 | 6738 | 154195 | 12415 | 6738 | -154195 |
| NL4/3 | GW / opgw | 5777 | 2007 | 45818 | 5777 | 2007 | -45818 |
| Wind, -5°C | 380C1F1 | 32398 | 12060 | 275584 | 32398 | 12060 | -275584 |
| Permanent loads yg= 1.0 | 380C1F2 | 32398 | 12057 | 275584 | 32398 | 12057 | -275584 |
| Wind angle: 0° | 380C1F3 | 32398 | 12055 | 275584 | 32398 | 12055 | -275584 |
| | RTG | 11555 | 4009 | 91636 | 11555 | 4009 | -91636 |
| | 380C2F1 | 32398 | 12060 | 275584 | 32398 | 12060 | -275584 |
| | 380C2F2 | 32398 | 12057 | 275584 | 32398 | 12057 | -275584 |
| | 380C2F3 | 32398 | 12055 | 275584 | 32398 | 12055 | -275584 |
| NL4/4 | GW / opgw | 2183 | 946 | 21647 | 2183 | 946 | -21647 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 6420 | 146877 | 14424 | 6420 | -146877 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 6419 | 146877 | 14424 | 6419 | -146877 |
| Wind angle: 0° | 380C1F3 | 14424 | 6418 | 146877 | 14424 | 6418 | -146877 |
| | RTG | 4367 | 1892 | 43294 | 4367 | 1892 | -43294 |
| | 380C2F1 | 14424 | 6420 | 146877 | 14424 | 6420 | -146877 |
| | 380C2F2 | 14424 | 6419 | 146877 | 14424 | 6419 | -146877 |
| | 380C2F3 | 14424 | 6418 | 146877 | 14424 | 6418 | -146877 |
| NL4/1a | GW / opgw | 1683 | 2424 | 21563 | 1683 | 2770 | -23004 |
| Wind, 10°C | 380C1F1 | 12422 | 14664 | 146399 | 12423 | 16544 | -153260 |
| Permanent loads yg= 1.0 | 380C1F2 | 12422 | 13847 | 143607 | 12423 | 15555 | -149580 |
| Wind angle: 45° | 380C1F3 | 12422 | 12820 | 140302 | 12422 | 14312 | -145179 |
| | RTG | 3365 | 3700 | 38832 | 3365 | 4153 | -40434 |
| | 380C2F1 | 12422 | 14664 | 146399 | 12423 | 16544 | -153260 |
| | 380C2F2 | 12422 | 13847 | 143607 | 12423 | 15555 | -149580 |
| | 380C2F3 | 12422 | 12820 | 140302 | 12422 | 14312 | -145179 |
| NL4/1b | GW / opgw | 1682 | 1188 | 20434 | 1682 | 1249 | -20522 |
| Wind, -20°C | 380C1F1 | 12415 | 8422 | 155021 | 12415 | 8753 | -155379 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 8277 | 154883 | 12415 | 8579 | -155183 |
| Wind angle: 45° | 380C1F3 | 12415 | 8094 | 154726 | 12415 | 8359 | -154960 |
| | RTG | 3363 | 2175 | 40639 | 3363 | 2255 | -40720 |
| | 380C2F1 | 12415 | 8422 | 155021 | 12415 | 8753 | -155379 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 12415 | 8277 | 154883 | 12415 | 8579 | -155183 |
| | 380C2F3 | 12415 | 8094 | 154726 | 12415 | 8359 | -154960 |
| NL4/3 | GW / opgw | 5778 | 3565 | 46851 | 5778 | 3874 | -47284 |
| Wind, -5°C | 380C1F1 | 32398 | 18794 | 279238 | 32399 | 20124 | -280801 |
| Permanent loads yg= 1.0 | 380C1F2 | 32398 | 18213 | 278635 | 32399 | 19425 | -279949 |
| Wind angle: 45° | 380C1F3 | 32398 | 17479 | 277945 | 32398 | 18544 | -278972 |
| | RTG | 11555 | 6098 | 92565 | 11555 | 6508 | -92967 |
| | 380C2F1 | 32398 | 18794 | 279238 | 32399 | 20124 | -280801 |
| | 380C2F2 | 32398 | 18213 | 278635 | 32399 | 19425 | -279949 |
| | 380C2F3 | 32398 | 17479 | 277945 | 32398 | 18544 | -278972 |
| NL4/4 | GW / opgw | 2183 | 1248 | 21786 | 2183 | 1307 | -21847 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 8095 | 147528 | 14424 | 8424 | -147814 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 7952 | 147418 | 14424 | 8251 | -147658 |
| Wind angle: 45° | 380C1F3 | 14424 | 7770 | 147293 | 14424 | 8033 | -147479 |
| | RTG | 4367 | 2297 | 43416 | 4367 | 2376 | -43471 |
| | 380C2F1 | 14424 | 8095 | 147528 | 14424 | 8424 | -147814 |
| | 380C2F2 | 14424 | 7952 | 147418 | 14424 | 8251 | -147658 |
| | 380C2F3 | 14424 | 7770 | 147293 | 14424 | 8033 | -147479 |
| NL4/1a | GW / opgw | 1683 | 4607 | 31258 | 1683 | 4607 | -31258 |
| Wind, 10°C | 380C1F1 | 12427 | 26635 | 195568 | 12427 | 26635 | -195568 |
| Permanent loads yg= 1.0 | 380C1F2 | 12426 | 24752 | 187309 | 12426 | 24752 | -187309 |
| Wind angle: 90° | 380C1F3 | 12425 | 22372 | 177015 | 12425 | 22372 | -177015 |
| | RTG | 3366 | 6596 | 50637 | 3366 | 6596 | -50637 |
| | 380C2F1 | 12427 | 26635 | 195568 | 12427 | 26635 | -195568 |
| | 380C2F2 | 12426 | 24752 | 187309 | 12426 | 24752 | -187309 |
| | 380C2F3 | 12425 | 22372 | 177015 | 12425 | 22372 | -177015 |
| NL4/1b | GW / opgw | 1682 | 1574 | 21211 | 1682 | 1574 | -21211 |
| Wind, -20°C | 380C1F1 | 12415 | 10525 | 158238 | 12415 | 10525 | -158238 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 10192 | 157590 | 12415 | 10192 | -157590 |
| Wind angle: 90° | 380C1F3 | 12415 | 9774 | 156844 | 12415 | 9774 | -156844 |
| | RTG | 3363 | 2682 | 41365 | 3363 | 2682 | -41365 |
| | 380C2F1 | 12415 | 10525 | 158238 | 12415 | 10525 | -158238 |
| | 380C2F2 | 12415 | 10192 | 157590 | 12415 | 10192 | -157590 |
| | 380C2F3 | 12415 | 9774 | 156844 | 12415 | 9774 | -156844 |
| NL4/3 | GW / opgw | 5779 | 5531 | 50545 | 5779 | 5531 | -50545 |
| Wind, -5°C | 380C1F1 | 32402 | 27229 | 292921 | 32402 | 27229 | -292921 |
| Permanent loads yg= 1.0 | 380C1F2 | 32401 | 25897 | 290221 | 32401 | 25897 | -290221 |
| Wind angle: 90° | 380C1F3 | 32400 | 24220 | 287082 | 32400 | 24220 | -287082 |
| | RTG | 11556 | 8694 | 96130 | 11556 | 8694 | -96130 |
| | 380C2F1 | 32402 | 27229 | 292921 | 32402 | 27229 | -292921 |
| | 380C2F2 | 32401 | 25897 | 290221 | 32401 | 25897 | -290221 |
| | 380C2F3 | 32400 | 24220 | 287082 | 32400 | 24220 | -287082 |
| NL4/4 | GW / opgw | 2183 | 1623 | 22330 | 2183 | 1623 | -22330 |
| Construction/maintenance, +5°C | 380C1F1 | 14425 | 10172 | 150121 | 14425 | 10172 | -150121 |
| Permanent loads yg= 1.0 | 380C1F2 | 14425 | 9845 | 149596 | 14425 | 9845 | -149596 |
| Wind angle: 90° | 380C1F3 | 14424 | 9433 | 148993 | 14424 | 9433 | -148993 |
| | RTG | 4367 | 2794 | 43917 | 4367 | 2794 | -43917 |
| | 380C2F1 | 14425 | 10172 | 150121 | 14425 | 10172 | -150121 |
| | 380C2F2 | 14425 | 9845 | 149596 | 14425 | 9845 | -149596 |
| | 380C2F3 | 14424 | 9433 | 148993 | 14424 | 9433 | -148993 |
| NL4/1a | GW / opgw | 1683 | 2770 | 23004 | 1683 | 2424 | -21563 |
| Wind, 10°C | 380C1F1 | 12423 | 16544 | 153260 | 12422 | 14664 | -146399 |
| Permanent loads yg= 1.0 | 380C1F2 | 12423 | 15555 | 149580 | 12422 | 13847 | -143607 |
| Wind angle: -45° | 380C1F3 | 12422 | 14312 | 145179 | 12422 | 12820 | -140302 |
| | RTG | 3365 | 4153 | 40434 | 3365 | 3700 | -38832 |
| | 380C2F1 | 12423 | 16544 | 153260 | 12422 | 14664 | -146399 |
| | 380C2F2 | 12423 | 15555 | 149580 | 12422 | 13847 | -143607 |
| | 380C2F3 | 12422 | 14312 | 145179 | 12422 | 12820 | -140302 |
| NL4/1b | GW / opgw | 1682 | 1249 | 20522 | 1682 | 1188 | -20434 |
| Wind, -20°C | 380C1F1 | 12415 | 8753 | 155379 | 12415 | 8422 | -155021 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 8579 | 155183 | 12415 | 8277 | -154883 |
| Wind angle: -45° | 380C1F3 | 12415 | 8359 | 154960 | 12415 | 8094 | -154726 |


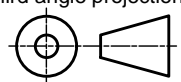
| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3363 | 2255 | 40720 | 3363 | 2175 | -40639 |
| | 380C2F1 | 12415 | 8753 | 155379 | 12415 | 8422 | -155021 |
| | 380C2F2 | 12415 | 8579 | 155183 | 12415 | 8277 | -154883 |
| | 380C2F3 | 12415 | 8359 | 154960 | 12415 | 8094 | -154726 |
| NL4/3 | GW / opgw | 5778 | 3874 | 47284 | 5778 | 3565 | -46851 |
| Wind, -5°C | 380C1F1 | 32399 | 20124 | 280801 | 32398 | 18794 | -279238 |
| Permanent loads yg= 1.0 | 380C1F2 | 32399 | 19425 | 279949 | 32398 | 18213 | -278635 |
| Wind angle: -45° | 380C1F3 | 32398 | 18544 | 278972 | 32398 | 17479 | -277945 |
| | RTG | 11555 | 6508 | 92967 | 11555 | 6098 | -92565 |
| | 380C2F1 | 32399 | 20124 | 280801 | 32398 | 18794 | -279238 |
| | 380C2F2 | 32399 | 19425 | 279949 | 32398 | 18213 | -278635 |
| | 380C2F3 | 32398 | 18544 | 278972 | 32398 | 17479 | -277945 |
| NL4/4 | GW / opgw | 2183 | 1307 | 21847 | 2183 | 1248 | -21786 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 8424 | 147814 | 14424 | 8095 | -147528 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 8251 | 147658 | 14424 | 7952 | -147418 |
| Wind angle: -45° | 380C1F3 | 14424 | 8033 | 147479 | 14424 | 7770 | -147293 |
| | RTG | 4367 | 2376 | 43471 | 4367 | 2297 | -43416 |
| | 380C2F1 | 14424 | 8424 | 147814 | 14424 | 8095 | -147528 |
| | 380C2F2 | 14424 | 8251 | 147658 | 14424 | 7952 | -147418 |
| | 380C2F3 | 14424 | 8033 | 147479 | 14424 | 7770 | -147293 |



Wintrack
Masttype: NWW6S400UY

- Trekparameter 1800m
- 4x380 Steunmast
- 400m Veldlengte
- 175»180» Lijnhoek
- IJsg gebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|-----------|-------------------------|
| Rev. | Date | Description |
| 3 | 13-6-2013 | Small modification |
| 4 | 22-5-2014 | New template |
| 5 | 13-1-2016 | Kleurstelling aangepast |

| | | |
|--|--------------------------------|--|
|  | | Projectname: TenneT Engineering verbinding NW380 |
| Design state: Released | | Third angle projection:  |
| Drawn by: SGR 22-5-2014 | Scale: 1 : 300 | Drawing no.: 74101611-035-290 |
| Checked by: EKA 23-5-2014 | Units: mm | Description: NWW6S400UY |
| Approved by: AW 23-5-2014 | Project no: Company: TenneT | |
| | | Revision: 5 |
| | | Format: A3 |

DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com

NWW6S400UY

Appendix NWW6S400UY / NL1

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2309 | 887 | 20077 | 2309 | 887 | -20077 |
| Wind, 10°C | 380C1F1 | 17045 | 6512 | 147783 | 17045 | 6512 | -147783 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 6507 | 147784 | 17045 | 6507 | -147784 |
| Wind angle: 0° | 380C1F3 | 17045 | 6501 | 147784 | 17045 | 6501 | -147784 |
| | RTG | 4617 | 1768 | 40154 | 4617 | 1768 | -40154 |
| | 380C2F1 | 17045 | 6512 | 147783 | 17045 | 6512 | -147783 |
| | 380C2F2 | 17045 | 6507 | 147784 | 17045 | 6507 | -147784 |
| | 380C2F3 | 17045 | 6501 | 147784 | 17045 | 6501 | -147784 |
| NL1/1b | GW / opgw | 2308 | 986 | 22538 | 2308 | 986 | -22538 |
| Wind, -20°C | 380C1F1 | 17036 | 7424 | 169770 | 17036 | 7424 | -169770 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 7423 | 169770 | 17036 | 7423 | -169770 |
| Wind angle: 0° | 380C1F3 | 17036 | 7422 | 169770 | 17036 | 7422 | -169770 |
| | RTG | 4615 | 1971 | 45077 | 4615 | 1971 | -45077 |
| | 380C2F1 | 17036 | 7424 | 169770 | 17036 | 7424 | -169770 |
| | 380C2F2 | 17036 | 7423 | 169770 | 17036 | 7423 | -169770 |
| | 380C2F3 | 17036 | 7422 | 169770 | 17036 | 7422 | -169770 |
| NL1/3 | GW / opgw | 9338 | 2685 | 61250 | 9338 | 2685 | -61250 |
| Wind, -5°C | 380C1F1 | 51333 | 15742 | 359448 | 51333 | 15742 | -359448 |
| Permanent loads yg= 1.2 | 380C1F2 | 51333 | 15738 | 359448 | 51333 | 15738 | -359448 |
| Wind angle: 0° | 380C1F3 | 51333 | 15732 | 359448 | 51333 | 15732 | -359448 |
| | RTG | 18676 | 5363 | 122499 | 18676 | 5363 | -122499 |
| | 380C2F1 | 51333 | 15742 | 359448 | 51333 | 15742 | -359448 |
| | 380C2F2 | 51333 | 15738 | 359448 | 51333 | 15738 | -359448 |
| | 380C2F3 | 51333 | 15732 | 359448 | 51333 | 15732 | -359448 |
| NL1/4 | GW / opgw | 3061 | 1122 | 25654 | 3061 | 1122 | -25654 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 7508 | 171694 | 20053 | 7508 | -171694 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 7507 | 171694 | 20053 | 7507 | -171694 |
| Wind angle: 0° | 380C1F3 | 20053 | 7506 | 171694 | 20053 | 7506 | -171694 |
| | RTG | 6122 | 2243 | 51307 | 6122 | 2243 | -51307 |
| | 380C2F1 | 20053 | 7508 | 171694 | 20053 | 7508 | -171694 |
| | 380C2F2 | 20053 | 7507 | 171694 | 20053 | 7507 | -171694 |
| | 380C2F3 | 20053 | 7506 | 171694 | 20053 | 7506 | -171694 |
| NL1/6 | GW / opgw | 2597 | 965 | 22111 | 2597 | 965 | -22111 |
| Permanent, +10°C | 380C1F1 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| Permanent loads yg= 1.35 | 380C1F2 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| | 380C1F3 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| | RTG | 5195 | 1931 | 44221 | 5195 | 1931 | -44221 |
| | 380C2F1 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| | 380C2F2 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| | 380C2F3 | 19177 | 7092 | 162441 | 19177 | 7092 | -162441 |
| NL1/1a | GW / opgw | 2309 | 3800 | 27778 | 2310 | 4399 | -30168 |
| Wind, 10°C | 380C1F1 | 17049 | 22375 | 182542 | 17051 | 25644 | -194364 |
| Permanent loads yg= 1.2 | 380C1F2 | 17049 | 20929 | 177571 | 17050 | 23900 | -187970 |
| Wind angle: 45° | 380C1F3 | 17048 | 19038 | 171384 | 17049 | 21618 | -179916 |
| | RTG | 4618 | 5587 | 48099 | 4618 | 6376 | -50895 |
| | 380C2F1 | 17049 | 22375 | 182542 | 17051 | 25644 | -194364 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 17049 | 20929 | 177571 | 17050 | 23900 | -187970 |
| | 380C2F3 | 17048 | 19038 | 171384 | 17049 | 21618 | -179916 |
| NL1/1b | GW / opgw | 2308 | 1519 | 22942 | 2308 | 1625 | -23112 |
| Wind, -20°C | 380C1F1 | 17036 | 10362 | 171403 | 17036 | 10943 | -172105 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 10105 | 171129 | 17036 | 10633 | -171717 |
| Wind angle: 45° | 380C1F3 | 17036 | 9767 | 170805 | 17036 | 10228 | -171257 |
| | RTG | 4615 | 2681 | 45437 | 4615 | 2821 | -45593 |
| | 380C2F1 | 17036 | 10362 | 171403 | 17036 | 10943 | -172105 |
| | 380C2F2 | 17036 | 10105 | 171129 | 17036 | 10633 | -171717 |
| | 380C2F3 | 17036 | 9767 | 170805 | 17036 | 10228 | -171257 |
| NL1/3 | GW / opgw | 9339 | 5400 | 62886 | 9339 | 5937 | -63571 |
| Wind, -5°C | 380C1F1 | 51335 | 27454 | 365365 | 51336 | 29761 | -367894 |
| Permanent loads yg= 1.2 | 380C1F2 | 51334 | 26430 | 364374 | 51335 | 28532 | -366496 |
| Wind angle: 45° | 380C1F3 | 51334 | 25085 | 363201 | 51335 | 26918 | -364836 |
| | RTG | 18677 | 8990 | 123958 | 18677 | 9701 | -124592 |
| | 380C2F1 | 51335 | 27454 | 365365 | 51336 | 29761 | -367894 |
| | 380C2F2 | 51334 | 26430 | 364374 | 51335 | 28532 | -366496 |
| | 380C2F3 | 51334 | 25085 | 363201 | 51335 | 26918 | -364836 |
| NL1/4 | GW / opgw | 3061 | 1649 | 25920 | 3061 | 1753 | -26035 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 10432 | 172950 | 20053 | 11006 | -173498 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 10177 | 172736 | 20053 | 10700 | -173194 |
| Wind angle: 45° | 380C1F3 | 20053 | 9842 | 172484 | 20053 | 10298 | -172836 |
| | RTG | 6122 | 2948 | 51540 | 6122 | 3085 | -51644 |
| | 380C2F1 | 20053 | 10432 | 172950 | 20053 | 11006 | -173498 |
| | 380C2F2 | 20053 | 10177 | 172736 | 20053 | 10700 | -173194 |
| | 380C2F3 | 20053 | 9842 | 172484 | 20053 | 10298 | -172836 |
| NL1/1a | GW / opgw | 2311 | 7545 | 43115 | 2311 | 7545 | -43115 |
| Wind, 10°C | 380C1F1 | 17059 | 42999 | 262931 | 17059 | 42999 | -262931 |
| Permanent loads yg= 1.2 | 380C1F2 | 17057 | 39733 | 249758 | 17057 | 39733 | -249758 |
| Wind angle: 90° | 380C1F3 | 17055 | 35430 | 232466 | 17055 | 35430 | -232466 |
| | RTG | 4620 | 10583 | 67656 | 4620 | 10583 | -67656 |
| | 380C2F1 | 17059 | 42999 | 262931 | 17059 | 42999 | -262931 |
| | 380C2F2 | 17057 | 39733 | 249758 | 17057 | 39733 | -249758 |
| | 380C2F3 | 17055 | 35430 | 232466 | 17055 | 35430 | -232466 |
| NL1/1b | GW / opgw | 2308 | 2197 | 24417 | 2308 | 2197 | -24417 |
| Wind, -20°C | 380C1F1 | 17037 | 14051 | 177627 | 17037 | 14051 | -177627 |
| Permanent loads yg= 1.2 | 380C1F2 | 17037 | 13459 | 176369 | 17037 | 13459 | -176369 |
| Wind angle: 90° | 380C1F3 | 17036 | 12685 | 174861 | 17036 | 12685 | -174861 |
| | RTG | 4615 | 3569 | 46829 | 4615 | 3569 | -46829 |
| | 380C2F1 | 17037 | 14051 | 177627 | 17037 | 14051 | -177627 |
| | 380C2F2 | 17037 | 13459 | 176369 | 17037 | 13459 | -176369 |
| | 380C2F3 | 17036 | 12685 | 174861 | 17036 | 12685 | -174861 |
| NL1/3 | GW / opgw | 9341 | 8805 | 68683 | 9341 | 8805 | -68683 |
| Wind, -5°C | 380C1F1 | 51343 | 42068 | 387352 | 51343 | 42068 | -387352 |
| Permanent loads yg= 1.2 | 380C1F2 | 51342 | 39731 | 382980 | 51342 | 39731 | -382980 |
| Wind angle: 90° | 380C1F3 | 51340 | 36670 | 377697 | 51340 | 36670 | -377697 |
| | RTG | 18679 | 13482 | 129555 | 18679 | 13482 | -129555 |
| | 380C2F1 | 51343 | 42068 | 387352 | 51343 | 42068 | -387352 |
| | 380C2F2 | 51342 | 39731 | 382980 | 51342 | 39731 | -382980 |
| | 380C2F3 | 51340 | 36670 | 377697 | 51340 | 36670 | -377697 |
| NL1/4 | GW / opgw | 3061 | 2308 | 26941 | 3061 | 2308 | -26941 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 14065 | 177868 | 20053 | 14065 | -177868 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 13484 | 176864 | 20053 | 13484 | -176864 |
| Wind angle: 90° | 380C1F3 | 20053 | 12723 | 175668 | 20053 | 12723 | -175668 |
| | RTG | 6122 | 3817 | 52482 | 6122 | 3817 | -52482 |
| | 380C2F1 | 20053 | 14065 | 177868 | 20053 | 14065 | -177868 |
| | 380C2F2 | 20053 | 13484 | 176864 | 20053 | 13484 | -176864 |
| | 380C2F3 | 20053 | 12723 | 175668 | 20053 | 12723 | -175668 |
| NL1/1a | GW / opgw | 2310 | 4399 | 30168 | 2309 | 3800 | -27778 |
| Wind, 10°C | 380C1F1 | 17051 | 25644 | 194364 | 17049 | 22375 | -182542 |
| Permanent loads yg= 1.2 | 380C1F2 | 17050 | 23900 | 187970 | 17049 | 20929 | -177571 |
| Wind angle: -45° | 380C1F3 | 17049 | 21618 | 179916 | 17048 | 19038 | -171384 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4618 | 6376 | 50895 | 4618 | 5587 | -48099 |
| | 380C2F1 | 17051 | 25644 | 194364 | 17049 | 22375 | -182542 |
| | 380C2F2 | 17050 | 23900 | 187970 | 17049 | 20929 | -177571 |
| | 380C2F3 | 17049 | 21618 | 179916 | 17048 | 19038 | -171384 |
| NL1/1b | GW / opgw | 2308 | 1625 | 23112 | 2308 | 1519 | -22942 |
| Wind, -20°C | 380C1F1 | 17036 | 10943 | 172105 | 17036 | 10362 | -171403 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 10633 | 171717 | 17036 | 10105 | -171129 |
| Wind angle: -45° | 380C1F3 | 17036 | 10228 | 171257 | 17036 | 9767 | -170805 |
| | RTG | 4615 | 2821 | 45593 | 4615 | 2681 | -45437 |
| | 380C2F1 | 17036 | 10943 | 172105 | 17036 | 10362 | -171403 |
| | 380C2F2 | 17036 | 10633 | 171717 | 17036 | 10105 | -171129 |
| | 380C2F3 | 17036 | 10228 | 171257 | 17036 | 9767 | -170805 |
| NL1/3 | GW / opgw | 9339 | 5937 | 63571 | 9339 | 5400 | -62886 |
| Wind, -5°C | 380C1F1 | 51336 | 29761 | 367894 | 51335 | 27454 | -365365 |
| Permanent loads yg= 1.2 | 380C1F2 | 51335 | 28532 | 366496 | 51334 | 26430 | -364374 |
| Wind angle: -45° | 380C1F3 | 51335 | 26918 | 364836 | 51334 | 25085 | -363201 |
| | RTG | 18677 | 9701 | 124592 | 18677 | 8990 | -123958 |
| | 380C2F1 | 51336 | 29761 | 367894 | 51335 | 27454 | -365365 |
| | 380C2F2 | 51335 | 28532 | 366496 | 51334 | 26430 | -364374 |
| | 380C2F3 | 51335 | 26918 | 364836 | 51334 | 25085 | -363201 |
| NL1/4 | GW / opgw | 3061 | 1753 | 26035 | 3061 | 1649 | -25920 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 11006 | 173498 | 20053 | 10432 | -172950 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 10700 | 173194 | 20053 | 10177 | -172736 |
| Wind angle: -45° | 380C1F3 | 20053 | 10298 | 172836 | 20053 | 9842 | -172484 |
| | RTG | 6122 | 3085 | 51644 | 6122 | 2948 | -51540 |
| | 380C2F1 | 20053 | 11006 | 173498 | 20053 | 10432 | -172950 |
| | 380C2F2 | 20053 | 10700 | 173194 | 20053 | 10177 | -172736 |
| | 380C2F3 | 20053 | 10298 | 172836 | 20053 | 9842 | -172484 |
| NL1//1a | GW / opgw | 1731 | 701 | 15800 | 1731 | 701 | -15800 |
| Wind, 10°C | 380C1F1 | 12781 | 5162 | 116856 | 12781 | 5162 | -116856 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 5157 | 116856 | 12781 | 5157 | -116856 |
| Wind angle: 0° | 380C1F3 | 12781 | 5150 | 116856 | 12781 | 5150 | -116856 |
| | RTG | 3462 | 1394 | 31599 | 3462 | 1394 | -31599 |
| | 380C2F1 | 12781 | 5162 | 116856 | 12781 | 5162 | -116856 |
| | 380C2F2 | 12781 | 5157 | 116856 | 12781 | 5157 | -116856 |
| | 380C2F3 | 12781 | 5150 | 116856 | 12781 | 5150 | -116856 |
| NL1/1b | GW / opgw | 1730 | 790 | 18036 | 1730 | 790 | -18036 |
| Wind, -20°C | 380C1F1 | 12774 | 6004 | 137240 | 12774 | 6004 | -137240 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 6003 | 137240 | 12774 | 6003 | -137240 |
| Wind angle: 0° | 380C1F3 | 12774 | 6002 | 137240 | 12774 | 6002 | -137240 |
| | RTG | 3461 | 1578 | 36072 | 3461 | 1578 | -36072 |
| | 380C2F1 | 12774 | 6004 | 137240 | 12774 | 6004 | -137240 |
| | 380C2F2 | 12774 | 6003 | 137240 | 12774 | 6003 | -137240 |
| | 380C2F3 | 12774 | 6002 | 137240 | 12774 | 6002 | -137240 |
| NL1/3 | GW / opgw | 8759 | 2564 | 58462 | 8759 | 2564 | -58462 |
| Wind, -5°C | 380C1F1 | 47059 | 14784 | 337512 | 47059 | 14784 | -337512 |
| Permanent loads yg= 0.9 | 380C1F2 | 47059 | 14780 | 337512 | 47059 | 14780 | -337512 |
| Wind angle: 0° | 380C1F3 | 47059 | 14775 | 337513 | 47059 | 14775 | -337513 |
| | RTG | 17518 | 5120 | 116924 | 17518 | 5120 | -116924 |
| | 380C2F1 | 47059 | 14784 | 337512 | 47059 | 14784 | -337512 |
| | 380C2F2 | 47059 | 14780 | 337512 | 47059 | 14780 | -337512 |
| | 380C2F3 | 47059 | 14775 | 337513 | 47059 | 14775 | -337513 |
| NL1/4 | GW / opgw | 2483 | 949 | 21689 | 2483 | 949 | -21689 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 6213 | 142035 | 15788 | 6213 | -142035 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 6212 | 142035 | 15788 | 6212 | -142035 |
| Wind angle: 0° | 380C1F3 | 15788 | 6211 | 142035 | 15788 | 6211 | -142035 |
| | RTG | 4966 | 1897 | 43378 | 4966 | 1897 | -43378 |
| | 380C2F1 | 15788 | 6213 | 142035 | 15788 | 6213 | -142035 |
| | 380C2F2 | 15788 | 6212 | 142035 | 15788 | 6212 | -142035 |
| | 380C2F3 | 15788 | 6211 | 142035 | 15788 | 6211 | -142035 |
| NL1/6 | GW / opgw | 1731 | 690 | 15800 | 1731 | 690 | -15800 |
| Permanent, +10°C | 380C1F1 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |

| | | | | | | | |
|--|---------|-----------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |
| | 380C1F3 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |
| | RTG | 3462 | 1380 | 31600 | 3462 | 1380 | -31600 |
| | 380C2F1 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |
| | 380C2F2 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |
| | 380C2F3 | 12781 | 5102 | 116857 | 12781 | 5102 | -116857 |
| | NL1/1a | GW / opgw | 1732 | 3699 | 25472 | 1732 | 4312 |
| Wind, 10°C | 380C1F1 | 12785 | 21489 | 162295 | 12786 | 24856 | -176375 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 12784 | 19995 | 156228 | 12786 | 23062 | -168815 |
| | 380C1F3 | 12784 | 18038 | 148529 | 12785 | 20707 | -159102 |
| | RTG | 3463 | 5325 | 42094 | 3463 | 6139 | -45486 |
| | 380C2F1 | 12785 | 21489 | 162295 | 12786 | 24856 | -176375 |
| | 380C2F2 | 12784 | 19995 | 156228 | 12786 | 23062 | -168815 |
| | 380C2F3 | 12784 | 18038 | 148529 | 12785 | 20707 | -159102 |
| | NL1/1b | GW / opgw | 1730 | 1330 | 18625 | 1730 | 1439 |
| Wind, -20°C | 380C1F1 | 12774 | 8976 | 139665 | 12774 | 9570 | -140685 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 12774 | 8713 | 139265 | 12774 | 9253 | -140121 |
| | 380C1F3 | 12774 | 8369 | 138791 | 12774 | 8838 | -139452 |
| | RTG | 3461 | 2295 | 36605 | 3461 | 2438 | -36832 |
| | 380C2F1 | 12774 | 8976 | 139665 | 12774 | 9570 | -140685 |
| | 380C2F2 | 12774 | 8713 | 139265 | 12774 | 9253 | -140121 |
| | 380C2F3 | 12774 | 8369 | 138791 | 12774 | 8838 | -139452 |
| | NL1/3 | GW / opgw | 8760 | 5285 | 60246 | 8760 | 5824 |
| Wind, -5°C | 380C1F1 | 47061 | 26528 | 344188 | 47062 | 28847 | -347015 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 47061 | 25498 | 343078 | 47062 | 27611 | -345453 |
| | 380C1F3 | 47061 | 24147 | 341761 | 47061 | 25989 | -343596 |
| | RTG | 17518 | 8752 | 118521 | 17519 | 9466 | -119211 |
| | 380C2F1 | 47061 | 26528 | 344188 | 47062 | 28847 | -347015 |
| | 380C2F2 | 47061 | 25498 | 343078 | 47062 | 27611 | -345453 |
| | 380C2F3 | 47061 | 24147 | 341761 | 47061 | 25989 | -343596 |
| | NL1/4 | GW / opgw | 2483 | 1480 | 22042 | 2483 | 1585 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 9157 | 143780 | 15788 | 9740 | -144527 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 15788 | 8899 | 143488 | 15788 | 9429 | -144114 |
| | 380C1F3 | 15788 | 8560 | 143143 | 15788 | 9022 | -143624 |
| | RTG | 4966 | 2605 | 43691 | 4966 | 2744 | -43828 |
| | 380C2F1 | 15788 | 9157 | 143780 | 15788 | 9740 | -144527 |
| | 380C2F2 | 15788 | 8899 | 143488 | 15788 | 9429 | -144114 |
| | 380C2F3 | 15788 | 8560 | 143143 | 15788 | 9022 | -143624 |
| | NL1/1a | GW / opgw | 1733 | 7498 | 42058 | 1733 | 7498 |
| Wind, 10°C | 380C1F1 | 12793 | 42545 | 252582 | 12793 | 42545 | -252582 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 12792 | 39235 | 238400 | 12792 | 39235 | -238400 |
| | 380C1F3 | 12790 | 34863 | 219526 | 12790 | 34863 | -219526 |
| | RTG | 3465 | 10441 | 64409 | 3465 | 10441 | -64409 |
| | 380C2F1 | 12793 | 42545 | 252582 | 12793 | 42545 | -252582 |
| | 380C2F2 | 12792 | 39235 | 238400 | 12792 | 39235 | -238400 |
| | 380C2F3 | 12790 | 34863 | 219526 | 12790 | 34863 | -219526 |
| | NL1/1b | GW / opgw | 1731 | 2033 | 20656 | 1731 | 2033 |
| Wind, -20°C | 380C1F1 | 12775 | 12778 | 148489 | 12775 | 12778 | -148489 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 12775 | 12164 | 146739 | 12775 | 12164 | -146739 |
| | 380C1F3 | 12775 | 11364 | 144621 | 12775 | 11364 | -144621 |
| | RTG | 3461 | 3209 | 38583 | 3461 | 3209 | -38583 |
| | 380C2F1 | 12775 | 12778 | 148489 | 12775 | 12778 | -148489 |
| | 380C2F2 | 12775 | 12164 | 146739 | 12775 | 12164 | -146739 |
| | 380C2F3 | 12775 | 11364 | 144621 | 12775 | 11364 | -144621 |
| | NL1/3 | GW / opgw | 8762 | 8708 | 66463 | 8762 | 8708 |
| Wind, -5°C | 380C1F1 | 47070 | 41244 | 368539 | 47070 | 41244 | -368539 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 47068 | 38888 | 363734 | 47068 | 38888 | -363734 |
| | 380C1F3 | 47066 | 35803 | 357905 | 47066 | 35803 | -357905 |
| | RTG | 17521 | 13264 | 124576 | 17521 | 13264 | -124576 |
| | 380C2F1 | 47070 | 41244 | 368539 | 47070 | 41244 | -368539 |
| | 380C2F2 | 47068 | 38888 | 363734 | 47068 | 38888 | -363734 |
| | 380C2F3 | 47066 | 35803 | 357905 | 47066 | 35803 | -357905 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL1/4 | GW / opgw | 2483 | 2151 | 23352 | 2483 | 2151 | -23352 |
| Construction/maintenance, +5°C | 380C1F1 | 15789 | 12864 | 150375 | 15789 | 12864 | -150375 |
| Permanent loads yg= 0.9 | 380C1F2 | 15789 | 12268 | 149046 | 15789 | 12268 | -149046 |
| Wind angle: 90° | 380C1F3 | 15788 | 11490 | 147451 | 15788 | 11490 | -147451 |
| | RTG | 4966 | 3486 | 44918 | 4966 | 3486 | -44918 |
| | 380C2F1 | 15789 | 12864 | 150375 | 15789 | 12864 | -150375 |
| | 380C2F2 | 15789 | 12268 | 149046 | 15789 | 12268 | -149046 |
| | 380C2F3 | 15788 | 11490 | 147451 | 15788 | 11490 | -147451 |
| NL1/1a | GW / opgw | 1732 | 4312 | 28179 | 1732 | 3699 | -25472 |
| Wind, 10°C | 380C1F1 | 12786 | 24856 | 176375 | 12785 | 21489 | -162295 |
| Permanent loads yg= 0.9 | 380C1F2 | 12786 | 23062 | 168815 | 12784 | 19995 | -156228 |
| Wind angle: -45° | 380C1F3 | 12785 | 20707 | 159102 | 12784 | 18038 | -148529 |
| | RTG | 3463 | 6139 | 45486 | 3463 | 5325 | -42094 |
| | 380C2F1 | 12786 | 24856 | 176375 | 12785 | 21489 | -162295 |
| | 380C2F2 | 12786 | 23062 | 168815 | 12784 | 19995 | -156228 |
| | 380C2F3 | 12785 | 20707 | 159102 | 12784 | 18038 | -148529 |
| NL1/1b | GW / opgw | 1730 | 1439 | 18867 | 1730 | 1330 | -18625 |
| Wind, -20°C | 380C1F1 | 12774 | 9570 | 140685 | 12774 | 8976 | -139665 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 9253 | 140121 | 12774 | 8713 | -139265 |
| Wind angle: -45° | 380C1F3 | 12774 | 8838 | 139452 | 12774 | 8369 | -138791 |
| | RTG | 3461 | 2438 | 36832 | 3461 | 2295 | -36605 |
| | 380C2F1 | 12774 | 9570 | 140685 | 12774 | 8976 | -139665 |
| | 380C2F2 | 12774 | 9253 | 140121 | 12774 | 8713 | -139265 |
| | 380C2F3 | 12774 | 8838 | 139452 | 12774 | 8369 | -138791 |
| NL1/3 | GW / opgw | 8760 | 5824 | 60987 | 8760 | 5285 | -60246 |
| Wind, -5°C | 380C1F1 | 47062 | 28847 | 347015 | 47061 | 26528 | -344188 |
| Permanent loads yg= 0.9 | 380C1F2 | 47062 | 27611 | 345453 | 47061 | 25498 | -343078 |
| Wind angle: -45° | 380C1F3 | 47061 | 25989 | 343596 | 47061 | 24147 | -341761 |
| | RTG | 17519 | 9466 | 119211 | 17518 | 8752 | -118521 |
| | 380C2F1 | 47062 | 28847 | 347015 | 47061 | 26528 | -344188 |
| | 380C2F2 | 47062 | 27611 | 345453 | 47061 | 25498 | -343078 |
| | 380C2F3 | 47061 | 25989 | 343596 | 47061 | 24147 | -341761 |
| NL1/4 | GW / opgw | 2483 | 1585 | 22192 | 2483 | 1480 | -22042 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 9740 | 144527 | 15788 | 9157 | -143780 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 9429 | 144114 | 15788 | 8899 | -143488 |
| Wind angle: -45° | 380C1F3 | 15788 | 9022 | 143624 | 15788 | 8560 | -143143 |
| | RTG | 4966 | 2744 | 43828 | 4966 | 2605 | -43691 |
| | 380C2F1 | 15788 | 9740 | 144527 | 15788 | 9157 | -143780 |
| | 380C2F2 | 15788 | 9429 | 144114 | 15788 | 8899 | -143488 |
| | 380C2F3 | 15788 | 9022 | 143624 | 15788 | 8560 | -143143 |

NWW6S400UY

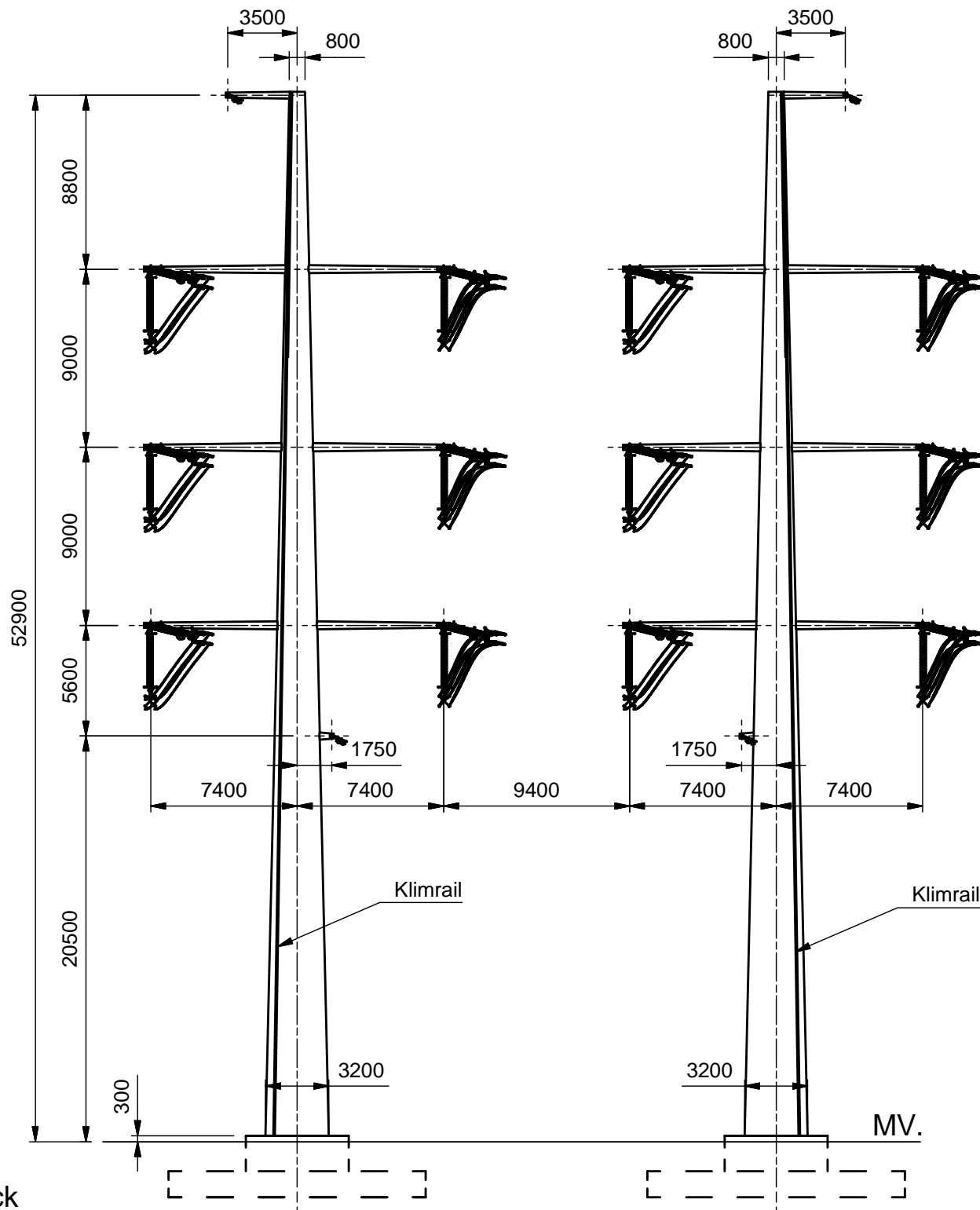
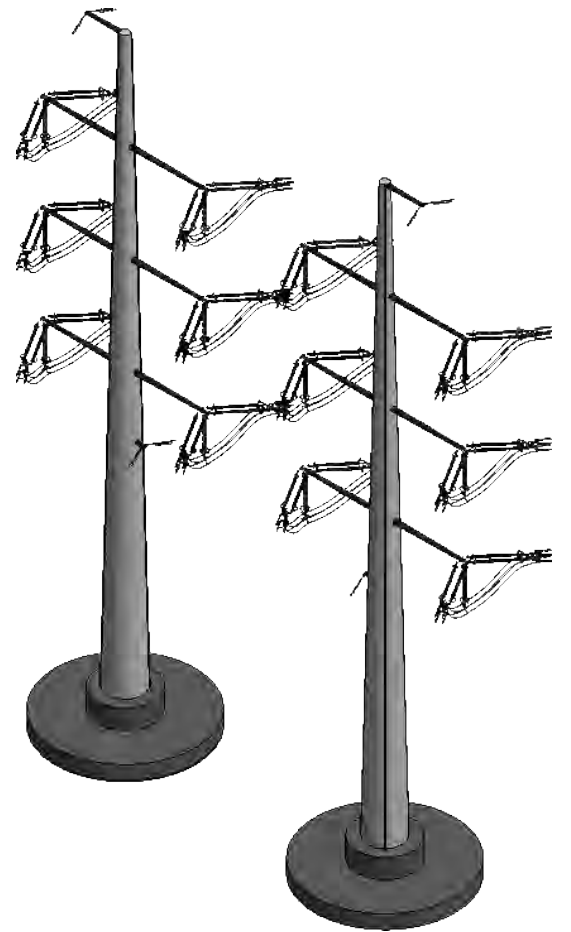
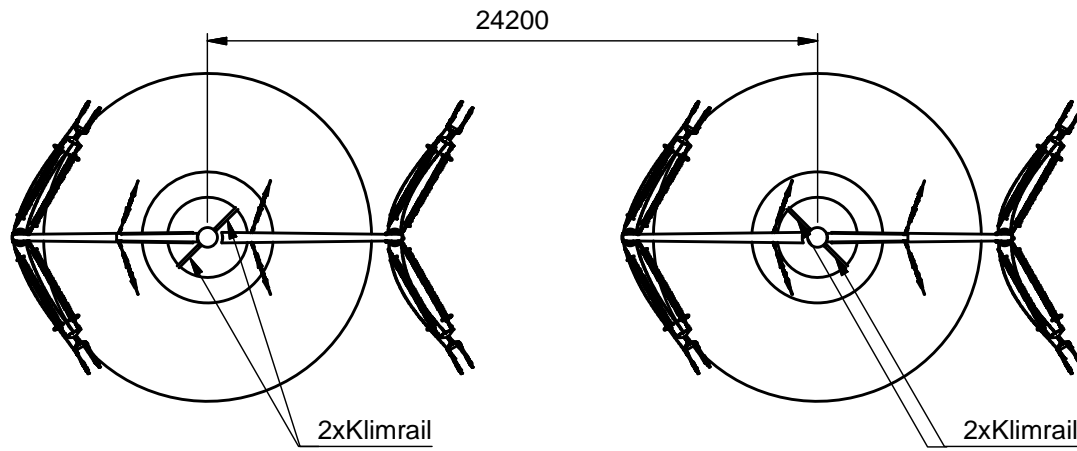
Appendix NWW6S400UY / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a | GW / opgw | 1924 | 761 | 17260 | 1924 | 761 | -17260 |
| Wind, 10°C | 380C1F1 | 14202 | 5604 | 127432 | 14202 | 5604 | -127432 |
| Permanent loads yg= 1.0 | 380C1F2 | 14202 | 5600 | 127432 | 14202 | 5600 | -127432 |
| Wind angle: 0° | 380C1F3 | 14202 | 5596 | 127433 | 14202 | 5596 | -127433 |
| | RTG | 3847 | 1517 | 34520 | 3847 | 1517 | -34520 |
| | 380C2F1 | 14202 | 5604 | 127432 | 14202 | 5604 | -127432 |
| | 380C2F2 | 14202 | 5600 | 127432 | 14202 | 5600 | -127432 |
| | 380C2F3 | 14202 | 5596 | 127433 | 14202 | 5596 | -127433 |
| NL4/1b | GW / opgw | 1923 | 856 | 19580 | 1923 | 856 | -19580 |
| Wind, -20°C | 380C1F1 | 14194 | 6488 | 148419 | 14194 | 6488 | -148419 |
| Permanent loads yg= 1.0 | 380C1F2 | 14194 | 6487 | 148419 | 14194 | 6487 | -148419 |
| Wind angle: 0° | 380C1F3 | 14194 | 6487 | 148419 | 14194 | 6487 | -148419 |
| | RTG | 3845 | 1712 | 39161 | 3845 | 1712 | -39161 |
| | 380C2F1 | 14194 | 6488 | 148419 | 14194 | 6488 | -148419 |
| | 380C2F2 | 14194 | 6487 | 148419 | 14194 | 6487 | -148419 |
| | 380C2F3 | 14194 | 6487 | 148419 | 14194 | 6487 | -148419 |
| NL4/3 | GW / opgw | 6607 | 2082 | 47528 | 6607 | 2082 | -47528 |
| Wind, -5°C | 380C1F1 | 37046 | 12405 | 283390 | 37046 | 12405 | -283390 |
| Permanent loads yg= 1.0 | 380C1F2 | 37046 | 12402 | 283390 | 37046 | 12402 | -283390 |
| Wind angle: 0° | 380C1F3 | 37046 | 12399 | 283391 | 37046 | 12399 | -283391 |
| | RTG | 13213 | 4160 | 95056 | 13213 | 4160 | -95056 |
| | 380C2F1 | 37046 | 12405 | 283390 | 37046 | 12405 | -283390 |
| | 380C2F2 | 37046 | 12402 | 283390 | 37046 | 12402 | -283390 |
| | 380C2F3 | 37046 | 12399 | 283391 | 37046 | 12399 | -283391 |
| NL4/4 | GW / opgw | 2425 | 930 | 21276 | 2425 | 930 | -21276 |
| Construction/maintenance, +5°C | 380C1F1 | 16206 | 6341 | 145038 | 16206 | 6341 | -145038 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 6340 | 145038 | 16206 | 6340 | -145038 |
| Wind angle: 0° | 380C1F3 | 16206 | 6339 | 145038 | 16206 | 6339 | -145038 |
| | RTG | 4850 | 1860 | 42552 | 4850 | 1860 | -42552 |
| | 380C2F1 | 16206 | 6341 | 145038 | 16206 | 6341 | -145038 |
| | 380C2F2 | 16206 | 6340 | 145038 | 16206 | 6340 | -145038 |
| | 380C2F3 | 16206 | 6339 | 145038 | 16206 | 6339 | -145038 |
| NL4/1a | GW / opgw | 1924 | 2682 | 21933 | 1924 | 3080 | -23499 |
| Wind, 10°C | 380C1F1 | 14204 | 16064 | 148028 | 14205 | 18224 | -155483 |
| Permanent loads yg= 1.0 | 380C1F2 | 14204 | 15111 | 144951 | 14204 | 17071 | -151427 |
| Wind angle: 45° | 380C1F3 | 14203 | 13866 | 141177 | 14204 | 15565 | -146398 |
| | RTG | 3848 | 4035 | 39170 | 3848 | 4554 | -40899 |
| | 380C2F1 | 14204 | 16064 | 148028 | 14205 | 18224 | -155483 |
| | 380C2F2 | 14204 | 15111 | 144951 | 14204 | 17071 | -151427 |
| | 380C2F3 | 14203 | 13866 | 141177 | 14204 | 15565 | -146398 |
| NL4/1b | GW / opgw | 1923 | 1209 | 19807 | 1923 | 1280 | -19903 |
| Wind, -20°C | 380C1F1 | 14194 | 8439 | 149333 | 14194 | 8823 | -149731 |
| Permanent loads yg= 1.0 | 380C1F2 | 14194 | 8269 | 149178 | 14194 | 8618 | -149511 |
| Wind angle: 45° | 380C1F3 | 14194 | 8045 | 148996 | 14194 | 8350 | -149250 |
| | RTG | 3845 | 2183 | 39361 | 3845 | 2276 | -39449 |
| | 380C2F1 | 14194 | 8439 | 149333 | 14194 | 8823 | -149731 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 14194 | 8269 | 149178 | 14194 | 8618 | -149511 |
| | 380C2F3 | 14194 | 8045 | 148996 | 14194 | 8350 | -149250 |
| NL4/3 | GW / opgw | 6607 | 3894 | 48682 | 6607 | 4253 | -49167 |
| Wind, -5°C | 380C1F1 | 37047 | 20214 | 287453 | 37047 | 21754 | -289193 |
| Permanent loads yg= 1.0 | 380C1F2 | 37047 | 19531 | 286772 | 37047 | 20933 | -288230 |
| Wind angle: 45° | 380C1F3 | 37046 | 18633 | 285966 | 37047 | 19857 | -287089 |
| | RTG | 13213 | 6579 | 96085 | 13214 | 7054 | -96532 |
| | 380C2F1 | 37047 | 20214 | 287453 | 37047 | 21754 | -289193 |
| | 380C2F2 | 37047 | 19531 | 286772 | 37047 | 20933 | -288230 |
| | 380C2F3 | 37046 | 18633 | 285966 | 37047 | 19857 | -287089 |
| NL4/4 | GW / opgw | 2425 | 1281 | 21434 | 2425 | 1350 | -21503 |
| Construction/maintenance, +5°C | 380C1F1 | 16206 | 8284 | 145764 | 16206 | 8665 | -146084 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 8115 | 145639 | 16206 | 8462 | -145906 |
| Wind angle: 45° | 380C1F3 | 16206 | 7893 | 145493 | 16206 | 8196 | -145697 |
| | RTG | 4850 | 2329 | 42690 | 4850 | 2420 | -42752 |
| | 380C2F1 | 16206 | 8284 | 145764 | 16206 | 8665 | -146084 |
| | 380C2F2 | 16206 | 8115 | 145639 | 16206 | 8462 | -145906 |
| | 380C2F3 | 16206 | 7893 | 145493 | 16206 | 8196 | -145697 |
| NL4/1a | GW / opgw | 1925 | 5192 | 32487 | 1925 | 5192 | -32487 |
| Wind, 10°C | 380C1F1 | 14210 | 29802 | 201515 | 14210 | 29802 | -201515 |
| Permanent loads yg= 1.0 | 380C1F2 | 14209 | 27611 | 192390 | 14209 | 27611 | -192390 |
| Wind angle: 90° | 380C1F3 | 14207 | 24732 | 180584 | 14207 | 24732 | -180584 |
| | RTG | 3849 | 7352 | 51935 | 3849 | 7352 | -51935 |
| | 380C2F1 | 14210 | 29802 | 201515 | 14210 | 29802 | -201515 |
| | 380C2F2 | 14209 | 27611 | 192390 | 14209 | 27611 | -192390 |
| | 380C2F3 | 14207 | 24732 | 180584 | 14207 | 24732 | -180584 |
| NL4/1b | GW / opgw | 1923 | 1656 | 20660 | 1923 | 1656 | -20660 |
| Wind, -20°C | 380C1F1 | 14195 | 10872 | 152902 | 14195 | 10872 | -152902 |
| Permanent loads yg= 1.0 | 380C1F2 | 14195 | 10482 | 152173 | 14195 | 10482 | -152173 |
| Wind angle: 90° | 380C1F3 | 14195 | 9972 | 151305 | 14195 | 9972 | -151305 |
| | RTG | 3846 | 2769 | 40153 | 3846 | 2769 | -40153 |
| | 380C2F1 | 14195 | 10872 | 152902 | 14195 | 10872 | -152902 |
| | 380C2F2 | 14195 | 10482 | 152173 | 14195 | 10482 | -152173 |
| | 380C2F3 | 14195 | 9972 | 151305 | 14195 | 9972 | -151305 |
| NL4/3 | GW / opgw | 6608 | 6174 | 52811 | 6608 | 6174 | -52811 |
| Wind, -5°C | 380C1F1 | 37051 | 29976 | 302680 | 37051 | 29976 | -302680 |
| Permanent loads yg= 1.0 | 380C1F2 | 37050 | 28413 | 299635 | 37050 | 28413 | -299635 |
| Wind angle: 90° | 380C1F3 | 37049 | 26367 | 295966 | 37049 | 26367 | -295966 |
| | RTG | 13215 | 9581 | 100045 | 13215 | 9581 | -100045 |
| | 380C2F1 | 37051 | 29976 | 302680 | 37051 | 29976 | -302680 |
| | 380C2F2 | 37050 | 28413 | 299635 | 37050 | 28413 | -299635 |
| | 380C2F3 | 37049 | 26367 | 295966 | 37049 | 26367 | -295966 |
| NL4/4 | GW / opgw | 2425 | 1717 | 22053 | 2425 | 1717 | -22053 |
| Construction/maintenance, +5°C | 380C1F1 | 16207 | 10689 | 148660 | 16207 | 10689 | -148660 |
| Permanent loads yg= 1.0 | 380C1F2 | 16207 | 10305 | 148065 | 16207 | 10305 | -148065 |
| Wind angle: 90° | 380C1F3 | 16207 | 9802 | 147358 | 16207 | 9802 | -147358 |
| | RTG | 4850 | 2905 | 43255 | 4850 | 2905 | -43255 |
| | 380C2F1 | 16207 | 10689 | 148660 | 16207 | 10689 | -148660 |
| | 380C2F2 | 16207 | 10305 | 148065 | 16207 | 10305 | -148065 |
| | 380C2F3 | 16207 | 9802 | 147358 | 16207 | 9802 | -147358 |
| NL4/1a | GW / opgw | 1924 | 3080 | 23499 | 1924 | 2682 | -21933 |
| Wind, 10°C | 380C1F1 | 14205 | 18224 | 155483 | 14204 | 16064 | -148028 |
| Permanent loads yg= 1.0 | 380C1F2 | 14204 | 17071 | 151427 | 14204 | 15111 | -144951 |
| Wind angle: -45° | 380C1F3 | 14204 | 15565 | 146398 | 14203 | 13866 | -141177 |
| | RTG | 3848 | 4554 | 40899 | 3848 | 4035 | -39170 |
| | 380C2F1 | 14205 | 18224 | 155483 | 14204 | 16064 | -148028 |
| | 380C2F2 | 14204 | 17071 | 151427 | 14204 | 15111 | -144951 |
| | 380C2F3 | 14204 | 15565 | 146398 | 14203 | 13866 | -141177 |
| NL4/1b | GW / opgw | 1923 | 1280 | 19903 | 1923 | 1209 | -19807 |
| Wind, -20°C | 380C1F1 | 14194 | 8823 | 149731 | 14194 | 8439 | -149333 |
| Permanent loads yg= 1.0 | 380C1F2 | 14194 | 8618 | 149511 | 14194 | 8269 | -149178 |
| Wind angle: -45° | 380C1F3 | 14194 | 8350 | 149250 | 14194 | 8045 | -148996 |


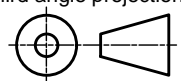
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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3845 | 2276 | 39449 | 3845 | 2183 | -39361 |
| | 380C2F1 | 14194 | 8823 | 149731 | 14194 | 8439 | -149333 |
| | 380C2F2 | 14194 | 8618 | 149511 | 14194 | 8269 | -149178 |
| | 380C2F3 | 14194 | 8350 | 149250 | 14194 | 8045 | -148996 |
| NL4/3 | GW / opgw | 6607 | 4253 | 49167 | 6607 | 3894 | -48682 |
| Wind, -5°C | 380C1F1 | 37047 | 21754 | 289193 | 37047 | 20214 | -287453 |
| Permanent loads yg= 1.0 | 380C1F2 | 37047 | 20933 | 288230 | 37047 | 19531 | -286772 |
| Wind angle: -45° | 380C1F3 | 37047 | 19857 | 287089 | 37046 | 18633 | -285966 |
| | RTG | 13214 | 7054 | 96532 | 13213 | 6579 | -96085 |
| | 380C2F1 | 37047 | 21754 | 289193 | 37047 | 20214 | -287453 |
| | 380C2F2 | 37047 | 20933 | 288230 | 37047 | 19531 | -286772 |
| | 380C2F3 | 37047 | 19857 | 287089 | 37046 | 18633 | -285966 |
| NL4/4 | GW / opgw | 2425 | 1350 | 21503 | 2425 | 1281 | -21434 |
| Construction/maintenance, +5°C | 380C1F1 | 16206 | 8665 | 146084 | 16206 | 8284 | -145764 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 8462 | 145906 | 16206 | 8115 | -145639 |
| Wind angle: -45° | 380C1F3 | 16206 | 8196 | 145697 | 16206 | 7893 | -145493 |
| | RTG | 4850 | 2420 | 42752 | 4850 | 2329 | -42690 |
| | 380C2F1 | 16206 | 8665 | 146084 | 16206 | 8284 | -145764 |
| | 380C2F2 | 16206 | 8462 | 145906 | 16206 | 8115 | -145639 |
| | 380C2F3 | 16206 | 8196 | 145697 | 16206 | 7893 | -145493 |



Wintrack
Masttype: NWW6HK350UY

- Trekparameter 1800m
- 4x380 Hoekmast
- 350m Veldlengte
- 150»180» Lijnhoek
- IJsgebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|------------|-------------------------|
| Rev. | Date | Description |
| 3 | 19-06-2013 | Small modification |
| 4 | 22-5-2014 | New Template |
| 5 | 13-1-2016 | Kleurstelling aangepast |

| | | |
|--|--|--|
|  | | Projectname: TenneT Engineering verbinding NW380 |
| Design state: Released | | Third angle projection:  |
| Drawn by: SGR 22-5-2014 | | Drawing no.: 74101611-035-205 |
| Checked by: EKA 23-5-2014 | | Description: NWW6HK350UY |
| Approved by: AW 23-5-2014 | | |
| Scale: 1 : 300 | | Revision: 5 |
| Units: mm | | Format: A3 |
| Project no: | | |
| Company: TenneT | | |

DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com

NWW6HK350UY

Appendix NWW6HK350UY / NL1

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2019 | 5532 | 19384 | 2019 | 5532 | -19384 |
| Wind, 10°C | 380C1F1 | 14907 | 39967 | 142130 | 14907 | 39967 | -142130 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 39788 | 142042 | 14907 | 39788 | -142042 |
| Wind angle: 0° | 380C1F3 | 14907 | 39561 | 141944 | 14907 | 39561 | -141944 |
| | RTG | 4038 | 10803 | 38612 | 4038 | 10803 | -38612 |
| | 380C2F1 | 14907 | 39967 | 142130 | 14907 | 39967 | -142130 |
| | 380C2F2 | 14907 | 39788 | 142042 | 14907 | 39788 | -142042 |
| | 380C2F3 | 14907 | 39561 | 141944 | 14907 | 39561 | -141944 |
| NL1/1b | GW / opgw | 2018 | 6024 | 22231 | 2018 | 6024 | -22231 |
| Wind, -20°C | 380C1F1 | 14900 | 45429 | 168139 | 14900 | 45429 | -168139 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45399 | 168141 | 14900 | 45399 | -168141 |
| Wind angle: 0° | 380C1F3 | 14900 | 45360 | 168145 | 14900 | 45360 | -168145 |
| | RTG | 4036 | 12006 | 44465 | 4036 | 12006 | -44465 |
| | 380C2F1 | 14900 | 45429 | 168139 | 14900 | 45429 | -168139 |
| | 380C2F2 | 14900 | 45399 | 168141 | 14900 | 45399 | -168141 |
| | 380C2F3 | 14900 | 45360 | 168145 | 14900 | 45360 | -168145 |
| NL1/3 | GW / opgw | 8166 | 15479 | 56476 | 8166 | 15479 | -56476 |
| Wind, -5°C | 380C1F1 | 44890 | 90997 | 333992 | 44890 | 90997 | -333992 |
| Permanent loads yg= 1.2 | 380C1F2 | 44890 | 90876 | 334004 | 44890 | 90876 | -334004 |
| Wind angle: 0° | 380C1F3 | 44890 | 90720 | 334021 | 44890 | 90720 | -334021 |
| | RTG | 16332 | 30740 | 112971 | 16332 | 30740 | -112971 |
| | 380C2F1 | 44890 | 90997 | 333992 | 44890 | 90997 | -333992 |
| | 380C2F2 | 44890 | 90876 | 334004 | 44890 | 90876 | -334004 |
| | 380C2F3 | 44890 | 90720 | 334021 | 44890 | 90720 | -334021 |
| NL1/4 | GW / opgw | 2771 | 6788 | 25083 | 2771 | 6788 | -25083 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 45095 | 166892 | 17913 | 45095 | -166892 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 45065 | 166896 | 17913 | 45065 | -166896 |
| Wind angle: 0° | 380C1F3 | 17913 | 45026 | 166901 | 17913 | 45026 | -166901 |
| | RTG | 5542 | 13535 | 50171 | 5542 | 13535 | -50171 |
| | 380C2F1 | 17913 | 45095 | 166892 | 17913 | 45095 | -166892 |
| | 380C2F2 | 17913 | 45065 | 166896 | 17913 | 45065 | -166896 |
| | 380C2F3 | 17913 | 45026 | 166901 | 17913 | 45026 | -166901 |
| NL1/6 | GW / opgw | 2272 | 5662 | 21130 | 2272 | 5662 | -21130 |
| Permanent, +10°C | 380C1F1 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| Permanent loads yg= 1.35 | 380C1F2 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| | 380C1F3 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| | RTG | 4543 | 11323 | 42259 | 4543 | 11323 | -42259 |
| | 380C2F1 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| | 380C2F2 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| | 380C2F3 | 16772 | 41565 | 155123 | 16772 | 41565 | -155123 |
| NL1/1a | GW / opgw | 2019 | 7005 | 21436 | 2020 | 12529 | -32633 |
| Wind, 10°C | 380C1F1 | 14908 | 47388 | 150617 | 14915 | 76164 | -205503 |
| Permanent loads yg= 1.2 | 380C1F2 | 14908 | 46417 | 149167 | 14914 | 72292 | -197579 |
| Wind angle: 45° | 380C1F3 | 14908 | 45211 | 147465 | 14912 | 67367 | -187601 |
| | RTG | 4038 | 12563 | 40514 | 4040 | 19486 | -53605 |
| | 380C2F1 | 14908 | 47388 | 150617 | 14915 | 76164 | -205503 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | 380C2F2 | 14908 | 46417 | 149167 | 14914 | 72292 | -197579 |
| | 380C2F3 | 14908 | 45211 | 147465 | 14912 | 67367 | -187601 |
| NL1/1b | GW / opgw | 2018 | 6225 | 22290 | 2018 | 6928 | -23033 |
| Wind, -20°C | 380C1F1 | 14900 | 46504 | 168309 | 14900 | 50090 | -171205 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46375 | 168265 | 14900 | 49595 | -170661 |
| Wind angle: 45° | 380C1F3 | 14900 | 46213 | 168218 | 14900 | 48978 | -170034 |
| | RTG | 4036 | 12265 | 44499 | 4037 | 13120 | -45144 |
| | 380C2F1 | 14900 | 46504 | 168309 | 14900 | 50090 | -171205 |
| | 380C2F2 | 14900 | 46375 | 168265 | 14900 | 49595 | -170661 |
| | 380C2F3 | 14900 | 46213 | 168218 | 14900 | 48978 | -170034 |
| NL1/3 | GW / opgw | 8166 | 16477 | 56666 | 8167 | 19818 | -59476 |
| Wind, -5°C | 380C1F1 | 44890 | 95249 | 334525 | 44895 | 109185 | -344629 |
| Permanent loads yg= 1.2 | 380C1F2 | 44890 | 94744 | 334376 | 44894 | 107284 | -342739 |
| Wind angle: 45° | 380C1F3 | 44890 | 94103 | 334216 | 44893 | 104902 | -340555 |
| | RTG | 16332 | 32041 | 113044 | 16333 | 36191 | -115458 |
| | 380C2F1 | 44890 | 95249 | 334525 | 44895 | 109185 | -344629 |
| | 380C2F2 | 44890 | 94744 | 334376 | 44894 | 107284 | -342739 |
| | 380C2F3 | 44890 | 94103 | 334216 | 44893 | 104902 | -340555 |
| NL1/4 | GW / opgw | 2771 | 6979 | 25105 | 2771 | 7603 | -25551 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 46144 | 166965 | 17914 | 49518 | -169062 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 46020 | 166938 | 17914 | 49060 | -168655 |
| Wind angle: 45° | 380C1F3 | 17913 | 45863 | 166910 | 17914 | 48486 | -168191 |
| | RTG | 5542 | 13785 | 50171 | 5542 | 14564 | -50531 |
| | 380C2F1 | 17913 | 46144 | 166965 | 17914 | 49518 | -169062 |
| | 380C2F2 | 17913 | 46020 | 166938 | 17914 | 49060 | -168655 |
| | 380C2F3 | 17913 | 45863 | 166910 | 17914 | 48486 | -168191 |
| NL1/1a | GW / opgw | 2021 | 14641 | 37064 | 2021 | 14641 | -37064 |
| Wind, 10°C | 380C1F1 | 14917 | 87694 | 229299 | 14917 | 87694 | -229299 |
| Permanent loads yg= 1.2 | 380C1F2 | 14916 | 82813 | 219203 | 14916 | 82813 | -219203 |
| Wind angle: 90° | 380C1F3 | 14915 | 76555 | 206305 | 14915 | 76555 | -206305 |
| | RTG | 4040 | 22319 | 59511 | 4040 | 22319 | -59511 |
| | 380C2F1 | 14917 | 87694 | 229299 | 14917 | 87694 | -229299 |
| | 380C2F2 | 14916 | 82813 | 219203 | 14916 | 82813 | -219203 |
| | 380C2F3 | 14915 | 76555 | 206305 | 14915 | 76555 | -206305 |
| NL1/1b | GW / opgw | 2018 | 7236 | 23493 | 2018 | 7236 | -23493 |
| Wind, -20°C | 380C1F1 | 14900 | 51624 | 173091 | 14900 | 51624 | -173091 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 50963 | 172245 | 14900 | 50963 | -172245 |
| Wind angle: 90° | 380C1F3 | 14900 | 50141 | 171262 | 14900 | 50141 | -171262 |
| | RTG | 4037 | 13484 | 45571 | 4037 | 13484 | -45571 |
| | 380C2F1 | 14900 | 51624 | 173091 | 14900 | 51624 | -173091 |
| | 380C2F2 | 14900 | 50963 | 172245 | 14900 | 50963 | -172245 |
| | 380C2F3 | 14900 | 50141 | 171262 | 14900 | 50141 | -171262 |
| NL1/3 | GW / opgw | 8168 | 21226 | 61194 | 8168 | 21226 | -61194 |
| Wind, -5°C | 380C1F1 | 44897 | 115035 | 351119 | 44897 | 115035 | -351119 |
| Permanent loads yg= 1.2 | 380C1F2 | 44896 | 112522 | 348218 | 44896 | 112522 | -348218 |
| Wind angle: 90° | 380C1F3 | 44895 | 109379 | 344829 | 44895 | 109379 | -344829 |
| | RTG | 16334 | 37908 | 117079 | 16334 | 37908 | -117079 |
| | 380C2F1 | 44897 | 115035 | 351119 | 44897 | 115035 | -351119 |
| | 380C2F2 | 44896 | 112522 | 348218 | 44896 | 112522 | -348218 |
| | 380C2F3 | 44895 | 109379 | 344829 | 44895 | 109379 | -344829 |
| NL1/4 | GW / opgw | 2771 | 7867 | 25847 | 2771 | 7867 | -25847 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 50930 | 170489 | 17914 | 50930 | -170489 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 50323 | 169846 | 17914 | 50323 | -169846 |
| Wind angle: 90° | 380C1F3 | 17914 | 49565 | 169105 | 17914 | 49565 | -169105 |
| | RTG | 5542 | 14884 | 50792 | 5542 | 14884 | -50792 |
| | 380C2F1 | 17914 | 50930 | 170489 | 17914 | 50930 | -170489 |
| | 380C2F2 | 17914 | 50323 | 169846 | 17914 | 50323 | -169846 |
| | 380C2F3 | 17914 | 49565 | 169105 | 17914 | 49565 | -169105 |
| NL1/1a | GW / opgw | 2020 | 12529 | 32633 | 2019 | 7005 | -21436 |
| Wind, 10°C | 380C1F1 | 14915 | 76164 | 205503 | 14908 | 47388 | -150617 |
| Permanent loads yg= 1.2 | 380C1F2 | 14914 | 72292 | 197579 | 14908 | 46417 | -149167 |
| Wind angle: -45° | 380C1F3 | 14912 | 67367 | 187601 | 14908 | 45211 | -147465 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| | RTG | 4040 | 19486 | 53605 | 4038 | 12563 | -40514 |
| | 380C2F1 | 14915 | 76164 | 205503 | 14908 | 47388 | -150617 |
| | 380C2F2 | 14914 | 72292 | 197579 | 14908 | 46417 | -149167 |
| | 380C2F3 | 14912 | 67367 | 187601 | 14908 | 45211 | -147465 |
| NL1/1b | GW / opgw | 2018 | 6928 | 23033 | 2018 | 6225 | -22290 |
| Wind, -20°C | 380C1F1 | 14900 | 50090 | 171205 | 14900 | 46504 | -168309 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49595 | 170661 | 14900 | 46375 | -168265 |
| Wind angle: -45° | 380C1F3 | 14900 | 48978 | 170034 | 14900 | 46213 | -168218 |
| | RTG | 4037 | 13120 | 45144 | 4036 | 12265 | -44499 |
| | 380C2F1 | 14900 | 50090 | 171205 | 14900 | 46504 | -168309 |
| | 380C2F2 | 14900 | 49595 | 170661 | 14900 | 46375 | -168265 |
| | 380C2F3 | 14900 | 48978 | 170034 | 14900 | 46213 | -168218 |
| NL1/3 | GW / opgw | 8167 | 19818 | 59476 | 8166 | 16477 | -56666 |
| Wind, -5°C | 380C1F1 | 44895 | 109185 | 344629 | 44890 | 95249 | -334525 |
| Permanent loads yg= 1.2 | 380C1F2 | 44894 | 107284 | 342739 | 44890 | 94744 | -334376 |
| Wind angle: -45° | 380C1F3 | 44893 | 104902 | 340555 | 44890 | 94103 | -334216 |
| | RTG | 16333 | 36191 | 115458 | 16332 | 32041 | -113044 |
| | 380C2F1 | 44895 | 109185 | 344629 | 44890 | 95249 | -334525 |
| | 380C2F2 | 44894 | 107284 | 342739 | 44890 | 94744 | -334376 |
| | 380C2F3 | 44893 | 104902 | 340555 | 44890 | 94103 | -334216 |
| NL1/4 | GW / opgw | 2771 | 7603 | 25551 | 2771 | 6979 | -25105 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 49518 | 169062 | 17913 | 46144 | -166965 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 49060 | 168655 | 17913 | 46020 | -166938 |
| Wind angle: -45° | 380C1F3 | 17914 | 48486 | 168191 | 17913 | 45863 | -166910 |
| | RTG | 5542 | 14564 | 50531 | 5542 | 13785 | -50171 |
| | 380C2F1 | 17914 | 49518 | 169062 | 17913 | 46144 | -166965 |
| | 380C2F2 | 17914 | 49060 | 168655 | 17913 | 46020 | -166938 |
| | 380C2F3 | 17914 | 48486 | 168191 | 17913 | 45863 | -166910 |
| NL1//1a | GW / opgw | 1514 | 4501 | 15538 | 1514 | 4501 | -15538 |
| Wind, 10°C | 380C1F1 | 11178 | 32482 | 114197 | 11178 | 32482 | -114197 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 32288 | 114052 | 11178 | 32288 | -114052 |
| Wind angle: 0° | 380C1F3 | 11178 | 32043 | 113889 | 11178 | 32043 | -113889 |
| | RTG | 3028 | 8718 | 30828 | 3028 | 8718 | -30828 |
| | 380C2F1 | 11178 | 32482 | 114197 | 11178 | 32482 | -114197 |
| | 380C2F2 | 11178 | 32288 | 114052 | 11178 | 32288 | -114052 |
| | 380C2F3 | 11178 | 32043 | 113889 | 11178 | 32043 | -113889 |
| NL1/1b | GW / opgw | 1513 | 4929 | 18145 | 1513 | 4929 | -18145 |
| Wind, -20°C | 380C1F1 | 11172 | 37623 | 139005 | 11172 | 37623 | -139005 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37592 | 139005 | 11172 | 37592 | -139005 |
| Wind angle: 0° | 380C1F3 | 11172 | 37552 | 139006 | 11172 | 37552 | -139006 |
| | RTG | 3027 | 9815 | 36287 | 3027 | 9815 | -36287 |
| | 380C2F1 | 11172 | 37623 | 139005 | 11172 | 37623 | -139005 |
| | 380C2F2 | 11172 | 37592 | 139005 | 11172 | 37592 | -139005 |
| | 380C2F3 | 11172 | 37552 | 139006 | 11172 | 37552 | -139006 |
| NL1/3 | GW / opgw | 7659 | 14815 | 53997 | 7659 | 14815 | -53997 |
| Wind, -5°C | 380C1F1 | 41153 | 85767 | 314474 | 41153 | 85767 | -314474 |
| Permanent loads yg= 0.9 | 380C1F2 | 41153 | 85645 | 314483 | 41153 | 85645 | -314483 |
| Wind angle: 0° | 380C1F3 | 41153 | 85489 | 314498 | 41153 | 85489 | -314498 |
| | RTG | 15319 | 29410 | 108010 | 15319 | 29410 | -108010 |
| | 380C2F1 | 41153 | 85767 | 314474 | 41153 | 85767 | -314474 |
| | 380C2F2 | 41153 | 85645 | 314483 | 41153 | 85645 | -314483 |
| | 380C2F3 | 41153 | 85489 | 314498 | 41153 | 85489 | -314498 |
| NL1/4 | GW / opgw | 2266 | 5834 | 21521 | 2266 | 5834 | -21521 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 37933 | 140160 | 14184 | 37933 | -140160 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 37902 | 140163 | 14184 | 37902 | -140163 |
| Wind angle: 0° | 380C1F3 | 14184 | 37863 | 140166 | 14184 | 37863 | -140166 |
| | RTG | 4531 | 11626 | 43046 | 4531 | 11626 | -43046 |
| | 380C2F1 | 14184 | 37933 | 140160 | 14184 | 37933 | -140160 |
| | 380C2F2 | 14184 | 37902 | 140163 | 14184 | 37902 | -140163 |
| | 380C2F3 | 14184 | 37863 | 140166 | 14184 | 37863 | -140166 |
| NL1/6 | GW / opgw | 1514 | 4111 | 15341 | 1514 | 4111 | -15341 |
| Permanent, +10°C | 380C1F1 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |
| | 380C1F3 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |
| | RTG | 3028 | 8221 | 30682 | 3028 | 8221 | -30682 |
| | 380C2F1 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |
| | 380C2F2 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |
| | 380C2F3 | 11178 | 30413 | 113503 | 11178 | 30413 | -113503 |
| NL1/1a | GW / opgw | 1514 | 6188 | 18387 | 1515 | 12173 | -31305 |
| Wind, 10°C | 380C1F1 | 11179 | 40918 | 126476 | 11185 | 72796 | -192941 |
| Permanent loads yg= 0.9 | 380C1F2 | 11179 | 39799 | 124472 | 11184 | 68650 | -183993 |
| Wind angle: 45° | 380C1F3 | 11179 | 38409 | 122084 | 11183 | 63324 | -172518 |
| | RTG | 3028 | 10711 | 33603 | 3030 | 18447 | -49729 |
| | 380C2F1 | 11179 | 40918 | 126476 | 11185 | 72796 | -192941 |
| | 380C2F2 | 11179 | 39799 | 124472 | 11184 | 68650 | -183993 |
| | 380C2F3 | 11179 | 38409 | 122084 | 11183 | 63324 | -172518 |
| NL1/1b | GW / opgw | 1513 | 5143 | 18252 | 1513 | 5943 | -19358 |
| Wind, -20°C | 380C1F1 | 11172 | 38750 | 139374 | 11173 | 42759 | -143848 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38613 | 139296 | 11173 | 42193 | -143038 |
| Wind angle: 45° | 380C1F3 | 11172 | 38440 | 139210 | 11173 | 41490 | -142094 |
| | RTG | 3027 | 10085 | 36366 | 3027 | 11037 | -37372 |
| | 380C2F1 | 11172 | 38750 | 139374 | 11173 | 42759 | -143848 |
| | 380C2F2 | 11172 | 38613 | 139296 | 11173 | 42193 | -143038 |
| | 380C2F3 | 11172 | 38440 | 139210 | 11173 | 41490 | -142094 |
| NL1/3 | GW / opgw | 7660 | 15823 | 54225 | 7661 | 19237 | -57307 |
| Wind, -5°C | 380C1F1 | 41154 | 90069 | 315197 | 41158 | 104396 | -326762 |
| Permanent loads yg= 0.9 | 380C1F2 | 41154 | 89556 | 315015 | 41157 | 102430 | -324631 |
| Wind angle: 45° | 380C1F3 | 41154 | 88905 | 314818 | 41157 | 99971 | -322157 |
| | RTG | 15319 | 30721 | 108118 | 15320 | 34944 | -110807 |
| | 380C2F1 | 41154 | 90069 | 315197 | 41158 | 104396 | -326762 |
| | 380C2F2 | 41154 | 89556 | 315015 | 41157 | 102430 | -324631 |
| | 380C2F3 | 41154 | 88905 | 314818 | 41157 | 99971 | -322157 |
| NL1/4 | GW / opgw | 2266 | 6030 | 21563 | 2266 | 6698 | -22173 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 39013 | 140351 | 14184 | 42644 | -143412 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 38884 | 140304 | 14184 | 42142 | -142839 |
| Wind angle: 45° | 380C1F3 | 14184 | 38720 | 140253 | 14184 | 41515 | -142180 |
| | RTG | 4531 | 11880 | 43064 | 4531 | 12702 | -43581 |
| | 380C2F1 | 14184 | 39013 | 140351 | 14184 | 42644 | -143412 |
| | 380C2F2 | 14184 | 38884 | 140304 | 14184 | 42142 | -142839 |
| | 380C2F3 | 14184 | 38720 | 140253 | 14184 | 41515 | -142180 |
| NL1/1a | GW / opgw | 1516 | 14361 | 36021 | 1516 | 14361 | -36021 |
| Wind, 10°C | 380C1F1 | 11187 | 84979 | 219174 | 11187 | 84979 | -219174 |
| Permanent loads yg= 0.9 | 380C1F2 | 11186 | 79848 | 208145 | 11186 | 79848 | -208145 |
| Wind angle: 90° | 380C1F3 | 11185 | 73213 | 193841 | 11185 | 73213 | -193841 |
| | RTG | 3030 | 21470 | 56343 | 3030 | 21470 | -56343 |
| | 380C2F1 | 11187 | 84979 | 219174 | 11187 | 84979 | -219174 |
| | 380C2F2 | 11186 | 79848 | 208145 | 11186 | 79848 | -208145 |
| | 380C2F3 | 11185 | 73213 | 193841 | 11185 | 73213 | -193841 |
| NL1/1b | GW / opgw | 1514 | 6301 | 20004 | 1514 | 6301 | -20004 |
| Wind, -20°C | 380C1F1 | 11173 | 44525 | 146602 | 11173 | 44525 | -146602 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 43762 | 145375 | 11173 | 43762 | -145375 |
| Wind angle: 90° | 380C1F3 | 11173 | 42817 | 143933 | 11173 | 42817 | -143933 |
| | RTG | 3027 | 11456 | 38002 | 3027 | 11456 | -38002 |
| | 380C2F1 | 11173 | 44525 | 146602 | 11173 | 44525 | -146602 |
| | 380C2F2 | 11173 | 43762 | 145375 | 11173 | 43762 | -145375 |
| | 380C2F3 | 11173 | 42817 | 143933 | 11173 | 42817 | -143933 |
| NL1/3 | GW / opgw | 7662 | 20681 | 59159 | 7662 | 20681 | -59159 |
| Wind, -5°C | 380C1F1 | 41161 | 110452 | 334023 | 41161 | 110452 | -334023 |
| Permanent loads yg= 0.9 | 380C1F2 | 41160 | 107849 | 330786 | 41160 | 107849 | -330786 |
| Wind angle: 90° | 380C1F3 | 41158 | 104596 | 326986 | 41158 | 104596 | -326986 |
| | RTG | 15321 | 36702 | 112580 | 15321 | 36702 | -112580 |
| | 380C2F1 | 41161 | 110452 | 334023 | 41161 | 110452 | -334023 |
| | 380C2F2 | 41160 | 107849 | 330786 | 41160 | 107849 | -330786 |
| | 380C2F3 | 41158 | 104596 | 326986 | 41158 | 104596 | -326986 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| NL1/4 | GW / opgw | 2266 | 6986 | 22560 | 2266 | 6986 | -22560 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 44204 | 145390 | 14184 | 44204 | -145390 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 43532 | 144503 | 14184 | 43532 | -144503 |
| Wind angle: 90° | 380C1F3 | 14184 | 42696 | 143472 | 14184 | 42696 | -143472 |
| | RTG | 4531 | 13046 | 43933 | 4531 | 13046 | -43933 |
| | 380C2F1 | 14184 | 44204 | 145390 | 14184 | 44204 | -145390 |
| | 380C2F2 | 14184 | 43532 | 144503 | 14184 | 43532 | -144503 |
| | 380C2F3 | 14184 | 42696 | 143472 | 14184 | 42696 | -143472 |
| NL1/1a | GW / opgw | 1515 | 12173 | 31305 | 1514 | 6188 | -18387 |
| Wind, 10°C | 380C1F1 | 11185 | 72796 | 192941 | 11179 | 40918 | -126476 |
| Permanent loads yg= 0.9 | 380C1F2 | 11184 | 68650 | 183993 | 11179 | 39799 | -124472 |
| Wind angle: -45° | 380C1F3 | 11183 | 63324 | 172518 | 11179 | 38409 | -122084 |
| | RTG | 3030 | 18447 | 49729 | 3028 | 10711 | -33603 |
| | 380C2F1 | 11185 | 72796 | 192941 | 11179 | 40918 | -126476 |
| | 380C2F2 | 11184 | 68650 | 183993 | 11179 | 39799 | -124472 |
| | 380C2F3 | 11183 | 63324 | 172518 | 11179 | 38409 | -122084 |
| NL1/1b | GW / opgw | 1513 | 5943 | 19358 | 1513 | 5143 | -18252 |
| Wind, -20°C | 380C1F1 | 11173 | 42759 | 143848 | 11172 | 38750 | -139374 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 42193 | 143038 | 11172 | 38613 | -139296 |
| Wind angle: -45° | 380C1F3 | 11173 | 41490 | 142094 | 11172 | 38440 | -139210 |
| | RTG | 3027 | 11037 | 37372 | 3027 | 10085 | -36366 |
| | 380C2F1 | 11173 | 42759 | 143848 | 11172 | 38750 | -139374 |
| | 380C2F2 | 11173 | 42193 | 143038 | 11172 | 38613 | -139296 |
| | 380C2F3 | 11173 | 41490 | 142094 | 11172 | 38440 | -139210 |
| NL1/3 | GW / opgw | 7661 | 19237 | 57307 | 7660 | 15823 | -54225 |
| Wind, -5°C | 380C1F1 | 41158 | 104396 | 326762 | 41154 | 90069 | -315197 |
| Permanent loads yg= 0.9 | 380C1F2 | 41157 | 102430 | 324631 | 41154 | 89556 | -315015 |
| Wind angle: -45° | 380C1F3 | 41157 | 99971 | 322157 | 41154 | 88905 | -314818 |
| | RTG | 15320 | 34944 | 110807 | 15319 | 30721 | -108118 |
| | 380C2F1 | 41158 | 104396 | 326762 | 41154 | 90069 | -315197 |
| | 380C2F2 | 41157 | 102430 | 324631 | 41154 | 89556 | -315015 |
| | 380C2F3 | 41157 | 99971 | 322157 | 41154 | 88905 | -314818 |
| NL1/4 | GW / opgw | 2266 | 6698 | 22173 | 2266 | 6030 | -21563 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 42644 | 143412 | 14184 | 39013 | -140351 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 42142 | 142839 | 14184 | 38884 | -140304 |
| Wind angle: -45° | 380C1F3 | 14184 | 41515 | 142180 | 14184 | 38720 | -140253 |
| | RTG | 4531 | 12702 | 43581 | 4531 | 11880 | -43064 |
| | 380C2F1 | 14184 | 42644 | 143412 | 14184 | 39013 | -140351 |
| | 380C2F2 | 14184 | 42142 | 142839 | 14184 | 38884 | -140304 |
| | 380C2F3 | 14184 | 41515 | 142180 | 14184 | 38720 | -140253 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| | RTG | 4038 | 10563 | 38536 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 |
| | RTG | 4036 | 11988 | 44467 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 |
| | RTG | 5019 | 13374 | 48515 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| | RTG | 5241 | 12961 | 48098 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| | RTG | 4038 | 11336 | 38996 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |
| | RTG | 4036 | 12191 | 44478 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|---|---|---|
| | 380C2F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| | RTG | 5020 | 14645 | 49433 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| | RTG | 5241 | 13159 | 48091 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| | RTG | 4039 | 15572 | 45753 | 0 | 0 | 0 |
| | 380C2F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| | 380C2F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| | RTG | 4037 | 13113 | 45137 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| | RTG | 5021 | 21650 | 61311 | 0 | 0 | 0 |
| | 380C2F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |
| | 380C2F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| | RTG | 5241 | 14013 | 48495 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| | RTG | 4039 | 14278 | 43349 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| | 380C2F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|---|---|---|
| | RTG | 4036 | 12841 | 44868 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| | RTG | 5021 | 19543 | 57270 | 0 | 0 | 0 |
| | 380C2F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| | 380C2F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |
| | RTG | 5241 | 13767 | 48321 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| | RTG | 3028 | 8462 | 30693 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| | RTG | 3027 | 9796 | 36288 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| | RTG | 4009 | 11385 | 41092 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| | RTG | 4230 | 11015 | 40837 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| | RTG | 3028 | 9307 | 31422 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |

| | | | | | | | |
|---|-----------|-------|--------|--------|---|---|---|
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| | 380C1F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| | RTG | 3027 | 10007 | 36328 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2005 | 6938 | 22038 | 0 | 0 | 0 |
| | 380C1F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| | 380C1F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| | 380C1F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 |
| | RTG | 4009 | 12758 | 42394 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| 380C2F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2115 | 5679 | 20441 | 0 | 0 | 0 |
| | 380C1F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |
| | 380C1F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 |
| | RTG | 4230 | 11217 | 40843 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| 380C2F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1515 | 8950 | 24266 | 0 | 0 | 0 |
| | 380C1F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| | 380C1F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| | 380C1F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 |
| | RTG | 3029 | 14147 | 40433 | 0 | 0 | 0 |
| | 380C2F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| 380C2F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1513 | 5936 | 19347 | 0 | 0 | 0 |
| | 380C1F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| | 380C1F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 |
| | RTG | 3027 | 11029 | 37361 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| 380C2F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2006 | 13107 | 34515 | 0 | 0 | 0 |
| | 380C1F1 | 13576 | 68457 | 192999 | 0 | 0 | 0 |
| | 380C1F2 | 13575 | 65361 | 186621 | 0 | 0 | 0 |
| | 380C1F3 | 13574 | 61441 | 178661 | 0 | 0 | 0 |
| | RTG | 4011 | 20482 | 56954 | 0 | 0 | 0 |
| | 380C2F1 | 13576 | 68457 | 192999 | 0 | 0 | 0 |
| | 380C2F2 | 13575 | 65361 | 186621 | 0 | 0 | 0 |
| 380C2F3 | 13574 | 61441 | 178661 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2115 | 6416 | 21133 | 0 | 0 | 0 |
| | 380C1F1 | 13583 | 41470 | 139105 | 0 | 0 | 0 |
| | 380C1F2 | 13583 | 40961 | 138503 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 40327 | 137808 | 0 | 0 | 0 |
| | RTG | 4231 | 12121 | 41433 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 41470 | 139105 | 0 | 0 | 0 |
| | 380C2F2 | 13583 | 40961 | 138503 | 0 | 0 | 0 |
| 380C2F3 | 13582 | 40327 | 137808 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1515 | 7800 | 21770 | 0 | 0 | 0 |
| | 380C1F1 | 11180 | 49186 | 142637 | 0 | 0 | 0 |
| | 380C1F2 | 11180 | 47192 | 138587 | 0 | 0 | 0 |
| | 380C1F3 | 11180 | 44692 | 133621 | 0 | 0 | 0 |
| | RTG | 3029 | 12682 | 37394 | 0 | 0 | 0 |
| | 380C2F1 | 11180 | 49186 | 142637 | 0 | 0 | 0 |
| | 380C2F2 | 11180 | 47192 | 138587 | 0 | 0 | 0 |
| 380C2F3 | 11180 | 44692 | 133621 | 0 | 0 | 0 | |

| | | | | | | | |
|--|--|-----------|-------|--------|-------|---|---|
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1513 | 5673 | 18915 | 0 | 0 | 0 |
| | 380C1F1 | 11173 | 41423 | 142007 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 41004 | 141488 | 0 | 0 | 0 |
| | 380C1F3 | 11172 | 40484 | 140887 | 0 | 0 | 0 |
| | RTG | 3027 | 10721 | 36955 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 41423 | 142007 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 41004 | 141488 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 40484 | 140887 | 0 | 0 | 0 |
| | NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2006 | 11361 | 30827 | 0 | 0 |
| 380C1F1 | | 13574 | 61199 | 178173 | 0 | 0 | 0 |
| 380C1F2 | | 13574 | 58808 | 173412 | 0 | 0 | 0 |
| 380C1F3 | | 13573 | 55805 | 167564 | 0 | 0 | 0 |
| RTG | | 4010 | 18193 | 52235 | 0 | 0 | 0 |
| 380C2F1 | | 13574 | 61199 | 178173 | 0 | 0 | 0 |
| 380C2F2 | | 13574 | 58808 | 173412 | 0 | 0 | 0 |
| 380C2F3 | | 13573 | 55805 | 167564 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: -45° | | GW / opgw | 2115 | 6195 | 20860 | 0 | 0 |
| | 380C1F1 | 13582 | 40288 | 137767 | 0 | 0 | 0 |
| | 380C1F2 | 13582 | 39906 | 137384 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 39429 | 136944 | 0 | 0 | 0 |
| | RTG | 4231 | 11856 | 41190 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 40288 | 137767 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 39906 | 137384 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 39429 | 136944 | 0 | 0 | 0 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|---|--|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2019 | 5342 | -19282 |
| | 380C1F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C1F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C1F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| | RTG | 0 | 0 | 0 | 4038 | 10563 | -38536 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| | NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2018 | 6011 |
| 380C1F1 | | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| 380C1F2 | | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| 380C1F3 | | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| RTG | | 0 | 0 | 0 | 4036 | 11988 | -44467 |
| 380C2F1 | | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| 380C2F2 | | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| 380C2F3 | | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | | GW / opgw | 0 | 0 | 0 | 2510 | 6785 |
| | 380C1F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |
| | 380C1F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C1F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| | RTG | 0 | 0 | 0 | 5019 | 13374 | -48515 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 6497 | -24046 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| | RTG | 0 | 0 | 0 | 5241 | 12961 | -48098 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 8439 | -24151 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| | RTG | 0 | 0 | 0 | 4039 | 14278 | -43349 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| | 380C2F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6695 | -22727 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| | RTG | 0 | 0 | 0 | 4036 | 12841 | -44868 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 11871 | -32729 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| | RTG | 0 | 0 | 0 | 5021 | 19543 | -57270 |
| | 380C2F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| | 380C2F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 7130 | -24352 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 |
| | RTG | 0 | 0 | 0 | 5241 | 13767 | -48321 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 9490 | -26281 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 |
| | RTG | 0 | 0 | 0 | 4039 | 15572 | -45753 |
| | 380C2F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 |
| | 380C2F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6922 | -23025 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| | RTG | 0 | 0 | 0 | 4037 | 13113 | -45137 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 13525 | -36075 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 5021 | 21650 | -61311 |
| | 380C2F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| | 380C2F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 7332 | -24554 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |
| | RTG | 0 | 0 | 0 | 5241 | 14013 | -48495 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 5969 | -19830 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| | RTG | 0 | 0 | 0 | 4038 | 11336 | -38996 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6167 | -22262 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| | RTG | 0 | 0 | 0 | 4036 | 12191 | -44478 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 7825 | -25348 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| | RTG | 0 | 0 | 0 | 5020 | 14645 | -49433 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| | RTG | 0 | 0 | 0 | 5241 | 13159 | -48091 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| | RTG | 0 | 0 | 0 | 3028 | 8462 | -30693 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 4916 | -18144 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| | RTG | 0 | 0 | 0 | 3027 | 9796 | -36288 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |

| | | | | | | | |
|---|-----------|---|---|-------|-------|---------|---------|
| Permanent loads yg= 0.9 Wind angle: 0° | 380C1F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| | 380C1F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |
| | RTG | 0 | 0 | 0 | 4009 | 11385 | -41092 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2115 | 5525 | -20417 |
| | 380C1F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |
| | 380C1F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| | 380C1F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 |
| | RTG | 0 | 0 | 0 | 4230 | 11015 | -40837 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| 380C2F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1515 | 7800 | -21770 |
| | 380C1F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| | 380C1F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| | 380C1F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 |
| | RTG | 0 | 0 | 0 | 3029 | 12682 | -37394 |
| | 380C2F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| | 380C2F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| 380C2F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1513 | 5673 | -18915 |
| | 380C1F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| | 380C1F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| | 380C1F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 |
| | RTG | 0 | 0 | 0 | 3027 | 10721 | -36955 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| 380C2F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2006 | 11361 | -30827 |
| | 380C1F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| | 380C1F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| | 380C1F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 |
| | RTG | 0 | 0 | 0 | 4010 | 18193 | -52235 |
| | 380C2F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| 380C2F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2115 | 6195 | -20860 |
| | 380C1F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| | 380C1F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| | 380C1F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 |
| | RTG | 0 | 0 | 0 | 4231 | 11856 | -41190 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| 380C2F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1515 | 8950 | -24266 |
| | 380C1F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| | 380C1F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| | 380C1F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 |
| | RTG | 0 | 0 | 0 | 3029 | 14147 | -40433 |
| | 380C2F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| 380C2F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1513 | 5936 | -19347 |
| | 380C1F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| | 380C1F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| | 380C1F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 |
| | RTG | 0 | 0 | 0 | 3027 | 11029 | -37361 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| 380C2F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 | |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13575 | 65361 | -186621 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13574 | 61441 | -178661 |
| | RTG | 0 | 0 | 0 | 4011 | 20482 | -56954 |
| | 380C2F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 65361 | -186621 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 61441 | -178661 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 6416 | -21133 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13583 | 41470 | -139105 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13583 | 40961 | -138503 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13582 | 40327 | -137808 |
| | RTG | 0 | 0 | 0 | 4231 | 12121 | -41433 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 41470 | -139105 |
| | 380C2F2 | 0 | 0 | 0 | 13583 | 40961 | -138503 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 40327 | -137808 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 4996 | -16198 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 34972 | -116879 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 34512 | -116291 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11178 | 33940 | -115610 |
| | RTG | 0 | 0 | 0 | 3028 | 9307 | -31422 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 34972 | -116879 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 34512 | -116291 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5080 | -18205 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 38423 | -139202 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 38318 | -139157 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11172 | 38185 | -139107 |
| | RTG | 0 | 0 | 0 | 3027 | 10007 | -36328 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 38423 | -139202 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 38318 | -139157 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 6938 | -22038 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 44075 | -147753 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 43516 | -147054 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13571 | 42821 | -146246 |
| | RTG | 0 | 0 | 0 | 4009 | 12758 | -42394 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 44075 | -147753 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 43516 | -147054 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 42821 | -146246 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 5679 | -20441 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 37501 | -135758 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 37400 | -135730 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13582 | 37272 | -135699 |
| | RTG | 0 | 0 | 0 | 4230 | 11217 | -40843 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 37501 | -135758 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 37400 | -135730 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 37272 | -135699 |

NWW6HK350UY

Loadcases for tower strength (Special limit state)

Appendix NWW6HK350UY / NL3

Ahead

Back

| Loadcase according to 50341-3-15 | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
|--|-----------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| Att. Point | | | | | | | |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2019 | 5342 | -19282 |
| | 380C1F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C1F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C1F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| | RTG | 0 | 0 | 0 | 4038 | 10563 | -38536 |
| | 380C2F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| | 380C2F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| | 380C2F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2018 | 6011 | -22232 |
| | 380C1F1 | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| | RTG | 0 | 0 | 0 | 4036 | 11988 | -44467 |
| | 380C2F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 |
| | 380C2F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 |
| | 380C2F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2510 | 6785 | -24290 |
| | 380C1F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |
| | 380C1F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C1F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| | RTG | 0 | 0 | 0 | 5019 | 13374 | -48515 |
| | 380C2F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 |
| | 380C2F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 |
| | 380C2F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2620 | 6497 | -24046 |
| | 380C1F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| | 380C1F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| | 380C1F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| | RTG | 0 | 0 | 0 | 5241 | 12961 | -48098 |
| | 380C2F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| | 380C2F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| | 380C2F3 | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2020 | 8439 | -24151 |
| | 380C1F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| | 380C1F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| | 380C1F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| | RTG | 0 | 0 | 0 | 4039 | 14278 | -43349 |
| | 380C2F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |
| | 380C2F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| | 380C2F3 | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2018 | 6695 | -22727 |
| | 380C1F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| | RTG | 0 | 0 | 0 | 4036 | 12841 | -44868 |
| | 380C2F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| | 380C2F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| | 380C2F3 | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2511 | 11871 | -32729 |
| | 380C1F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| | 380C1F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| | 380C1F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| | RTG | 0 | 0 | 0 | 5021 | 19543 | -57270 |
| | 380C2F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| | 380C2F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| | 380C2F3 | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 |
| NL3/4 Construction/maintenance, +5°C | GW / opgw | 0 | 0 | 0 | 2620 | 7130 | -24352 |
| | 380C1F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |

| | | | | | | | | |
|--|--|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 45° | 380C1F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 | |
| | 380C1F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 | |
| | RTG | 0 | 0 | 0 | 5241 | 13767 | -48321 | |
| | 380C2F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 | |
| | 380C2F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 | |
| | 380C2F3 | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 | |
| | NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 9490 | -26281 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 | |
| | 380C1F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 | |
| | 380C1F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 | |
| | RTG | 0 | 0 | 0 | 4039 | 15572 | -45753 | |
| | 380C2F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 | |
| | 380C2F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 | |
| | 380C2F3 | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6922 | -23025 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| | | 380C1F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| | | 380C1F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| | | RTG | 0 | 0 | 0 | 4037 | 13113 | -45137 |
| | | 380C2F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| | | 380C2F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |
| 380C2F3 | | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 13525 | -36075 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| | | 380C1F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| | | 380C1F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |
| | | RTG | 0 | 0 | 0 | 5021 | 21650 | -61311 |
| | | 380C2F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| | | 380C2F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| 380C2F3 | | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 | |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 7332 | -24554 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| | | 380C1F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| | | 380C1F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |
| | | RTG | 0 | 0 | 0 | 5241 | 14013 | -48495 |
| | | 380C2F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| | | 380C2F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| 380C2F3 | | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 5969 | -19830 | |
| | Wind, 10°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| | | 380C1F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| | | 380C1F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| | | RTG | 0 | 0 | 0 | 4038 | 11336 | -38996 |
| | | 380C2F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| | | 380C2F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| 380C2F3 | | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6167 | -22262 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| | | 380C1F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| | | 380C1F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| | | RTG | 0 | 0 | 0 | 4036 | 12191 | -44478 |
| | | 380C2F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| | | 380C2F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| 380C2F3 | | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 7825 | -25348 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| | | 380C1F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| | | 380C1F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| | | RTG | 0 | 0 | 0 | 5020 | 14645 | -49433 |
| | | 380C2F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| | | 380C2F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| 380C2F3 | | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| | RTG | 0 | 0 | 0 | 5241 | 13159 | -48091 |
| | 380C2F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| | 380C2F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| | 380C2F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| | RTG | 0 | 0 | 0 | 3028 | 8462 | -30693 |
| | 380C2F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |
| | 380C2F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| | 380C2F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 4916 | -18144 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| | RTG | 0 | 0 | 0 | 3027 | 9796 | -36288 |
| | 380C2F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| | 380C2F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| | 380C2F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |
| | RTG | 0 | 0 | 0 | 4009 | 11385 | -41092 |
| | 380C2F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| | 380C2F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| | 380C2F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 5525 | -20417 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 |
| | RTG | 0 | 0 | 0 | 4230 | 11015 | -40837 |
| | 380C2F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| | 380C2F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| | 380C2F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 7800 | -21770 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 |
| | RTG | 0 | 0 | 0 | 3029 | 12682 | -37394 |
| | 380C2F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| | 380C2F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| | 380C2F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5673 | -18915 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 |
| | RTG | 0 | 0 | 0 | 3027 | 10721 | -36955 |
| | 380C2F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| | 380C2F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| | 380C2F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 11361 | -30827 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 |
| | RTG | 0 | 0 | 0 | 4010 | 18193 | -52235 |
| | 380C2F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| | 380C2F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 6195 | -20860 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 |
| | RTG | 0 | 0 | 0 | 4231 | 11856 | -41190 |
| | 380C2F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| | 380C2F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| | 380C2F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 8950 | -24266 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 |
| | RTG | 0 | 0 | 0 | 3029 | 14147 | -40433 |
| | 380C2F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| | 380C2F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| | 380C2F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5936 | -19347 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 |
| | RTG | 0 | 0 | 0 | 3027 | 11029 | -37361 |
| | 380C2F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| | 380C2F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| | 380C2F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13575 | 65361 | -186621 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13574 | 61441 | -178661 |
| | RTG | 0 | 0 | 0 | 4011 | 20482 | -56954 |
| | 380C2F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| | 380C2F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| | 380C2F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 6416 | -21133 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13583 | 41470 | -139105 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13583 | 40961 | -138503 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13582 | 40327 | -137808 |
| | RTG | 0 | 0 | 0 | 4231 | 12121 | -41433 |
| | 380C2F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| | 380C2F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| | 380C2F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 4996 | -16198 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 34972 | -116879 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 34512 | -116291 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11178 | 33940 | -115610 |
| | RTG | 0 | 0 | 0 | 3028 | 9307 | -31422 |
| | 380C2F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| | 380C2F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| | 380C2F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5080 | -18205 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 38423 | -139202 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 38318 | -139157 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11172 | 38185 | -139107 |
| | RTG | 0 | 0 | 0 | 3027 | 10007 | -36328 |
| | 380C2F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |
| | 380C2F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| | 380C2F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 6938 | -22038 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 44075 | -147753 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 43516 | -147054 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13571 | 42821 | -146246 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 4009 | 12758 | -42394 |
| | 380C2F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| | 380C2F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| | 380C2F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 5679 | -20441 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 37501 | -135758 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 37400 | -135730 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13582 | 37272 | -135699 |
| | RTG | 0 | 0 | 0 | 4230 | 11217 | -40843 |
| | 380C2F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| | 380C2F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| | 380C2F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 2019 | 5342 | -19282 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| | RTG | 4038 | 10563 | 38536 | 4038 | 10563 | -38536 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 2018 | 6011 | -22232 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 |
| Wind angle: 0° | 380C1F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 |
| | RTG | 4036 | 11988 | 44467 | 4036 | 11988 | -44467 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 2510 | 6785 | -24290 |
| Wind, -5°C | 380C1F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 |
| Wind angle: 0° | 380C1F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 |
| | RTG | 5019 | 13374 | 48515 | 5019 | 13374 | -48515 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 2620 | 6497 | -24046 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| Wind angle: 0° | 380C1F3 | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 |
| | RTG | 5241 | 12961 | 48098 | 5241 | 12961 | -48098 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 2020 | 8439 | -24151 |
| Wind, 10°C | 380C1F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |

| | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 1.2 Wind angle: 45° | 380C1F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| | 380C1F3 | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 |
| | RTG | 4038 | 11336 | 38996 | 4039 | 14278 | -43349 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| | 380C2F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 2018 | 6695 | -22727 |
| Wind, -20°C | 380C1F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| Wind angle: 45° | 380C1F3 | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 |
| | RTG | 4036 | 12191 | 44478 | 4036 | 12841 | -44868 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 2511 | 11871 | -32729 |
| Wind, -5°C | 380C1F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| Wind angle: 45° | 380C1F3 | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 |
| | RTG | 5020 | 14645 | 49433 | 5021 | 19543 | -57270 |
| | 380C2F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| | 380C2F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 2620 | 7130 | -24352 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 |
| Wind angle: 45° | 380C1F3 | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 |
| | RTG | 5241 | 13159 | 48091 | 5241 | 13767 | -48321 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 2020 | 9490 | -26281 |
| Wind, 10°C | 380C1F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 |
| Wind angle: 90° | 380C1F3 | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 |
| | RTG | 4039 | 15572 | 45753 | 4039 | 15572 | -45753 |
| | 380C2F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 |
| | 380C2F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 |
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 2018 | 6922 | -23025 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 |
| | RTG | 4037 | 13113 | 45137 | 4037 | 13113 | -45137 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 2511 | 13525 | -36075 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 |
| | RTG | 5021 | 21650 | 61311 | 5021 | 21650 | -61311 |
| | 380C2F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| | 380C2F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 2621 | 7332 | -24554 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 |
| | RTG | 5241 | 14013 | 48495 | 5241 | 14013 | -48495 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 2019 | 5969 | -19830 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 |
| | RTG | 4039 | 14278 | 43349 | 4038 | 11336 | -38996 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 2018 | 6167 | -22262 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 |
| | RTG | 4036 | 12841 | 44868 | 4036 | 12191 | -44478 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 2510 | 7825 | -25348 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 |
| | RTG | 5021 | 19543 | 57270 | 5020 | 14645 | -49433 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| | RTG | 5241 | 13767 | 48321 | 5241 | 13159 | -48091 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| | RTG | 3028 | 8462 | 30693 | 3028 | 8462 | -30693 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 1513 | 4916 | -18144 |
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| | RTG | 3027 | 9796 | 36288 | 3027 | 9796 | -36288 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| | RTG | 4009 | 11385 | 41092 | 4009 | 11385 | -41092 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 2115 | 5525 | -20417 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| | RTG | 4230 | 11015 | 40837 | 4230 | 11015 | -40837 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 1515 | 7800 | -21770 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| | RTG | 3028 | 9307 | 31422 | 3029 | 12682 | -37394 |
| | 380C2F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| | 380C2F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 1513 | 5673 | -18915 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| Wind angle: 45° | 380C1F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 |
| | RTG | 3027 | 10007 | 36328 | 3027 | 10721 | -36955 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 |
| NL3/3 | GW / opgw | 2005 | 6938 | 22038 | 2006 | 11361 | -30827 |
| Wind, -5°C | 380C1F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| Wind angle: 45° | 380C1F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 |
| | RTG | 4009 | 12758 | 42394 | 4010 | 18193 | -52235 |
| | 380C2F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| | 380C2F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 |
| NL3/4 | GW / opgw | 2115 | 5679 | 20441 | 2115 | 6195 | -20860 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| Wind angle: 45° | 380C1F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 |
| | RTG | 4230 | 11217 | 40843 | 4231 | 11856 | -41190 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 |
| NL3/1a | GW / opgw | 1515 | 8950 | 24266 | 1515 | 8950 | -24266 |
| Wind, 10°C | 380C1F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| Wind angle: 90° | 380C1F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 |
| | RTG | 3029 | 14147 | 40433 | 3029 | 14147 | -40433 |
| | 380C2F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| | 380C2F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 |
| NL3/1b | GW / opgw | 1513 | 5936 | 19347 | 1513 | 5936 | -19347 |
| Wind, -20°C | 380C1F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| Wind angle: 90° | 380C1F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 |
| | RTG | 3027 | 11029 | 37361 | 3027 | 11029 | -37361 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 |
| NL3/3 | GW / opgw | 2006 | 13107 | 34515 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| Wind angle: 90° | 380C1F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 |
| | RTG | 4011 | 20482 | 56954 | 4011 | 20482 | -56954 |
| | 380C2F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 65361 | -186621 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 61441 | -178661 |
| NL3/4 | GW / opgw | 2115 | 6416 | 21133 | 2115 | 6416 | -21133 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| Permanent loads yg= 0.9 | 380C1F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| Wind angle: 90° | 380C1F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4231 | 12121 | 41433 | 4231 | 12121 | -41433 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 41470 | -139105 |
| | 380C2F2 | 0 | 0 | 0 | 13583 | 40961 | -138503 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 40327 | -137808 |
| NL3/1a | GW / opgw | 1515 | 7800 | 21770 | 1514 | 4996 | -16198 |
| Wind, 10°C | 380C1F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| Permanent loads yg= 0.9 | 380C1F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| Wind angle: -45° | 380C1F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| | RTG | 3029 | 12682 | 37394 | 3028 | 9307 | -31422 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 34972 | -116879 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 34512 | -116291 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 1513 | 5673 | 18915 | 1513 | 5080 | -18205 |
| Wind, -20°C | 380C1F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| Wind angle: -45° | 380C1F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| | RTG | 3027 | 10721 | 36955 | 3027 | 10007 | -36328 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 38423 | -139202 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 38318 | -139157 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 2006 | 11361 | 30827 | 2005 | 6938 | -22038 |
| Wind, -5°C | 380C1F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| Wind angle: -45° | 380C1F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| | RTG | 4010 | 18193 | 52235 | 4009 | 12758 | -42394 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 44075 | -147753 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 43516 | -147054 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 42821 | -146246 |
| NL3/4 | GW / opgw | 2115 | 6195 | 20860 | 2115 | 5679 | -20441 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| Wind angle: -45° | 380C1F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |
| | RTG | 4231 | 11856 | 41190 | 4230 | 11217 | -40843 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 37501 | -135758 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 37400 | -135730 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 37272 | -135699 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| | RTG | 4038 | 10563 | 38536 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| | 380C2F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| | 380C2F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |

| | | | | | | | | |
|---|--|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 0° | 380C1F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 | |
| | 380C1F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 | |
| | RTG | 4036 | 11988 | 44467 | 0 | 0 | 0 | |
| | 380C2F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 | |
| | 380C2F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 | |
| | 380C2F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 | |
| | NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 0 | 0 | 0 |
| Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 | |
| | 380C1F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 | |
| | 380C1F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 | |
| | RTG | 5019 | 13374 | 48515 | 0 | 0 | 0 | |
| | 380C2F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 | |
| | 380C2F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 | |
| | 380C2F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 | |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 0 | 0 | 0 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| | | 380C1F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| | | 380C1F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| | | RTG | 5241 | 12961 | 48098 | 0 | 0 | 0 |
| | | 380C2F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| | | 380C2F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| 380C2F3 | | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 | |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 0 | 0 | 0 | |
| | Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| | | 380C1F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| | | 380C1F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| | | RTG | 4038 | 11336 | 38996 | 0 | 0 | 0 |
| | | 380C2F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |
| | | 380C2F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| 380C2F3 | | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 | |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 0 | 0 | 0 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |
| | | 380C1F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| | | 380C1F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |
| | | RTG | 4036 | 12191 | 44478 | 0 | 0 | 0 |
| | | 380C2F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| | | 380C2F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| 380C2F3 | | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 | |
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 0 | 0 | 0 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| | | 380C1F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| | | 380C1F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| | | RTG | 5020 | 14645 | 49433 | 0 | 0 | 0 |
| | | 380C2F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| | | 380C2F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| 380C2F3 | | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 | |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 0 | 0 | 0 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| | | 380C1F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| | | 380C1F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| | | RTG | 5241 | 13159 | 48091 | 0 | 0 | 0 |
| | | 380C2F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 |
| | | 380C2F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 |
| 380C2F3 | | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 | |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 0 | 0 | 0 | |
| | Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| | | 380C1F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| | | 380C1F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| | | RTG | 4039 | 15572 | 45753 | 0 | 0 | 0 |
| | | 380C2F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 |
| | | 380C2F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 |
| 380C2F3 | | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| | RTG | 4037 | 13113 | 45137 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| | 380C2F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |
| | 380C2F3 | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| | RTG | 5021 | 21650 | 61311 | 0 | 0 | 0 |
| | 380C2F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| | 380C2F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| | 380C2F3 | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| | RTG | 5241 | 14013 | 48495 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| | 380C2F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| | 380C2F3 | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 |
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| | RTG | 4039 | 14278 | 43349 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| | 380C2F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| | 380C2F3 | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |
| | RTG | 4036 | 12841 | 44868 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| | 380C2F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| | 380C2F3 | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| | RTG | 5021 | 19543 | 57270 | 0 | 0 | 0 |
| | 380C2F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| | 380C2F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| | 380C2F3 | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |
| | RTG | 5241 | 13767 | 48321 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| | 380C2F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| | 380C2F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| | RTG | 3028 | 8462 | 30693 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| | 380C2F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| | RTG | 3027 | 9796 | 36288 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| | 380C2F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| | 380C2F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| | RTG | 4009 | 11385 | 41092 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| | 380C2F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| | 380C2F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| | RTG | 4230 | 11015 | 40837 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| | 380C2F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| | 380C2F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| | RTG | 3028 | 9307 | 31422 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| | 380C2F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| | 380C2F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| | RTG | 3027 | 10007 | 36328 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| | 380C2F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| | 380C2F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 |
| NL3/3 | GW / opgw | 2005 | 6938 | 22038 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 |
| | RTG | 4009 | 12758 | 42394 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |
| | 380C2F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| | 380C2F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 |
| NL3/4 | GW / opgw | 2115 | 5679 | 20441 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 |
| | RTG | 4230 | 11217 | 40843 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| | 380C2F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| | 380C2F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 |
| NL3/1a | GW / opgw | 1515 | 8950 | 24266 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3029 | 14147 | 40433 | 0 | 0 | 0 |
| | 380C2F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| | 380C2F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| | 380C2F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 |
| NL3/1b | GW / opgw | 1513 | 5936 | 19347 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 |
| | RTG | 3027 | 11029 | 37361 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| | 380C2F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| | 380C2F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 |
| NL3/3 | GW / opgw | 2006 | 13107 | 34515 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13576 | 68457 | 192999 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 65361 | 186621 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13574 | 61441 | 178661 | 0 | 0 | 0 |
| | RTG | 4011 | 20482 | 56954 | 0 | 0 | 0 |
| | 380C2F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| | 380C2F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| | 380C2F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 |
| NL3/4 | GW / opgw | 2115 | 6416 | 21133 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 41470 | 139105 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13583 | 40961 | 138503 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13582 | 40327 | 137808 | 0 | 0 | 0 |
| | RTG | 4231 | 12121 | 41433 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| | 380C2F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| | 380C2F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 |
| NL3/1a | GW / opgw | 1515 | 7800 | 21770 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11180 | 49186 | 142637 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11180 | 47192 | 138587 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11180 | 44692 | 133621 | 0 | 0 | 0 |
| | RTG | 3029 | 12682 | 37394 | 0 | 0 | 0 |
| | 380C2F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| | 380C2F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| | 380C2F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 1513 | 5673 | 18915 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 41423 | 142007 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 41004 | 141488 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11172 | 40484 | 140887 | 0 | 0 | 0 |
| | RTG | 3027 | 10721 | 36955 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |
| | 380C2F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| | 380C2F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 2006 | 11361 | 30827 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13574 | 61199 | 178173 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 58808 | 173412 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13573 | 55805 | 167564 | 0 | 0 | 0 |
| | RTG | 4010 | 18193 | 52235 | 0 | 0 | 0 |
| | 380C2F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| | 380C2F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| | 380C2F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| NL3/4 | GW / opgw | 2115 | 6195 | 20860 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 40288 | 137767 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 39906 | 137384 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13582 | 39429 | 136944 | 0 | 0 | 0 |
| | RTG | 4231 | 11856 | 41190 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| | 380C2F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| | 380C2F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |

NWW6HK350UY

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 2019 | 5342 | -19282 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| | RTG | 4038 | 10563 | 38536 | 4038 | 10563 | -38536 |
| | 380C2F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 2018 | 6011 | -22232 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 |
| Wind angle: 0° | 380C1F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 |
| | RTG | 4036 | 11988 | 44467 | 4036 | 11988 | -44467 |
| | 380C2F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 2510 | 6785 | -24290 |
| Wind, -5°C | 380C1F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 |
| Wind angle: 0° | 380C1F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 |
| | RTG | 5019 | 13374 | 48515 | 5019 | 13374 | -48515 |
| | 380C2F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 2620 | 6497 | -24046 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| Wind angle: 0° | 380C1F3 | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 |
| | RTG | 5241 | 12961 | 48098 | 5241 | 12961 | -48098 |
| | 380C2F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 2020 | 8439 | -24151 |
| Wind, 10°C | 380C1F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| Wind angle: 45° | 380C1F3 | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 |
| | RTG | 4038 | 11336 | 38996 | 4039 | 14278 | -43349 |
| | 380C2F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 2018 | 6695 | -22727 |
| Wind, -20°C | 380C1F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| Wind angle: 45° | 380C1F3 | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 |
| | RTG | 4036 | 12191 | 44478 | 4036 | 12841 | -44868 |
| | 380C2F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 2511 | 11871 | -32729 |
| Wind, -5°C | 380C1F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| Wind angle: 45° | 380C1F3 | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 |
| | RTG | 5020 | 14645 | 49433 | 5021 | 19543 | -57270 |
| | 380C2F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 2620 | 7130 | -24352 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 |
| Wind angle: 45° | 380C1F3 | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 |
| | RTG | 5241 | 13159 | 48091 | 5241 | 13767 | -48321 |
| | 380C2F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 2020 | 9490 | -26281 |
| Wind, 10°C | 380C1F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 |
| Wind angle: 90° | 380C1F3 | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 |
| | RTG | 4039 | 15572 | 45753 | 4039 | 15572 | -45753 |
| | 380C2F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| | 380C2F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 2018 | 6922 | -23025 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 |
| | RTG | 4037 | 13113 | 45137 | 4037 | 13113 | -45137 |
| | 380C2F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 2511 | 13525 | -36075 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 |
| | RTG | 5021 | 21650 | 61311 | 5021 | 21650 | -61311 |
| | 380C2F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |
| | 380C2F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 2621 | 7332 | -24554 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 |
| | RTG | 5241 | 14013 | 48495 | 5241 | 14013 | -48495 |
| | 380C2F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 2019 | 5969 | -19830 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 |
| | RTG | 4039 | 14278 | 43349 | 4038 | 11336 | -38996 |
| | 380C2F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| | 380C2F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 2018 | 6167 | -22262 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 |
| | RTG | 4036 | 12841 | 44868 | 4036 | 12191 | -44478 |
| | 380C2F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 2510 | 7825 | -25348 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 |
| | RTG | 5021 | 19543 | 57270 | 5020 | 14645 | -49433 |
| | 380C2F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| | 380C2F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| | RTG | 5241 | 13767 | 48321 | 5241 | 13159 | -48091 |
| | 380C2F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| | RTG | 3028 | 8462 | 30693 | 3028 | 8462 | -30693 |
| | 380C2F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 1513 | 4916 | -18144 |
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| | RTG | 3027 | 9796 | 36288 | 3027 | 9796 | -36288 |
| | 380C2F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| | RTG | 4009 | 11385 | 41092 | 4009 | 11385 | -41092 |
| | 380C2F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 2115 | 5525 | -20417 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| | RTG | 4230 | 11015 | 40837 | 4230 | 11015 | -40837 |
| | 380C2F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 1515 | 7800 | -21770 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| | RTG | 3028 | 9307 | 31422 | 3029 | 12682 | -37394 |
| | 380C2F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 1513 | 5673 | -18915 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| Wind angle: 45° | 380C1F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3027 | 10007 | 36328 | 3027 | 10721 | -36955 |
| | 380C2F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 6938 | 22038 | 2006 | 11361 | -30827 |
| Wind, -5°C | 380C1F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| Wind angle: 45° | 380C1F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 |
| | RTG | 4009 | 12758 | 42394 | 4010 | 18193 | -52235 |
| | 380C2F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 5679 | 20441 | 2115 | 6195 | -20860 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| Wind angle: 45° | 380C1F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 |
| | RTG | 4230 | 11217 | 40843 | 4231 | 11856 | -41190 |
| | 380C2F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 8950 | 24266 | 1515 | 8950 | -24266 |
| Wind, 10°C | 380C1F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| Wind angle: 90° | 380C1F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 |
| | RTG | 3029 | 14147 | 40433 | 3029 | 14147 | -40433 |
| | 380C2F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| | 380C2F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5936 | 19347 | 1513 | 5936 | -19347 |
| Wind, -20°C | 380C1F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| Wind angle: 90° | 380C1F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 |
| | RTG | 3027 | 11029 | 37361 | 3027 | 11029 | -37361 |
| | 380C2F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2006 | 13107 | 34515 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| Wind angle: 90° | 380C1F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 |
| | RTG | 4011 | 20482 | 56954 | 4011 | 20482 | -56954 |
| | 380C2F1 | 13576 | 68457 | 192999 | 0 | 0 | 0 |
| | 380C2F2 | 13575 | 65361 | 186621 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 61441 | 178661 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 6416 | 21133 | 2115 | 6416 | -21133 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| Permanent loads yg= 0.9 | 380C1F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| Wind angle: 90° | 380C1F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 |
| | RTG | 4231 | 12121 | 41433 | 4231 | 12121 | -41433 |
| | 380C2F1 | 13583 | 41470 | 139105 | 0 | 0 | 0 |
| | 380C2F2 | 13583 | 40961 | 138503 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 40327 | 137808 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 7800 | 21770 | 1514 | 4996 | -16198 |
| Wind, 10°C | 380C1F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| Permanent loads yg= 0.9 | 380C1F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| Wind angle: -45° | 380C1F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| | RTG | 3029 | 12682 | 37394 | 3028 | 9307 | -31422 |
| | 380C2F1 | 11180 | 49186 | 142637 | 0 | 0 | 0 |
| | 380C2F2 | 11180 | 47192 | 138587 | 0 | 0 | 0 |
| | 380C2F3 | 11180 | 44692 | 133621 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5673 | 18915 | 1513 | 5080 | -18205 |
| Wind, -20°C | 380C1F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |

| | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 Wind angle: -45° | 380C1F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| | 380C1F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| | RTG | 3027 | 10721 | 36955 | 3027 | 10007 | -36328 |
| | 380C2F1 | 11173 | 41423 | 142007 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 41004 | 141488 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 40484 | 140887 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2006 | 11361 | 30827 | 2005 | 6938 | -22038 |
| | 380C1F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| | 380C1F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| | 380C1F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| | RTG | 4010 | 18193 | 52235 | 4009 | 12758 | -42394 |
| | 380C2F1 | 13574 | 61199 | 178173 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: -45° | 380C2F2 | 13574 | 58808 | 173412 | 0 | 0 | 0 |
| | 380C2F3 | 13573 | 55805 | 167564 | 0 | 0 | 0 |
| | GW / opgw | 2115 | 6195 | 20860 | 2115 | 5679 | -20441 |
| | 380C1F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| | 380C1F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| | 380C1F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |
| | RTG | 4231 | 11856 | 41190 | 4230 | 11217 | -40843 |
| | 380C2F1 | 13582 | 40288 | 137767 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 39906 | 137384 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 39429 | 136944 | 0 | 0 | 0 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2019 | 5342 | -19282 |
| | 380C1F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C1F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C1F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| | RTG | 0 | 0 | 0 | 4038 | 10563 | -38536 |
| | 380C2F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2018 | 6011 | -22232 |
| | 380C1F1 | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| | RTG | 0 | 0 | 0 | 4036 | 11988 | -44467 |
| | 380C2F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2510 | 6785 | -24290 |
| | 380C1F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |
| | 380C1F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C1F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| | RTG | 0 | 0 | 0 | 5019 | 13374 | -48515 |
| | 380C2F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 6497 | -24046 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| | RTG | 0 | 0 | 0 | 5241 | 12961 | -48098 |
| | 380C2F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 8439 | -24151 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| | RTG | 0 | 0 | 0 | 4039 | 14278 | -43349 |
| | 380C2F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6695 | -22727 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| | RTG | 0 | 0 | 0 | 4036 | 12841 | -44868 |
| | 380C2F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 11871 | -32729 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| | RTG | 0 | 0 | 0 | 5021 | 19543 | -57270 |
| | 380C2F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 7130 | -24352 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 |
| | RTG | 0 | 0 | 0 | 5241 | 13767 | -48321 |
| | 380C2F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 9490 | -26281 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 |
| | RTG | 0 | 0 | 0 | 4039 | 15572 | -45753 |
| | 380C2F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| | 380C2F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6922 | -23025 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| | RTG | 0 | 0 | 0 | 4037 | 13113 | -45137 |
| | 380C2F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 13525 | -36075 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |
| | RTG | 0 | 0 | 0 | 5021 | 21650 | -61311 |
| | 380C2F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 7332 | -24554 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |
| | RTG | 0 | 0 | 0 | 5241 | 14013 | -48495 |
| | 380C2F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 5969 | -19830 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| | RTG | 0 | 0 | 0 | 4038 | 11336 | -38996 |
| | 380C2F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| | 380C2F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 6167 | -22262 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| | RTG | 0 | 0 | 0 | 4036 | 12191 | -44478 |
| | 380C2F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 7825 | -25348 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| | RTG | 0 | 0 | 0 | 5020 | 14645 | -49433 |
| | 380C2F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| | 380C2F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| | RTG | 0 | 0 | 0 | 5241 | 13159 | -48091 |
| | 380C2F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| | RTG | 0 | 0 | 0 | 3028 | 8462 | -30693 |
| | 380C2F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 4916 | -18144 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| | RTG | 0 | 0 | 0 | 3027 | 9796 | -36288 |
| | 380C2F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 4009 | 11385 | -41092 |
| | 380C2F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 5525 | -20417 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 |
| | RTG | 0 | 0 | 0 | 4230 | 11015 | -40837 |
| | 380C2F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 7800 | -21770 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 |
| | RTG | 0 | 0 | 0 | 3029 | 12682 | -37394 |
| | 380C2F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5673 | -18915 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 |
| | RTG | 0 | 0 | 0 | 3027 | 10721 | -36955 |
| | 380C2F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 11361 | -30827 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 |
| | RTG | 0 | 0 | 0 | 4010 | 18193 | -52235 |
| | 380C2F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 6195 | -20860 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 |
| | RTG | 0 | 0 | 0 | 4231 | 11856 | -41190 |
| | 380C2F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 8950 | -24266 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 |
| | RTG | 0 | 0 | 0 | 3029 | 14147 | -40433 |
| | 380C2F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| | 380C2F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 5936 | -19347 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 |
| | RTG | 0 | 0 | 0 | 3027 | 11029 | -37361 |
| | 380C2F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 0 | 0 | 0 |
| | RTG | 4038 | 10563 | 38536 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 38967 | -141770 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 38882 | -141755 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 38773 | -141741 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45332 | 168148 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14900 | 45300 | 168153 | 0 | 0 | 0 |
| | RTG | 4036 | 11988 | 44467 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 45356 | -168146 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 45332 | -168148 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 45300 | -168153 |
| NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 47047 | 171097 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 46943 | 171078 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17300 | 46809 | 171060 | 0 | 0 | 0 |
| | RTG | 5019 | 13374 | 48515 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 47047 | -171097 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 46943 | -171078 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 46809 | -171060 |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 43901 | 162718 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 43877 | 162721 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17312 | 43847 | 162726 | 0 | 0 | 0 |
| | RTG | 5241 | 12961 | 48098 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 43901 | -162718 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 43877 | -162721 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 43847 | -162726 |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 42206 | 143874 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 41799 | 143482 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14907 | 41288 | 143033 | 0 | 0 | 0 |
| | RTG | 4038 | 11336 | 38996 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 54616 | -162895 |
| | 380C2F2 | 0 | 0 | 0 | 14909 | 52859 | -159730 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 50670 | -155926 |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 46197 | 168214 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46098 | 168190 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14900 | 45971 | 168166 | 0 | 0 | 0 |
| | RTG | 4036 | 12191 | 44478 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 48918 | -169977 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 48547 | -169636 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48083 | -169247 |
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 51044 | 173760 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 50541 | 173266 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17300 | 49910 | 172700 | 0 | 0 | 0 |
| | RTG | 5020 | 14645 | 49433 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17303 | 66325 | -197298 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 64172 | -193424 |
| | 380C2F3 | 0 | 0 | 0 | 17302 | 61483 | -188748 |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 44729 | 162733 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 44632 | 162719 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17312 | 44508 | 162705 | 0 | 0 | 0 |
| | RTG | 5241 | 13159 | 48091 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 47333 | -164056 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 17312 | 46983 | -163792 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 46543 | -163493 |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14911 | 60025 | 173088 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 57703 | 168644 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14910 | 54795 | 163222 | 0 | 0 | 0 |
| | RTG | 4039 | 15572 | 45753 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14911 | 60025 | -173088 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 57703 | -168644 |
| | 380C2F3 | 0 | 0 | 0 | 14910 | 54795 | -163222 |
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 0 | 0 | 0 |
| | RTG | 4037 | 13113 | 45137 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 50061 | -171172 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 49569 | -170633 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 48955 | -170013 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 0 | 0 | 0 |
| | RTG | 5021 | 21650 | 61311 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17305 | 72931 | -209690 |
| | 380C2F2 | 0 | 0 | 0 | 17304 | 70100 | -204302 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 66544 | -197698 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 0 | 0 | 0 |
| | RTG | 5241 | 14013 | 48495 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 48407 | -164992 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 47946 | -164568 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 47369 | -164084 |
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 0 | 0 | 0 |
| | RTG | 4039 | 14278 | 43349 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 42206 | -143874 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 41799 | -143482 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 41288 | -143033 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 0 | 0 | 0 |
| | RTG | 4036 | 12841 | 44868 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 46197 | -168214 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 46098 | -168190 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 45971 | -168166 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 0 | 0 | 0 |
| | RTG | 5021 | 19543 | 57270 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 51044 | -173760 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 50541 | -173266 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 49910 | -172700 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 0 | 0 | 0 |

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|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 5241 | 13767 | 48321 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 44729 | -162733 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 44632 | -162719 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 0 | 0 | 0 |
| | RTG | 3028 | 8462 | 30693 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 31412 | -113575 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 31322 | -113545 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 0 | 0 | 0 |
| | RTG | 3027 | 9796 | 36288 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 37548 | -139006 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 37523 | -139008 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 0 | 0 | 0 |
| | RTG | 4009 | 11385 | 41092 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 39741 | -143832 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 39632 | -143797 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 39494 | -143759 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 0 | 0 | 0 |
| | RTG | 4230 | 11015 | 40837 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 36651 | -135660 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 36627 | -135663 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 36596 | -135666 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 0 | 0 | 0 |
| | RTG | 3028 | 9307 | 31422 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11180 | 49186 | -142637 |
| | 380C2F2 | 0 | 0 | 0 | 11180 | 47192 | -138587 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 44692 | -133621 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38318 | 139157 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11172 | 38185 | 139107 | 0 | 0 | 0 |
| | RTG | 3027 | 10007 | 36328 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 41423 | -142007 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 41004 | -141488 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 40484 | -140887 |
| NL3/3 | GW / opgw | 2005 | 6938 | 22038 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 44075 | 147753 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 43516 | 147054 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13571 | 42821 | 146246 | 0 | 0 | 0 |
| | RTG | 4009 | 12758 | 42394 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13574 | 61199 | -178173 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 58808 | -173412 |
| | 380C2F3 | 0 | 0 | 0 | 13573 | 55805 | -167564 |
| NL3/4 | GW / opgw | 2115 | 5679 | 20441 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 37501 | 135758 | 0 | 0 | 0 |

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|--|-----------|-----------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 13582 | 37400 | 135730 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 37272 | 135699 | 0 | 0 | 0 |
| | RTG | 4230 | 11217 | 40843 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 40288 | -137767 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 39906 | -137384 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 39429 | -136944 |
| | NL3/1a | GW / opgw | 1515 | 8950 | 24266 | 0 | 0 |
| Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | 380C1F1 | 11182 | 55252 | 155284 | 0 | 0 | 0 |
| | 380C1F2 | 11181 | 52662 | 149838 | 0 | 0 | 0 |
| | 380C1F3 | 11181 | 49389 | 143053 | 0 | 0 | 0 |
| | RTG | 3029 | 14147 | 40433 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11182 | 55252 | -155284 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 52662 | -149838 |
| | 380C2F3 | 0 | 0 | 0 | 11181 | 49389 | -143053 |
| NL3/1b | GW / opgw | 1513 | 5936 | 19347 | 0 | 0 | 0 |
| Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | 380C1F1 | 11173 | 42726 | 143799 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 42163 | 142997 | 0 | 0 | 0 |
| | 380C1F3 | 11173 | 41465 | 142062 | 0 | 0 | 0 |
| | RTG | 3027 | 11029 | 37361 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 42726 | -143799 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 42163 | -142997 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 41465 | -142062 |
| NL3/3 | GW / opgw | 2006 | 13107 | 34515 | 0 | 0 | 0 |
| Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | 380C1F1 | 13576 | 68457 | 192999 | 0 | 0 | 0 |
| | 380C1F2 | 13575 | 65361 | 186621 | 0 | 0 | 0 |
| | 380C1F3 | 13574 | 61441 | 178661 | 0 | 0 | 0 |
| | RTG | 4011 | 20482 | 56954 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13576 | 68457 | -192999 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 65361 | -186621 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 61441 | -178661 |
| NL3/4 | GW / opgw | 2115 | 6416 | 21133 | 0 | 0 | 0 |
| Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | 380C1F1 | 13583 | 41470 | 139105 | 0 | 0 | 0 |
| | 380C1F2 | 13583 | 40961 | 138503 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 40327 | 137808 | 0 | 0 | 0 |
| | RTG | 4231 | 12121 | 41433 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 41470 | -139105 |
| | 380C2F2 | 0 | 0 | 0 | 13583 | 40961 | -138503 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 40327 | -137808 |
| NL3/1a | GW / opgw | 1515 | 7800 | 21770 | 0 | 0 | 0 |
| Wind, 10°C Permanent loads yg= 0.9 Wind angle: -45° | 380C1F1 | 11180 | 49186 | 142637 | 0 | 0 | 0 |
| | 380C1F2 | 11180 | 47192 | 138587 | 0 | 0 | 0 |
| | 380C1F3 | 11180 | 44692 | 133621 | 0 | 0 | 0 |
| | RTG | 3029 | 12682 | 37394 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 34972 | -116879 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 34512 | -116291 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 1513 | 5673 | 18915 | 0 | 0 | 0 |
| Wind, -20°C Permanent loads yg= 0.9 Wind angle: -45° | 380C1F1 | 11173 | 41423 | 142007 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 41004 | 141488 | 0 | 0 | 0 |
| | 380C1F3 | 11172 | 40484 | 140887 | 0 | 0 | 0 |
| | RTG | 3027 | 10721 | 36955 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 38423 | -139202 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 38318 | -139157 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 2006 | 11361 | 30827 | 0 | 0 | 0 |
| Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | 380C1F1 | 13574 | 61199 | 178173 | 0 | 0 | 0 |
| | 380C1F2 | 13574 | 58808 | 173412 | 0 | 0 | 0 |
| | 380C1F3 | 13573 | 55805 | 167564 | 0 | 0 | 0 |
| | RTG | 4010 | 18193 | 52235 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 44075 | -147753 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 43516 | -147054 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 42821 | -146246 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 2115 | 6195 | 20860 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 40288 | 137767 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 39906 | 137384 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13582 | 39429 | 136944 | 0 | 0 | 0 |
| | RTG | 4231 | 11856 | 41190 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 37501 | -135758 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 37400 | -135730 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 37272 | -135699 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| | 380C2F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| | 380C2F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 |
| | 380C2F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 |
| | 380C2F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 |
| | 380C2F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 |
| | 380C2F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| | 380C2F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| | 380C2F3 | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| | 380C2F3 | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| | 380C2F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| | 380C2F3 | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| | 380C2F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| | 380C2F3 | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 |
| | 380C2F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 |
| | 380C2F3 | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 |
| | 380C2F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 |
| | 380C2F3 | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| | 380C2F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |
| | 380C2F3 | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| | 380C2F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| | 380C2F3 | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| | 380C2F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| | 380C2F3 | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| | 380C2F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| | 380C2F3 | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| | 380C2F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| | 380C2F3 | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| | 380C2F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| | 380C2F3 | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| | 380C2F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| | 380C2F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |
| | 380C2F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| | 380C2F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| | 380C2F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| | 380C2F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| | 380C2F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| | 380C2F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| | 380C2F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| | 380C2F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|---|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| | 380C2F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| | 380C2F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| | 380C2F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| 380C2F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |
| | 380C2F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| 380C2F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| | 380C2F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| 380C2F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| | 380C2F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| 380C2F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| | 380C2F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| 380C2F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| | 380C2F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| 380C2F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| | 380C2F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| 380C2F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| | 380C2F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| | 380C2F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |
| | 380C2F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| | 380C2F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| | 380C2F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| | 380C2F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| | 380C2F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| | 380C2F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |

NWW6HK350UY

Appendix NWW6HK350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 5342 | 19282 | 2019 | 5342 | -19282 |
| Wind, 10°C | 380C1F1 | 14907 | 38967 | 141770 | 14907 | 38967 | -141770 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 38882 | 141755 | 14907 | 38882 | -141755 |
| Wind angle: 0° | 380C1F3 | 14907 | 38773 | 141741 | 14907 | 38773 | -141741 |
| | RTG | 4038 | 10563 | 38536 | 4038 | 10563 | -38536 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6011 | 22232 | 2018 | 6011 | -22232 |
| Wind, -20°C | 380C1F1 | 14900 | 45356 | 168146 | 14900 | 45356 | -168146 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 45332 | 168148 | 14900 | 45332 | -168148 |
| Wind angle: 0° | 380C1F3 | 14900 | 45300 | 168153 | 14900 | 45300 | -168153 |
| | RTG | 4036 | 11988 | 44467 | 4036 | 11988 | -44467 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 6785 | 24290 | 2510 | 6785 | -24290 |
| Wind, -5°C | 380C1F1 | 17300 | 47047 | 171097 | 17300 | 47047 | -171097 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 46943 | 171078 | 17300 | 46943 | -171078 |
| Wind angle: 0° | 380C1F3 | 17300 | 46809 | 171060 | 17300 | 46809 | -171060 |
| | RTG | 5019 | 13374 | 48515 | 5019 | 13374 | -48515 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6497 | 24046 | 2620 | 6497 | -24046 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 43901 | 162718 | 17312 | 43901 | -162718 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 43877 | 162721 | 17312 | 43877 | -162721 |
| Wind angle: 0° | 380C1F3 | 17312 | 43847 | 162726 | 17312 | 43847 | -162726 |
| | RTG | 5241 | 12961 | 48098 | 5241 | 12961 | -48098 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2019 | 5969 | 19830 | 2020 | 8439 | -24151 |
| Wind, 10°C | 380C1F1 | 14907 | 42206 | 143874 | 14910 | 54616 | -162895 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 41799 | 143482 | 14909 | 52859 | -159730 |
| Wind angle: 45° | 380C1F3 | 14907 | 41288 | 143033 | 14909 | 50670 | -155926 |
| | RTG | 4038 | 11336 | 38996 | 4039 | 14278 | -43349 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6167 | 22262 | 2018 | 6695 | -22727 |
| Wind, -20°C | 380C1F1 | 14900 | 46197 | 168214 | 14900 | 48918 | -169977 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 46098 | 168190 | 14900 | 48547 | -169636 |
| Wind angle: 45° | 380C1F3 | 14900 | 45971 | 168166 | 14900 | 48083 | -169247 |
| | RTG | 4036 | 12191 | 44478 | 4036 | 12841 | -44868 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 7825 | 25348 | 2511 | 11871 | -32729 |
| Wind, -5°C | 380C1F1 | 17300 | 51044 | 173760 | 17303 | 66325 | -197298 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 50541 | 173266 | 17303 | 64172 | -193424 |
| Wind angle: 45° | 380C1F3 | 17300 | 49910 | 172700 | 17302 | 61483 | -188748 |
| | RTG | 5020 | 14645 | 49433 | 5021 | 19543 | -57270 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 6648 | 24056 | 2620 | 7130 | -24352 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 44729 | 162733 | 17312 | 47333 | -164056 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 44632 | 162719 | 17312 | 46983 | -163792 |
| Wind angle: 45° | 380C1F3 | 17312 | 44508 | 162705 | 17312 | 46543 | -163493 |
| | RTG | 5241 | 13159 | 48091 | 5241 | 13767 | -48321 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 9490 | 26281 | 2020 | 9490 | -26281 |
| Wind, 10°C | 380C1F1 | 14911 | 60025 | 173088 | 14911 | 60025 | -173088 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 57703 | 168644 | 14910 | 57703 | -168644 |
| Wind angle: 90° | 380C1F3 | 14910 | 54795 | 163222 | 14910 | 54795 | -163222 |
| | RTG | 4039 | 15572 | 45753 | 4039 | 15572 | -45753 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6922 | 23025 | 2018 | 6922 | -23025 |
| Wind, -20°C | 380C1F1 | 14900 | 50061 | 171172 | 14900 | 50061 | -171172 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 49569 | 170633 | 14900 | 49569 | -170633 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: 90° | 380C1F3 | 14900 | 48955 | 170013 | 14900 | 48955 | -170013 |
| | RTG | 4037 | 13113 | 45137 | 4037 | 13113 | -45137 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 13525 | 36075 | 2511 | 13525 | -36075 |
| Wind, -5°C | 380C1F1 | 17305 | 72931 | 209690 | 17305 | 72931 | -209690 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 70100 | 204302 | 17304 | 70100 | -204302 |
| Wind angle: 90° | 380C1F3 | 17303 | 66544 | 197698 | 17303 | 66544 | -197698 |
| | RTG | 5021 | 21650 | 61311 | 5021 | 21650 | -61311 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 7332 | 24554 | 2621 | 7332 | -24554 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 48407 | 164992 | 17312 | 48407 | -164992 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 47946 | 164568 | 17312 | 47946 | -164568 |
| Wind angle: 90° | 380C1F3 | 17312 | 47369 | 164084 | 17312 | 47369 | -164084 |
| | RTG | 5241 | 14013 | 48495 | 5241 | 14013 | -48495 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 8439 | 24151 | 2019 | 5969 | -19830 |
| Wind, 10°C | 380C1F1 | 14910 | 54616 | 162895 | 14907 | 42206 | -143874 |
| Permanent loads yg= 1.2 | 380C1F2 | 14909 | 52859 | 159730 | 14907 | 41799 | -143482 |
| Wind angle: -45° | 380C1F3 | 14909 | 50670 | 155926 | 14907 | 41288 | -143033 |
| | RTG | 4039 | 14278 | 43349 | 4038 | 11336 | -38996 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 6695 | 22727 | 2018 | 6167 | -22262 |
| Wind, -20°C | 380C1F1 | 14900 | 48918 | 169977 | 14900 | 46197 | -168214 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 48547 | 169636 | 14900 | 46098 | -168190 |
| Wind angle: -45° | 380C1F3 | 14900 | 48083 | 169247 | 14900 | 45971 | -168166 |
| | RTG | 4036 | 12841 | 44868 | 4036 | 12191 | -44478 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 11871 | 32729 | 2510 | 7825 | -25348 |
| Wind, -5°C | 380C1F1 | 17303 | 66325 | 197298 | 17300 | 51044 | -173760 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 64172 | 193424 | 17300 | 50541 | -173266 |
| Wind angle: -45° | 380C1F3 | 17302 | 61483 | 188748 | 17300 | 49910 | -172700 |
| | RTG | 5021 | 19543 | 57270 | 5020 | 14645 | -49433 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 7130 | 24352 | 2620 | 6648 | -24056 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 47333 | 164056 | 17312 | 44729 | -162733 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 46983 | 163792 | 17312 | 44632 | -162719 |
| Wind angle: -45° | 380C1F3 | 17312 | 46543 | 163493 | 17312 | 44508 | -162705 |
| | RTG | 5241 | 13767 | 48321 | 5241 | 13159 | -48091 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4295 | 15374 | 1514 | 4295 | -15374 |
| Wind, 10°C | 380C1F1 | 11178 | 31412 | 113575 | 11178 | 31412 | -113575 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 31322 | 113545 | 11178 | 31322 | -113545 |
| Wind angle: 0° | 380C1F3 | 11178 | 31209 | 113513 | 11178 | 31209 | -113513 |
| | RTG | 3028 | 8462 | 30693 | 3028 | 8462 | -30693 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 4916 | 18144 | 1513 | 4916 | -18144 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind, -20°C | 380C1F1 | 11172 | 37548 | 139006 | 11172 | 37548 | -139006 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 37523 | 139008 | 11172 | 37523 | -139008 |
| Wind angle: 0° | 380C1F3 | 11172 | 37492 | 139010 | 11172 | 37492 | -139010 |
| | RTG | 3027 | 9796 | 36288 | 3027 | 9796 | -36288 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 5796 | 20597 | 2005 | 5796 | -20597 |
| Wind, -5°C | 380C1F1 | 13571 | 39741 | 143832 | 13571 | 39741 | -143832 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 39632 | 143797 | 13571 | 39632 | -143797 |
| Wind angle: 0° | 380C1F3 | 13571 | 39494 | 143759 | 13571 | 39494 | -143759 |
| | RTG | 4009 | 11385 | 41092 | 4009 | 11385 | -41092 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 5525 | 20417 | 2115 | 5525 | -20417 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 36651 | 135660 | 13582 | 36651 | -135660 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 36627 | 135663 | 13582 | 36627 | -135663 |
| Wind angle: 0° | 380C1F3 | 13582 | 36596 | 135666 | 13582 | 36596 | -135666 |
| | RTG | 4230 | 11015 | 40837 | 4230 | 11015 | -40837 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 4996 | 16198 | 1515 | 7800 | -21770 |
| Wind, 10°C | 380C1F1 | 11178 | 34972 | 116879 | 11180 | 49186 | -142637 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 34512 | 116291 | 11180 | 47192 | -138587 |
| Wind angle: 45° | 380C1F3 | 11178 | 33940 | 115610 | 11180 | 44692 | -133621 |
| | RTG | 3028 | 9307 | 31422 | 3029 | 12682 | -37394 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5080 | 18205 | 1513 | 5673 | -18915 |
| Wind, -20°C | 380C1F1 | 11172 | 38423 | 139202 | 11173 | 41423 | -142007 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 38318 | 139157 | 11173 | 41004 | -141488 |
| Wind angle: 45° | 380C1F3 | 11172 | 38185 | 139107 | 11172 | 40484 | -140887 |
| | RTG | 3027 | 10007 | 36328 | 3027 | 10721 | -36955 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 6938 | 22038 | 2006 | 11361 | -30827 |
| Wind, -5°C | 380C1F1 | 13571 | 44075 | 147753 | 13574 | 61199 | -178173 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 43516 | 147054 | 13574 | 58808 | -173412 |
| Wind angle: 45° | 380C1F3 | 13571 | 42821 | 146246 | 13573 | 55805 | -167564 |
| | RTG | 4009 | 12758 | 42394 | 4010 | 18193 | -52235 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 5679 | 20441 | 2115 | 6195 | -20860 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 37501 | 135758 | 13582 | 40288 | -137767 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 37400 | 135730 | 13582 | 39906 | -137384 |
| Wind angle: 45° | 380C1F3 | 13582 | 37272 | 135699 | 13582 | 39429 | -136944 |
| | RTG | 4230 | 11217 | 40843 | 4231 | 11856 | -41190 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 8950 | 24266 | 1515 | 8950 | -24266 |
| Wind, 10°C | 380C1F1 | 11182 | 55252 | 155284 | 11182 | 55252 | -155284 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 52662 | 149838 | 11181 | 52662 | -149838 |
| Wind angle: 90° | 380C1F3 | 11181 | 49389 | 143053 | 11181 | 49389 | -143053 |
| | RTG | 3029 | 14147 | 40433 | 3029 | 14147 | -40433 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5936 | 19347 | 1513 | 5936 | -19347 |
| Wind, -20°C | 380C1F1 | 11173 | 42726 | 143799 | 11173 | 42726 | -143799 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 42163 | 142997 | 11173 | 42163 | -142997 |
| Wind angle: 90° | 380C1F3 | 11173 | 41465 | 142062 | 11173 | 41465 | -142062 |
| | RTG | 3027 | 11029 | 37361 | 3027 | 11029 | -37361 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2006 | 13107 | 34515 | 2006 | 13107 | -34515 |
| Wind, -5°C | 380C1F1 | 13576 | 68457 | 192999 | 13576 | 68457 | -192999 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 65361 | 186621 | 13575 | 65361 | -186621 |
| Wind angle: 90° | 380C1F3 | 13574 | 61441 | 178661 | 13574 | 61441 | -178661 |
| | RTG | 4011 | 20482 | 56954 | 4011 | 20482 | -56954 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 6416 | 21133 | 2115 | 6416 | -21133 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 41470 | 139105 | 13583 | 41470 | -139105 |
| Permanent loads yg= 0.9 | 380C1F2 | 13583 | 40961 | 138503 | 13583 | 40961 | -138503 |
| Wind angle: 90° | 380C1F3 | 13582 | 40327 | 137808 | 13582 | 40327 | -137808 |
| | RTG | 4231 | 12121 | 41433 | 4231 | 12121 | -41433 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 7800 | 21770 | 1514 | 4996 | -16198 |
| Wind, 10°C | 380C1F1 | 11180 | 49186 | 142637 | 11178 | 34972 | -116879 |
| Permanent loads yg= 0.9 | 380C1F2 | 11180 | 47192 | 138587 | 11178 | 34512 | -116291 |
| Wind angle: -45° | 380C1F3 | 11180 | 44692 | 133621 | 11178 | 33940 | -115610 |
| | RTG | 3029 | 12682 | 37394 | 3028 | 9307 | -31422 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 5673 | 18915 | 1513 | 5080 | -18205 |
| Wind, -20°C | 380C1F1 | 11173 | 41423 | 142007 | 11172 | 38423 | -139202 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 41004 | 141488 | 11172 | 38318 | -139157 |
| Wind angle: -45° | 380C1F3 | 11172 | 40484 | 140887 | 11172 | 38185 | -139107 |
| | RTG | 3027 | 10721 | 36955 | 3027 | 10007 | -36328 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2006 | 11361 | 30827 | 2005 | 6938 | -22038 |
| Wind, -5°C | 380C1F1 | 13574 | 61199 | 178173 | 13571 | 44075 | -147753 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 58808 | 173412 | 13571 | 43516 | -147054 |
| Wind angle: -45° | 380C1F3 | 13573 | 55805 | 167564 | 13571 | 42821 | -146246 |
| | RTG | 4010 | 18193 | 52235 | 4009 | 12758 | -42394 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 6195 | 20860 | 2115 | 5679 | -20441 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 40288 | 137767 | 13582 | 37501 | -135758 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 39906 | 137384 | 13582 | 37400 | -135730 |
| Wind angle: -45° | 380C1F3 | 13582 | 39429 | 136944 | 13582 | 37272 | -135699 |
| | RTG | 4231 | 11856 | 41190 | 4230 | 11217 | -40843 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |

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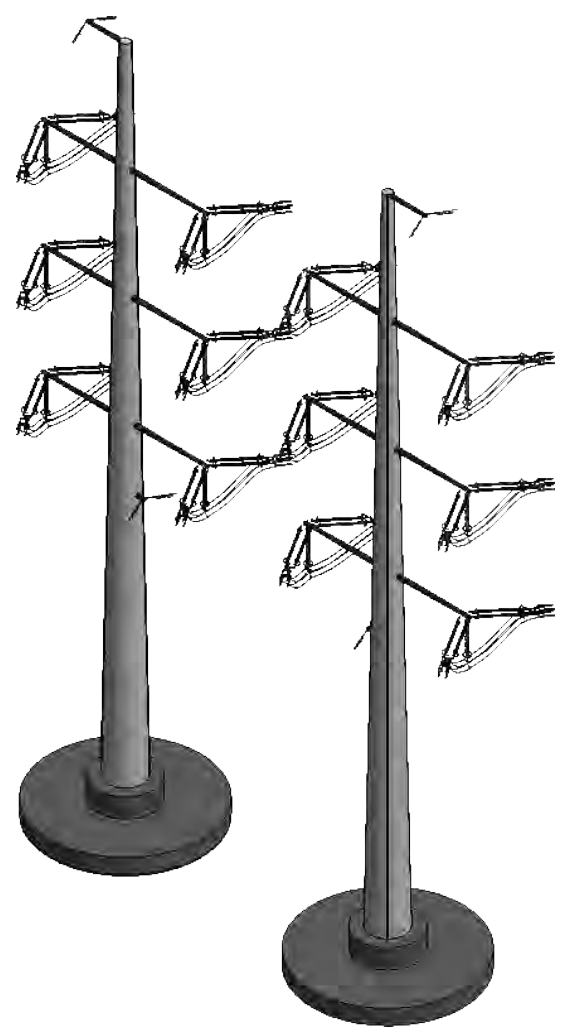
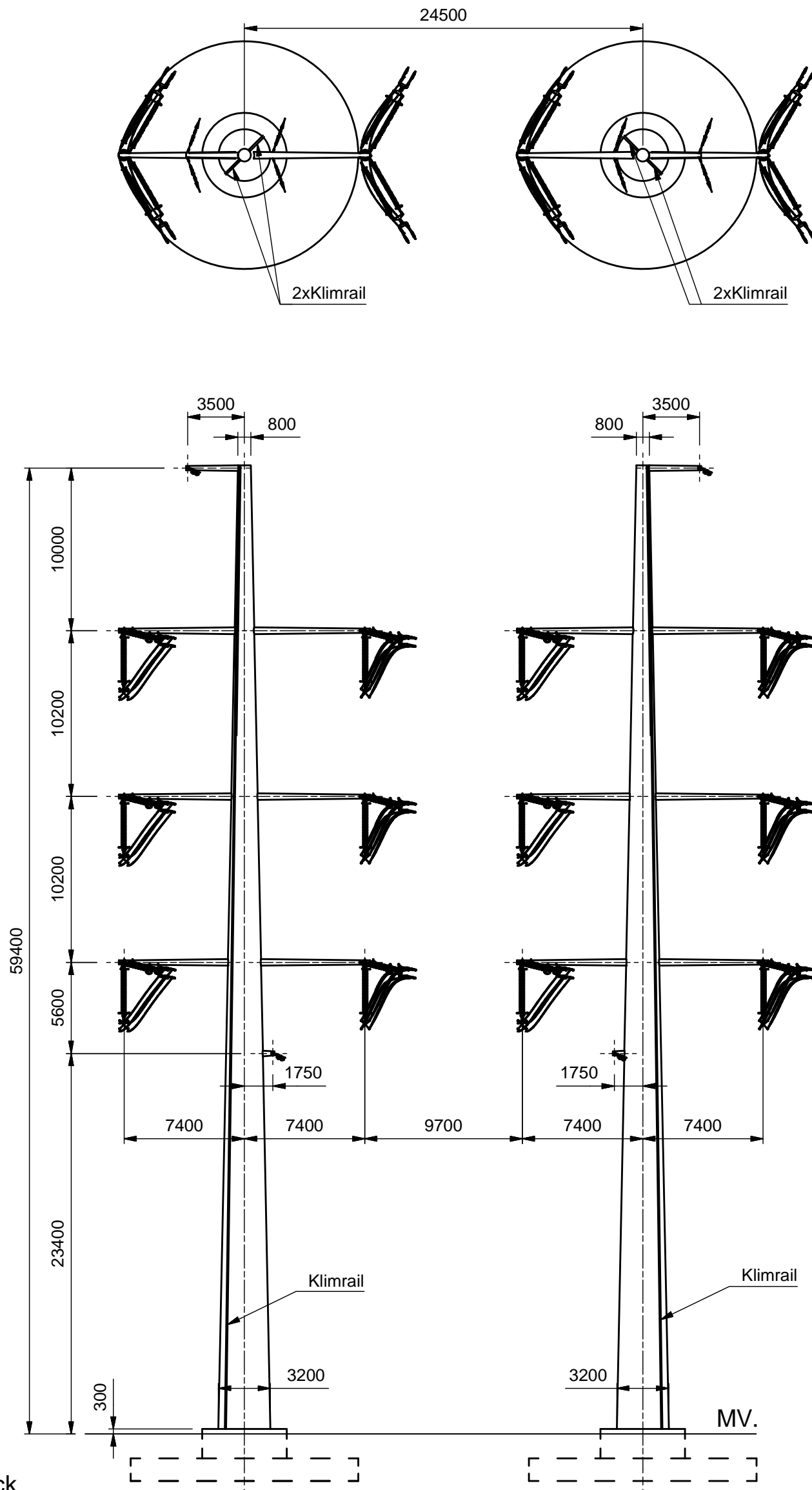
Appendix NWW6HK350UY / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a Wind, 10°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 1682 | 4711 | 16742 | 1682 | 4711 | -16742 |
| | 380C1F1 | 12421 | 34307 | 123349 | 12421 | 34307 | -123349 |
| | 380C1F2 | 12421 | 34191 | 123303 | 12421 | 34191 | -123303 |
| | 380C1F3 | 12421 | 34043 | 123253 | 12421 | 34043 | -123253 |
| | RTG | 3365 | 9255 | 33401 | 3365 | 9255 | -33401 |
| | 380C2F1 | 12421 | 34307 | 123349 | 12421 | 34307 | -123349 |
| | 380C2F2 | 12421 | 34191 | 123303 | 12421 | 34191 | -123303 |
| | 380C2F3 | 12421 | 34043 | 123253 | 12421 | 34043 | -123253 |
| NL4/1b Wind, -20°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 1682 | 5283 | 19550 | 1682 | 5283 | -19550 |
| | 380C1F1 | 12415 | 40186 | 149039 | 12415 | 40186 | -149039 |
| | 380C1F2 | 12415 | 40166 | 149041 | 12415 | 40166 | -149041 |
| | 380C1F3 | 12415 | 40140 | 149045 | 12415 | 40140 | -149045 |
| | RTG | 3363 | 10538 | 39103 | 3363 | 10538 | -39103 |
| | 380C2F1 | 12415 | 40186 | 149039 | 12415 | 40186 | -149039 |
| | 380C2F2 | 12415 | 40166 | 149041 | 12415 | 40166 | -149041 |
| | 380C2F3 | 12415 | 40140 | 149045 | 12415 | 40140 | -149045 |
| NL4/3 Wind, -5°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 5777 | 12092 | 44265 | 5777 | 12092 | -44265 |
| | 380C1F1 | 32398 | 72352 | 266281 | 32398 | 72352 | -266281 |
| | 380C1F2 | 32398 | 72271 | 266289 | 32398 | 72271 | -266289 |
| | 380C1F3 | 32398 | 72167 | 266300 | 32398 | 72167 | -266300 |
| | RTG | 11555 | 24037 | 88542 | 11555 | 24037 | -88542 |
| | 380C2F1 | 32398 | 72352 | 266281 | 32398 | 72352 | -266281 |
| | 380C2F2 | 32398 | 72271 | 266289 | 32398 | 72271 | -266289 |
| | 380C2F3 | 32398 | 72167 | 266300 | 32398 | 72167 | -266300 |
| NL4/4 Construction/maintenance, +5°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 2183 | 5651 | 20921 | 2183 | 5651 | -20921 |
| | 380C1F1 | 14424 | 38289 | 141960 | 14424 | 38289 | -141960 |
| | 380C1F2 | 14424 | 38269 | 141962 | 14424 | 38269 | -141962 |
| | 380C1F3 | 14424 | 38243 | 141966 | 14424 | 38243 | -141966 |
| | RTG | 4367 | 11274 | 41846 | 4367 | 11274 | -41846 |
| | 380C2F1 | 14424 | 38289 | 141960 | 14424 | 38289 | -141960 |
| | 380C2F2 | 14424 | 38269 | 141962 | 14424 | 38269 | -141962 |
| | 380C2F3 | 14424 | 38243 | 141966 | 14424 | 38243 | -141966 |
| NL4/1a Wind, 10°C Permanent loads yg= 1.0 Wind angle: 45° | GW / opgw | 1682 | 5642 | 17921 | 1683 | 9296 | -25280 |
| | 380C1F1 | 12421 | 39018 | 128128 | 12425 | 57718 | -162926 |
| | 380C1F2 | 12421 | 38405 | 127290 | 12424 | 55132 | -157625 |
| | 380C1F3 | 12421 | 37644 | 126316 | 12424 | 51872 | -151058 |
| | RTG | 3365 | 10372 | 34462 | 3366 | 14833 | -42617 |
| | 380C2F1 | 12421 | 39018 | 128128 | 12425 | 57718 | -162926 |
| | 380C2F2 | 12421 | 38405 | 127290 | 12424 | 55132 | -157625 |
| | 380C2F3 | 12421 | 37644 | 126316 | 12424 | 51872 | -151058 |
| NL4/1b Wind, -20°C Permanent loads yg= 1.0 Wind angle: 45° | GW / opgw | 1682 | 5414 | 19579 | 1682 | 5862 | -19995 |
| | 380C1F1 | 12415 | 40891 | 149110 | 12415 | 43190 | -150701 |
| | 380C1F2 | 12415 | 40807 | 149088 | 12415 | 42876 | -150395 |
| | 380C1F3 | 12415 | 40701 | 149065 | 12415 | 42482 | -150046 |
| | RTG | 3363 | 10708 | 39116 | 3363 | 11258 | -39468 |
| | 380C2F1 | 12415 | 40891 | 149110 | 12415 | 43190 | -150701 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 12415 | 40807 | 149088 | 12415 | 42876 | -150395 |
| | 380C2F3 | 12415 | 40701 | 149065 | 12415 | 42482 | -150046 |
| NL4/3 | GW / opgw | 5778 | 12761 | 44408 | 5778 | 15026 | -46427 |
| Wind, -5°C | 380C1F1 | 32398 | 75194 | 266667 | 32400 | 84561 | -273705 |
| Permanent loads yg= 1.0 | 380C1F2 | 32398 | 74856 | 266562 | 32400 | 83279 | -272387 |
| Wind angle: 45° | 380C1F3 | 32398 | 74427 | 266450 | 32399 | 81674 | -270865 |
| | RTG | 11555 | 24908 | 88605 | 11556 | 27708 | -90344 |
| | 380C2F1 | 32398 | 75194 | 266667 | 32400 | 84561 | -273705 |
| | 380C2F2 | 32398 | 74856 | 266562 | 32400 | 83279 | -272387 |
| | 380C2F3 | 32398 | 74427 | 266450 | 32399 | 81674 | -270865 |
| NL4/4 | GW / opgw | 2183 | 5777 | 20932 | 2183 | 6184 | -21197 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 38981 | 141983 | 14424 | 41176 | -143178 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 38900 | 141969 | 14424 | 40880 | -142941 |
| Wind angle: 45° | 380C1F3 | 14424 | 38797 | 141956 | 14424 | 40508 | -142673 |
| | RTG | 4367 | 11439 | 41842 | 4367 | 11951 | -42052 |
| | 380C2F1 | 14424 | 38981 | 141983 | 14424 | 41176 | -143178 |
| | 380C2F2 | 14424 | 38900 | 141969 | 14424 | 40880 | -142941 |
| | 380C2F3 | 14424 | 38797 | 141956 | 14424 | 40508 | -142673 |
| NL4/1a | GW / opgw | 1683 | 10753 | 28419 | 1683 | 10753 | -28419 |
| Wind, 10°C | 380C1F1 | 12426 | 65517 | 179220 | 12426 | 65517 | -179220 |
| Permanent loads yg= 1.0 | 380C1F2 | 12426 | 62199 | 172246 | 12426 | 62199 | -172246 |
| Wind angle: 90° | 380C1F3 | 12425 | 57980 | 163467 | 12425 | 57980 | -163467 |
| | RTG | 3366 | 16730 | 46584 | 3366 | 16730 | -46584 |
| | 380C2F1 | 12426 | 65517 | 179220 | 12426 | 65517 | -179220 |
| | 380C2F2 | 12426 | 62199 | 172246 | 12426 | 62199 | -172246 |
| | 380C2F3 | 12425 | 57980 | 163467 | 12425 | 57980 | -163467 |
| NL4/1b | GW / opgw | 1682 | 6056 | 20261 | 1682 | 6056 | -20261 |
| Wind, -20°C | 380C1F1 | 12415 | 44163 | 151770 | 12415 | 44163 | -151770 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 43744 | 151288 | 12415 | 43744 | -151288 |
| Wind angle: 90° | 380C1F3 | 12415 | 43222 | 150733 | 12415 | 43222 | -150733 |
| | RTG | 3363 | 11489 | 39708 | 3363 | 11489 | -39708 |
| | 380C2F1 | 12415 | 44163 | 151770 | 12415 | 44163 | -151770 |
| | 380C2F2 | 12415 | 43744 | 151288 | 12415 | 43744 | -151288 |
| | 380C2F3 | 12415 | 43222 | 150733 | 12415 | 43222 | -150733 |
| NL4/3 | GW / opgw | 5779 | 15990 | 47666 | 5779 | 15990 | -47666 |
| Wind, -5°C | 380C1F1 | 32401 | 88517 | 278247 | 32401 | 88517 | -278247 |
| Permanent loads yg= 1.0 | 380C1F2 | 32401 | 86816 | 276214 | 32401 | 86816 | -276214 |
| Wind angle: 90° | 380C1F3 | 32400 | 84692 | 273844 | 32400 | 84692 | -273844 |
| | RTG | 11556 | 28874 | 91507 | 11556 | 28874 | -91507 |
| | 380C2F1 | 32401 | 88517 | 278247 | 32401 | 88517 | -278247 |
| | 380C2F2 | 32401 | 86816 | 276214 | 32401 | 86816 | -276214 |
| | 380C2F3 | 32400 | 84692 | 273844 | 32400 | 84692 | -273844 |
| NL4/4 | GW / opgw | 2183 | 6355 | 21377 | 2183 | 6355 | -21377 |
| Construction/maintenance, +5°C | 380C1F1 | 14425 | 42086 | 144014 | 14425 | 42086 | -144014 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 41695 | 143636 | 14424 | 41695 | -143636 |
| Wind angle: 90° | 380C1F3 | 14424 | 41206 | 143203 | 14424 | 41206 | -143203 |
| | RTG | 4367 | 12159 | 42208 | 4367 | 12159 | -42208 |
| | 380C2F1 | 14425 | 42086 | 144014 | 14425 | 42086 | -144014 |
| | 380C2F2 | 14424 | 41695 | 143636 | 14424 | 41695 | -143636 |
| | 380C2F3 | 14424 | 41206 | 143203 | 14424 | 41206 | -143203 |
| NL4/1a | GW / opgw | 1683 | 9296 | 25280 | 1682 | 5642 | -17921 |
| Wind, 10°C | 380C1F1 | 12425 | 57718 | 162926 | 12421 | 39018 | -128128 |
| Permanent loads yg= 1.0 | 380C1F2 | 12424 | 55132 | 157625 | 12421 | 38405 | -127290 |
| Wind angle: -45° | 380C1F3 | 12424 | 51872 | 151058 | 12421 | 37644 | -126316 |
| | RTG | 3366 | 14833 | 42617 | 3365 | 10372 | -34462 |
| | 380C2F1 | 12425 | 57718 | 162926 | 12421 | 39018 | -128128 |
| | 380C2F2 | 12424 | 55132 | 157625 | 12421 | 38405 | -127290 |
| | 380C2F3 | 12424 | 51872 | 151058 | 12421 | 37644 | -126316 |
| NL4/1b | GW / opgw | 1682 | 5862 | 19995 | 1682 | 5414 | -19579 |
| Wind, -20°C | 380C1F1 | 12415 | 43190 | 150701 | 12415 | 40891 | -149110 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 42876 | 150395 | 12415 | 40807 | -149088 |
| Wind angle: -45° | 380C1F3 | 12415 | 42482 | 150046 | 12415 | 40701 | -149065 |


| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3363 | 11258 | 39468 | 3363 | 10708 | -39116 |
| | 380C2F1 | 12415 | 43190 | 150701 | 12415 | 40891 | -149110 |
| | 380C2F2 | 12415 | 42876 | 150395 | 12415 | 40807 | -149088 |
| | 380C2F3 | 12415 | 42482 | 150046 | 12415 | 40701 | -149065 |
| NL4/3 | GW / opgw | 5778 | 15026 | 46427 | 5778 | 12761 | -44408 |
| Wind, -5°C | 380C1F1 | 32400 | 84561 | 273705 | 32398 | 75194 | -266667 |
| Permanent loads yg= 1.0 | 380C1F2 | 32400 | 83279 | 272387 | 32398 | 74856 | -266562 |
| Wind angle: -45° | 380C1F3 | 32399 | 81674 | 270865 | 32398 | 74427 | -266450 |
| | RTG | 11556 | 27708 | 90344 | 11555 | 24908 | -88605 |
| | 380C2F1 | 32400 | 84561 | 273705 | 32398 | 75194 | -266667 |
| | 380C2F2 | 32400 | 83279 | 272387 | 32398 | 74856 | -266562 |
| | 380C2F3 | 32399 | 81674 | 270865 | 32398 | 74427 | -266450 |
| NL4/4 | GW / opgw | 2183 | 6184 | 21197 | 2183 | 5777 | -20932 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 41176 | 143178 | 14424 | 38981 | -141983 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 40880 | 142941 | 14424 | 38900 | -141969 |
| Wind angle: -45° | 380C1F3 | 14424 | 40508 | 142673 | 14424 | 38797 | -141956 |
| | RTG | 4367 | 11951 | 42052 | 4367 | 11439 | -41842 |
| | 380C2F1 | 14424 | 41176 | 143178 | 14424 | 38981 | -141983 |
| | 380C2F2 | 14424 | 40880 | 142941 | 14424 | 38900 | -141969 |
| | 380C2F3 | 14424 | 40508 | 142673 | 14424 | 38797 | -141956 |



Wintrack
Masttype: NWW6HK400UY

- Trekparameter 1800m
- 4x380 Hoekmast
- 400m Veldlengte
- 150»180» Lijnhoek
- IJsg gebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|------------|-------------------------|
| Rev. | Date | Description |
| 3 | 19-06-2013 | Small modification |
| 4 | 22-5-2014 | New template |
| 5 | 13-1-2016 | Kleurstelling aangepast |

| | | |
|---|--------------------------------|---|
|  | | Projectname: TenneT Engineering verbinding NW380 |
| Design state: Released | | Drawing no.: 74101611-035-255 |
| Drawn by: SGR 22-5-2014 | Scale: 1 : 300 | Description: NWW6HK400UY |
| Checked by: EKA 23-5-2014 | Units: mm | |
| Approved by: AW 23-5-2014 | Project no: Company: TenneT | |
| DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com | | Revision: 5 Format: A3 |

NWW6HK400UY

Appendix NWW6HK400UY / NL1

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2309 | 5625 | 19527 | 2309 | 5625 | -19527 |
| Wind, 10°C | 380C1F1 | 17045 | 40565 | 143221 | 17045 | 40565 | -143221 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 40349 | 143123 | 17045 | 40349 | -143123 |
| Wind angle: 0° | 380C1F3 | 17045 | 40077 | 143016 | 17045 | 40077 | -143016 |
| | RTG | 4617 | 10951 | 38887 | 4617 | 10951 | -38887 |
| | 380C2F1 | 17045 | 40565 | 143221 | 17045 | 40565 | -143221 |
| | 380C2F2 | 17045 | 40349 | 143123 | 17045 | 40349 | -143123 |
| | 380C2F3 | 17045 | 40077 | 143016 | 17045 | 40077 | -143016 |
| NL1/1b | GW / opgw | 2308 | 5915 | 21781 | 2308 | 5915 | -21781 |
| Wind, -20°C | 380C1F1 | 17036 | 44400 | 164070 | 17036 | 44400 | -164070 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44363 | 164073 | 17036 | 44363 | -164073 |
| Wind angle: 0° | 380C1F3 | 17036 | 44316 | 164078 | 17036 | 44316 | -164078 |
| | RTG | 4615 | 11779 | 43564 | 4615 | 11779 | -43564 |
| | 380C2F1 | 17036 | 44400 | 164070 | 17036 | 44400 | -164070 |
| | 380C2F2 | 17036 | 44363 | 164073 | 17036 | 44363 | -164073 |
| | 380C2F3 | 17036 | 44316 | 164078 | 17036 | 44316 | -164078 |
| NL1/3 | GW / opgw | 9338 | 16254 | 59156 | 9338 | 16254 | -59156 |
| Wind, -5°C | 380C1F1 | 51333 | 94789 | 347232 | 51333 | 94789 | -347232 |
| Permanent loads yg= 1.2 | 380C1F2 | 51333 | 94642 | 347247 | 51333 | 94642 | -347247 |
| Wind angle: 0° | 380C1F3 | 51333 | 94453 | 347270 | 51333 | 94453 | -347270 |
| | RTG | 18676 | 32253 | 118337 | 18676 | 32253 | -118337 |
| | 380C2F1 | 51333 | 94789 | 347232 | 51333 | 94789 | -347232 |
| | 380C2F2 | 51333 | 94642 | 347247 | 51333 | 94642 | -347247 |
| | 380C2F3 | 51333 | 94453 | 347270 | 51333 | 94453 | -347270 |
| NL1/4 | GW / opgw | 3061 | 6721 | 24790 | 3061 | 6721 | -24790 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 44896 | 165921 | 20053 | 44896 | -165921 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 44860 | 165926 | 20053 | 44860 | -165926 |
| Wind angle: 0° | 380C1F3 | 20053 | 44813 | 165933 | 20053 | 44813 | -165933 |
| | RTG | 6122 | 13393 | 49585 | 6122 | 13393 | -49585 |
| | 380C2F1 | 20053 | 44896 | 165921 | 20053 | 44896 | -165921 |
| | 380C2F2 | 20053 | 44860 | 165926 | 20053 | 44860 | -165926 |
| | 380C2F3 | 20053 | 44813 | 165933 | 20053 | 44813 | -165933 |
| NL1/6 | GW / opgw | 2597 | 5728 | 21378 | 2597 | 5728 | -21378 |
| Permanent, +10°C | 380C1F1 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| Permanent loads yg= 1.35 | 380C1F2 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| | 380C1F3 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| | RTG | 5195 | 11456 | 42755 | 5195 | 11456 | -42755 |
| | 380C2F1 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| | 380C2F2 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| | 380C2F3 | 19177 | 42083 | 157056 | 19177 | 42083 | -157056 |
| NL1/1a | GW / opgw | 2309 | 7293 | 21750 | 2310 | 13490 | -33928 |
| Wind, 10°C | 380C1F1 | 17046 | 49015 | 152435 | 17054 | 81402 | -212284 |
| Permanent loads yg= 1.2 | 380C1F2 | 17046 | 47868 | 150791 | 17053 | 76864 | -203265 |
| Wind angle: 45° | 380C1F3 | 17046 | 46446 | 148874 | 17052 | 71105 | -191944 |
| | RTG | 4618 | 12952 | 40938 | 4619 | 20724 | -55142 |
| | 380C2F1 | 17046 | 49015 | 152435 | 17054 | 81402 | -212284 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | 380C2F2 | 17046 | 47868 | 150791 | 17053 | 76864 | -203265 |
| | 380C2F3 | 17046 | 46446 | 148874 | 17052 | 71105 | -191944 |
| NL1/1b | GW / opgw | 2308 | 6146 | 21843 | 2308 | 6949 | -22656 |
| Wind, -20°C | 380C1F1 | 17036 | 45643 | 164248 | 17036 | 49767 | -167448 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 45489 | 164199 | 17036 | 49175 | -166820 |
| Wind angle: 45° | 380C1F3 | 17036 | 45293 | 164146 | 17036 | 48438 | -166102 |
| | RTG | 4615 | 12078 | 43598 | 4615 | 13059 | -44299 |
| | 380C2F1 | 17036 | 45643 | 164248 | 17036 | 49767 | -167448 |
| | 380C2F2 | 17036 | 45489 | 164199 | 17036 | 49175 | -166820 |
| | 380C2F3 | 17036 | 45293 | 164146 | 17036 | 48438 | -166102 |
| NL1/3 | GW / opgw | 9338 | 17409 | 59361 | 9340 | 21254 | -62481 |
| Wind, -5°C | 380C1F1 | 51333 | 99714 | 347789 | 51339 | 115766 | -358994 |
| Permanent loads yg= 1.2 | 380C1F2 | 51333 | 99104 | 347619 | 51338 | 113488 | -356805 |
| Wind angle: 45° | 380C1F3 | 51333 | 98332 | 347441 | 51337 | 110640 | -354294 |
| | RTG | 18676 | 33761 | 118405 | 18678 | 38543 | -121071 |
| | 380C2F1 | 51333 | 99714 | 347789 | 51339 | 115766 | -358994 |
| | 380C2F2 | 51333 | 99104 | 347619 | 51338 | 113488 | -356805 |
| | 380C2F3 | 51333 | 98332 | 347441 | 51337 | 110640 | -354294 |
| NL1/4 | GW / opgw | 3061 | 6942 | 24814 | 3061 | 7665 | -25326 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 46113 | 165997 | 20053 | 50011 | -168352 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 45963 | 165965 | 20053 | 49460 | -167875 |
| Wind angle: 45° | 380C1F3 | 20053 | 45773 | 165934 | 20053 | 48771 | -167335 |
| | RTG | 6122 | 13683 | 49584 | 6122 | 14586 | -49997 |
| | 380C2F1 | 20053 | 46113 | 165997 | 20053 | 50011 | -168352 |
| | 380C2F2 | 20053 | 45963 | 165965 | 20053 | 49460 | -167875 |
| | 380C2F3 | 20053 | 45773 | 165934 | 20053 | 48771 | -167335 |
| NL1/1a | GW / opgw | 2311 | 15860 | 38761 | 2311 | 15860 | -38761 |
| Wind, 10°C | 380C1F1 | 17058 | 94352 | 238263 | 17058 | 94352 | -238263 |
| Permanent loads yg= 1.2 | 380C1F2 | 17056 | 88631 | 226760 | 17056 | 88631 | -226760 |
| Wind angle: 90° | 380C1F3 | 17054 | 81311 | 212104 | 17054 | 81311 | -212104 |
| | RTG | 4620 | 23897 | 61561 | 4620 | 23897 | -61561 |
| | 380C2F1 | 17058 | 94352 | 238263 | 17058 | 94352 | -238263 |
| | 380C2F2 | 17056 | 88631 | 226760 | 17056 | 88631 | -226760 |
| | 380C2F3 | 17054 | 81311 | 212104 | 17054 | 81311 | -212104 |
| NL1/1b | GW / opgw | 2308 | 7299 | 23160 | 2308 | 7299 | -23160 |
| Wind, -20°C | 380C1F1 | 17037 | 51523 | 169540 | 17037 | 51523 | -169540 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 50734 | 168562 | 17036 | 50734 | -168562 |
| Wind angle: 90° | 380C1F3 | 17036 | 49755 | 167435 | 17036 | 49755 | -167435 |
| | RTG | 4615 | 13474 | 44766 | 4615 | 13474 | -44766 |
| | 380C2F1 | 17037 | 51523 | 169540 | 17037 | 51523 | -169540 |
| | 380C2F2 | 17036 | 50734 | 168562 | 17036 | 50734 | -168562 |
| | 380C2F3 | 17036 | 49755 | 167435 | 17036 | 49755 | -167435 |
| NL1/3 | GW / opgw | 9341 | 22868 | 64392 | 9341 | 22868 | -64392 |
| Wind, -5°C | 380C1F1 | 51342 | 122478 | 366212 | 51342 | 122478 | -366212 |
| Permanent loads yg= 1.2 | 380C1F2 | 51340 | 119472 | 362850 | 51340 | 119472 | -362850 |
| Wind angle: 90° | 380C1F3 | 51339 | 115720 | 358949 | 51339 | 115720 | -358949 |
| | RTG | 18679 | 40515 | 122871 | 18679 | 40515 | -122871 |
| | 380C2F1 | 51342 | 122478 | 366212 | 51342 | 122478 | -366212 |
| | 380C2F2 | 51340 | 119472 | 362850 | 51340 | 119472 | -362850 |
| | 380C2F3 | 51339 | 115720 | 358949 | 51339 | 115720 | -358949 |
| NL1/4 | GW / opgw | 3061 | 7971 | 25665 | 3061 | 7971 | -25665 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 51638 | 169959 | 20053 | 51638 | -169959 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 50909 | 169204 | 20053 | 50909 | -169204 |
| Wind angle: 90° | 380C1F3 | 20053 | 50000 | 168342 | 20053 | 50000 | -168342 |
| | RTG | 6122 | 14956 | 50295 | 6122 | 14956 | -50295 |
| | 380C2F1 | 20053 | 51638 | 169959 | 20053 | 51638 | -169959 |
| | 380C2F2 | 20053 | 50909 | 169204 | 20053 | 50909 | -169204 |
| | 380C2F3 | 20053 | 50000 | 168342 | 20053 | 50000 | -168342 |
| NL1/1a | GW / opgw | 2310 | 13490 | 33928 | 2309 | 7293 | -21750 |
| Wind, 10°C | 380C1F1 | 17054 | 81402 | 212284 | 17046 | 49015 | -152435 |
| Permanent loads yg= 1.2 | 380C1F2 | 17053 | 76864 | 203265 | 17046 | 47868 | -150791 |
| Wind angle: -45° | 380C1F3 | 17052 | 71105 | 191944 | 17046 | 46446 | -148874 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| | RTG | 4619 | 20724 | 55142 | 4618 | 12952 | -40938 |
| | 380C2F1 | 17054 | 81402 | 212284 | 17046 | 49015 | -152435 |
| | 380C2F2 | 17053 | 76864 | 203265 | 17046 | 47868 | -150791 |
| | 380C2F3 | 17052 | 71105 | 191944 | 17046 | 46446 | -148874 |
| NL1/1b | GW / opgw | 2308 | 6949 | 22656 | 2308 | 6146 | -21843 |
| Wind, -20°C | 380C1F1 | 17036 | 49767 | 167448 | 17036 | 45643 | -164248 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49175 | 166820 | 17036 | 45489 | -164199 |
| Wind angle: -45° | 380C1F3 | 17036 | 48438 | 166102 | 17036 | 45293 | -164146 |
| | RTG | 4615 | 13059 | 44299 | 4615 | 12078 | -43598 |
| | 380C2F1 | 17036 | 49767 | 167448 | 17036 | 45643 | -164248 |
| | 380C2F2 | 17036 | 49175 | 166820 | 17036 | 45489 | -164199 |
| | 380C2F3 | 17036 | 48438 | 166102 | 17036 | 45293 | -164146 |
| NL1/3 | GW / opgw | 9340 | 21254 | 62481 | 9338 | 17409 | -59361 |
| Wind, -5°C | 380C1F1 | 51339 | 115766 | 358994 | 51333 | 99714 | -347789 |
| Permanent loads yg= 1.2 | 380C1F2 | 51338 | 113488 | 356805 | 51333 | 99104 | -347619 |
| Wind angle: -45° | 380C1F3 | 51337 | 110640 | 354294 | 51333 | 98332 | -347441 |
| | RTG | 18678 | 38543 | 121071 | 18676 | 33761 | -118405 |
| | 380C2F1 | 51339 | 115766 | 358994 | 51333 | 99714 | -347789 |
| | 380C2F2 | 51338 | 113488 | 356805 | 51333 | 99104 | -347619 |
| | 380C2F3 | 51337 | 110640 | 354294 | 51333 | 98332 | -347441 |
| NL1/4 | GW / opgw | 3061 | 7665 | 25326 | 3061 | 6942 | -24814 |
| Construction/maintenance, +5°C | 380C1F1 | 20053 | 50011 | 168352 | 20053 | 46113 | -165997 |
| Permanent loads yg= 1.2 | 380C1F2 | 20053 | 49460 | 167875 | 20053 | 45963 | -165965 |
| Wind angle: -45° | 380C1F3 | 20053 | 48771 | 167335 | 20053 | 45773 | -165934 |
| | RTG | 6122 | 14586 | 49997 | 6122 | 13683 | -49584 |
| | 380C2F1 | 20053 | 50011 | 168352 | 20053 | 46113 | -165997 |
| | 380C2F2 | 20053 | 49460 | 167875 | 20053 | 45963 | -165965 |
| | 380C2F3 | 20053 | 48771 | 167335 | 20053 | 45773 | -165934 |
| NL1//1a | GW / opgw | 1731 | 4541 | 15482 | 1731 | 4541 | -15482 |
| Wind, 10°C | 380C1F1 | 12781 | 32655 | 113701 | 12781 | 32655 | -113701 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 32422 | 113541 | 12781 | 32422 | -113541 |
| Wind angle: 0° | 380C1F3 | 12781 | 32131 | 113361 | 12781 | 32131 | -113361 |
| | RTG | 3462 | 8757 | 30700 | 3462 | 8757 | -30700 |
| | 380C2F1 | 12781 | 32655 | 113701 | 12781 | 32655 | -113701 |
| | 380C2F2 | 12781 | 32422 | 113541 | 12781 | 32422 | -113541 |
| | 380C2F3 | 12781 | 32131 | 113361 | 12781 | 32131 | -113361 |
| NL1/1b | GW / opgw | 1730 | 4749 | 17431 | 1730 | 4749 | -17431 |
| Wind, -20°C | 380C1F1 | 12774 | 35977 | 132635 | 12774 | 35977 | -132635 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35939 | 132636 | 12774 | 35939 | -132636 |
| Wind angle: 0° | 380C1F3 | 12774 | 35891 | 132638 | 12774 | 35891 | -132638 |
| | RTG | 3461 | 9447 | 34861 | 3461 | 9447 | -34861 |
| | 380C2F1 | 12774 | 35977 | 132635 | 12774 | 35977 | -132635 |
| | 380C2F2 | 12774 | 35939 | 132636 | 12774 | 35939 | -132636 |
| | 380C2F3 | 12774 | 35891 | 132638 | 12774 | 35891 | -132638 |
| NL1/3 | GW / opgw | 8759 | 15532 | 56464 | 8759 | 15532 | -56464 |
| Wind, -5°C | 380C1F1 | 47059 | 89110 | 326040 | 47059 | 89110 | -326040 |
| Permanent loads yg= 0.9 | 380C1F2 | 47059 | 88962 | 326052 | 47059 | 88962 | -326052 |
| Wind angle: 0° | 380C1F3 | 47059 | 88773 | 326072 | 47059 | 88773 | -326072 |
| | RTG | 17518 | 30810 | 112949 | 17518 | 30810 | -112949 |
| | 380C2F1 | 47059 | 89110 | 326040 | 47059 | 89110 | -326040 |
| | 380C2F2 | 47059 | 88962 | 326052 | 47059 | 88962 | -326052 |
| | 380C2F3 | 47059 | 88773 | 326072 | 47059 | 88773 | -326072 |
| NL1/4 | GW / opgw | 2483 | 5694 | 20958 | 2483 | 5694 | -20958 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 37215 | 137256 | 15788 | 37215 | -137256 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 37178 | 137259 | 15788 | 37178 | -137259 |
| Wind angle: 0° | 380C1F3 | 15788 | 37131 | 137264 | 15788 | 37131 | -137264 |
| | RTG | 4966 | 11339 | 41921 | 4966 | 11339 | -41921 |
| | 380C2F1 | 15788 | 37215 | 137256 | 15788 | 37215 | -137256 |
| | 380C2F2 | 15788 | 37178 | 137259 | 15788 | 37178 | -137259 |
| | 380C2F3 | 15788 | 37131 | 137264 | 15788 | 37131 | -137264 |
| NL1/6 | GW / opgw | 1731 | 4093 | 15276 | 1731 | 4093 | -15276 |
| Permanent, +10°C | 380C1F1 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |
| | 380C1F3 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |
| | RTG | 3462 | 8186 | 30552 | 3462 | 8186 | -30552 |
| | 380C2F1 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |
| | 380C2F2 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |
| | 380C2F3 | 12781 | 30274 | 112983 | 12781 | 30274 | -112983 |
| NL1/1a | GW / opgw | 1731 | 6434 | 18544 | 1733 | 13114 | -32525 |
| Wind, 10°C | 380C1F1 | 12782 | 42181 | 126938 | 12790 | 77838 | -198994 |
| Permanent loads yg= 0.9 | 380C1F2 | 12782 | 40870 | 124681 | 12789 | 72998 | -188846 |
| Wind angle: 45° | 380C1F3 | 12782 | 39247 | 122009 | 12787 | 66796 | -175871 |
| | RTG | 3463 | 11004 | 33670 | 3464 | 19628 | -51053 |
| | 380C2F1 | 12782 | 42181 | 126938 | 12790 | 77838 | -198994 |
| | 380C2F2 | 12782 | 40870 | 124681 | 12789 | 72998 | -188846 |
| | 380C2F3 | 12782 | 39247 | 122009 | 12787 | 66796 | -175871 |
| NL1/1b | GW / opgw | 1730 | 4994 | 17546 | 1730 | 5902 | -18747 |
| Wind, -20°C | 380C1F1 | 12774 | 37278 | 133032 | 12774 | 41866 | -137966 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 37114 | 132944 | 12774 | 41193 | -137034 |
| Wind angle: 45° | 380C1F3 | 12774 | 36906 | 132847 | 12774 | 40360 | -135956 |
| | RTG | 3461 | 9759 | 34943 | 3461 | 10843 | -36030 |
| | 380C2F1 | 12774 | 37278 | 133032 | 12774 | 41866 | -137966 |
| | 380C2F2 | 12774 | 37114 | 132944 | 12774 | 41193 | -137034 |
| | 380C2F3 | 12774 | 36906 | 132847 | 12774 | 40360 | -135956 |
| NL1/3 | GW / opgw | 8759 | 16699 | 56710 | 8761 | 20624 | -60133 |
| Wind, -5°C | 380C1F1 | 47060 | 94091 | 326808 | 47065 | 110576 | -339636 |
| Permanent loads yg= 0.9 | 380C1F2 | 47060 | 93472 | 326601 | 47064 | 108224 | -337169 |
| Wind angle: 45° | 380C1F3 | 47059 | 92688 | 326380 | 47063 | 105287 | -334325 |
| | RTG | 17518 | 32327 | 113056 | 17520 | 37191 | -116028 |
| | 380C2F1 | 47060 | 94091 | 326808 | 47065 | 110576 | -339636 |
| | 380C2F2 | 47060 | 93472 | 326601 | 47064 | 108224 | -337169 |
| | 380C2F3 | 47059 | 92688 | 326380 | 47063 | 105287 | -334325 |
| NL1/4 | GW / opgw | 2483 | 5922 | 21007 | 2483 | 6696 | -21709 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 38467 | 137466 | 15788 | 42658 | -140911 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 38311 | 137411 | 15788 | 42054 | -140240 |
| Wind angle: 45° | 380C1F3 | 15788 | 38114 | 137352 | 15788 | 41304 | -139471 |
| | RTG | 4966 | 11635 | 41942 | 4966 | 12587 | -42536 |
| | 380C2F1 | 15788 | 38467 | 137466 | 15788 | 42658 | -140911 |
| | 380C2F2 | 15788 | 38311 | 137411 | 15788 | 42054 | -140240 |
| | 380C2F3 | 15788 | 38114 | 137352 | 15788 | 41304 | -139471 |
| NL1/1a | GW / opgw | 1733 | 15564 | 37656 | 1733 | 15564 | -37656 |
| Wind, 10°C | 380C1F1 | 12792 | 91476 | 227538 | 12792 | 91476 | -227538 |
| Permanent loads yg= 0.9 | 380C1F2 | 12791 | 85479 | 215006 | 12791 | 85479 | -215006 |
| Wind angle: 90° | 380C1F3 | 12789 | 77742 | 198792 | 12789 | 77742 | -198792 |
| | RTG | 3465 | 23000 | 58216 | 3465 | 23000 | -58216 |
| | 380C2F1 | 12792 | 91476 | 227538 | 12792 | 91476 | -227538 |
| | 380C2F2 | 12791 | 85479 | 215006 | 12791 | 85479 | -215006 |
| | 380C2F3 | 12789 | 77742 | 198792 | 12789 | 77742 | -198792 |
| NL1/1b | GW / opgw | 1731 | 6305 | 19450 | 1731 | 6305 | -19450 |
| Wind, -20°C | 380C1F1 | 12775 | 43876 | 141009 | 12775 | 43876 | -141009 |
| Permanent loads yg= 0.9 | 380C1F2 | 12775 | 42971 | 139596 | 12775 | 42971 | -139596 |
| Wind angle: 90° | 380C1F3 | 12774 | 41852 | 137946 | 12774 | 41852 | -137946 |
| | RTG | 3461 | 11316 | 36714 | 3461 | 11316 | -36714 |
| | 380C2F1 | 12775 | 43876 | 141009 | 12775 | 43876 | -141009 |
| | 380C2F2 | 12775 | 42971 | 139596 | 12775 | 42971 | -139596 |
| | 380C2F3 | 12774 | 41852 | 137946 | 12774 | 41852 | -137946 |
| NL1/3 | GW / opgw | 8762 | 22277 | 62192 | 8762 | 22277 | -62192 |
| Wind, -5°C | 380C1F1 | 47069 | 117516 | 347708 | 47069 | 117516 | -347708 |
| Permanent loads yg= 0.9 | 380C1F2 | 47067 | 114407 | 343959 | 47067 | 114407 | -343959 |
| Wind angle: 90° | 380C1F3 | 47065 | 110529 | 339585 | 47065 | 110529 | -339585 |
| | RTG | 17521 | 39208 | 117996 | 17521 | 39208 | -117996 |
| | 380C2F1 | 47069 | 117516 | 347708 | 47069 | 117516 | -347708 |
| | 380C2F2 | 47067 | 114407 | 343959 | 47067 | 114407 | -343959 |
| | 380C2F3 | 47065 | 110529 | 339585 | 47065 | 110529 | -339585 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| NL1/4 | GW / opgw | 2483 | 7030 | 22153 | 2483 | 7030 | -22153 |
| Construction/maintenance, +5°C | 380C1F1 | 15789 | 44451 | 143139 | 15789 | 44451 | -143139 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 43645 | 142099 | 15788 | 43645 | -142099 |
| Wind angle: 90° | 380C1F3 | 15788 | 42646 | 140898 | 15788 | 42646 | -140898 |
| | RTG | 4966 | 12985 | 42941 | 4966 | 12985 | -42941 |
| | 380C2F1 | 15789 | 44451 | 143139 | 15789 | 44451 | -143139 |
| | 380C2F2 | 15788 | 43645 | 142099 | 15788 | 43645 | -142099 |
| | 380C2F3 | 15788 | 42646 | 140898 | 15788 | 42646 | -140898 |
| NL1/1a | GW / opgw | 1733 | 13114 | 32525 | 1731 | 6434 | -18544 |
| Wind, 10°C | 380C1F1 | 12790 | 77838 | 198994 | 12782 | 42181 | -126938 |
| Permanent loads yg= 0.9 | 380C1F2 | 12789 | 72998 | 188846 | 12782 | 40870 | -124681 |
| Wind angle: -45° | 380C1F3 | 12787 | 66796 | 175871 | 12782 | 39247 | -122009 |
| | RTG | 3464 | 19628 | 51053 | 3463 | 11004 | -33670 |
| | 380C2F1 | 12790 | 77838 | 198994 | 12782 | 42181 | -126938 |
| | 380C2F2 | 12789 | 72998 | 188846 | 12782 | 40870 | -124681 |
| | 380C2F3 | 12787 | 66796 | 175871 | 12782 | 39247 | -122009 |
| NL1/1b | GW / opgw | 1730 | 5902 | 18747 | 1730 | 4994 | -17546 |
| Wind, -20°C | 380C1F1 | 12774 | 41866 | 137966 | 12774 | 37278 | -133032 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41193 | 137034 | 12774 | 37114 | -132944 |
| Wind angle: -45° | 380C1F3 | 12774 | 40360 | 135956 | 12774 | 36906 | -132847 |
| | RTG | 3461 | 10843 | 36030 | 3461 | 9759 | -34943 |
| | 380C2F1 | 12774 | 41866 | 137966 | 12774 | 37278 | -133032 |
| | 380C2F2 | 12774 | 41193 | 137034 | 12774 | 37114 | -132944 |
| | 380C2F3 | 12774 | 40360 | 135956 | 12774 | 36906 | -132847 |
| NL1/3 | GW / opgw | 8761 | 20624 | 60133 | 8759 | 16699 | -56710 |
| Wind, -5°C | 380C1F1 | 47065 | 110576 | 339636 | 47060 | 94091 | -326808 |
| Permanent loads yg= 0.9 | 380C1F2 | 47064 | 108224 | 337169 | 47060 | 93472 | -326601 |
| Wind angle: -45° | 380C1F3 | 47063 | 105287 | 334325 | 47059 | 92688 | -326380 |
| | RTG | 17520 | 37191 | 116028 | 17518 | 32327 | -113056 |
| | 380C2F1 | 47065 | 110576 | 339636 | 47060 | 94091 | -326808 |
| | 380C2F2 | 47064 | 108224 | 337169 | 47060 | 93472 | -326601 |
| | 380C2F3 | 47063 | 105287 | 334325 | 47059 | 92688 | -326380 |
| NL1/4 | GW / opgw | 2483 | 6696 | 21709 | 2483 | 5922 | -21007 |
| Construction/maintenance, +5°C | 380C1F1 | 15788 | 42658 | 140911 | 15788 | 38467 | -137466 |
| Permanent loads yg= 0.9 | 380C1F2 | 15788 | 42054 | 140240 | 15788 | 38311 | -137411 |
| Wind angle: -45° | 380C1F3 | 15788 | 41304 | 139471 | 15788 | 38114 | -137352 |
| | RTG | 4966 | 12587 | 42536 | 4966 | 11635 | -41942 |
| | 380C2F1 | 15788 | 42658 | 140911 | 15788 | 38467 | -137466 |
| | 380C2F2 | 15788 | 42054 | 140240 | 15788 | 38311 | -137411 |
| | 380C2F3 | 15788 | 41304 | 139471 | 15788 | 38114 | -137352 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| | RTG | 4617 | 10675 | 38808 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| | RTG | 4615 | 11759 | 43567 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 6860 | 24402 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| | RTG | 5739 | 13494 | 48736 | 0 | 0 | 0 |
| | 380C2F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| | 380C2F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| | 380C2F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6444 | 23814 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| | RTG | 5821 | 12848 | 47634 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 6123 | 20008 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| | RTG | 4617 | 11561 | 39298 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6079 | 21813 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| | RTG | 4615 | 11993 | 43577 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|---|---|---|
| | 380C2F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 8049 | 25556 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| | RTG | 5739 | 14950 | 49731 | 0 | 0 | 0 |
| | 380C2F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| | 380C2F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| | 380C2F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6618 | 23825 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| | RTG | 5821 | 13078 | 47625 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2310 | 10083 | 27013 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| | RTG | 4618 | 16338 | 46616 | 0 | 0 | 0 |
| | 380C2F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| | 380C2F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| | 380C2F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| | RTG | 4615 | 13051 | 44291 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| | RTG | 5741 | 22871 | 62721 | 0 | 0 | 0 |
| | 380C2F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| | 380C2F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |
| | 380C2F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| | RTG | 5821 | 14067 | 48082 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| | RTG | 4618 | 14885 | 44009 | 0 | 0 | 0 |
| | 380C2F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| | 380C2F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| | 380C2F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|---|---|---|
| | RTG | 4615 | 12740 | 43998 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| | RTG | 5741 | 20496 | 58300 | 0 | 0 | 0 |
| | 380C2F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| | 380C2F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| | 380C2F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| | RTG | 5821 | 13782 | 47885 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| | RTG | 3462 | 8464 | 30559 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| | RTG | 3461 | 9426 | 34862 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| | RTG | 4584 | 11378 | 40839 | 0 | 0 | 0 |
| | 380C2F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| | 380C2F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| | 380C2F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| | RTG | 4665 | 10763 | 39849 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| | RTG | 3462 | 9426 | 31332 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |

| | | | | | | | |
|---|-----------|-------|--------|--------|---|---|---|
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| | 380C1F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| | RTG | 3461 | 9669 | 34903 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2292 | 7106 | 22039 | 0 | 0 | 0 |
| | 380C1F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| | 380C1F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| | 380C1F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 |
| | RTG | 4584 | 12944 | 42245 | 0 | 0 | 0 |
| | 380C2F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| | 380C2F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| 380C2F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2333 | 5580 | 19951 | 0 | 0 | 0 |
| | 380C1F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| | 380C1F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |
| | 380C1F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 |
| | RTG | 4665 | 10997 | 39856 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |
| 380C2F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1732 | 9514 | 24891 | 0 | 0 | 0 |
| | 380C1F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| | 380C1F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| | 380C1F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 |
| | RTG | 3463 | 14837 | 41017 | 0 | 0 | 0 |
| | 380C2F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| | 380C2F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| 380C2F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1730 | 5894 | 18735 | 0 | 0 | 0 |
| | 380C1F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| | 380C1F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| | 380C1F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 |
| | RTG | 3461 | 10834 | 36018 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| 380C2F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2294 | 14037 | 35649 | 0 | 0 | 0 |
| | 380C1F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| | 380C1F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| | 380C1F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 |
| | RTG | 4586 | 21630 | 58092 | 0 | 0 | 0 |
| | 380C2F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| | 380C2F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| 380C2F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2333 | 6432 | 20738 | 0 | 0 | 0 |
| | 380C1F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| | 380C1F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| | 380C1F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 |
| | RTG | 4665 | 12042 | 40526 | 0 | 0 | 0 |
| | 380C2F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| | 380C2F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| 380C2F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1732 | 8233 | 22192 | 0 | 0 | 0 |
| | 380C1F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| | 380C1F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| | 380C1F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 |
| | RTG | 3463 | 13205 | 37744 | 0 | 0 | 0 |
| | 380C2F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| | 380C2F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| 380C2F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|---|---|---|
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| | RTG | 3461 | 10484 | 35578 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| | RTG | 4586 | 19062 | 52951 | 0 | 0 | 0 |
| | 380C2F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| | 380C2F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| | 380C2F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |
| | RTG | 4665 | 11736 | 40250 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| | RTG | 0 | 0 | 0 | 4617 | 10675 | -38808 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| | RTG | 0 | 0 | 0 | 4615 | 11759 | -43567 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| | RTG | 0 | 0 | 0 | 5739 | 13494 | -48736 |
| | 380C2F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| | 380C2F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6444 | -23814 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| | RTG | 0 | 0 | 0 | 5821 | 12848 | -47634 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| | RTG | 0 | 0 | 0 | 4618 | 14885 | -44009 |
| | 380C2F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| | 380C2F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| | 380C2F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6684 | -22320 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| | RTG | 0 | 0 | 0 | 4615 | 12740 | -43998 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2871 | 12619 | -33641 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| | RTG | 0 | 0 | 0 | 5741 | 20496 | -58300 |
| | 380C2F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| | 380C2F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| | 380C2F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| | RTG | 0 | 0 | 0 | 5821 | 13782 | -47885 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2310 | 10083 | -27013 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| | RTG | 0 | 0 | 0 | 4618 | 16338 | -46616 |
| | 380C2F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| | 380C2F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| | 380C2F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6943 | -22647 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| | RTG | 0 | 0 | 0 | 4615 | 13051 | -44291 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2872 | 14481 | -37306 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 5741 | 22871 | -62721 |
| | 380C2F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| | 380C2F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| | 380C2F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7410 | -24390 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |
| | RTG | 0 | 0 | 0 | 5821 | 14067 | -48082 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 6123 | -20008 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| | RTG | 0 | 0 | 0 | 4617 | 11561 | -39298 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6079 | -21813 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| | RTG | 0 | 0 | 0 | 4615 | 11993 | -43577 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 8049 | -25556 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| | RTG | 0 | 0 | 0 | 5739 | 14950 | -49731 |
| | 380C2F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| | 380C2F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| | 380C2F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| | RTG | 0 | 0 | 0 | 5821 | 13078 | -47625 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| | RTG | 0 | 0 | 0 | 3462 | 8464 | -30559 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| | RTG | 0 | 0 | 0 | 3461 | 9426 | -34862 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |

| | | | | | | | |
|---|-----------|---|---|-------|-------|---------|---------|
| Permanent loads yg= 0.9 Wind angle: 0° | 380C1F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| | 380C1F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| | RTG | 0 | 0 | 0 | 4584 | 11378 | -40839 |
| | 380C2F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |
| | 380C2F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| | 380C2F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2333 | 5401 | -19923 |
| | 380C1F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |
| | 380C1F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| | 380C1F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 |
| | RTG | 0 | 0 | 0 | 4665 | 10763 | -39849 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| 380C2F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1732 | 8233 | -22192 |
| | 380C1F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| | 380C1F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| | 380C1F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 |
| | RTG | 0 | 0 | 0 | 3463 | 13205 | -37744 |
| | 380C2F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| | 380C2F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| 380C2F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1730 | 5597 | -18265 |
| | 380C1F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| | 380C1F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| | 380C1F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 |
| | RTG | 0 | 0 | 0 | 3461 | 10484 | -35578 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| 380C2F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2293 | 12077 | -31621 |
| | 380C1F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| | 380C1F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| | 380C1F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 |
| | RTG | 0 | 0 | 0 | 4586 | 19062 | -52951 |
| | 380C2F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| | 380C2F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| 380C2F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2333 | 6177 | -20428 |
| | 380C1F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| | 380C1F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| | 380C1F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 |
| | RTG | 0 | 0 | 0 | 4665 | 11736 | -40250 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| 380C2F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1732 | 9514 | -24891 |
| | 380C1F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| | 380C1F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| | 380C1F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 |
| | RTG | 0 | 0 | 0 | 3463 | 14837 | -41017 |
| | 380C2F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| | 380C2F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| 380C2F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1730 | 5894 | -18735 |
| | 380C1F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| | 380C1F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| | 380C1F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 |
| | RTG | 0 | 0 | 0 | 3461 | 10834 | -36018 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| 380C2F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 | |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| | RTG | 0 | 0 | 0 | 4586 | 21630 | -58092 |
| | 380C2F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| | 380C2F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |
| | 380C2F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| | RTG | 0 | 0 | 0 | 4665 | 12042 | -40526 |
| | 380C2F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| | 380C2F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| | RTG | 0 | 0 | 0 | 3462 | 9426 | -31332 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| | RTG | 0 | 0 | 0 | 3461 | 9669 | -34903 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |
| | RTG | 0 | 0 | 0 | 4584 | 12944 | -42245 |
| | 380C2F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| | 380C2F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| | 380C2F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |
| | RTG | 0 | 0 | 0 | 4665 | 10997 | -39856 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |

NWW6HK400UY

Loadcases for tower strength (Special limit state)

Appendix NWW6HK400UY / NL3

Ahead

Back

| Loadcase according to 50341-3-15 | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
|----------------------------------|-----------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| Att. Point | | | | | | | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| | RTG | 0 | 0 | 0 | 4617 | 10675 | -38808 |
| | 380C2F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| | 380C2F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| | 380C2F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| | RTG | 0 | 0 | 0 | 4615 | 11759 | -43567 |
| | 380C2F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| | 380C2F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| | 380C2F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| | RTG | 0 | 0 | 0 | 5739 | 13494 | -48736 |
| | 380C2F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| | 380C2F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| | 380C2F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6444 | -23814 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| | RTG | 0 | 0 | 0 | 5821 | 12848 | -47634 |
| | 380C2F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| | 380C2F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| | 380C2F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| | RTG | 0 | 0 | 0 | 4618 | 14885 | -44009 |
| | 380C2F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |
| | 380C2F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |
| | 380C2F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6684 | -22320 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| | RTG | 0 | 0 | 0 | 4615 | 12740 | -43998 |
| | 380C2F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| | 380C2F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| | 380C2F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2871 | 12619 | -33641 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| | RTG | 0 | 0 | 0 | 5741 | 20496 | -58300 |
| | 380C2F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| | 380C2F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| | 380C2F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |

| | | | | | | | |
|--|-----------|-----------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 45° | 380C1F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |
| | 380C1F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| | RTG | 0 | 0 | 0 | 5821 | 13782 | -47885 |
| | 380C2F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| | 380C2F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| | 380C2F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 |
| | NL3/1a | GW / opgw | 0 | 0 | 0 | 2310 | 10083 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| | 380C1F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| | 380C1F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| | RTG | 0 | 0 | 0 | 4618 | 16338 | -46616 |
| | 380C2F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| | 380C2F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| | 380C2F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6943 | -22647 |
| | 380C1F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| | 380C1F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| | 380C1F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| | RTG | 0 | 0 | 0 | 4615 | 13051 | -44291 |
| | 380C2F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| | 380C2F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| 380C2F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2872 | 14481 | -37306 |
| | 380C1F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| | 380C1F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| | 380C1F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |
| | RTG | 0 | 0 | 0 | 5741 | 22871 | -62721 |
| | 380C2F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| | 380C2F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| 380C2F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 | |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7410 | -24390 |
| | 380C1F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| | 380C1F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| | 380C1F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |
| | RTG | 0 | 0 | 0 | 5821 | 14067 | -48082 |
| | 380C2F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| | 380C2F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| 380C2F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 6123 | -20008 |
| | 380C1F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| | 380C1F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| | 380C1F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| | RTG | 0 | 0 | 0 | 4617 | 11561 | -39298 |
| | 380C2F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| | 380C2F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| 380C2F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6079 | -21813 |
| | 380C1F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| | 380C1F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| | 380C1F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| | RTG | 0 | 0 | 0 | 4615 | 11993 | -43577 |
| | 380C2F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| | 380C2F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| 380C2F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 8049 | -25556 |
| | 380C1F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| | 380C1F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| | 380C1F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| | RTG | 0 | 0 | 0 | 5739 | 14950 | -49731 |
| | 380C2F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| | 380C2F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| 380C2F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| | RTG | 0 | 0 | 0 | 5821 | 13078 | -47625 |
| | 380C2F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| | 380C2F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| | 380C2F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| | RTG | 0 | 0 | 0 | 3462 | 8464 | -30559 |
| | 380C2F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |
| | 380C2F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| | 380C2F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| | RTG | 0 | 0 | 0 | 3461 | 9426 | -34862 |
| | 380C2F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| | 380C2F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |
| | 380C2F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| | RTG | 0 | 0 | 0 | 4584 | 11378 | -40839 |
| | 380C2F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| | 380C2F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| | 380C2F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 5401 | -19923 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 |
| | RTG | 0 | 0 | 0 | 4665 | 10763 | -39849 |
| | 380C2F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| | 380C2F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| | 380C2F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1732 | 8233 | -22192 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 |
| | RTG | 0 | 0 | 0 | 3463 | 13205 | -37744 |
| | 380C2F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| | 380C2F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| | 380C2F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 5597 | -18265 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 |
| | RTG | 0 | 0 | 0 | 3461 | 10484 | -35578 |
| | 380C2F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| | 380C2F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| | 380C2F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2293 | 12077 | -31621 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 |
| | RTG | 0 | 0 | 0 | 4586 | 19062 | -52951 |
| | 380C2F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| | 380C2F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 6177 | -20428 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 |
| | RTG | 0 | 0 | 0 | 4665 | 11736 | -40250 |
| | 380C2F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| | 380C2F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| | 380C2F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1732 | 9514 | -24891 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 |
| | RTG | 0 | 0 | 0 | 3463 | 14837 | -41017 |
| | 380C2F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| | 380C2F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| | 380C2F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 5894 | -18735 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 |
| | RTG | 0 | 0 | 0 | 3461 | 10834 | -36018 |
| | 380C2F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| | 380C2F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| | 380C2F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| | RTG | 0 | 0 | 0 | 4586 | 21630 | -58092 |
| | 380C2F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| | 380C2F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| | 380C2F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| | RTG | 0 | 0 | 0 | 4665 | 12042 | -40526 |
| | 380C2F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| | 380C2F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| | 380C2F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| | RTG | 0 | 0 | 0 | 3462 | 9426 | -31332 |
| | 380C2F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| | 380C2F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| | 380C2F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| | RTG | 0 | 0 | 0 | 3461 | 9669 | -34903 |
| | 380C2F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| | 380C2F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |
| | 380C2F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 4584 | 12944 | -42245 |
| | 380C2F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| | 380C2F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| | 380C2F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |
| | RTG | 0 | 0 | 0 | 4665 | 10997 | -39856 |
| | 380C2F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| | 380C2F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| | 380C2F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| | RTG | 4617 | 10675 | 38808 | 4617 | 10675 | -38808 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| | RTG | 4615 | 11759 | 43567 | 4615 | 11759 | -43567 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| NL3/3 | GW / opgw | 2870 | 6860 | 24402 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 |
| | RTG | 5739 | 13494 | 48736 | 5739 | 13494 | -48736 |
| | 380C2F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |
| | 380C2F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| | 380C2F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| NL3/4 | GW / opgw | 2910 | 6444 | 23814 | 2910 | 6444 | -23814 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 |
| | RTG | 5821 | 12848 | 47634 | 5821 | 12848 | -47634 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| NL3/1a | GW / opgw | 2309 | 6123 | 20008 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |

| | | | | | | | |
|--|-----------|-----------|-------|--------|-------|-------|---------|
| Permanent loads yg= 1.2 Wind angle: 45° | 380C1F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |
| | 380C1F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 |
| | RTG | 4617 | 11561 | 39298 | 4618 | 14885 | -44009 |
| | 380C2F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| | 380C2F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| | 380C2F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| | NL3/1b | GW / opgw | 2308 | 6079 | 21813 | 2308 | 6684 |
| Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| | 380C1F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| | 380C1F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 |
| | RTG | 4615 | 11993 | 43577 | 4615 | 12740 | -43998 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| NL3/3 | GW / opgw | 2870 | 8049 | 25556 | 2871 | 12619 | -33641 |
| Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| | 380C1F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| | 380C1F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 |
| | RTG | 5739 | 14950 | 49731 | 5741 | 20496 | -58300 |
| | 380C2F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| | 380C2F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| | 380C2F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| NL3/4 | GW / opgw | 2910 | 6618 | 23825 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| | 380C1F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| | 380C1F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 |
| | RTG | 5821 | 13078 | 47625 | 5821 | 13782 | -47885 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| NL3/1a | GW / opgw | 2310 | 10083 | 27013 | 2310 | 10083 | -27013 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| | 380C1F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| | 380C1F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 |
| | RTG | 4618 | 16338 | 46616 | 4618 | 16338 | -46616 |
| | 380C2F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| | 380C2F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| | 380C2F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 2308 | 6943 | -22647 |
| Wind, -20°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| | 380C1F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| | 380C1F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 |
| | RTG | 4615 | 13051 | 44291 | 4615 | 13051 | -44291 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 2872 | 14481 | -37306 |
| Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| | 380C1F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| | 380C1F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 |
| | RTG | 5741 | 22871 | 62721 | 5741 | 22871 | -62721 |
| | 380C2F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| | 380C2F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| | 380C2F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 2910 | 7410 | -24390 |
| Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| | 380C1F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| | 380C1F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 |
| | RTG | 5821 | 14067 | 48082 | 5821 | 14067 | -48082 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 2309 | 6123 | -20008 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 |
| | RTG | 4618 | 14885 | 44009 | 4617 | 11561 | -39298 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 2308 | 6079 | -21813 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 |
| | RTG | 4615 | 12740 | 43998 | 4615 | 11993 | -43577 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 2870 | 8049 | -25556 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 |
| | RTG | 5741 | 20496 | 58300 | 5739 | 14950 | -49731 |
| | 380C2F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| | 380C2F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| | 380C2F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| | RTG | 5821 | 13782 | 47885 | 5821 | 13078 | -47625 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| | RTG | 3462 | 8464 | 30559 | 3462 | 8464 | -30559 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| | RTG | 3461 | 9426 | 34862 | 3461 | 9426 | -34862 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| | RTG | 4584 | 11378 | 40839 | 4584 | 11378 | -40839 |
| | 380C2F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |
| | 380C2F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| | 380C2F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 2333 | 5401 | -19923 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| | RTG | 4665 | 10763 | 39849 | 4665 | 10763 | -39849 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 1732 | 8233 | -22192 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| | RTG | 3462 | 9426 | 31332 | 3463 | 13205 | -37744 |
| | 380C2F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| | 380C2F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| | 380C2F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 1730 | 5597 | -18265 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| Wind angle: 45° | 380C1F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| | RTG | 3461 | 9669 | 34903 | 3461 | 10484 | -35578 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 |
| NL3/3 | GW / opgw | 2292 | 7106 | 22039 | 2293 | 12077 | -31621 |
| Wind, -5°C | 380C1F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |
| Permanent loads yg= 0.9 | 380C1F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| Wind angle: 45° | 380C1F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| | RTG | 4584 | 12944 | 42245 | 4586 | 19062 | -52951 |
| | 380C2F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| | 380C2F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| | 380C2F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 |
| NL3/4 | GW / opgw | 2333 | 5580 | 19951 | 2333 | 6177 | -20428 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| Wind angle: 45° | 380C1F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| | RTG | 4665 | 10997 | 39856 | 4665 | 11736 | -40250 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 |
| NL3/1a | GW / opgw | 1732 | 9514 | 24891 | 1732 | 9514 | -24891 |
| Wind, 10°C | 380C1F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| Permanent loads yg= 0.9 | 380C1F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| Wind angle: 90° | 380C1F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| | RTG | 3463 | 14837 | 41017 | 3463 | 14837 | -41017 |
| | 380C2F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| | 380C2F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| | 380C2F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 |
| NL3/1b | GW / opgw | 1730 | 5894 | 18735 | 1730 | 5894 | -18735 |
| Wind, -20°C | 380C1F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| Wind angle: 90° | 380C1F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| | RTG | 3461 | 10834 | 36018 | 3461 | 10834 | -36018 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 |
| NL3/3 | GW / opgw | 2294 | 14037 | 35649 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| Wind angle: 90° | 380C1F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| | RTG | 4586 | 21630 | 58092 | 4586 | 21630 | -58092 |
| | 380C2F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| | 380C2F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |
| | 380C2F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 2333 | 6432 | 20738 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4665 | 12042 | 40526 | 4665 | 12042 | -40526 |
| | 380C2F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| | 380C2F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 1732 | 8233 | 22192 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| | RTG | 3463 | 13205 | 37744 | 3462 | 9426 | -31332 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| | RTG | 3461 | 10484 | 35578 | 3461 | 9669 | -34903 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| | RTG | 4586 | 19062 | 52951 | 4584 | 12944 | -42245 |
| | 380C2F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| | 380C2F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| | 380C2F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |
| | RTG | 4665 | 11736 | 40250 | 4665 | 10997 | -39856 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| | RTG | 4617 | 10675 | 38808 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| | 380C2F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| | 380C2F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |

| | | | | | | | |
|---|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 0° | 380C1F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| | 380C1F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| | RTG | 4615 | 11759 | 43567 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| | 380C2F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| | 380C2F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2870 | 6860 | 24402 | 0 | 0 | 0 |
| | 380C1F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| | 380C1F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| | 380C1F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| | RTG | 5739 | 13494 | 48736 | 0 | 0 | 0 |
| | 380C2F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| | 380C2F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| 380C2F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2910 | 6444 | 23814 | 0 | 0 | 0 |
| | 380C1F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| | 380C1F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| | 380C1F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| | RTG | 5821 | 12848 | 47634 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| | 380C2F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| 380C2F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 | |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2309 | 6123 | 20008 | 0 | 0 | 0 |
| | 380C1F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| | 380C1F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| | 380C1F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| | RTG | 4617 | 11561 | 39298 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |
| | 380C2F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |
| 380C2F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 | |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2308 | 6079 | 21813 | 0 | 0 | 0 |
| | 380C1F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |
| | 380C1F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| | 380C1F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| | RTG | 4615 | 11993 | 43577 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| | 380C2F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| 380C2F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 | |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2870 | 8049 | 25556 | 0 | 0 | 0 |
| | 380C1F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| | 380C1F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| | 380C1F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| | RTG | 5739 | 14950 | 49731 | 0 | 0 | 0 |
| | 380C2F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| | 380C2F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| 380C2F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2910 | 6618 | 23825 | 0 | 0 | 0 |
| | 380C1F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| | 380C1F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| | 380C1F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| | RTG | 5821 | 13078 | 47625 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| | 380C2F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| 380C2F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 | |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | GW / opgw | 2310 | 10083 | 27013 | 0 | 0 | 0 |
| | 380C1F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| | 380C1F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| | 380C1F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| | RTG | 4618 | 16338 | 46616 | 0 | 0 | 0 |
| | 380C2F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| | 380C2F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| 380C2F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| | RTG | 4615 | 13051 | 44291 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| | 380C2F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| | 380C2F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| | RTG | 5741 | 22871 | 62721 | 0 | 0 | 0 |
| | 380C2F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| | 380C2F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| | 380C2F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| | RTG | 5821 | 14067 | 48082 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| | 380C2F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| | 380C2F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 |
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| | RTG | 4618 | 14885 | 44009 | 0 | 0 | 0 |
| | 380C2F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| | 380C2F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| | 380C2F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |
| | RTG | 4615 | 12740 | 43998 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| | 380C2F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| | 380C2F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| | RTG | 5741 | 20496 | 58300 | 0 | 0 | 0 |
| | 380C2F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| | 380C2F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| | 380C2F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| | RTG | 5821 | 13782 | 47885 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| | 380C2F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| | 380C2F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| | RTG | 3462 | 8464 | 30559 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| | 380C2F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| | RTG | 3461 | 9426 | 34862 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| | 380C2F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |
| | 380C2F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| | RTG | 4584 | 11378 | 40839 | 0 | 0 | 0 |
| | 380C2F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| | 380C2F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| | 380C2F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| | RTG | 4665 | 10763 | 39849 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| | 380C2F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| | 380C2F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| | RTG | 3462 | 9426 | 31332 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| | 380C2F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| | 380C2F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| | RTG | 3461 | 9669 | 34903 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| | 380C2F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| | 380C2F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| NL3/3 | GW / opgw | 2292 | 7106 | 22039 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 |
| | RTG | 4584 | 12944 | 42245 | 0 | 0 | 0 |
| | 380C2F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |
| | 380C2F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| | 380C2F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| NL3/4 | GW / opgw | 2333 | 5580 | 19951 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 |
| | RTG | 4665 | 10997 | 39856 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| | 380C2F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| | 380C2F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| NL3/1a | GW / opgw | 1732 | 9514 | 24891 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3463 | 14837 | 41017 | 0 | 0 | 0 |
| | 380C2F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| | 380C2F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| | 380C2F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| NL3/1b | GW / opgw | 1730 | 5894 | 18735 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 |
| | RTG | 3461 | 10834 | 36018 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| | 380C2F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| | 380C2F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| NL3/3 | GW / opgw | 2294 | 14037 | 35649 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 |
| | RTG | 4586 | 21630 | 58092 | 0 | 0 | 0 |
| | 380C2F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| | 380C2F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| | 380C2F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 2333 | 6432 | 20738 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 |
| | RTG | 4665 | 12042 | 40526 | 0 | 0 | 0 |
| | 380C2F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| | 380C2F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| | 380C2F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 1732 | 8233 | 22192 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 |
| | RTG | 3463 | 13205 | 37744 | 0 | 0 | 0 |
| | 380C2F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| | 380C2F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| | 380C2F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| | RTG | 3461 | 10484 | 35578 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| | 380C2F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |
| | 380C2F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| | RTG | 4586 | 19062 | 52951 | 0 | 0 | 0 |
| | 380C2F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| | 380C2F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| | 380C2F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |
| | RTG | 4665 | 11736 | 40250 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| | 380C2F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| | 380C2F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |

NWW6HK400UY

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| | RTG | 4617 | 10675 | 38808 | 4617 | 10675 | -38808 |
| | 380C2F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| | RTG | 4615 | 11759 | 43567 | 4615 | 11759 | -43567 |
| | 380C2F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 6860 | 24402 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 |
| | RTG | 5739 | 13494 | 48736 | 5739 | 13494 | -48736 |
| | 380C2F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| | 380C2F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| | 380C2F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6444 | 23814 | 2910 | 6444 | -23814 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 |
| | RTG | 5821 | 12848 | 47634 | 5821 | 12848 | -47634 |
| | 380C2F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 6123 | 20008 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |
| Wind angle: 45° | 380C1F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 |
| | RTG | 4617 | 11561 | 39298 | 4618 | 14885 | -44009 |
| | 380C2F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6079 | 21813 | 2308 | 6684 | -22320 |
| Wind, -20°C | 380C1F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| Wind angle: 45° | 380C1F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 |
| | RTG | 4615 | 11993 | 43577 | 4615 | 12740 | -43998 |
| | 380C2F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 8049 | 25556 | 2871 | 12619 | -33641 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind, -5°C | 380C1F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| Permanent loads yg= 1.2 | 380C1F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| Wind angle: 45° | 380C1F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 |
| | RTG | 5739 | 14950 | 49731 | 5741 | 20496 | -58300 |
| | 380C2F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| | 380C2F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| | 380C2F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6618 | 23825 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| Wind angle: 45° | 380C1F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 |
| | RTG | 5821 | 13078 | 47625 | 5821 | 13782 | -47885 |
| | 380C2F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2310 | 10083 | 27013 | 2310 | 10083 | -27013 |
| Wind, 10°C | 380C1F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| Permanent loads yg= 1.2 | 380C1F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| Wind angle: 90° | 380C1F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 |
| | RTG | 4618 | 16338 | 46616 | 4618 | 16338 | -46616 |
| | 380C2F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| | 380C2F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| | 380C2F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 2308 | 6943 | -22647 |
| Wind, -20°C | 380C1F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| Wind angle: 90° | 380C1F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 |
| | RTG | 4615 | 13051 | 44291 | 4615 | 13051 | -44291 |
| | 380C2F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 2872 | 14481 | -37306 |
| Wind, -5°C | 380C1F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| Permanent loads yg= 1.2 | 380C1F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| Wind angle: 90° | 380C1F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 |
| | RTG | 5741 | 22871 | 62721 | 5741 | 22871 | -62721 |
| | 380C2F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| | 380C2F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |
| | 380C2F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 2910 | 7410 | -24390 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| Wind angle: 90° | 380C1F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 |
| | RTG | 5821 | 14067 | 48082 | 5821 | 14067 | -48082 |
| | 380C2F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 2309 | 6123 | -20008 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 |
| | RTG | 4618 | 14885 | 44009 | 4617 | 11561 | -39298 |
| | 380C2F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| | 380C2F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| | 380C2F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 2308 | 6079 | -21813 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 |
| | RTG | 4615 | 12740 | 43998 | 4615 | 11993 | -43577 |
| | 380C2F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 2870 | 8049 | -25556 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 |
| | RTG | 5741 | 20496 | 58300 | 5739 | 14950 | -49731 |
| | 380C2F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| | 380C2F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| | 380C2F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| | RTG | 5821 | 13782 | 47885 | 5821 | 13078 | -47625 |
| | 380C2F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| | RTG | 3462 | 8464 | 30559 | 3462 | 8464 | -30559 |
| | 380C2F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| | RTG | 3461 | 9426 | 34862 | 3461 | 9426 | -34862 |
| | 380C2F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| | RTG | 4584 | 11378 | 40839 | 4584 | 11378 | -40839 |
| | 380C2F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| | 380C2F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| | 380C2F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 2333 | 5401 | -19923 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| | RTG | 4665 | 10763 | 39849 | 4665 | 10763 | -39849 |
| | 380C2F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 1732 | 8233 | -22192 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| | RTG | 3462 | 9426 | 31332 | 3463 | 13205 | -37744 |
| | 380C2F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 1730 | 5597 | -18265 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| Wind angle: 45° | 380C1F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| | RTG | 3461 | 9669 | 34903 | 3461 | 10484 | -35578 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2292 | 7106 | 22039 | 2293 | 12077 | -31621 |
| Wind, -5°C | 380C1F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |
| Permanent loads yg= 0.9 | 380C1F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| Wind angle: 45° | 380C1F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| | RTG | 4584 | 12944 | 42245 | 4586 | 19062 | -52951 |
| | 380C2F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| | 380C2F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| | 380C2F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 5580 | 19951 | 2333 | 6177 | -20428 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| Wind angle: 45° | 380C1F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| | RTG | 4665 | 10997 | 39856 | 4665 | 11736 | -40250 |
| | 380C2F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1732 | 9514 | 24891 | 1732 | 9514 | -24891 |
| Wind, 10°C | 380C1F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| Permanent loads yg= 0.9 | 380C1F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| Wind angle: 90° | 380C1F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| | RTG | 3463 | 14837 | 41017 | 3463 | 14837 | -41017 |
| | 380C2F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| | 380C2F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| | 380C2F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 5894 | 18735 | 1730 | 5894 | -18735 |
| Wind, -20°C | 380C1F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| Wind angle: 90° | 380C1F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| | RTG | 3461 | 10834 | 36018 | 3461 | 10834 | -36018 |
| | 380C2F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2294 | 14037 | 35649 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| Wind angle: 90° | 380C1F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| | RTG | 4586 | 21630 | 58092 | 4586 | 21630 | -58092 |
| | 380C2F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| | 380C2F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| | 380C2F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 6432 | 20738 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |
| | RTG | 4665 | 12042 | 40526 | 4665 | 12042 | -40526 |
| | 380C2F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| | 380C2F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1732 | 8233 | 22192 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| | RTG | 3463 | 13205 | 37744 | 3462 | 9426 | -31332 |
| | 380C2F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| | 380C2F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| | 380C2F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| | RTG | 3461 | 10484 | 35578 | 3461 | 9669 | -34903 |
| | 380C2F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| | RTG | 4586 | 19062 | 52951 | 4584 | 12944 | -42245 |
| | 380C2F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| | 380C2F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| | 380C2F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |
| | RTG | 4665 | 11736 | 40250 | 4665 | 10997 | -39856 |
| | 380C2F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| | RTG | 0 | 0 | 0 | 4617 | 10675 | -38808 |
| | 380C2F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| | RTG | 0 | 0 | 0 | 4615 | 11759 | -43567 |
| | 380C2F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| | RTG | 0 | 0 | 0 | 5739 | 13494 | -48736 |
| | 380C2F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| | 380C2F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| | 380C2F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6444 | -23814 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| | RTG | 0 | 0 | 0 | 5821 | 12848 | -47634 |
| | 380C2F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| | RTG | 0 | 0 | 0 | 4618 | 14885 | -44009 |
| | 380C2F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| | 380C2F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| | 380C2F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6684 | -22320 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| | RTG | 0 | 0 | 0 | 4615 | 12740 | -43998 |
| | 380C2F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2871 | 12619 | -33641 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| | RTG | 0 | 0 | 0 | 5741 | 20496 | -58300 |
| | 380C2F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| | 380C2F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| | 380C2F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| | RTG | 0 | 0 | 0 | 5821 | 13782 | -47885 |
| | 380C2F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2310 | 10083 | -27013 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| | RTG | 0 | 0 | 0 | 4618 | 16338 | -46616 |
| | 380C2F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| | 380C2F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| | 380C2F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6943 | -22647 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| | RTG | 0 | 0 | 0 | 4615 | 13051 | -44291 |
| | 380C2F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2872 | 14481 | -37306 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |
| | RTG | 0 | 0 | 0 | 5741 | 22871 | -62721 |
| | 380C2F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| | 380C2F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 7410 | -24390 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |
| | RTG | 0 | 0 | 0 | 5821 | 14067 | -48082 |
| | 380C2F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2309 | 6123 | -20008 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| | RTG | 0 | 0 | 0 | 4617 | 11561 | -39298 |
| | 380C2F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| | 380C2F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| | 380C2F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2308 | 6079 | -21813 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| | RTG | 0 | 0 | 0 | 4615 | 11993 | -43577 |
| | 380C2F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| | 380C2F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |
| | 380C2F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2870 | 8049 | -25556 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| | RTG | 0 | 0 | 0 | 5739 | 14950 | -49731 |
| | 380C2F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| | 380C2F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| | 380C2F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| | RTG | 0 | 0 | 0 | 5821 | 13078 | -47625 |
| | 380C2F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| | 380C2F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| | 380C2F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| | RTG | 0 | 0 | 0 | 3462 | 8464 | -30559 |
| | 380C2F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| | RTG | 0 | 0 | 0 | 3461 | 9426 | -34862 |
| | 380C2F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| | RTG | 0 | 0 | 0 | 4584 | 11378 | -40839 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| | 380C2F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| | 380C2F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 5401 | -19923 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 |
| | RTG | 0 | 0 | 0 | 4665 | 10763 | -39849 |
| | 380C2F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1732 | 8233 | -22192 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 |
| | RTG | 0 | 0 | 0 | 3463 | 13205 | -37744 |
| | 380C2F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| | 380C2F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| | 380C2F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 5597 | -18265 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 |
| | RTG | 0 | 0 | 0 | 3461 | 10484 | -35578 |
| | 380C2F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2293 | 12077 | -31621 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 |
| | RTG | 0 | 0 | 0 | 4586 | 19062 | -52951 |
| | 380C2F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| | 380C2F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| | 380C2F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 6177 | -20428 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 |
| | RTG | 0 | 0 | 0 | 4665 | 11736 | -40250 |
| | 380C2F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1732 | 9514 | -24891 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 |
| | RTG | 0 | 0 | 0 | 3463 | 14837 | -41017 |
| | 380C2F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| | 380C2F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| | 380C2F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 5894 | -18735 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 |
| | RTG | 0 | 0 | 0 | 3461 | 10834 | -36018 |
| | 380C2F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| | RTG | 0 | 0 | 0 | 4586 | 21630 | -58092 |
| | 380C2F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| | 380C2F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| | 380C2F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| | RTG | 0 | 0 | 0 | 4665 | 12042 | -40526 |
| | 380C2F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| | 380C2F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| | RTG | 0 | 0 | 0 | 3462 | 9426 | -31332 |
| | 380C2F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| | 380C2F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| | 380C2F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| | RTG | 0 | 0 | 0 | 3461 | 9669 | -34903 |
| | 380C2F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| | 380C2F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| | 380C2F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |
| | RTG | 0 | 0 | 0 | 4584 | 12944 | -42245 |
| | 380C2F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| | 380C2F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| | 380C2F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |
| | RTG | 0 | 0 | 0 | 4665 | 10997 | -39856 |
| | 380C2F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| | 380C2F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| | 380C2F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 0 | 0 | 0 |
| | RTG | 4617 | 10675 | 38808 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 39412 | -142841 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 39310 | -142826 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44285 | 164082 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17036 | 44248 | 164087 | 0 | 0 | 0 |
| | RTG | 4615 | 11759 | 43567 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 44315 | -164078 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 44285 | -164082 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 44248 | -164087 |
| NL3/3 | GW / opgw | 2870 | 6860 | 24402 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19780 | 47260 | 171164 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19780 | 47134 | 171144 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 19780 | 46973 | 171124 | 0 | 0 | 0 |
| | RTG | 5739 | 13494 | 48736 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19780 | 47260 | -171164 |
| | 380C2F2 | 0 | 0 | 0 | 19780 | 47134 | -171144 |
| | 380C2F3 | 0 | 0 | 0 | 19780 | 46973 | -171124 |
| NL3/4 | GW / opgw | 2910 | 6444 | 23814 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 43758 | 162001 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 43729 | 162006 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 19451 | 43692 | 162012 | 0 | 0 | 0 |
| | RTG | 5821 | 12848 | 47634 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 43758 | -162001 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 43729 | -162006 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 43692 | -162012 |
| NL3/1a | GW / opgw | 2309 | 6123 | 20008 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17045 | 43128 | 145103 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 42643 | 144661 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17045 | 42036 | 144159 | 0 | 0 | 0 |
| | RTG | 4617 | 11561 | 39298 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17048 | 57176 | -165814 |
| | 380C2F2 | 0 | 0 | 0 | 17048 | 55111 | -162219 |
| | 380C2F3 | 0 | 0 | 0 | 17047 | 52542 | -157920 |
| NL3/1b | GW / opgw | 2308 | 6079 | 21813 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 45289 | 164145 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 45169 | 164119 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17036 | 45017 | 164092 | 0 | 0 | 0 |
| | RTG | 4615 | 11993 | 43577 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 48422 | -166088 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 47978 | -165695 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 47424 | -165250 |
| NL3/3 | GW / opgw | 2870 | 8049 | 25556 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19781 | 51853 | 174065 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19781 | 51251 | 173501 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 19781 | 50501 | 172861 | 0 | 0 | 0 |
| | RTG | 5739 | 14950 | 49731 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19785 | 69214 | -199938 |
| | 380C2F2 | 0 | 0 | 0 | 19784 | 66672 | -195499 |
| | 380C2F3 | 0 | 0 | 0 | 19784 | 63505 | -190166 |
| NL3/4 | GW / opgw | 2910 | 6618 | 23825 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 44718 | 162012 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 44601 | 161995 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 19451 | 44451 | 161981 | 0 | 0 | 0 |
| | RTG | 5821 | 13078 | 47625 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 47726 | -163482 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 47305 | -163175 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 0 | 0 | 0 | 19451 | 46777 | -162831 |
| NL3/1a | GW / opgw | 2310 | 10083 | 27013 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17050 | 63265 | 176927 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17049 | 60540 | 171875 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17048 | 57134 | 165741 | 0 | 0 | 0 |
| | RTG | 4618 | 16338 | 46616 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17050 | 63265 | -176927 |
| | 380C2F2 | 0 | 0 | 0 | 17049 | 60540 | -171875 |
| | 380C2F3 | 0 | 0 | 0 | 17048 | 57134 | -165741 |
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 49733 | 167412 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49145 | 166790 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17036 | 48413 | 166079 | 0 | 0 | 0 |
| | RTG | 4615 | 13051 | 44291 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 49733 | -167412 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 49145 | -166790 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 48413 | -166079 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19787 | 76682 | 213558 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19786 | 73345 | 207384 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19785 | 69163 | 199848 | 0 | 0 | 0 |
| | RTG | 5741 | 22871 | 62721 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19787 | 76682 | -213558 |
| | 380C2F2 | 0 | 0 | 0 | 19786 | 73345 | -207384 |
| | 380C2F3 | 0 | 0 | 0 | 19785 | 69163 | -199848 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 48964 | 164530 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 48410 | 164036 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 19451 | 47718 | 163476 | 0 | 0 | 0 |
| | RTG | 5821 | 14067 | 48082 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19451 | 48964 | -164530 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 48410 | -164036 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 47718 | -163476 |
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 0 | 0 | 0 |
| | RTG | 4618 | 14885 | 44009 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17045 | 43128 | -145103 |
| | 380C2F2 | 0 | 0 | 0 | 17045 | 42643 | -144661 |
| | 380C2F3 | 0 | 0 | 0 | 17045 | 42036 | -144159 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 0 | 0 | 0 |
| | RTG | 4615 | 12740 | 43998 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17036 | 45289 | -164145 |
| | 380C2F2 | 0 | 0 | 0 | 17036 | 45169 | -164119 |
| | 380C2F3 | 0 | 0 | 0 | 17036 | 45017 | -164092 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 0 | 0 | 0 |
| | RTG | 5741 | 20496 | 58300 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 19781 | 51853 | -174065 |
| | 380C2F2 | 0 | 0 | 0 | 19781 | 51251 | -173501 |
| | 380C2F3 | 0 | 0 | 0 | 19781 | 50501 | -172861 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 0 | 0 | 0 |
| | RTG | 5821 | 13782 | 47885 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 0 | 0 | 0 | 19451 | 44718 | -162012 |
| | 380C2F2 | 0 | 0 | 0 | 19451 | 44601 | -161995 |
| | 380C2F3 | 0 | 0 | 0 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 0 | 0 | 0 |
| | RTG | 3462 | 8464 | 30559 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 31428 | -113043 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 31321 | -113011 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 0 | 0 | 0 |
| | RTG | 3461 | 9426 | 34862 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 35890 | -132638 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 35860 | -132639 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 0 | 0 | 0 |
| | RTG | 4584 | 11378 | 40839 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15516 | 39452 | -142027 |
| | 380C2F2 | 0 | 0 | 0 | 15516 | 39321 | -141988 |
| | 380C2F3 | 0 | 0 | 0 | 15516 | 39155 | -141948 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 0 | 0 | 0 |
| | RTG | 4665 | 10763 | 39849 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36001 | -133052 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 35972 | -133055 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 35934 | -133060 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 0 | 0 | 0 |
| | RTG | 3462 | 9426 | 31332 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12784 | 51441 | -144418 |
| | 380C2F2 | 0 | 0 | 0 | 12784 | 49114 | -139847 |
| | 380C2F3 | 0 | 0 | 0 | 12783 | 46203 | -134270 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 36775 | 132794 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 12774 | 36615 | 132739 | 0 | 0 | 0 |
| | RTG | 3461 | 9669 | 34903 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 40341 | -135933 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 39843 | -135336 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 39224 | -134650 |
| NL3/3 | GW / opgw | 2292 | 7106 | 22039 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15517 | 44409 | 146289 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15517 | 43746 | 145495 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 15517 | 42923 | 144582 | 0 | 0 | 0 |
| | RTG | 4584 | 12944 | 42245 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15521 | 63751 | -179558 |
| | 380C2F2 | 0 | 0 | 0 | 15520 | 60943 | -174127 |
| | 380C2F3 | 0 | 0 | 0 | 15520 | 57425 | -167484 |
| NL3/4 | GW / opgw | 2333 | 5580 | 19951 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36986 | 133155 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 36864 | 133123 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: 45° | 380C1F3 | 15186 | 36710 | 133089 | 0 | 0 | 0 |
| | RTG | 4665 | 10997 | 39856 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 40200 | -135396 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 39741 | -134949 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 39170 | -134442 |
| NL3/1a | GW / opgw | 1732 | 9514 | 24891 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12785 | 58223 | 158117 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12785 | 55202 | 151962 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 12784 | 51394 | 144326 | 0 | 0 | 0 |
| | RTG | 3463 | 14837 | 41017 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12785 | 58223 | -158117 |
| | 380C2F2 | 0 | 0 | 0 | 12785 | 55202 | -151962 |
| | 380C2F3 | 0 | 0 | 0 | 12784 | 51394 | -144326 |
| NL3/1b | GW / opgw | 1730 | 5894 | 18735 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 41828 | 137912 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41159 | 136989 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 12774 | 40331 | 135921 | 0 | 0 | 0 |
| | RTG | 3461 | 10834 | 36018 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 41828 | -137912 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 41159 | -136989 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 40331 | -135921 |
| NL3/3 | GW / opgw | 2294 | 14037 | 35649 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15523 | 71916 | 195779 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15522 | 68283 | 188500 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 15521 | 63694 | 179448 | 0 | 0 | 0 |
| | RTG | 4586 | 21630 | 58092 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15523 | 71916 | -195779 |
| | 380C2F2 | 0 | 0 | 0 | 15522 | 68283 | -188500 |
| | 380C2F3 | 0 | 0 | 0 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 2333 | 6432 | 20738 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 15187 | 41557 | 136892 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15187 | 40948 | 136190 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 15186 | 40190 | 135386 | 0 | 0 | 0 |
| | RTG | 4665 | 12042 | 40526 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15187 | 41557 | -136892 |
| | 380C2F2 | 0 | 0 | 0 | 15187 | 40948 | -136190 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 1732 | 8233 | 22192 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 12784 | 51441 | 144418 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12784 | 49114 | 139847 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 12783 | 46203 | 134270 | 0 | 0 | 0 |
| | RTG | 3463 | 13205 | 37744 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12781 | 35485 | -116580 |
| | 380C2F2 | 0 | 0 | 0 | 12781 | 34941 | -115921 |
| | 380C2F3 | 0 | 0 | 0 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 0 | 0 | 0 |
| | RTG | 3461 | 10484 | 35578 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 12774 | 36902 | -132845 |
| | 380C2F2 | 0 | 0 | 0 | 12774 | 36775 | -132794 |
| | 380C2F3 | 0 | 0 | 0 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 0 | 0 | 0 |
| | RTG | 4586 | 19062 | 52951 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15517 | 44409 | -146289 |
| | 380C2F2 | 0 | 0 | 0 | 15517 | 43746 | -145495 |
| | 380C2F3 | 0 | 0 | 0 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|---------|-------|-------|--------|-------|-------|---------|
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 0 | 0 | 0 |
| | RTG | 4665 | 11736 | 40250 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 15186 | 36986 | -133155 |
| | 380C2F2 | 0 | 0 | 0 | 15186 | 36864 | -133123 |
| | 380C2F3 | 0 | 0 | 0 | 15186 | 36710 | -133089 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| | 380C2F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| | 380C2F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| | 380C2F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| | 380C2F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| | 380C2F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| | 380C2F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| | 380C2F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| | 380C2F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |
| | 380C2F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| | 380C2F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| | 380C2F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| | 380C2F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| | 380C2F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| | 380C2F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| | 380C2F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| | 380C2F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| | 380C2F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| | 380C2F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| | 380C2F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| | 380C2F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| | 380C2F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| | 380C2F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| | 380C2F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| | 380C2F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| | 380C2F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| | 380C2F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| | 380C2F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| | 380C2F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| | 380C2F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| | 380C2F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| | 380C2F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |
| | 380C2F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| | 380C2F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| | 380C2F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |
| | 380C2F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| | 380C2F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| | 380C2F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| | 380C2F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| | 380C2F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| | 380C2F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| | 380C2F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| | 380C2F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| | 380C2F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |
| | 380C2F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| | 380C2F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| | 380C2F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| | 380C2F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| | 380C2F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| | 380C2F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| | 380C2F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| | 380C2F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| | 380C2F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| | 380C2F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| | 380C2F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| | 380C2F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| | 380C2F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| | 380C2F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| | 380C2F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |
| | 380C2F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| | 380C2F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| | 380C2F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| | 380C2F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| | 380C2F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |

NWW6HK400UY

Appendix NWW6HK400UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2309 | 5407 | 19419 | 2309 | 5407 | -19419 |
| Wind, 10°C | 380C1F1 | 17045 | 39412 | 142841 | 17045 | 39412 | -142841 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 39310 | 142826 | 17045 | 39310 | -142826 |
| Wind angle: 0° | 380C1F3 | 17045 | 39180 | 142812 | 17045 | 39180 | -142812 |
| | RTG | 4617 | 10675 | 38808 | 4617 | 10675 | -38808 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 5899 | 21781 | 2308 | 5899 | -21781 |
| Wind, -20°C | 380C1F1 | 17036 | 44315 | 164078 | 17036 | 44315 | -164078 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 44285 | 164082 | 17036 | 44285 | -164082 |
| Wind angle: 0° | 380C1F3 | 17036 | 44248 | 164087 | 17036 | 44248 | -164087 |
| | RTG | 4615 | 11759 | 43567 | 4615 | 11759 | -43567 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 6860 | 24402 | 2870 | 6860 | -24402 |
| Wind, -5°C | 380C1F1 | 19780 | 47260 | 171164 | 19780 | 47260 | -171164 |
| Permanent loads yg= 1.2 | 380C1F2 | 19780 | 47134 | 171144 | 19780 | 47134 | -171144 |
| Wind angle: 0° | 380C1F3 | 19780 | 46973 | 171124 | 19780 | 46973 | -171124 |
| | RTG | 5739 | 13494 | 48736 | 5739 | 13494 | -48736 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6444 | 23814 | 2910 | 6444 | -23814 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 43758 | 162001 | 19451 | 43758 | -162001 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 43729 | 162006 | 19451 | 43729 | -162006 |
| Wind angle: 0° | 380C1F3 | 19451 | 43692 | 162012 | 19451 | 43692 | -162012 |
| | RTG | 5821 | 12848 | 47634 | 5821 | 12848 | -47634 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 6123 | 20008 | 2309 | 8905 | -24699 |
| Wind, 10°C | 380C1F1 | 17045 | 43128 | 145103 | 17048 | 57176 | -165814 |
| Permanent loads yg= 1.2 | 380C1F2 | 17045 | 42643 | 144661 | 17048 | 55111 | -162219 |
| Wind angle: 45° | 380C1F3 | 17045 | 42036 | 144159 | 17047 | 52542 | -157920 |
| | RTG | 4617 | 11561 | 39298 | 4618 | 14885 | -44009 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6079 | 21813 | 2308 | 6684 | -22320 |
| Wind, -20°C | 380C1F1 | 17036 | 45289 | 164145 | 17036 | 48422 | -166088 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 45169 | 164119 | 17036 | 47978 | -165695 |
| Wind angle: 45° | 380C1F3 | 17036 | 45017 | 164092 | 17036 | 47424 | -165250 |
| | RTG | 4615 | 11993 | 43577 | 4615 | 12740 | -43998 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2870 | 8049 | 25556 | 2871 | 12619 | -33641 |
| Wind, -5°C | 380C1F1 | 19781 | 51853 | 174065 | 19785 | 69214 | -199938 |
| Permanent loads yg= 1.2 | 380C1F2 | 19781 | 51251 | 173501 | 19784 | 66672 | -195499 |
| Wind angle: 45° | 380C1F3 | 19781 | 50501 | 172861 | 19784 | 63505 | -190166 |
| | RTG | 5739 | 14950 | 49731 | 5741 | 20496 | -58300 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 6618 | 23825 | 2910 | 7177 | -24160 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 44718 | 162012 | 19451 | 47726 | -163482 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 44601 | 161995 | 19451 | 47305 | -163175 |
| Wind angle: 45° | 380C1F3 | 19451 | 44451 | 161981 | 19451 | 46777 | -162831 |
| | RTG | 5821 | 13078 | 47625 | 5821 | 13782 | -47885 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2310 | 10083 | 27013 | 2310 | 10083 | -27013 |
| Wind, 10°C | 380C1F1 | 17050 | 63265 | 176927 | 17050 | 63265 | -176927 |
| Permanent loads yg= 1.2 | 380C1F2 | 17049 | 60540 | 171875 | 17049 | 60540 | -171875 |
| Wind angle: 90° | 380C1F3 | 17048 | 57134 | 165741 | 17048 | 57134 | -165741 |
| | RTG | 4618 | 16338 | 46616 | 4618 | 16338 | -46616 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6943 | 22647 | 2308 | 6943 | -22647 |
| Wind, -20°C | 380C1F1 | 17036 | 49733 | 167412 | 17036 | 49733 | -167412 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 49145 | 166790 | 17036 | 49145 | -166790 |
| Wind angle: 90° | 380C1F3 | 17036 | 48413 | 166079 | 17036 | 48413 | -166079 |
| | RTG | 4615 | 13051 | 44291 | 4615 | 13051 | -44291 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2872 | 14481 | 37306 | 2872 | 14481 | -37306 |
| Wind, -5°C | 380C1F1 | 19787 | 76682 | 213558 | 19787 | 76682 | -213558 |
| Permanent loads yg= 1.2 | 380C1F2 | 19786 | 73345 | 207384 | 19786 | 73345 | -207384 |
| Wind angle: 90° | 380C1F3 | 19785 | 69163 | 199848 | 19785 | 69163 | -199848 |
| | RTG | 5741 | 22871 | 62721 | 5741 | 22871 | -62721 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7410 | 24390 | 2910 | 7410 | -24390 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 48964 | 164530 | 19451 | 48964 | -164530 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 48410 | 164036 | 19451 | 48410 | -164036 |
| Wind angle: 90° | 380C1F3 | 19451 | 47718 | 163476 | 19451 | 47718 | -163476 |
| | RTG | 5821 | 14067 | 48082 | 5821 | 14067 | -48082 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2309 | 8905 | 24699 | 2309 | 6123 | -20008 |
| Wind, 10°C | 380C1F1 | 17048 | 57176 | 165814 | 17045 | 43128 | -145103 |
| Permanent loads yg= 1.2 | 380C1F2 | 17048 | 55111 | 162219 | 17045 | 42643 | -144661 |
| Wind angle: -45° | 380C1F3 | 17047 | 52542 | 157920 | 17045 | 42036 | -144159 |
| | RTG | 4618 | 14885 | 44009 | 4617 | 11561 | -39298 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2308 | 6684 | 22320 | 2308 | 6079 | -21813 |
| Wind, -20°C | 380C1F1 | 17036 | 48422 | 166088 | 17036 | 45289 | -164145 |
| Permanent loads yg= 1.2 | 380C1F2 | 17036 | 47978 | 165695 | 17036 | 45169 | -164119 |
| Wind angle: -45° | 380C1F3 | 17036 | 47424 | 165250 | 17036 | 45017 | -164092 |
| | RTG | 4615 | 12740 | 43998 | 4615 | 11993 | -43577 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2871 | 12619 | 33641 | 2870 | 8049 | -25556 |
| Wind, -5°C | 380C1F1 | 19785 | 69214 | 199938 | 19781 | 51853 | -174065 |
| Permanent loads yg= 1.2 | 380C1F2 | 19784 | 66672 | 195499 | 19781 | 51251 | -173501 |
| Wind angle: -45° | 380C1F3 | 19784 | 63505 | 190166 | 19781 | 50501 | -172861 |
| | RTG | 5741 | 20496 | 58300 | 5739 | 14950 | -49731 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2910 | 7177 | 24160 | 2910 | 6618 | -23825 |
| Construction/maintenance, +5°C | 380C1F1 | 19451 | 47726 | 163482 | 19451 | 44718 | -162012 |
| Permanent loads yg= 1.2 | 380C1F2 | 19451 | 47305 | 163175 | 19451 | 44601 | -161995 |
| Wind angle: -45° | 380C1F3 | 19451 | 46777 | 162831 | 19451 | 44451 | -161981 |
| | RTG | 5821 | 13782 | 47885 | 5821 | 13078 | -47625 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 4306 | 15308 | 1731 | 4306 | -15308 |
| Wind, 10°C | 380C1F1 | 12781 | 31428 | 113043 | 12781 | 31428 | -113043 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 31321 | 113011 | 12781 | 31321 | -113011 |
| Wind angle: 0° | 380C1F3 | 12781 | 31185 | 112977 | 12781 | 31185 | -112977 |
| | RTG | 3462 | 8464 | 30559 | 3462 | 8464 | -30559 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4733 | 17431 | 1730 | 4733 | -17431 |
| Wind, -20°C | 380C1F1 | 12774 | 35890 | 132638 | 12774 | 35890 | -132638 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 35860 | 132639 | 12774 | 35860 | -132639 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: 0° | 380C1F3 | 12774 | 35822 | 132643 | 12774 | 35822 | -132643 |
| | RTG | 3461 | 9426 | 34862 | 3461 | 9426 | -34862 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2292 | 5808 | 20474 | 2292 | 5808 | -20474 |
| Wind, -5°C | 380C1F1 | 15516 | 39452 | 142027 | 15516 | 39452 | -142027 |
| Permanent loads yg= 0.9 | 380C1F2 | 15516 | 39321 | 141988 | 15516 | 39321 | -141988 |
| Wind angle: 0° | 380C1F3 | 15516 | 39155 | 141948 | 15516 | 39155 | -141948 |
| | RTG | 4584 | 11378 | 40839 | 4584 | 11378 | -40839 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 5401 | 19923 | 2333 | 5401 | -19923 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36001 | 133052 | 15186 | 36001 | -133052 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 35972 | 133055 | 15186 | 35972 | -133055 |
| Wind angle: 0° | 380C1F3 | 15186 | 35934 | 133060 | 15186 | 35934 | -133060 |
| | RTG | 4665 | 10763 | 39849 | 4665 | 10763 | -39849 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1731 | 5100 | 16189 | 1732 | 8233 | -22192 |
| Wind, 10°C | 380C1F1 | 12781 | 35485 | 116580 | 12784 | 51441 | -144418 |
| Permanent loads yg= 0.9 | 380C1F2 | 12781 | 34941 | 115921 | 12784 | 49114 | -139847 |
| Wind angle: 45° | 380C1F3 | 12781 | 34266 | 115164 | 12783 | 46203 | -134270 |
| | RTG | 3462 | 9426 | 31332 | 3463 | 13205 | -37744 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 4922 | 17495 | 1730 | 5597 | -18265 |
| Wind, -20°C | 380C1F1 | 12774 | 36902 | 132845 | 12774 | 40341 | -135933 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 36775 | 132794 | 12774 | 39843 | -135336 |
| Wind angle: 45° | 380C1F3 | 12774 | 36615 | 132739 | 12774 | 39224 | -134650 |
| | RTG | 3461 | 9669 | 34903 | 3461 | 10484 | -35578 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2292 | 7106 | 22039 | 2293 | 12077 | -31621 |
| Wind, -5°C | 380C1F1 | 15517 | 44409 | 146289 | 15521 | 63751 | -179558 |
| Permanent loads yg= 0.9 | 380C1F2 | 15517 | 43746 | 145495 | 15520 | 60943 | -174127 |
| Wind angle: 45° | 380C1F3 | 15517 | 42923 | 144582 | 15520 | 57425 | -167484 |
| | RTG | 4584 | 12944 | 42245 | 4586 | 19062 | -52951 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 5580 | 19951 | 2333 | 6177 | -20428 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 36986 | 133155 | 15186 | 40200 | -135396 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 36864 | 133123 | 15186 | 39741 | -134949 |
| Wind angle: 45° | 380C1F3 | 15186 | 36710 | 133089 | 15186 | 39170 | -134442 |
| | RTG | 4665 | 10997 | 39856 | 4665 | 11736 | -40250 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1732 | 9514 | 24891 | 1732 | 9514 | -24891 |
| Wind, 10°C | 380C1F1 | 12785 | 58223 | 158117 | 12785 | 58223 | -158117 |
| Permanent loads yg= 0.9 | 380C1F2 | 12785 | 55202 | 151962 | 12785 | 55202 | -151962 |
| Wind angle: 90° | 380C1F3 | 12784 | 51394 | 144326 | 12784 | 51394 | -144326 |
| | RTG | 3463 | 14837 | 41017 | 3463 | 14837 | -41017 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 5894 | 18735 | 1730 | 5894 | -18735 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind, -20°C | 380C1F1 | 12774 | 41828 | 137912 | 12774 | 41828 | -137912 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 41159 | 136989 | 12774 | 41159 | -136989 |
| Wind angle: 90° | 380C1F3 | 12774 | 40331 | 135921 | 12774 | 40331 | -135921 |
| | RTG | 3461 | 10834 | 36018 | 3461 | 10834 | -36018 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2294 | 14037 | 35649 | 2294 | 14037 | -35649 |
| Wind, -5°C | 380C1F1 | 15523 | 71916 | 195779 | 15523 | 71916 | -195779 |
| Permanent loads yg= 0.9 | 380C1F2 | 15522 | 68283 | 188500 | 15522 | 68283 | -188500 |
| Wind angle: 90° | 380C1F3 | 15521 | 63694 | 179448 | 15521 | 63694 | -179448 |
| | RTG | 4586 | 21630 | 58092 | 4586 | 21630 | -58092 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 6432 | 20738 | 2333 | 6432 | -20738 |
| Construction/maintenance, +5°C | 380C1F1 | 15187 | 41557 | 136892 | 15187 | 41557 | -136892 |
| Permanent loads yg= 0.9 | 380C1F2 | 15187 | 40948 | 136190 | 15187 | 40948 | -136190 |
| Wind angle: 90° | 380C1F3 | 15186 | 40190 | 135386 | 15186 | 40190 | -135386 |
| | RTG | 4665 | 12042 | 40526 | 4665 | 12042 | -40526 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1732 | 8233 | 22192 | 1731 | 5100 | -16189 |
| Wind, 10°C | 380C1F1 | 12784 | 51441 | 144418 | 12781 | 35485 | -116580 |
| Permanent loads yg= 0.9 | 380C1F2 | 12784 | 49114 | 139847 | 12781 | 34941 | -115921 |
| Wind angle: -45° | 380C1F3 | 12783 | 46203 | 134270 | 12781 | 34266 | -115164 |
| | RTG | 3463 | 13205 | 37744 | 3462 | 9426 | -31332 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1730 | 5597 | 18265 | 1730 | 4922 | -17495 |
| Wind, -20°C | 380C1F1 | 12774 | 40341 | 135933 | 12774 | 36902 | -132845 |
| Permanent loads yg= 0.9 | 380C1F2 | 12774 | 39843 | 135336 | 12774 | 36775 | -132794 |
| Wind angle: -45° | 380C1F3 | 12774 | 39224 | 134650 | 12774 | 36615 | -132739 |
| | RTG | 3461 | 10484 | 35578 | 3461 | 9669 | -34903 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2293 | 12077 | 31621 | 2292 | 7106 | -22039 |
| Wind, -5°C | 380C1F1 | 15521 | 63751 | 179558 | 15517 | 44409 | -146289 |
| Permanent loads yg= 0.9 | 380C1F2 | 15520 | 60943 | 174127 | 15517 | 43746 | -145495 |
| Wind angle: -45° | 380C1F3 | 15520 | 57425 | 167484 | 15517 | 42923 | -144582 |
| | RTG | 4586 | 19062 | 52951 | 4584 | 12944 | -42245 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2333 | 6177 | 20428 | 2333 | 5580 | -19951 |
| Construction/maintenance, +5°C | 380C1F1 | 15186 | 40200 | 135396 | 15186 | 36986 | -133155 |
| Permanent loads yg= 0.9 | 380C1F2 | 15186 | 39741 | 134949 | 15186 | 36864 | -133123 |
| Wind angle: -45° | 380C1F3 | 15186 | 39170 | 134442 | 15186 | 36710 | -133089 |
| | RTG | 4665 | 11736 | 40250 | 4665 | 10997 | -39856 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |

NWW6HK400UY

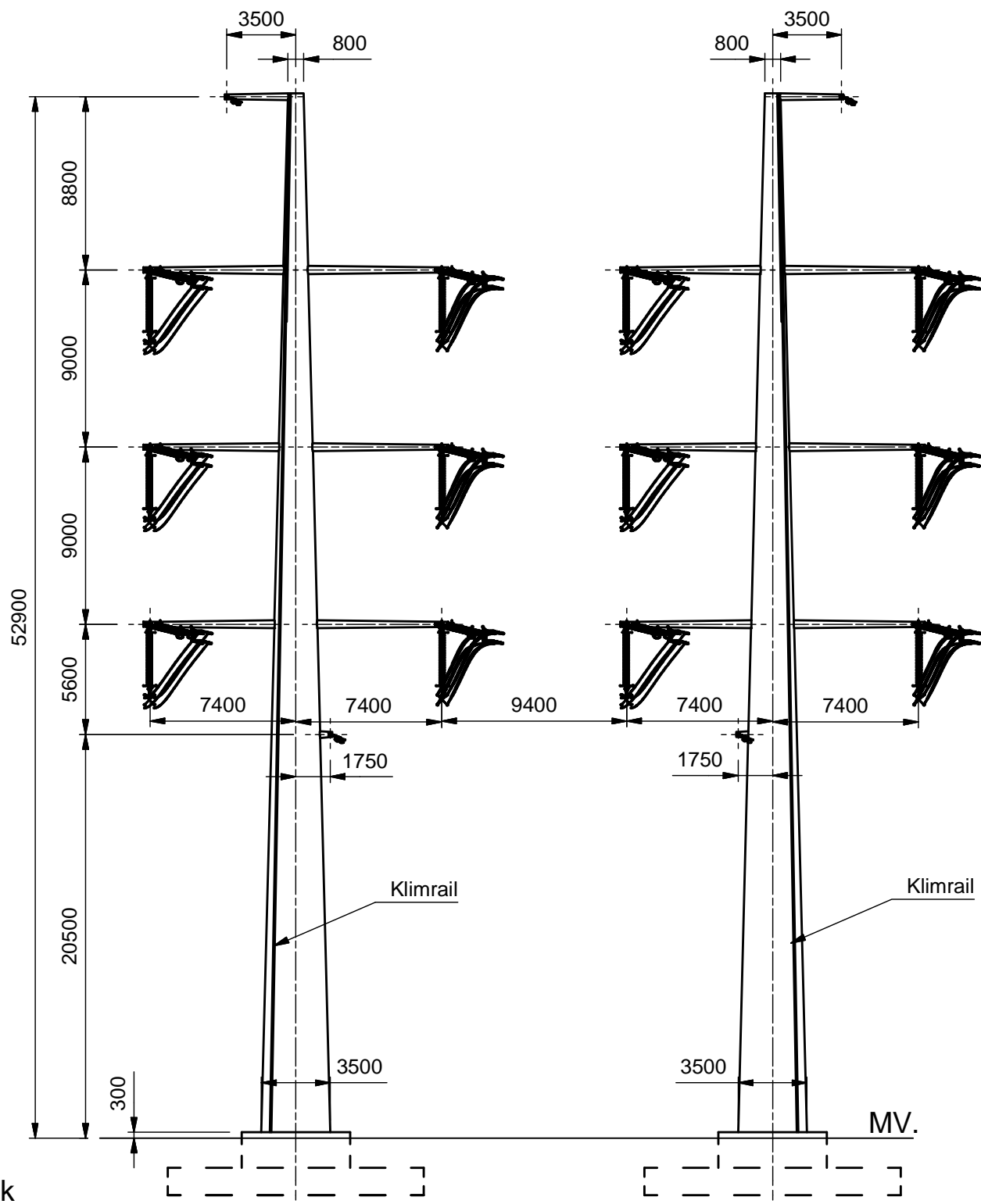
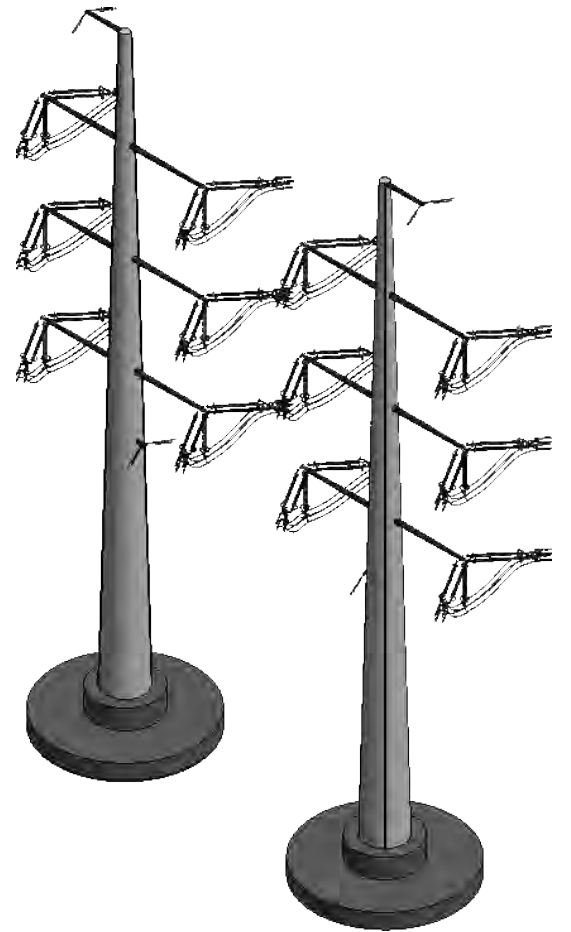
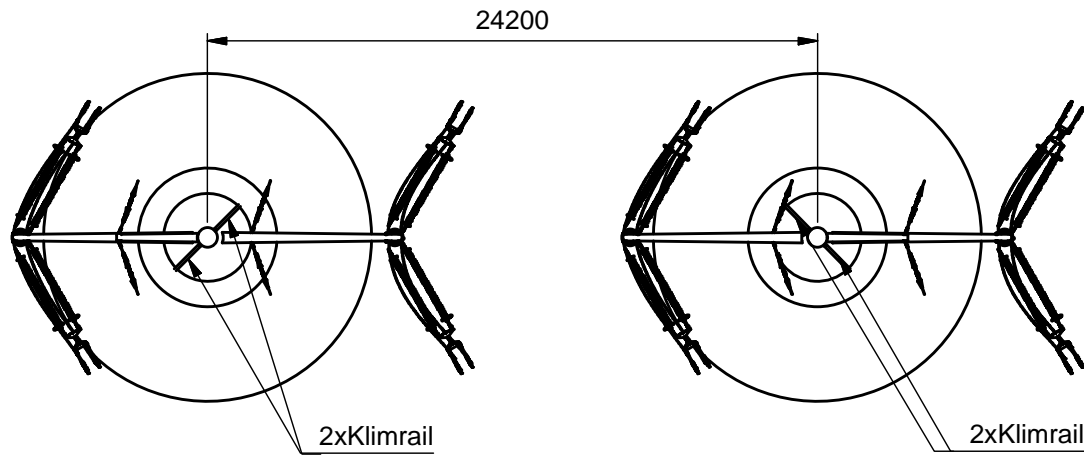
Appendix NWW6HK400UY / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a | GW / opgw | 1924 | 4748 | 16742 | 1924 | 4748 | -16742 |
| Wind, 10°C | 380C1F1 | 14202 | 34508 | 123339 | 14202 | 34508 | -123339 |
| Permanent loads yg= 1.0 | 380C1F2 | 14202 | 34368 | 123289 | 14202 | 34368 | -123289 |
| Wind angle: 0° | 380C1F3 | 14202 | 34192 | 123235 | 14202 | 34192 | -123235 |
| | RTG | 3847 | 9303 | 33398 | 3847 | 9303 | -33398 |
| | 380C2F1 | 14202 | 34508 | 123339 | 14202 | 34508 | -123339 |
| | 380C2F2 | 14202 | 34368 | 123289 | 14202 | 34368 | -123289 |
| | 380C2F3 | 14202 | 34192 | 123235 | 14202 | 34192 | -123235 |
| NL4/1b | GW / opgw | 1923 | 5123 | 18923 | 1923 | 5123 | -18923 |
| Wind, -20°C | 380C1F1 | 14194 | 38728 | 143447 | 14194 | 38728 | -143447 |
| Permanent loads yg= 1.0 | 380C1F2 | 14194 | 38704 | 143450 | 14194 | 38704 | -143450 |
| Wind angle: 0° | 380C1F3 | 14194 | 38672 | 143454 | 14194 | 38672 | -143454 |
| | RTG | 3845 | 10212 | 37849 | 3845 | 10212 | -37849 |
| | 380C2F1 | 14194 | 38728 | 143447 | 14194 | 38728 | -143447 |
| | 380C2F2 | 14194 | 38704 | 143450 | 14194 | 38704 | -143450 |
| | 380C2F3 | 14194 | 38672 | 143454 | 14194 | 38672 | -143454 |
| NL4/3 | GW / opgw | 6607 | 12570 | 45911 | 6607 | 12570 | -45911 |
| Wind, -5°C | 380C1F1 | 37046 | 74529 | 273798 | 37046 | 74529 | -273798 |
| Permanent loads yg= 1.0 | 380C1F2 | 37046 | 74431 | 273808 | 37046 | 74431 | -273808 |
| Wind angle: 0° | 380C1F3 | 37046 | 74305 | 273822 | 37046 | 74305 | -273822 |
| | RTG | 13213 | 24971 | 91838 | 13213 | 24971 | -91838 |
| | 380C2F1 | 37046 | 74529 | 273798 | 37046 | 74529 | -273798 |
| | 380C2F2 | 37046 | 74431 | 273808 | 37046 | 74431 | -273808 |
| | 380C2F3 | 37046 | 74305 | 273822 | 37046 | 74305 | -273822 |
| NL4/4 | GW / opgw | 2425 | 5562 | 20561 | 2425 | 5562 | -20561 |
| Construction/maintenance, +5°C | 380C1F1 | 16206 | 37851 | 140174 | 16206 | 37851 | -140174 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 37827 | 140177 | 16206 | 37827 | -140177 |
| Wind angle: 0° | 380C1F3 | 16206 | 37796 | 140182 | 16206 | 37796 | -140182 |
| | RTG | 4850 | 11091 | 41127 | 4850 | 11091 | -41127 |
| | 380C2F1 | 16206 | 37851 | 140174 | 16206 | 37851 | -140174 |
| | 380C2F2 | 16206 | 37827 | 140177 | 16206 | 37827 | -140177 |
| | 380C2F3 | 16206 | 37796 | 140182 | 16206 | 37796 | -140182 |
| NL4/1a | GW / opgw | 1924 | 5802 | 18009 | 1925 | 9890 | -25970 |
| Wind, 10°C | 380C1F1 | 14203 | 39873 | 128486 | 14207 | 60883 | -166234 |
| Permanent loads yg= 1.0 | 380C1F2 | 14203 | 39150 | 127542 | 14206 | 57862 | -160230 |
| Wind angle: 45° | 380C1F3 | 14202 | 38253 | 126452 | 14205 | 54061 | -152823 |
| | RTG | 3847 | 10574 | 34530 | 3848 | 15573 | -43323 |
| | 380C2F1 | 14203 | 39873 | 128486 | 14207 | 60883 | -166234 |
| | 380C2F2 | 14203 | 39150 | 127542 | 14206 | 57862 | -160230 |
| | 380C2F3 | 14202 | 38253 | 126452 | 14205 | 54061 | -152823 |
| NL4/1b | GW / opgw | 1923 | 5274 | 18953 | 1923 | 5785 | -19404 |
| Wind, -20°C | 380C1F1 | 14194 | 39544 | 143518 | 14195 | 42189 | -145266 |
| Permanent loads yg= 1.0 | 380C1F2 | 14194 | 39443 | 143494 | 14195 | 41813 | -144915 |
| Wind angle: 45° | 380C1F3 | 14194 | 39316 | 143468 | 14194 | 41344 | -144517 |
| | RTG | 3845 | 10409 | 37861 | 3845 | 11039 | -38239 |
| | 380C2F1 | 14194 | 39544 | 143518 | 14195 | 42189 | -145266 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 14194 | 39443 | 143494 | 14195 | 41813 | -144915 |
| | 380C2F3 | 14194 | 39316 | 143468 | 14194 | 41344 | -144517 |
| NL4/3 | GW / opgw | 6607 | 13345 | 46065 | 6608 | 15948 | -48301 |
| Wind, -5°C | 380C1F1 | 37046 | 77819 | 274200 | 37049 | 88598 | -281980 |
| Permanent loads yg= 1.0 | 380C1F2 | 37046 | 77411 | 274081 | 37048 | 87063 | -280457 |
| Wind angle: 45° | 380C1F3 | 37046 | 76895 | 273956 | 37048 | 85146 | -278713 |
| | RTG | 13213 | 25979 | 91899 | 13214 | 29203 | -93814 |
| | 380C2F1 | 37046 | 77819 | 274200 | 37049 | 88598 | -281980 |
| | 380C2F2 | 37046 | 77411 | 274081 | 37048 | 87063 | -280457 |
| | 380C2F3 | 37046 | 76895 | 273956 | 37048 | 85146 | -278713 |
| NL4/4 | GW / opgw | 2425 | 5708 | 20572 | 2425 | 6179 | -20872 |
| Construction/maintenance, +5°C | 380C1F1 | 16206 | 38654 | 140194 | 16207 | 41186 | -141514 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 38556 | 140178 | 16206 | 40830 | -141240 |
| Wind angle: 45° | 380C1F3 | 16206 | 38431 | 140163 | 16206 | 40385 | -140933 |
| | RTG | 4850 | 11283 | 41122 | 4850 | 11874 | -41356 |
| | 380C2F1 | 16206 | 38654 | 140194 | 16207 | 41186 | -141514 |
| | 380C2F2 | 16206 | 38556 | 140178 | 16206 | 40830 | -141240 |
| | 380C2F3 | 16206 | 38431 | 140163 | 16206 | 40385 | -140933 |
| NL4/1a | GW / opgw | 1925 | 11519 | 29376 | 1925 | 11519 | -29376 |
| Wind, 10°C | 380C1F1 | 14209 | 69619 | 183943 | 14209 | 69619 | -183943 |
| Permanent loads yg= 1.0 | 380C1F2 | 14208 | 65741 | 176033 | 14208 | 65741 | -176033 |
| Wind angle: 90° | 380C1F3 | 14207 | 60823 | 166113 | 14207 | 60823 | -166113 |
| | RTG | 3849 | 17690 | 47612 | 3849 | 17690 | -47612 |
| | 380C2F1 | 14209 | 69619 | 183943 | 14209 | 69619 | -183943 |
| | 380C2F2 | 14208 | 65741 | 176033 | 14208 | 65741 | -176033 |
| | 380C2F3 | 14207 | 60823 | 166113 | 14207 | 60823 | -166113 |
| NL4/1b | GW / opgw | 1923 | 6006 | 19695 | 1923 | 6006 | -19695 |
| Wind, -20°C | 380C1F1 | 14195 | 43303 | 146448 | 14195 | 43303 | -146448 |
| Permanent loads yg= 1.0 | 380C1F2 | 14195 | 42803 | 145893 | 14195 | 42803 | -145893 |
| Wind angle: 90° | 380C1F3 | 14195 | 42182 | 145259 | 14195 | 42182 | -145259 |
| | RTG | 3846 | 11302 | 38500 | 3846 | 11302 | -38500 |
| | 380C2F1 | 14195 | 43303 | 146448 | 14195 | 43303 | -146448 |
| | 380C2F2 | 14195 | 42803 | 145893 | 14195 | 42803 | -145893 |
| | 380C2F3 | 14195 | 42182 | 145259 | 14195 | 42182 | -145259 |
| NL4/3 | GW / opgw | 6608 | 17050 | 49676 | 6608 | 17050 | -49676 |
| Wind, -5°C | 380C1F1 | 37050 | 93131 | 287018 | 37050 | 93131 | -287018 |
| Permanent loads yg= 1.0 | 380C1F2 | 37050 | 91099 | 284669 | 37050 | 91099 | -284669 |
| Wind angle: 90° | 380C1F3 | 37049 | 88567 | 281949 | 37049 | 88567 | -281949 |
| | RTG | 13214 | 30540 | 95102 | 13214 | 30540 | -95102 |
| | 380C2F1 | 37050 | 93131 | 287018 | 37050 | 93131 | -287018 |
| | 380C2F2 | 37050 | 91099 | 284669 | 37050 | 91099 | -284669 |
| | 380C2F3 | 37049 | 88567 | 281949 | 37049 | 88567 | -281949 |
| NL4/4 | GW / opgw | 2425 | 6376 | 21075 | 2425 | 6376 | -21075 |
| Construction/maintenance, +5°C | 380C1F1 | 16207 | 42232 | 142444 | 16207 | 42232 | -142444 |
| Permanent loads yg= 1.0 | 380C1F2 | 16207 | 41763 | 142006 | 16207 | 41763 | -142006 |
| Wind angle: 90° | 380C1F3 | 16207 | 41179 | 141508 | 16207 | 41179 | -141508 |
| | RTG | 4850 | 12115 | 41531 | 4850 | 12115 | -41531 |
| | 380C2F1 | 16207 | 42232 | 142444 | 16207 | 42232 | -142444 |
| | 380C2F2 | 16207 | 41763 | 142006 | 16207 | 41763 | -142006 |
| | 380C2F3 | 16207 | 41179 | 141508 | 16207 | 41179 | -141508 |
| NL4/1a | GW / opgw | 1925 | 9890 | 25970 | 1924 | 5802 | -18009 |
| Wind, 10°C | 380C1F1 | 14207 | 60883 | 166234 | 14203 | 39873 | -128486 |
| Permanent loads yg= 1.0 | 380C1F2 | 14206 | 57862 | 160230 | 14203 | 39150 | -127542 |
| Wind angle: -45° | 380C1F3 | 14205 | 54061 | 152823 | 14202 | 38253 | -126452 |
| | RTG | 3848 | 15573 | 43323 | 3847 | 10574 | -34530 |
| | 380C2F1 | 14207 | 60883 | 166234 | 14203 | 39873 | -128486 |
| | 380C2F2 | 14206 | 57862 | 160230 | 14203 | 39150 | -127542 |
| | 380C2F3 | 14205 | 54061 | 152823 | 14202 | 38253 | -126452 |
| NL4/1b | GW / opgw | 1923 | 5785 | 19404 | 1923 | 5274 | -18953 |
| Wind, -20°C | 380C1F1 | 14195 | 42189 | 145266 | 14194 | 39544 | -143518 |
| Permanent loads yg= 1.0 | 380C1F2 | 14195 | 41813 | 144915 | 14194 | 39443 | -143494 |
| Wind angle: -45° | 380C1F3 | 14194 | 41344 | 144517 | 14194 | 39316 | -143468 |


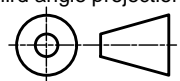
| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3845 | 11039 | 38239 | 3845 | 10409 | -37861 |
| | 380C2F1 | 14195 | 42189 | 145266 | 14194 | 39544 | -143518 |
| | 380C2F2 | 14195 | 41813 | 144915 | 14194 | 39443 | -143494 |
| | 380C2F3 | 14194 | 41344 | 144517 | 14194 | 39316 | -143468 |
| NL4/3 | GW / opgw | 6608 | 15948 | 48301 | 6607 | 13345 | -46065 |
| Wind, -5°C | 380C1F1 | 37049 | 88598 | 281980 | 37046 | 77819 | -274200 |
| Permanent loads yg= 1.0 | 380C1F2 | 37048 | 87063 | 280457 | 37046 | 77411 | -274081 |
| Wind angle: -45° | 380C1F3 | 37048 | 85146 | 278713 | 37046 | 76895 | -273956 |
| | RTG | 13214 | 29203 | 93814 | 13213 | 25979 | -91899 |
| | 380C2F1 | 37049 | 88598 | 281980 | 37046 | 77819 | -274200 |
| | 380C2F2 | 37048 | 87063 | 280457 | 37046 | 77411 | -274081 |
| | 380C2F3 | 37048 | 85146 | 278713 | 37046 | 76895 | -273956 |
| NL4/4 | GW / opgw | 2425 | 6179 | 20872 | 2425 | 5708 | -20572 |
| Construction/maintenance, +5°C | 380C1F1 | 16207 | 41186 | 141514 | 16206 | 38654 | -140194 |
| Permanent loads yg= 1.0 | 380C1F2 | 16206 | 40830 | 141240 | 16206 | 38556 | -140178 |
| Wind angle: -45° | 380C1F3 | 16206 | 40385 | 140933 | 16206 | 38431 | -140163 |
| | RTG | 4850 | 11874 | 41356 | 4850 | 11283 | -41122 |
| | 380C2F1 | 16207 | 41186 | 141514 | 16206 | 38654 | -140194 |
| | 380C2F2 | 16206 | 40830 | 141240 | 16206 | 38556 | -140178 |
| | 380C2F3 | 16206 | 40385 | 140933 | 16206 | 38431 | -140163 |



Wintrack
Masttype: NWW6HL350UY

- Trekparameter 1800m
- 4x380 Hoekmast
- 350m Veldlengte
- 130»150»Lijnhoek
- IJsg gebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|------------|-------------------------|
| Rev. | Date | Description |
| 1 | 12-12-2014 | First edition |
| 2 | 15-12-2014 | IJsg gebied A |
| 3 | 13-1-2016 | Kleurstelling aangepast |

| | | |
|--|--|--|
|  | | Projectname: TenneT Engineering verbinding NW380 |
| Design state: Released | | Third angle projection:  |
| Drawn by: SGR 15-12-2014 | | Drawing no.: 74101611-035-215 |
| Checked by: EKA 15-12-2014 | | Description: NWW6HL350UY |
| Approved by: AW 15-12-2014 | | |
| Scale: 1 : 300 | | Revision: 3 |
| Units: mm | | Format: A3 |
| Project no: | | |
| Company: TenneT | | |

DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com

NWW6HL350UY

Appendix NWW6HL350UY / NL1

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2019 | 9802 | 18961 | 2019 | 9802 | -18961 |
| Wind, 10°C | 380C1F1 | 14908 | 68870 | 136212 | 14908 | 68870 | -136212 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 68130 | 135576 | 14907 | 68130 | -135576 |
| Wind angle: 0° | 380C1F3 | 14907 | 67220 | 134849 | 14907 | 67220 | -134849 |
| | RTG | 4038 | 18480 | 36844 | 4038 | 18480 | -36844 |
| | 380C2F1 | 14908 | 68870 | 136212 | 14908 | 68870 | -136212 |
| | 380C2F2 | 14907 | 68130 | 135576 | 14907 | 68130 | -135576 |
| | 380C2F3 | 14907 | 67220 | 134849 | 14907 | 67220 | -134849 |
| NL1/1b | GW / opgw | 2018 | 9914 | 20848 | 2018 | 9914 | -20848 |
| Wind, -20°C | 380C1F1 | 14900 | 74574 | 157629 | 14900 | 74574 | -157629 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74485 | 157628 | 14900 | 74485 | -157628 |
| Wind angle: 0° | 380C1F3 | 14900 | 74372 | 157631 | 14900 | 74372 | -157631 |
| | RTG | 4036 | 19698 | 41685 | 4036 | 19698 | -41685 |
| | 380C2F1 | 14900 | 74574 | 157629 | 14900 | 74574 | -157629 |
| | 380C2F2 | 14900 | 74485 | 157628 | 14900 | 74485 | -157628 |
| | 380C2F3 | 14900 | 74372 | 157631 | 14900 | 74372 | -157631 |
| NL1/3 | GW / opgw | 8166 | 25645 | 52884 | 8166 | 25645 | -52884 |
| Wind, -5°C | 380C1F1 | 44890 | 150129 | 312787 | 44890 | 150129 | -312787 |
| Permanent loads yg= 1.2 | 380C1F2 | 44890 | 149779 | 312794 | 44890 | 149779 | -312794 |
| Wind angle: 0° | 380C1F3 | 44890 | 149335 | 312820 | 44890 | 149335 | -312820 |
| | RTG | 16332 | 50656 | 105772 | 16332 | 50656 | -105772 |
| | 380C2F1 | 44890 | 150129 | 312787 | 44890 | 150129 | -312787 |
| | 380C2F2 | 44890 | 149779 | 312794 | 44890 | 149779 | -312794 |
| | 380C2F3 | 44890 | 149335 | 312820 | 44890 | 149335 | -312820 |
| NL1/4 | GW / opgw | 2771 | 11154 | 23507 | 2771 | 11154 | -23507 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 74009 | 156416 | 17913 | 74009 | -156416 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 73923 | 156423 | 17913 | 73923 | -156423 |
| Wind angle: 0° | 380C1F3 | 17913 | 73815 | 156435 | 17913 | 73815 | -156435 |
| | RTG | 5542 | 22187 | 47024 | 5542 | 22187 | -47024 |
| | 380C2F1 | 17913 | 74009 | 156416 | 17913 | 74009 | -156416 |
| | 380C2F2 | 17913 | 73923 | 156423 | 17913 | 73923 | -156423 |
| | 380C2F3 | 17913 | 73815 | 156435 | 17913 | 73815 | -156435 |
| NL1/6 | GW / opgw | 2272 | 9245 | 19826 | 2272 | 9245 | -19826 |
| Permanent, +10°C | 380C1F1 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| Permanent loads yg= 1.35 | 380C1F2 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| | 380C1F3 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| | RTG | 4543 | 18490 | 39651 | 4543 | 18490 | -39651 |
| | 380C2F1 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| | 380C2F2 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| | 380C2F3 | 16772 | 67870 | 145548 | 16772 | 67870 | -145548 |
| NL1/1a | GW / opgw | 2019 | 9206 | 18394 | 2021 | 20079 | -32873 |
| Wind, 10°C | 380C1F1 | 14907 | 65983 | 133982 | 14917 | 121932 | -204699 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 65577 | 133736 | 14915 | 115738 | -196121 |
| Wind angle: 45° | 380C1F3 | 14907 | 65076 | 133462 | 14914 | 107822 | -185205 |
| | RTG | 4038 | 17803 | 36353 | 4040 | 31264 | -53260 |
| | 380C2F1 | 14907 | 65983 | 133982 | 14917 | 121932 | -204699 |

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|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | 380C2F2 | 14907 | 65577 | 133736 | 14915 | 115738 | -196121 |
| | 380C2F3 | 14907 | 65076 | 133462 | 14914 | 107822 | -185205 |
| NL1/1b | GW / opgw | 2018 | 9845 | 20843 | 2018 | 11097 | -21763 |
| Wind, -20°C | 380C1F1 | 14900 | 74212 | 157645 | 14900 | 80377 | -161024 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74157 | 157652 | 14900 | 79640 | -160384 |
| Wind angle: 45° | 380C1F3 | 14900 | 74087 | 157663 | 14900 | 78735 | -159652 |
| | RTG | 4036 | 19611 | 41691 | 4037 | 21070 | -42431 |
| | 380C2F1 | 14900 | 74212 | 157645 | 14900 | 80377 | -161024 |
| | 380C2F2 | 14900 | 74157 | 157652 | 14900 | 79640 | -160384 |
| | 380C2F3 | 14900 | 74087 | 157663 | 14900 | 78735 | -159652 |
| NL1/3 | GW / opgw | 8166 | 25307 | 52888 | 8168 | 31057 | -56155 |
| Wind, -5°C | 380C1F1 | 44890 | 148703 | 312891 | 44897 | 172320 | -324218 |
| Permanent loads yg= 1.2 | 380C1F2 | 44890 | 148487 | 312925 | 44896 | 169561 | -322055 |
| Wind angle: 45° | 380C1F3 | 44890 | 148212 | 312975 | 44894 | 166147 | -319570 |
| | RTG | 16332 | 50224 | 105833 | 16334 | 57108 | -108330 |
| | 380C2F1 | 44890 | 148703 | 312891 | 44897 | 172320 | -324218 |
| | 380C2F2 | 44890 | 148487 | 312925 | 44896 | 169561 | -322055 |
| | 380C2F3 | 44890 | 148212 | 312975 | 44894 | 166147 | -319570 |
| NL1/4 | GW / opgw | 2771 | 11090 | 23512 | 2771 | 12148 | -24015 |
| Construction/maintenance, +5°C | 380C1F1 | 17913 | 73660 | 156460 | 17914 | 79299 | -158707 |
| Permanent loads yg= 1.2 | 380C1F2 | 17913 | 73607 | 156471 | 17914 | 78643 | -158240 |
| Wind angle: 45° | 380C1F3 | 17913 | 73539 | 156486 | 17914 | 77833 | -157713 |
| | RTG | 5542 | 22105 | 47040 | 5542 | 23376 | -47374 |
| | 380C2F1 | 17913 | 73660 | 156460 | 17914 | 79299 | -158707 |
| | 380C2F2 | 17913 | 73607 | 156471 | 17914 | 78643 | -158240 |
| | 380C2F3 | 17913 | 73539 | 156486 | 17914 | 77833 | -157713 |
| NL1/1a | GW / opgw | 2021 | 19120 | 31527 | 2021 | 19120 | -31527 |
| Wind, 10°C | 380C1F1 | 14916 | 116710 | 197465 | 14916 | 116710 | -197465 |
| Permanent loads yg= 1.2 | 380C1F2 | 14915 | 110975 | 189545 | 14915 | 110975 | -189545 |
| Wind angle: 90° | 380C1F3 | 14913 | 103670 | 179515 | 14913 | 103670 | -179515 |
| | RTG | 4040 | 29976 | 51461 | 4040 | 29976 | -51461 |
| | 380C2F1 | 14916 | 116710 | 197465 | 14916 | 116710 | -197465 |
| | 380C2F2 | 14915 | 110975 | 189545 | 14915 | 110975 | -189545 |
| | 380C2F3 | 14913 | 103670 | 179515 | 14913 | 103670 | -179515 |
| NL1/1b | GW / opgw | 2018 | 10967 | 21626 | 2018 | 10967 | -21626 |
| Wind, -20°C | 380C1F1 | 14900 | 79754 | 160480 | 14900 | 79754 | -160480 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 79091 | 159932 | 14900 | 79091 | -159932 |
| Wind angle: 90° | 380C1F3 | 14900 | 78275 | 159307 | 14900 | 78275 | -159307 |
| | RTG | 4037 | 20924 | 42309 | 4037 | 20924 | -42309 |
| | 380C2F1 | 14900 | 79754 | 160480 | 14900 | 79754 | -160480 |
| | 380C2F2 | 14900 | 79091 | 159932 | 14900 | 79091 | -159932 |
| | 380C2F3 | 14900 | 78275 | 159307 | 14900 | 78275 | -159307 |
| NL1/3 | GW / opgw | 8168 | 30486 | 55661 | 8168 | 30486 | -55661 |
| Wind, -5°C | 380C1F1 | 44896 | 169988 | 322382 | 44896 | 169988 | -322382 |
| Permanent loads yg= 1.2 | 380C1F2 | 44895 | 167493 | 320522 | 44895 | 167493 | -320522 |
| Wind angle: 90° | 380C1F3 | 44894 | 164404 | 318395 | 44894 | 164404 | -318395 |
| | RTG | 16333 | 56441 | 107885 | 16333 | 56441 | -107885 |
| | 380C2F1 | 44896 | 169988 | 322382 | 44896 | 169988 | -322382 |
| | 380C2F2 | 44895 | 167493 | 320522 | 44895 | 167493 | -320522 |
| | 380C2F3 | 44894 | 164404 | 318395 | 44894 | 164404 | -318395 |
| NL1/4 | GW / opgw | 2771 | 12042 | 23931 | 2771 | 12042 | -23931 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 78745 | 158310 | 17914 | 78745 | -158310 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 78152 | 157913 | 17914 | 78152 | -157913 |
| Wind angle: 90° | 380C1F3 | 17914 | 77420 | 157469 | 17914 | 77420 | -157469 |
| | RTG | 5542 | 23255 | 47306 | 5542 | 23255 | -47306 |
| | 380C2F1 | 17914 | 78745 | 158310 | 17914 | 78745 | -158310 |
| | 380C2F2 | 17914 | 78152 | 157913 | 17914 | 78152 | -157913 |
| | 380C2F3 | 17914 | 77420 | 157469 | 17914 | 77420 | -157469 |
| NL1/1a | GW / opgw | 2021 | 20079 | 32873 | 2019 | 9206 | -18394 |
| Wind, 10°C | 380C1F1 | 14917 | 121932 | 204699 | 14907 | 65983 | -133982 |
| Permanent loads yg= 1.2 | 380C1F2 | 14915 | 115738 | 196121 | 14907 | 65577 | -133736 |
| Wind angle: -45° | 380C1F3 | 14914 | 107822 | 185205 | 14907 | 65076 | -133462 |

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|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | RTG | 4040 | 31264 | 53260 | 4038 | 17803 | -36353 |
| | 380C2F1 | 14917 | 121932 | 204699 | 14907 | 65983 | -133982 |
| | 380C2F2 | 14915 | 115738 | 196121 | 14907 | 65577 | -133736 |
| | 380C2F3 | 14914 | 107822 | 185205 | 14907 | 65076 | -133462 |
| NL1/1b | GW / opgw | 2018 | 11097 | 21763 | 2018 | 9845 | -20843 |
| Wind, -20°C | 380C1F1 | 14900 | 80377 | 161024 | 14900 | 74212 | -157645 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 79640 | 160384 | 14900 | 74157 | -157652 |
| Wind angle: -45° | 380C1F3 | 14900 | 78735 | 159652 | 14900 | 74087 | -157663 |
| | RTG | 4037 | 21070 | 42431 | 4036 | 19611 | -41691 |
| | 380C2F1 | 14900 | 80377 | 161024 | 14900 | 74212 | -157645 |
| | 380C2F2 | 14900 | 79640 | 160384 | 14900 | 74157 | -157652 |
| | 380C2F3 | 14900 | 78735 | 159652 | 14900 | 74087 | -157663 |
| NL1/3 | GW / opgw | 8168 | 31057 | 56155 | 8166 | 25307 | -52888 |
| Wind, -5°C | 380C1F1 | 44897 | 172320 | 324218 | 44890 | 148703 | -312891 |
| Permanent loads yg= 1.2 | 380C1F2 | 44896 | 169561 | 322055 | 44890 | 148487 | -312925 |
| Wind angle: -45° | 380C1F3 | 44894 | 166147 | 319570 | 44890 | 148212 | -312975 |
| | RTG | 16334 | 57108 | 108330 | 16332 | 50224 | -105833 |
| | 380C2F1 | 44897 | 172320 | 324218 | 44890 | 148703 | -312891 |
| | 380C2F2 | 44896 | 169561 | 322055 | 44890 | 148487 | -312925 |
| | 380C2F3 | 44894 | 166147 | 319570 | 44890 | 148212 | -312975 |
| NL1/4 | GW / opgw | 2771 | 12148 | 24015 | 2771 | 11090 | -23512 |
| Construction/maintenance, +5°C | 380C1F1 | 17914 | 79299 | 158707 | 17913 | 73660 | -156460 |
| Permanent loads yg= 1.2 | 380C1F2 | 17914 | 78643 | 158240 | 17913 | 73607 | -156471 |
| Wind angle: -45° | 380C1F3 | 17914 | 77833 | 157713 | 17913 | 73539 | -156486 |
| | RTG | 5542 | 23376 | 47374 | 5542 | 22105 | -47040 |
| | 380C2F1 | 17914 | 79299 | 158707 | 17913 | 73660 | -156460 |
| | 380C2F2 | 17914 | 78643 | 158240 | 17913 | 73607 | -156471 |
| | 380C2F3 | 17914 | 77833 | 157713 | 17913 | 73539 | -156486 |
| NL1//1a | GW / opgw | 1514 | 8309 | 15761 | 1514 | 8309 | -15761 |
| Wind, 10°C | 380C1F1 | 11179 | 57509 | 111852 | 11179 | 57509 | -111852 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 56622 | 110899 | 11178 | 56622 | -110899 |
| Wind angle: 0° | 380C1F3 | 11178 | 55535 | 109792 | 11178 | 55535 | -109792 |
| | RTG | 3028 | 15269 | 29959 | 3028 | 15269 | -29959 |
| | 380C2F1 | 11179 | 57509 | 111852 | 11179 | 57509 | -111852 |
| | 380C2F2 | 11178 | 56622 | 110899 | 11178 | 56622 | -110899 |
| | 380C2F3 | 11178 | 55535 | 109792 | 11178 | 55535 | -109792 |
| NL1/1b | GW / opgw | 1513 | 8136 | 17035 | 1513 | 8136 | -17035 |
| Wind, -20°C | 380C1F1 | 11172 | 61868 | 130382 | 11172 | 61868 | -130382 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61771 | 130365 | 11172 | 61771 | -130365 |
| Wind angle: 0° | 380C1F3 | 11172 | 61650 | 130349 | 11172 | 61650 | -130349 |
| | RTG | 3027 | 16129 | 34032 | 3027 | 16129 | -34032 |
| | 380C2F1 | 11172 | 61868 | 130382 | 11172 | 61868 | -130382 |
| | 380C2F2 | 11172 | 61771 | 130365 | 11172 | 61771 | -130365 |
| | 380C2F3 | 11172 | 61650 | 130349 | 11172 | 61650 | -130349 |
| NL1/3 | GW / opgw | 7659 | 24569 | 50575 | 7659 | 24569 | -50575 |
| Wind, -5°C | 380C1F1 | 41154 | 141628 | 294558 | 41154 | 141628 | -294558 |
| Permanent loads yg= 0.9 | 380C1F2 | 41153 | 141271 | 294550 | 41153 | 141271 | -294550 |
| Wind angle: 0° | 380C1F3 | 41153 | 140819 | 294558 | 41153 | 140819 | -294558 |
| | RTG | 15319 | 48493 | 101133 | 15319 | 48493 | -101133 |
| | 380C2F1 | 41154 | 141628 | 294558 | 41154 | 141628 | -294558 |
| | 380C2F2 | 41153 | 141271 | 294550 | 41153 | 141271 | -294550 |
| | 380C2F3 | 41153 | 140819 | 294558 | 41153 | 140819 | -294558 |
| NL1/4 | GW / opgw | 2266 | 9599 | 20174 | 2266 | 9599 | -20174 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 62337 | 131387 | 14184 | 62337 | -131387 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 62247 | 131384 | 14184 | 62247 | -131384 |
| Wind angle: 0° | 380C1F3 | 14184 | 62134 | 131385 | 14184 | 62134 | -131385 |
| | RTG | 4531 | 19074 | 40347 | 4531 | 19074 | -40347 |
| | 380C2F1 | 14184 | 62337 | 131387 | 14184 | 62337 | -131387 |
| | 380C2F2 | 14184 | 62247 | 131384 | 14184 | 62247 | -131384 |
| | 380C2F3 | 14184 | 62134 | 131385 | 14184 | 62134 | -131385 |
| NL1/6 | GW / opgw | 1514 | 6712 | 14394 | 1514 | 6712 | -14394 |
| Permanent, +10°C | 380C1F1 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |

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|--|---------|-----------|--------|--------|-------|--------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |
| | 380C1F3 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |
| | RTG | 3028 | 13424 | 28788 | 3028 | 13424 | -28788 |
| | 380C2F1 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |
| | 380C2F2 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |
| | 380C2F3 | 11178 | 49660 | 106497 | 11178 | 49660 | -106497 |
| | NL1/1a | GW / opgw | 1514 | 7594 | 14937 | 1516 | 19593 |
| Wind, 10°C | 380C1F1 | 11178 | 54068 | 108433 | 11187 | 117242 | -194646 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 11178 | 53592 | 108034 | 11186 | 110628 | -185167 |
| | 380C1F3 | 11178 | 53007 | 107581 | 11184 | 102083 | -172902 |
| | RTG | 3028 | 14466 | 29197 | 3030 | 29801 | -50125 |
| | 380C2F1 | 11178 | 54068 | 108433 | 11187 | 117242 | -194646 |
| | 380C2F2 | 11178 | 53592 | 108034 | 11186 | 110628 | -185167 |
| | 380C2F3 | 11178 | 53007 | 107581 | 11184 | 102083 | -172902 |
| | NL1/1b | GW / opgw | 1513 | 8060 | 17015 | 1513 | 9547 |
| Wind, -20°C | 380C1F1 | 11172 | 61479 | 130339 | 11173 | 68678 | -135937 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 11172 | 61421 | 130339 | 11173 | 67788 | -134969 |
| | 380C1F3 | 11172 | 61347 | 130342 | 11173 | 66699 | -133844 |
| | RTG | 3027 | 16036 | 34025 | 3027 | 17733 | -35274 |
| | 380C2F1 | 11172 | 61479 | 130339 | 11173 | 68678 | -135937 |
| | 380C2F2 | 11172 | 61421 | 130339 | 11173 | 67788 | -134969 |
| | 380C2F3 | 11172 | 61347 | 130342 | 11173 | 66699 | -133844 |
| | NL1/3 | GW / opgw | 7659 | 24225 | 50568 | 7661 | 30150 |
| Wind, -5°C | 380C1F1 | 41153 | 140176 | 294606 | 41160 | 164742 | -307973 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 41153 | 139957 | 294633 | 41159 | 161847 | -305519 |
| | 380C1F3 | 41153 | 139678 | 294676 | 41158 | 158269 | -302679 |
| | RTG | 15319 | 48056 | 101183 | 15321 | 55120 | -104068 |
| | 380C2F1 | 41153 | 140176 | 294606 | 41160 | 164742 | -307973 |
| | 380C2F2 | 41153 | 139957 | 294633 | 41159 | 161847 | -305519 |
| | 380C2F3 | 41153 | 139678 | 294676 | 41158 | 158269 | -302679 |
| | NL1/4 | GW / opgw | 2266 | 9533 | 20174 | 2266 | 10698 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 61972 | 131396 | 14184 | 68247 | -135008 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 14184 | 61917 | 131403 | 14184 | 67494 | -134333 |
| | 380C1F3 | 14184 | 61847 | 131413 | 14184 | 66569 | -133559 |
| | RTG | 4531 | 18989 | 40357 | 4531 | 20364 | -40914 |
| | 380C2F1 | 14184 | 61972 | 131396 | 14184 | 68247 | -135008 |
| | 380C2F2 | 14184 | 61917 | 131403 | 14184 | 67494 | -134333 |
| | 380C2F3 | 14184 | 61847 | 131413 | 14184 | 66569 | -133559 |
| | NL1/1a | GW / opgw | 1515 | 18593 | 30398 | 1515 | 18593 |
| Wind, 10°C | 380C1F1 | 11186 | 111669 | 186661 | 11186 | 111669 | -186661 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 11185 | 105500 | 177808 | 11185 | 105500 | -177808 |
| | 380C1F3 | 11184 | 97552 | 166399 | 11184 | 97552 | -166399 |
| | RTG | 3030 | 28411 | 48107 | 3030 | 28411 | -48107 |
| | 380C2F1 | 11186 | 111669 | 186661 | 11186 | 111669 | -186661 |
| | 380C2F2 | 11185 | 105500 | 177808 | 11185 | 105500 | -177808 |
| | 380C2F3 | 11184 | 97552 | 166399 | 11184 | 97552 | -166399 |
| | NL1/1b | GW / opgw | 1513 | 9390 | 18244 | 1513 | 9390 |
| Wind, -20°C | 380C1F1 | 11173 | 67926 | 135116 | 11173 | 67926 | -135116 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 11173 | 67127 | 134277 | 11173 | 67127 | -134277 |
| | 380C1F3 | 11173 | 66148 | 133304 | 11173 | 66148 | -133304 |
| | RTG | 3027 | 17556 | 35087 | 3027 | 17556 | -35087 |
| | 380C2F1 | 11173 | 67926 | 135116 | 11173 | 67926 | -135116 |
| | 380C2F2 | 11173 | 67127 | 134277 | 11173 | 67127 | -134277 |
| | 380C2F3 | 11173 | 66148 | 133304 | 11173 | 66148 | -133304 |
| | NL1/3 | GW / opgw | 7661 | 29559 | 53674 | 7661 | 29559 |
| Wind, -5°C | 380C1F1 | 41159 | 162296 | 305890 | 41159 | 162296 | -305890 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 41158 | 159679 | 303769 | 41158 | 159679 | -303769 |
| | 380C1F3 | 41157 | 156443 | 301328 | 41157 | 156443 | -301328 |
| | RTG | 15320 | 54430 | 103575 | 15320 | 54430 | -103575 |
| | 380C2F1 | 41159 | 162296 | 305890 | 41159 | 162296 | -305890 |
| | 380C2F2 | 41158 | 159679 | 303769 | 41158 | 159679 | -303769 |
| | 380C2F3 | 41157 | 156443 | 301328 | 41157 | 156443 | -301328 |

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|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| NL1/4 | GW / opgw | 2266 | 10579 | 20793 | 2266 | 10579 | -20793 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 67611 | 134434 | 14184 | 67611 | -134434 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 66933 | 133855 | 14184 | 66933 | -133855 |
| Wind angle: 90° | 380C1F3 | 14184 | 66099 | 133194 | 14184 | 66099 | -133194 |
| | RTG | 4531 | 20228 | 40816 | 4531 | 20228 | -40816 |
| | 380C2F1 | 14184 | 67611 | 134434 | 14184 | 67611 | -134434 |
| | 380C2F2 | 14184 | 66933 | 133855 | 14184 | 66933 | -133855 |
| | 380C2F3 | 14184 | 66099 | 133194 | 14184 | 66099 | -133194 |
| NL1/1a | GW / opgw | 1516 | 19593 | 31831 | 1514 | 7594 | -14937 |
| Wind, 10°C | 380C1F1 | 11187 | 117242 | 194646 | 11178 | 54068 | -108433 |
| Permanent loads yg= 0.9 | 380C1F2 | 11186 | 110628 | 185167 | 11178 | 53592 | -108034 |
| Wind angle: -45° | 380C1F3 | 11184 | 102083 | 172902 | 11178 | 53007 | -107581 |
| | RTG | 3030 | 29801 | 50125 | 3028 | 14466 | -29197 |
| | 380C2F1 | 11187 | 117242 | 194646 | 11178 | 54068 | -108433 |
| | 380C2F2 | 11186 | 110628 | 185167 | 11178 | 53592 | -108034 |
| | 380C2F3 | 11184 | 102083 | 172902 | 11178 | 53007 | -107581 |
| NL1/1b | GW / opgw | 1513 | 9547 | 18439 | 1513 | 8060 | -17015 |
| Wind, -20°C | 380C1F1 | 11173 | 68678 | 135937 | 11172 | 61479 | -130339 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 67788 | 134969 | 11172 | 61421 | -130339 |
| Wind angle: -45° | 380C1F3 | 11173 | 66699 | 133844 | 11172 | 61347 | -130342 |
| | RTG | 3027 | 17733 | 35274 | 3027 | 16036 | -34025 |
| | 380C2F1 | 11173 | 68678 | 135937 | 11172 | 61479 | -130339 |
| | 380C2F2 | 11173 | 67788 | 134969 | 11172 | 61421 | -130339 |
| | 380C2F3 | 11173 | 66699 | 133844 | 11172 | 61347 | -130342 |
| NL1/3 | GW / opgw | 7661 | 30150 | 54211 | 7659 | 24225 | -50568 |
| Wind, -5°C | 380C1F1 | 41160 | 164742 | 307973 | 41153 | 140176 | -294606 |
| Permanent loads yg= 0.9 | 380C1F2 | 41159 | 161847 | 305519 | 41153 | 139957 | -294633 |
| Wind angle: -45° | 380C1F3 | 41158 | 158269 | 302679 | 41153 | 139678 | -294676 |
| | RTG | 15321 | 55120 | 104068 | 15319 | 48056 | -101183 |
| | 380C2F1 | 41160 | 164742 | 307973 | 41153 | 140176 | -294606 |
| | 380C2F2 | 41159 | 161847 | 305519 | 41153 | 139957 | -294633 |
| | 380C2F3 | 41158 | 158269 | 302679 | 41153 | 139678 | -294676 |
| NL1/4 | GW / opgw | 2266 | 10698 | 20907 | 2266 | 9533 | -20174 |
| Construction/maintenance, +5°C | 380C1F1 | 14184 | 68247 | 135008 | 14184 | 61972 | -131396 |
| Permanent loads yg= 0.9 | 380C1F2 | 14184 | 67494 | 134333 | 14184 | 61917 | -131403 |
| Wind angle: -45° | 380C1F3 | 14184 | 66569 | 133559 | 14184 | 61847 | -131413 |
| | RTG | 4531 | 20364 | 40914 | 4531 | 18989 | -40357 |
| | 380C2F1 | 14184 | 68247 | 135008 | 14184 | 61972 | -131396 |
| | 380C2F2 | 14184 | 67494 | 134333 | 14184 | 61917 | -131403 |
| | 380C2F3 | 14184 | 66569 | 133559 | 14184 | 61847 | -131413 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 9006 | 18243 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 |
| | RTG | 4038 | 17571 | 36232 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 9873 | 20843 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 |
| | RTG | 4036 | 19647 | 41687 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 11568 | 23120 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| | RTG | 5019 | 22388 | 45727 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 10663 | 22537 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| | RTG | 5241 | 21232 | 45086 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2019 | 8772 | 18110 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| | RTG | 4038 | 17294 | 36137 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 9820 | 20844 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| | RTG | 4036 | 19579 | 41696 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|---|---|---|
| | 380C2F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| | RTG | 5019 | 21923 | 45519 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| | RTG | 5241 | 21167 | 45100 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| | RTG | 4039 | 22232 | 41012 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| | RTG | 4036 | 20557 | 42034 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |
| | RTG | 5021 | 30254 | 54373 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| | RTG | 5241 | 22053 | 45241 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| | RTG | 4039 | 22805 | 41740 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|---|---|---|
| | RTG | 4036 | 20663 | 42109 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| | RTG | 5021 | 31194 | 55599 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| | 380C2F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| | RTG | 5241 | 22145 | 45285 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| | RTG | 3028 | 14197 | 28996 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| | RTG | 3027 | 16074 | 34026 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| | RTG | 4009 | 19222 | 38938 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| | RTG | 4230 | 18058 | 38279 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| | RTG | 3028 | 13882 | 28820 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |

| | | | | | | | |
|---|-----------|-------|--------|--------|---|---|---|
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| | 380C1F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| | RTG | 3027 | 16003 | 34027 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2005 | 9585 | 19450 | 0 | 0 | 0 |
| | 380C1F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| | 380C1F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| | 380C1F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 |
| | RTG | 4009 | 18704 | 38615 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| 380C2F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 2115 | 9026 | 19140 | 0 | 0 | 0 |
| | 380C1F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| | 380C1F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 |
| | RTG | 4230 | 17991 | 38290 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| 380C2F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1515 | 12068 | 20957 | 0 | 0 | 0 |
| | 380C1F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| | 380C1F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| | 380C1F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 |
| | RTG | 3029 | 19737 | 35661 | 0 | 0 | 0 |
| | 380C2F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| 380C2F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 1513 | 8998 | 17781 | 0 | 0 | 0 |
| | 380C1F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| | 380C1F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 |
| | RTG | 3027 | 17117 | 34657 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| 380C2F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2006 | 17461 | 29681 | 0 | 0 | 0 |
| | 380C1F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| | 380C1F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| | 380C1F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 |
| | RTG | 4011 | 28171 | 49908 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| | 380C2F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| 380C2F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2115 | 9823 | 19551 | 0 | 0 | 0 |
| | 380C1F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| | 380C1F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 |
| | RTG | 4231 | 18944 | 38574 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| 380C2F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1515 | 12597 | 21720 | 0 | 0 | 0 |
| | 380C1F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| | 380C1F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| | 380C1F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 |
| | RTG | 3029 | 20403 | 36590 | 0 | 0 | 0 |
| | 380C2F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| 380C2F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 | |

| | | | | | | | |
|--|-----------|-------|-------|--------|---|---|---|
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1513 | 9111 | 17911 | 0 | 0 | 0 |
| | 380C1F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| | 380C1F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| | 380C1F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| | RTG | 3027 | 17243 | 34775 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2006 | 18256 | 30804 | 0 | 0 | 0 |
| | 380C1F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| | 380C1F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| | 380C1F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| | RTG | 4011 | 29210 | 51346 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| | 380C2F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2115 | 9913 | 19630 | 0 | 0 | 0 |
| | 380C1F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |
| | 380C1F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |
| | RTG | 4231 | 19046 | 38640 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2019 | 9006 | -18243 |
| | 380C1F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 |
| | 380C1F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 |
| | 380C1F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 |
| | RTG | 0 | 0 | 0 | 4038 | 17571 | -36232 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2018 | 9873 | -20843 |
| | 380C1F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 |
| | RTG | 0 | 0 | 0 | 4036 | 19647 | -41687 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2510 | 11568 | -23120 |
| | 380C1F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |
| | 380C1F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| | 380C1F3 | 0 | 0 | 0 | 17300 | 77703 | -160699 |
| | RTG | 0 | 0 | 0 | 5019 | 22388 | -45727 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|--------|---------|
| | 380C2F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 77703 | -160699 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10663 | -22537 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17312 | 71824 | -152538 |
| | RTG | 0 | 0 | 0 | 5241 | 21232 | -45086 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 71824 | -152538 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13519 | -23697 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14909 | 80805 | -149365 |
| | RTG | 0 | 0 | 0 | 4039 | 22805 | -41740 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 80805 | -149365 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10737 | -21398 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14900 | 77455 | -158746 |
| | RTG | 0 | 0 | 0 | 4036 | 20663 | -42109 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 77455 | -158746 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18976 | -32347 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17303 | 98026 | -180861 |
| | RTG | 0 | 0 | 0 | 5021 | 31194 | -55599 |
| | 380C2F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| | 380C2F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 98026 | -180861 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17312 | 74885 | -153231 |
| | RTG | 0 | 0 | 0 | 5241 | 22145 | -45285 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 74885 | -153231 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13044 | -23048 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 |
| | RTG | 0 | 0 | 0 | 4039 | 22232 | -41012 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10644 | -21311 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| | RTG | 0 | 0 | 0 | 4036 | 20557 | -42034 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18230 | -31330 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|--------|---------|
| | RTG | 0 | 0 | 0 | 5021 | 30254 | -54373 |
| | 380C2F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11340 | -22803 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| | RTG | 0 | 0 | 0 | 5241 | 22053 | -45241 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 8772 | -18110 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| | RTG | 0 | 0 | 0 | 4038 | 17294 | -36137 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 9820 | -20844 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| | RTG | 0 | 0 | 0 | 4036 | 19579 | -41696 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 11171 | -22851 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| | RTG | 0 | 0 | 0 | 5019 | 21923 | -45519 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| | RTG | 0 | 0 | 0 | 5241 | 21167 | -45100 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| | RTG | 0 | 0 | 0 | 3028 | 14197 | -28996 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| | RTG | 0 | 0 | 0 | 3027 | 16074 | -34026 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |

| | | | | | | | |
|---|-----------|---|---|-------|-------|---------|---------|
| Permanent loads yg= 0.9 Wind angle: 0° | 380C1F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| | 380C1F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| | RTG | 0 | 0 | 0 | 4009 | 19222 | -38938 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 2115 | 9078 | -19138 |
| | 380C1F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| | 380C1F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |
| | 380C1F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 |
| | RTG | 0 | 0 | 0 | 4230 | 18058 | -38279 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |
| 380C2F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1515 | 12597 | -21720 |
| | 380C1F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| | 380C1F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| | 380C1F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 |
| | RTG | 0 | 0 | 0 | 3029 | 20403 | -36590 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| 380C2F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 1513 | 9111 | -17911 |
| | 380C1F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| | 380C1F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| | 380C1F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 |
| | RTG | 0 | 0 | 0 | 3027 | 17243 | -34775 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| 380C2F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 | |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2006 | 18256 | -30804 |
| | 380C1F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| | 380C1F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| | 380C1F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 |
| | RTG | 0 | 0 | 0 | 4011 | 29210 | -51346 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| 380C2F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 2115 | 9913 | -19630 |
| | 380C1F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| | 380C1F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| | 380C1F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 |
| | RTG | 0 | 0 | 0 | 4231 | 19046 | -38640 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| 380C2F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 | |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1515 | 12068 | -20957 |
| | 380C1F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| | 380C1F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| | 380C1F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 |
| | RTG | 0 | 0 | 0 | 3029 | 19737 | -35661 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| 380C2F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 | |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 0 | 0 | 0 | 1513 | 8998 | -17781 |
| | 380C1F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| | 380C1F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| | 380C1F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 |
| | RTG | 0 | 0 | 0 | 3027 | 17117 | -34657 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| 380C2F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 | |

| | | | | | | | |
|--------------------------------|-----------|---|---|---|-------|-------|---------|
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 17461 | -29681 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |
| | RTG | 0 | 0 | 0 | 4011 | 28171 | -49908 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9823 | -19551 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| | RTG | 0 | 0 | 0 | 4231 | 18944 | -38574 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7082 | -14487 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| | RTG | 0 | 0 | 0 | 3028 | 13882 | -28820 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8034 | -17013 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| | RTG | 0 | 0 | 0 | 3027 | 16003 | -34027 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 9585 | -19450 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |
| | RTG | 0 | 0 | 0 | 4009 | 18704 | -38615 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9026 | -19140 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |
| | RTG | 0 | 0 | 0 | 4230 | 17991 | -38290 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |

NWW6HL350UY

Loadcases for tower strength (Special limit state)

Appendix NWW6HL350UY / NL3

Ahead

Back

| Loadcase according to 50341-3-15 | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
|----------------------------------|-----------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| Att. Point | | | | | | | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 9006 | -18243 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 |
| | RTG | 0 | 0 | 0 | 4038 | 17571 | -36232 |
| | 380C2F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| | 380C2F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| | 380C2F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 9873 | -20843 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 |
| | RTG | 0 | 0 | 0 | 4036 | 19647 | -41687 |
| | 380C2F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| | 380C2F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| | 380C2F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 11568 | -23120 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17300 | 77703 | -160699 |
| | RTG | 0 | 0 | 0 | 5019 | 22388 | -45727 |
| | 380C2F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| | 380C2F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| | 380C2F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10663 | -22537 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17312 | 71824 | -152538 |
| | RTG | 0 | 0 | 0 | 5241 | 21232 | -45086 |
| | 380C2F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| | 380C2F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| | 380C2F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13519 | -23697 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14909 | 80805 | -149365 |
| | RTG | 0 | 0 | 0 | 4039 | 22805 | -41740 |
| | 380C2F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| | 380C2F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |
| | 380C2F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10737 | -21398 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 14900 | 77455 | -158746 |
| | RTG | 0 | 0 | 0 | 4036 | 20663 | -42109 |
| | 380C2F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 |
| | 380C2F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 |
| | 380C2F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18976 | -32347 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 17303 | 98026 | -180861 |
| | RTG | 0 | 0 | 0 | 5021 | 31194 | -55599 |
| | 380C2F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 |
| | 380C2F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 |
| | 380C2F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |

| | | | | | | | | |
|--|--|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 45° | 380C1F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 | |
| | 380C1F3 | 0 | 0 | 0 | 17312 | 74885 | -153231 | |
| | RTG | 0 | 0 | 0 | 5241 | 22145 | -45285 | |
| | 380C2F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 | |
| | 380C2F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 | |
| | 380C2F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 | |
| | NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13044 | -23048 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 | |
| | 380C1F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 | |
| | 380C1F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 | |
| | RTG | 0 | 0 | 0 | 4039 | 22232 | -41012 | |
| | 380C2F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 | |
| | 380C2F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 | |
| | 380C2F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10644 | -21311 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| | | 380C1F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| | | 380C1F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| | | RTG | 0 | 0 | 0 | 4036 | 20557 | -42034 |
| | | 380C2F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 |
| | | 380C2F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 |
| 380C2F3 | | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18230 | -31330 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| | | 380C1F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| | | 380C1F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |
| | | RTG | 0 | 0 | 0 | 5021 | 30254 | -54373 |
| | | 380C2F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 |
| | | 380C2F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 |
| 380C2F3 | | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 | |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11340 | -22803 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| | | 380C1F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| | | 380C1F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| | | RTG | 0 | 0 | 0 | 5241 | 22053 | -45241 |
| | | 380C2F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 |
| | | 380C2F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 |
| 380C2F3 | | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 8772 | -18110 | |
| | Wind, 10°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| | | 380C1F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| | | 380C1F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| | | RTG | 0 | 0 | 0 | 4038 | 17294 | -36137 |
| | | 380C2F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 |
| | | 380C2F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| 380C2F3 | | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 9820 | -20844 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| | | 380C1F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| | | 380C1F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| | | RTG | 0 | 0 | 0 | 4036 | 19579 | -41696 |
| | | 380C2F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| | | 380C2F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| 380C2F3 | | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 11171 | -22851 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: -45° | 380C1F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| | | 380C1F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| | | 380C1F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| | | RTG | 0 | 0 | 0 | 5019 | 21923 | -45519 |
| | | 380C2F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| | | 380C2F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| 380C2F3 | | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 | |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| | RTG | 0 | 0 | 0 | 5241 | 21167 | -45100 |
| | 380C2F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| | 380C2F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| | 380C2F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| | RTG | 0 | 0 | 0 | 3028 | 14197 | -28996 |
| | 380C2F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| | 380C2F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |
| | 380C2F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| | RTG | 0 | 0 | 0 | 3027 | 16074 | -34026 |
| | 380C2F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| | 380C2F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| | 380C2F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| | RTG | 0 | 0 | 0 | 4009 | 19222 | -38938 |
| | 380C2F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| | 380C2F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| | 380C2F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9078 | -19138 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 |
| | RTG | 0 | 0 | 0 | 4230 | 18058 | -38279 |
| | 380C2F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| | 380C2F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| | 380C2F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 12597 | -21720 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 |
| | RTG | 0 | 0 | 0 | 3029 | 20403 | -36590 |
| | 380C2F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| | 380C2F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| | 380C2F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 9111 | -17911 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 |
| | RTG | 0 | 0 | 0 | 3027 | 17243 | -34775 |
| | 380C2F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| | 380C2F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| | 380C2F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 18256 | -30804 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 |
| | RTG | 0 | 0 | 0 | 4011 | 29210 | -51346 |
| | 380C2F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| | 380C2F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9913 | -19630 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 |
| | RTG | 0 | 0 | 0 | 4231 | 19046 | -38640 |
| | 380C2F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| | 380C2F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| | 380C2F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 12068 | -20957 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 |
| | RTG | 0 | 0 | 0 | 3029 | 19737 | -35661 |
| | 380C2F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| | 380C2F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| | 380C2F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8998 | -17781 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 |
| | RTG | 0 | 0 | 0 | 3027 | 17117 | -34657 |
| | 380C2F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |
| | 380C2F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| | 380C2F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 17461 | -29681 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |
| | RTG | 0 | 0 | 0 | 4011 | 28171 | -49908 |
| | 380C2F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| | 380C2F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| | 380C2F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9823 | -19551 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| | RTG | 0 | 0 | 0 | 4231 | 18944 | -38574 |
| | 380C2F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| | 380C2F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| | 380C2F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7082 | -14487 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| | RTG | 0 | 0 | 0 | 3028 | 13882 | -28820 |
| | 380C2F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| | 380C2F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| | 380C2F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8034 | -17013 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| | RTG | 0 | 0 | 0 | 3027 | 16003 | -34027 |
| | 380C2F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| | 380C2F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |
| | 380C2F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 9585 | -19450 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 4009 | 18704 | -38615 |
| | 380C2F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| | 380C2F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| | 380C2F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9026 | -19140 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |
| | RTG | 0 | 0 | 0 | 4230 | 17991 | -38290 |
| | 380C2F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| | 380C2F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| | 380C2F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 9006 | 18243 | 2019 | 9006 | -18243 |
| Wind, 10°C | 380C1F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| Wind angle: 0° | 380C1F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 |
| | RTG | 4038 | 17571 | 36232 | 4038 | 17571 | -36232 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 |
| NL3/1b | GW / opgw | 2018 | 9873 | 20843 | 2018 | 9873 | -20843 |
| Wind, -20°C | 380C1F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| Wind angle: 0° | 380C1F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 |
| | RTG | 4036 | 19647 | 41687 | 4036 | 19647 | -41687 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 |
| NL3/3 | GW / opgw | 2510 | 11568 | 23120 | 2510 | 11568 | -23120 |
| Wind, -5°C | 380C1F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| Wind angle: 0° | 380C1F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 |
| | RTG | 5019 | 22388 | 45727 | 5019 | 22388 | -45727 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 77703 | -160699 |
| NL3/4 | GW / opgw | 2620 | 10663 | 22537 | 2620 | 10663 | -22537 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| Wind angle: 0° | 380C1F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 |
| | RTG | 5241 | 21232 | 45086 | 5241 | 21232 | -45086 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 71824 | -152538 |
| NL3/1a | GW / opgw | 2019 | 8772 | 18110 | 2020 | 13519 | -23697 |
| Wind, 10°C | 380C1F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| Wind angle: 45° | 380C1F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 |
| | RTG | 4038 | 17294 | 36137 | 4039 | 22805 | -41740 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 80805 | -149365 |
| NL3/1b | GW / opgw | 2018 | 9820 | 20844 | 2018 | 10737 | -21398 |
| Wind, -20°C | 380C1F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 |
| Wind angle: 45° | 380C1F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 |
| | RTG | 4036 | 19579 | 41696 | 4036 | 20663 | -42109 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 77455 | -158746 |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 2511 | 18976 | -32347 |
| Wind, -5°C | 380C1F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 |
| Wind angle: 45° | 380C1F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 |
| | RTG | 5019 | 21923 | 45519 | 5021 | 31194 | -55599 |
| | 380C2F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| | 380C2F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 98026 | -180861 |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 |
| Wind angle: 45° | 380C1F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 |
| | RTG | 5241 | 21167 | 45100 | 5241 | 22145 | -45285 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 74885 | -153231 |
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 2020 | 13044 | -23048 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 |
| | RTG | 4039 | 22232 | 41012 | 4039 | 22232 | -41012 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 2018 | 10644 | -21311 |
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 |
| | RTG | 4036 | 20557 | 42034 | 4036 | 20557 | -42034 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 2511 | 18230 | -31330 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 |
| | RTG | 5021 | 30254 | 54373 | 5021 | 30254 | -54373 |
| | 380C2F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 2621 | 11340 | -22803 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 |
| | RTG | 5241 | 22053 | 45241 | 5241 | 22053 | -45241 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 2019 | 8772 | -18110 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 |
| | RTG | 4039 | 22805 | 41740 | 4038 | 17294 | -36137 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 2018 | 9820 | -20844 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 |
| | RTG | 4036 | 20663 | 42109 | 4036 | 19579 | -41696 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 2510 | 11171 | -22851 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 |
| | RTG | 5021 | 31194 | 55599 | 5019 | 21923 | -45519 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| | RTG | 5241 | 22145 | 45285 | 5241 | 21167 | -45100 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| | RTG | 3028 | 14197 | 28996 | 3028 | 14197 | -28996 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |
| | RTG | 3027 | 16074 | 34026 | 3027 | 16074 | -34026 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| | RTG | 4009 | 19222 | 38938 | 4009 | 19222 | -38938 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 2115 | 9078 | -19138 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| | RTG | 4230 | 18058 | 38279 | 4230 | 18058 | -38279 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 1515 | 12597 | -21720 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| | RTG | 3028 | 13882 | 28820 | 3029 | 20403 | -36590 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 1513 | 9111 | -17911 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| Wind angle: 45° | 380C1F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| | RTG | 3027 | 16003 | 34027 | 3027 | 17243 | -34775 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 |
| NL3/3 | GW / opgw | 2005 | 9585 | 19450 | 2006 | 18256 | -30804 |
| Wind, -5°C | 380C1F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| Wind angle: 45° | 380C1F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| | RTG | 4009 | 18704 | 38615 | 4011 | 29210 | -51346 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 |
| NL3/4 | GW / opgw | 2115 | 9026 | 19140 | 2115 | 9913 | -19630 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| Wind angle: 45° | 380C1F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| | RTG | 4230 | 17991 | 38290 | 4231 | 19046 | -38640 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 |
| NL3/1a | GW / opgw | 1515 | 12068 | 20957 | 1515 | 12068 | -20957 |
| Wind, 10°C | 380C1F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| Wind angle: 90° | 380C1F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| | RTG | 3029 | 19737 | 35661 | 3029 | 19737 | -35661 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 |
| NL3/1b | GW / opgw | 1513 | 8998 | 17781 | 1513 | 8998 | -17781 |
| Wind, -20°C | 380C1F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| Wind angle: 90° | 380C1F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| | RTG | 3027 | 17117 | 34657 | 3027 | 17117 | -34657 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 |
| NL3/3 | GW / opgw | 2006 | 17461 | 29681 | 2006 | 17461 | -29681 |
| Wind, -5°C | 380C1F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| Wind angle: 90° | 380C1F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| | RTG | 4011 | 28171 | 49908 | 4011 | 28171 | -49908 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 2115 | 9823 | 19551 | 2115 | 9823 | -19551 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| Wind angle: 90° | 380C1F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| | RTG | 4231 | 18944 | 38574 | 4231 | 18944 | -38574 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 1515 | 12597 | 21720 | 1514 | 7082 | -14487 |
| Wind, 10°C | 380C1F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| Wind angle: -45° | 380C1F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| | RTG | 3029 | 20403 | 36590 | 3028 | 13882 | -28820 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| NL3/1b | GW / opgw | 1513 | 9111 | 17911 | 1513 | 8034 | -17013 |
| Wind, -20°C | 380C1F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |
| Wind angle: -45° | 380C1F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| | RTG | 3027 | 17243 | 34775 | 3027 | 16003 | -34027 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| NL3/3 | GW / opgw | 2006 | 18256 | 30804 | 2005 | 9585 | -19450 |
| Wind, -5°C | 380C1F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| Wind angle: -45° | 380C1F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| | RTG | 4011 | 29210 | 51346 | 4009 | 18704 | -38615 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |
| NL3/4 | GW / opgw | 2115 | 9913 | 19630 | 2115 | 9026 | -19140 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| Wind angle: -45° | 380C1F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |
| | RTG | 4231 | 19046 | 38640 | 4230 | 17991 | -38290 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 9006 | 18243 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 |
| | RTG | 4038 | 17571 | 36232 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| | 380C2F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| | 380C2F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 |
| NL3/1b | GW / opgw | 2018 | 9873 | 20843 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|--------|---------|
| Wind angle: 0° | 380C1F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 |
| | RTG | 4036 | 19647 | 41687 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| | 380C2F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| | 380C2F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 |
| NL3/3 | GW / opgw | 2510 | 11568 | 23120 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| | RTG | 5019 | 22388 | 45727 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| | 380C2F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| | 380C2F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 |
| NL3/4 | GW / opgw | 2620 | 10663 | 22537 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| | RTG | 5241 | 21232 | 45086 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| | 380C2F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| | 380C2F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 |
| NL3/1a | GW / opgw | 2019 | 8772 | 18110 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| | RTG | 4038 | 17294 | 36137 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| | 380C2F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |
| | 380C2F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 |
| NL3/1b | GW / opgw | 2018 | 9820 | 20844 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| | RTG | 4036 | 19579 | 41696 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 |
| | 380C2F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 |
| | 380C2F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| | RTG | 5019 | 21923 | 45519 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 |
| | 380C2F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 |
| | 380C2F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| | RTG | 5241 | 21167 | 45100 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 |
| | 380C2F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 |
| | 380C2F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 |
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| | RTG | 4039 | 22232 | 41012 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 |
| | 380C2F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 |
| | 380C2F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| | RTG | 4036 | 20557 | 42034 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 |
| | 380C2F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 |
| | 380C2F3 | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |
| | RTG | 5021 | 30254 | 54373 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 |
| | 380C2F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 |
| | 380C2F3 | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| | RTG | 5241 | 22053 | 45241 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 |
| | 380C2F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 |
| | 380C2F3 | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| | RTG | 4039 | 22805 | 41740 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 |
| | 380C2F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| | 380C2F3 | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |
| | RTG | 4036 | 20663 | 42109 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| | 380C2F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| | 380C2F3 | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| | RTG | 5021 | 31194 | 55599 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| | 380C2F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| | 380C2F3 | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| | RTG | 5241 | 22145 | 45285 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| | 380C2F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| | 380C2F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| | RTG | 3028 | 14197 | 28996 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| | 380C2F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| | RTG | 3027 | 16074 | 34026 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| | 380C2F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| | 380C2F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| | RTG | 4009 | 19222 | 38938 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| | 380C2F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| | 380C2F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| | RTG | 4230 | 18058 | 38279 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| | 380C2F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| | 380C2F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| | RTG | 3028 | 13882 | 28820 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| | 380C2F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| | 380C2F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| | RTG | 3027 | 16003 | 34027 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| | 380C2F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| | 380C2F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| NL3/3 | GW / opgw | 2005 | 9585 | 19450 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 |
| | RTG | 4009 | 18704 | 38615 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |
| | 380C2F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| | 380C2F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| NL3/4 | GW / opgw | 2115 | 9026 | 19140 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 |
| | RTG | 4230 | 17991 | 38290 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| | 380C2F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| | 380C2F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| NL3/1a | GW / opgw | 1515 | 12068 | 20957 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 |
| | RTG | 3029 | 19737 | 35661 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| | 380C2F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| | 380C2F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| NL3/1b | GW / opgw | 1513 | 8998 | 17781 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 |
| | RTG | 3027 | 17117 | 34657 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |
| | 380C2F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| | 380C2F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| NL3/3 | GW / opgw | 2006 | 17461 | 29681 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 |
| | RTG | 4011 | 28171 | 49908 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| | 380C2F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| | 380C2F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 2115 | 9823 | 19551 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 |
| | RTG | 4231 | 18944 | 38574 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| | 380C2F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| | 380C2F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 1515 | 12597 | 21720 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 |
| | RTG | 3029 | 20403 | 36590 | 0 | 0 | 0 |
| | 380C2F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| | 380C2F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| | 380C2F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| NL3/1b | GW / opgw | 1513 | 9111 | 17911 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| | RTG | 3027 | 17243 | 34775 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| | 380C2F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |
| | 380C2F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| NL3/3 | GW / opgw | 2006 | 18256 | 30804 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| | RTG | 4011 | 29210 | 51346 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| | 380C2F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| | 380C2F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| NL3/4 | GW / opgw | 2115 | 9913 | 19630 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |
| | RTG | 4231 | 19046 | 38640 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| | 380C2F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| | 380C2F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |

NWW6HL350UY

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2019 | 9006 | 18243 | 2019 | 9006 | -18243 |
| | 380C1F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| | 380C1F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| | 380C1F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 |
| | RTG | 4038 | 17571 | 36232 | 4038 | 17571 | -36232 |
| | 380C2F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2018 | 9873 | 20843 | 2018 | 9873 | -20843 |
| | 380C1F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| | 380C1F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| | 380C1F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 |
| | RTG | 4036 | 19647 | 41687 | 4036 | 19647 | -41687 |
| | 380C2F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2510 | 11568 | 23120 | 2510 | 11568 | -23120 |
| | 380C1F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| | 380C1F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| | 380C1F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 |
| | RTG | 5019 | 22388 | 45727 | 5019 | 22388 | -45727 |
| | 380C2F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2620 | 10663 | 22537 | 2620 | 10663 | -22537 |
| | 380C1F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| | 380C1F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| | 380C1F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 |
| | RTG | 5241 | 21232 | 45086 | 5241 | 21232 | -45086 |
| | 380C2F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2019 | 8772 | 18110 | 2020 | 13519 | -23697 |
| | 380C1F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| | 380C1F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |
| | 380C1F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 |
| | RTG | 4038 | 17294 | 36137 | 4039 | 22805 | -41740 |
| | 380C2F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 2018 | 9820 | 20844 | 2018 | 10737 | -21398 |
| | 380C1F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 |
| | 380C1F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 |
| | 380C1F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 |
| | RTG | 4036 | 19579 | 41696 | 4036 | 20663 | -42109 |
| | 380C2F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 2511 | 18976 | -32347 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| Wind, -5°C | 380C1F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 |
| Wind angle: 45° | 380C1F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 |
| | RTG | 5019 | 21923 | 45519 | 5021 | 31194 | -55599 |
| | 380C2F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 |
| Wind angle: 45° | 380C1F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 |
| | RTG | 5241 | 21167 | 45100 | 5241 | 22145 | -45285 |
| | 380C2F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 2020 | 13044 | -23048 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 |
| | RTG | 4039 | 22232 | 41012 | 4039 | 22232 | -41012 |
| | 380C2F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 2018 | 10644 | -21311 |
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 |
| | RTG | 4036 | 20557 | 42034 | 4036 | 20557 | -42034 |
| | 380C2F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 2511 | 18230 | -31330 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 |
| | RTG | 5021 | 30254 | 54373 | 5021 | 30254 | -54373 |
| | 380C2F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 2621 | 11340 | -22803 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 |
| | RTG | 5241 | 22053 | 45241 | 5241 | 22053 | -45241 |
| | 380C2F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 2019 | 8772 | -18110 |
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 |
| | RTG | 4039 | 22805 | 41740 | 4038 | 17294 | -36137 |
| | 380C2F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 2018 | 9820 | -20844 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 |
| | RTG | 4036 | 20663 | 42109 | 4036 | 19579 | -41696 |
| | 380C2F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| | 380C2F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 2510 | 11171 | -22851 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 |
| | RTG | 5021 | 31194 | 55599 | 5019 | 21923 | -45519 |
| | 380C2F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| | 380C2F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| | RTG | 5241 | 22145 | 45285 | 5241 | 21167 | -45100 |
| | 380C2F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| | RTG | 3028 | 14197 | 28996 | 3028 | 14197 | -28996 |
| | 380C2F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |
| | RTG | 3027 | 16074 | 34026 | 3027 | 16074 | -34026 |
| | 380C2F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| | RTG | 4009 | 19222 | 38938 | 4009 | 19222 | -38938 |
| | 380C2F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 2115 | 9078 | -19138 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| | RTG | 4230 | 18058 | 38279 | 4230 | 18058 | -38279 |
| | 380C2F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 1515 | 12597 | -21720 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| | RTG | 3028 | 13882 | 28820 | 3029 | 20403 | -36590 |
| | 380C2F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 1513 | 9111 | -17911 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| Wind angle: 45° | 380C1F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| | RTG | 3027 | 16003 | 34027 | 3027 | 17243 | -34775 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 9585 | 19450 | 2006 | 18256 | -30804 |
| Wind, -5°C | 380C1F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| Wind angle: 45° | 380C1F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| | RTG | 4009 | 18704 | 38615 | 4011 | 29210 | -51346 |
| | 380C2F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9026 | 19140 | 2115 | 9913 | -19630 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| Wind angle: 45° | 380C1F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| | RTG | 4230 | 17991 | 38290 | 4231 | 19046 | -38640 |
| | 380C2F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 12068 | 20957 | 1515 | 12068 | -20957 |
| Wind, 10°C | 380C1F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| Wind angle: 90° | 380C1F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| | RTG | 3029 | 19737 | 35661 | 3029 | 19737 | -35661 |
| | 380C2F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| | 380C2F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8998 | 17781 | 1513 | 8998 | -17781 |
| Wind, -20°C | 380C1F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| Wind angle: 90° | 380C1F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| | RTG | 3027 | 17117 | 34657 | 3027 | 17117 | -34657 |
| | 380C2F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2006 | 17461 | 29681 | 2006 | 17461 | -29681 |
| Wind, -5°C | 380C1F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| Wind angle: 90° | 380C1F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| | RTG | 4011 | 28171 | 49908 | 4011 | 28171 | -49908 |
| | 380C2F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| | 380C2F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9823 | 19551 | 2115 | 9823 | -19551 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| Wind angle: 90° | 380C1F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| | RTG | 4231 | 18944 | 38574 | 4231 | 18944 | -38574 |
| | 380C2F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 12597 | 21720 | 1514 | 7082 | -14487 |
| Wind, 10°C | 380C1F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| Wind angle: -45° | 380C1F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| | RTG | 3029 | 20403 | 36590 | 3028 | 13882 | -28820 |
| | 380C2F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| | 380C2F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 9111 | 17911 | 1513 | 8034 | -17013 |
| Wind, -20°C | 380C1F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| Wind angle: -45° | 380C1F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| | RTG | 3027 | 17243 | 34775 | 3027 | 16003 | -34027 |
| | 380C2F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2006 | 18256 | 30804 | 2005 | 9585 | -19450 |
| Wind, -5°C | 380C1F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| Wind angle: -45° | 380C1F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| | RTG | 4011 | 29210 | 51346 | 4009 | 18704 | -38615 |
| | 380C2F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| | 380C2F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9913 | 19630 | 2115 | 9026 | -19140 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| Wind angle: -45° | 380C1F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |
| | RTG | 4231 | 19046 | 38640 | 4230 | 17991 | -38290 |
| | 380C2F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 9006 | -18243 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 |
| | RTG | 0 | 0 | 0 | 4038 | 17571 | -36232 |
| | 380C2F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 9873 | -20843 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 |
| | RTG | 0 | 0 | 0 | 4036 | 19647 | -41687 |
| | 380C2F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 11568 | -23120 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 17300 | 77703 | -160699 |
| | RTG | 0 | 0 | 0 | 5019 | 22388 | -45727 |
| | 380C2F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10663 | -22537 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |

| | | | | | | | |
|--|-----------|-----------|--------|--------|-------|--------|---------|
| Permanent loads yg= 1.2 Wind angle: 0° | 380C1F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| | 380C1F3 | 0 | 0 | 0 | 17312 | 71824 | -152538 |
| | RTG | 0 | 0 | 0 | 5241 | 21232 | -45086 |
| | 380C2F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| | NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13519 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| | 380C1F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| | 380C1F3 | 0 | 0 | 0 | 14909 | 80805 | -149365 |
| | RTG | 0 | 0 | 0 | 4039 | 22805 | -41740 |
| | 380C2F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| | 380C2F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| | 380C2F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10737 | -21398 |
| Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 77455 | -158746 |
| | RTG | 0 | 0 | 0 | 4036 | 20663 | -42109 |
| | 380C2F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18976 | -32347 |
| Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| | 380C1F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| | 380C1F3 | 0 | 0 | 0 | 17303 | 98026 | -180861 |
| | RTG | 0 | 0 | 0 | 5021 | 31194 | -55599 |
| | 380C2F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| | 380C2F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| | 380C2F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |
| | 380C1F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 |
| | 380C1F3 | 0 | 0 | 0 | 17312 | 74885 | -153231 |
| | RTG | 0 | 0 | 0 | 5241 | 22145 | -45285 |
| | 380C2F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2020 | 13044 | -23048 |
| Wind, 10°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 |
| | 380C1F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 |
| | 380C1F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 |
| | RTG | 0 | 0 | 0 | 4039 | 22232 | -41012 |
| | 380C2F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 10644 | -21311 |
| Wind, -20°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| | 380C1F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| | 380C1F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| | RTG | 0 | 0 | 0 | 4036 | 20557 | -42034 |
| | 380C2F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2511 | 18230 | -31330 |
| Wind, -5°C Permanent loads yg= 1.2 Wind angle: 90° | 380C1F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| | 380C1F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| | 380C1F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |
| | RTG | 0 | 0 | 0 | 5021 | 30254 | -54373 |
| | 380C2F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| | 380C2F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2621 | 11340 | -22803 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| | RTG | 0 | 0 | 0 | 5241 | 22053 | -45241 |
| | 380C2F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 2019 | 8772 | -18110 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| | RTG | 0 | 0 | 0 | 4038 | 17294 | -36137 |
| | 380C2F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| | 380C2F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| | 380C2F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 2018 | 9820 | -20844 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| | RTG | 0 | 0 | 0 | 4036 | 19579 | -41696 |
| | 380C2F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| | 380C2F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |
| | 380C2F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2510 | 11171 | -22851 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| | RTG | 0 | 0 | 0 | 5019 | 21923 | -45519 |
| | 380C2F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| | 380C2F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| | 380C2F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| | RTG | 0 | 0 | 0 | 5241 | 21167 | -45100 |
| | 380C2F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| | 380C2F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| | 380C2F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| | RTG | 0 | 0 | 0 | 3028 | 14197 | -28996 |
| | 380C2F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| | RTG | 0 | 0 | 0 | 3027 | 16074 | -34026 |
| | 380C2F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| | RTG | 0 | 0 | 0 | 4009 | 19222 | -38938 |
| | 380C2F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9078 | -19138 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 |
| | RTG | 0 | 0 | 0 | 4230 | 18058 | -38279 |
| | 380C2F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 12597 | -21720 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 |
| | RTG | 0 | 0 | 0 | 3029 | 20403 | -36590 |
| | 380C2F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| | 380C2F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| | 380C2F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 9111 | -17911 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 |
| | RTG | 0 | 0 | 0 | 3027 | 17243 | -34775 |
| | 380C2F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |
| | 380C2F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| | 380C2F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 18256 | -30804 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 |
| | RTG | 0 | 0 | 0 | 4011 | 29210 | -51346 |
| | 380C2F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| | 380C2F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| | 380C2F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9913 | -19630 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 |
| | RTG | 0 | 0 | 0 | 4231 | 19046 | -38640 |
| | 380C2F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1515 | 12068 | -20957 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 |
| | RTG | 0 | 0 | 0 | 3029 | 19737 | -35661 |
| | 380C2F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| | 380C2F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8998 | -17781 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 |
| | RTG | 0 | 0 | 0 | 3027 | 17117 | -34657 |
| | 380C2F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2006 | 17461 | -29681 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 4011 | 28171 | -49908 |
| | 380C2F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| | 380C2F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9823 | -19551 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| | RTG | 0 | 0 | 0 | 4231 | 18944 | -38574 |
| | 380C2F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 1514 | 7082 | -14487 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| | RTG | 0 | 0 | 0 | 3028 | 13882 | -28820 |
| | 380C2F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| | 380C2F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| | 380C2F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 1513 | 8034 | -17013 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| | RTG | 0 | 0 | 0 | 3027 | 16003 | -34027 |
| | 380C2F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| | 380C2F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| | 380C2F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 2005 | 9585 | -19450 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |
| | RTG | 0 | 0 | 0 | 4009 | 18704 | -38615 |
| | 380C2F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| | 380C2F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| | 380C2F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 2115 | 9026 | -19140 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |
| | RTG | 0 | 0 | 0 | 4230 | 17991 | -38290 |
| | 380C2F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |
| | 380C2F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| | 380C2F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a | GW / opgw | 2019 | 9006 | 18243 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14907 | 65000 | 133424 | 0 | 0 | 0 |

| | | | | | | | | |
|--|--|-----------|-------|--------|--------|-------|---------|---------|
| Permanent loads yg= 1.2 Wind angle: 0° | 380C1F2 | 14907 | 64704 | 133284 | 0 | 0 | 0 | |
| | 380C1F3 | 14907 | 64337 | 133133 | 0 | 0 | 0 | |
| | RTG | 4038 | 17571 | 36232 | 0 | 0 | 0 | |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 65000 | -133424 | |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 64704 | -133284 | |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 64337 | -133133 | |
| | NL3/1b | GW / opgw | 2018 | 9873 | 20843 | 0 | 0 | 0 |
| Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F1 | 14900 | 74361 | 157632 | 0 | 0 | 0 | |
| | 380C1F2 | 14900 | 74292 | 157636 | 0 | 0 | 0 | |
| | 380C1F3 | 14900 | 74205 | 157645 | 0 | 0 | 0 | |
| | RTG | 4036 | 19647 | 41687 | 0 | 0 | 0 | |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74361 | -157632 | |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74292 | -157636 | |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 74205 | -157645 | |
| NL3/3 | GW / opgw | 2510 | 11568 | 23120 | 0 | 0 | 0 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F1 | 17300 | 78524 | 161070 | 0 | 0 | 0 |
| | | 380C1F2 | 17300 | 78158 | 160893 | 0 | 0 | 0 |
| | | 380C1F3 | 17300 | 77703 | 160699 | 0 | 0 | 0 |
| | | RTG | 5019 | 22388 | 45727 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 17300 | 78524 | -161070 |
| | | 380C2F2 | 0 | 0 | 0 | 17300 | 78158 | -160893 |
| 380C2F3 | | 0 | 0 | 0 | 17300 | 77703 | -160699 | |
| NL3/4 | GW / opgw | 2620 | 10663 | 22537 | 0 | 0 | 0 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F1 | 17312 | 71976 | 152515 | 0 | 0 | 0 |
| | | 380C1F2 | 17312 | 71909 | 152524 | 0 | 0 | 0 |
| | | 380C1F3 | 17312 | 71824 | 152538 | 0 | 0 | 0 |
| | | RTG | 5241 | 21232 | 45086 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 17312 | 71976 | -152515 |
| | | 380C2F2 | 0 | 0 | 0 | 17312 | 71909 | -152524 |
| 380C2F3 | | 0 | 0 | 0 | 17312 | 71824 | -152538 | |
| NL3/1a | GW / opgw | 2019 | 8772 | 18110 | 0 | 0 | 0 | |
| | Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 14907 | 63828 | 132969 | 0 | 0 | 0 |
| | | 380C1F2 | 14907 | 63658 | 132929 | 0 | 0 | 0 |
| | | 380C1F3 | 14907 | 63444 | 132889 | 0 | 0 | 0 |
| | | RTG | 4038 | 17294 | 36137 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 14910 | 87181 | -157445 |
| | | 380C2F2 | 0 | 0 | 0 | 14910 | 84338 | -153792 |
| 380C2F3 | | 0 | 0 | 0 | 14909 | 80805 | -149365 | |
| NL3/1b | GW / opgw | 2018 | 9820 | 20844 | 0 | 0 | 0 | |
| | Wind, -20°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 14900 | 74081 | 157664 | 0 | 0 | 0 |
| | | 380C1F2 | 14900 | 74038 | 157672 | 0 | 0 | 0 |
| | | 380C1F3 | 14900 | 73984 | 157684 | 0 | 0 | 0 |
| | | RTG | 4036 | 19579 | 41696 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 14900 | 78648 | -159585 |
| | | 380C2F2 | 0 | 0 | 0 | 14900 | 78114 | -159191 |
| 380C2F3 | | 0 | 0 | 0 | 14900 | 77455 | -158746 | |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 0 | 0 | 0 | |
| | Wind, -5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 17300 | 77074 | 160488 | 0 | 0 | 0 |
| | | 380C1F2 | 17300 | 76864 | 160435 | 0 | 0 | 0 |
| | | 380C1F3 | 17300 | 76601 | 160382 | 0 | 0 | 0 |
| | | RTG | 5019 | 21923 | 45519 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 17304 | 105816 | -190703 |
| | | 380C2F2 | 0 | 0 | 0 | 17304 | 102347 | -186265 |
| 380C2F3 | | 0 | 0 | 0 | 17303 | 98026 | -180861 | |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 0 | 0 | 0 | |
| | Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 45° | 380C1F1 | 17312 | 71702 | 152563 | 0 | 0 | 0 |
| | | 380C1F2 | 17312 | 71661 | 152573 | 0 | 0 | 0 |
| | | 380C1F3 | 17312 | 71607 | 152587 | 0 | 0 | 0 |
| | | RTG | 5241 | 21167 | 45100 | 0 | 0 | 0 |
| | | 380C2F1 | 0 | 0 | 0 | 17312 | 75979 | -153857 |
| | | 380C2F2 | 0 | 0 | 0 | 17312 | 75490 | -153561 |
| 380C2F3 | | 0 | 0 | 0 | 17312 | 74885 | -153231 | |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 0 | 0 | 0 |
| | RTG | 4039 | 22232 | 41012 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14910 | 84779 | -154354 |
| | 380C2F2 | 0 | 0 | 0 | 14910 | 82198 | -151094 |
| | 380C2F3 | 0 | 0 | 0 | 14909 | 79000 | -147164 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 0 | 0 | 0 |
| | RTG | 4036 | 20557 | 42034 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 78196 | -159250 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 77714 | -158916 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 77119 | -158540 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 0 | 0 | 0 |
| | RTG | 5021 | 30254 | 54373 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17304 | 102887 | -186950 |
| | 380C2F2 | 0 | 0 | 0 | 17303 | 99732 | -182975 |
| | 380C2F3 | 0 | 0 | 0 | 17303 | 95812 | -178162 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 0 | 0 | 0 |
| | RTG | 5241 | 22053 | 45241 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 75566 | -153605 |
| | 380C2F2 | 0 | 0 | 0 | 17312 | 75123 | -153356 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 74575 | -153080 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 0 | 0 | 0 |
| | RTG | 4039 | 22805 | 41740 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14907 | 63828 | -132969 |
| | 380C2F2 | 0 | 0 | 0 | 14907 | 63658 | -132929 |
| | 380C2F3 | 0 | 0 | 0 | 14907 | 63444 | -132889 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 0 | 0 | 0 |
| | RTG | 4036 | 20663 | 42109 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 14900 | 74081 | -157664 |
| | 380C2F2 | 0 | 0 | 0 | 14900 | 74038 | -157672 |
| | 380C2F3 | 0 | 0 | 0 | 14900 | 73984 | -157684 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 0 | 0 | 0 |
| | RTG | 5021 | 31194 | 55599 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17300 | 77074 | -160488 |
| | 380C2F2 | 0 | 0 | 0 | 17300 | 76864 | -160435 |
| | 380C2F3 | 0 | 0 | 0 | 17300 | 76601 | -160382 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 0 | 0 | 0 |
| | RTG | 5241 | 22145 | 45285 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 17312 | 71702 | -152563 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 0 | 0 | 0 | 17312 | 71661 | -152573 |
| | 380C2F3 | 0 | 0 | 0 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 0 | 0 | 0 |
| | RTG | 3028 | 14197 | 28996 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 52919 | -107517 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 52577 | -107278 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 0 | 0 | 0 |
| | RTG | 3027 | 16074 | 34026 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61638 | -130348 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61564 | -130342 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 0 | 0 | 0 |
| | RTG | 4009 | 19222 | 38938 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 66862 | -136064 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 66448 | -135782 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 65937 | -135466 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 0 | 0 | 0 |
| | RTG | 4230 | 18058 | 38279 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 60154 | -127165 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 60084 | -127167 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 59996 | -127173 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 0 | 0 | 0 |
| | RTG | 3028 | 13882 | 28820 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 79109 | -140137 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 75837 | -135565 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 71728 | -129902 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61296 | 130346 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 11172 | 61239 | 130353 | 0 | 0 | 0 |
| | RTG | 3027 | 16003 | 34027 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66595 | -133740 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65956 | -133121 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 65173 | -132409 |
| NL3/3 | GW / opgw | 2005 | 9585 | 19450 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13571 | 65236 | 135103 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 65004 | 135004 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13571 | 64716 | 134897 | 0 | 0 | 0 |
| | RTG | 4009 | 18704 | 38615 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 98234 | -174448 |
| | 380C2F2 | 0 | 0 | 0 | 13575 | 94341 | -169099 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 89443 | -162461 |
| NL3/4 | GW / opgw | 2115 | 9026 | 19140 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 59870 | 127188 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 59827 | 127195 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 13582 | 59772 | 127206 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4230 | 17991 | 38290 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13583 | 64601 | -129458 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 64041 | -129010 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 63353 | -128502 |
| NL3/1a | GW / opgw | 1515 | 12068 | 20957 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11181 | 76347 | 136275 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 73354 | 132131 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11180 | 69608 | 127026 | 0 | 0 | 0 |
| | RTG | 3029 | 19737 | 35661 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11181 | 76347 | -136275 |
| | 380C2F2 | 0 | 0 | 0 | 11181 | 73354 | -132131 |
| | 380C2F3 | 0 | 0 | 0 | 11180 | 69608 | -127026 |
| NL3/1b | GW / opgw | 1513 | 8998 | 17781 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 66055 | 133215 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65481 | 132682 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 11173 | 64776 | 132072 | 0 | 0 | 0 |
| | RTG | 3027 | 17117 | 34657 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11173 | 66055 | -133215 |
| | 380C2F2 | 0 | 0 | 0 | 11173 | 65481 | -132682 |
| | 380C2F3 | 0 | 0 | 0 | 11173 | 64776 | -132072 |
| NL3/3 | GW / opgw | 2006 | 17461 | 29681 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13575 | 94948 | 169930 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13574 | 91383 | 165076 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13574 | 86913 | 159085 | 0 | 0 | 0 |
| | RTG | 4011 | 28171 | 49908 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13575 | 94948 | -169930 |
| | 380C2F2 | 0 | 0 | 0 | 13574 | 91383 | -165076 |
| | 380C2F3 | 0 | 0 | 0 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 2115 | 9823 | 19551 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 64128 | 129078 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 63624 | 128696 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 13582 | 63003 | 128264 | 0 | 0 | 0 |
| | RTG | 4231 | 18944 | 38574 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 64128 | -129078 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 63624 | -128696 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 1515 | 12597 | 21720 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 11181 | 79109 | 140137 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 75837 | 135565 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11180 | 71728 | 129902 | 0 | 0 | 0 |
| | RTG | 3029 | 20403 | 36590 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11178 | 51578 | -106702 |
| | 380C2F2 | 0 | 0 | 0 | 11178 | 51388 | -106617 |
| | 380C2F3 | 0 | 0 | 0 | 11178 | 51151 | -106526 |
| NL3/1b | GW / opgw | 1513 | 9111 | 17911 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 11173 | 66595 | 133740 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 11173 | 65956 | 133121 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 11173 | 65173 | 132409 | 0 | 0 | 0 |
| | RTG | 3027 | 17243 | 34775 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 11172 | 61340 | -130343 |
| | 380C2F2 | 0 | 0 | 0 | 11172 | 61296 | -130346 |
| | 380C2F3 | 0 | 0 | 0 | 11172 | 61239 | -130353 |
| NL3/3 | GW / opgw | 2006 | 18256 | 30804 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 13575 | 98234 | 174448 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 13575 | 94341 | 169099 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 13574 | 89443 | 162461 | 0 | 0 | 0 |
| | RTG | 4011 | 29210 | 51346 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13571 | 65236 | -135103 |
| | 380C2F2 | 0 | 0 | 0 | 13571 | 65004 | -135004 |
| | 380C2F3 | 0 | 0 | 0 | 13571 | 64716 | -134897 |
| NL3/4 | GW / opgw | 2115 | 9913 | 19630 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 13583 | 64601 | 129458 | 0 | 0 | 0 |

| | | | | | | | |
|---|---------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 Wind angle: -45° | 380C1F2 | 13582 | 64041 | 129010 | 0 | 0 | 0 |
| | 380C1F3 | 13582 | 63353 | 128502 | 0 | 0 | 0 |
| | RTG | 4231 | 19046 | 38640 | 0 | 0 | 0 |
| | 380C2F1 | 0 | 0 | 0 | 13582 | 59870 | -127188 |
| | 380C2F2 | 0 | 0 | 0 | 13582 | 59827 | -127195 |
| | 380C2F3 | 0 | 0 | 0 | 13582 | 59772 | -127206 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| | 380C2F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| 380C2F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 | |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| | 380C2F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| 380C2F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 | |
| NL3/3 Wind, -5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| | 380C2F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| 380C2F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 | |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| | 380C2F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| 380C2F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 | |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 45° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| | 380C2F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |
| 380C2F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 | |

| | | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|---|
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 | |
| | 380C2F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 | |
| | 380C2F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 | |
| | 380C2F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 | |
| | 380C2F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 | |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 | |
| | 380C2F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 | |
| | 380C2F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 | |
| | 380C2F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 | |
| | 380C2F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 | |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 | |
| | 380C2F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 | |
| | 380C2F3 | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 | |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 | |
| | 380C2F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 | |
| | 380C2F3 | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 | |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 | |
| | 380C2F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 | |
| | 380C2F3 | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 | |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 | |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|-------|---------|
| | 380C2F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| | 380C2F3 | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| | 380C2F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| | 380C2F3 | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| | 380C2F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| | 380C2F3 | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 1.2 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: -45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| | 380C2F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| | 380C2F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| | 380C2F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |
| | 380C2F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| | 380C2F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| | 380C2F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| | 380C2F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| | 380C2F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 0° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| | 380C2F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| | 380C2F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| | 380C2F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| | 380C2F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| | 380C2F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| | 380C2F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |
| | 380C2F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| | 380C2F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 45° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| | 380C2F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| | 380C2F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| | 380C2F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| | 380C2F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| NL3/1b | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -20°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |
| | 380C2F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| | 380C2F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| NL3/3 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, -5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| | 380C2F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| | 380C2F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| NL3/4 | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Construction/maintenance, +5°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent loads yg= 0.9 | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind angle: 90° | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| | 380C2F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| | 380C2F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| NL3/1a | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| Wind, 10°C | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 Wind angle: -45° | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| | 380C2F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| | 380C2F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | 380C2F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |
| | 380C2F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: -45° | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| | 380C2F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| | 380C2F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| | GW / opgw | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | 380C1F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C1F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | RTG | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| | 380C2F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| | 380C2F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |

NWW6HL350UY

Appendix NWW6HL350UY / NL3

Loadcases for tower strength (Special limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL3/1a Wind, 10°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2019 | 9006 | 18243 | 2019 | 9006 | -18243 |
| | 380C1F1 | 14907 | 65000 | 133424 | 14907 | 65000 | -133424 |
| | 380C1F2 | 14907 | 64704 | 133284 | 14907 | 64704 | -133284 |
| | 380C1F3 | 14907 | 64337 | 133133 | 14907 | 64337 | -133133 |
| | RTG | 4038 | 17571 | 36232 | 4038 | 17571 | -36232 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b Wind, -20°C Permanent loads yg= 1.2 Wind angle: 0° | GW / opgw | 2018 | 9873 | 20843 | 2018 | 9873 | -20843 |
| | 380C1F1 | 14900 | 74361 | 157632 | 14900 | 74361 | -157632 |
| | 380C1F2 | 14900 | 74292 | 157636 | 14900 | 74292 | -157636 |
| | 380C1F3 | 14900 | 74205 | 157645 | 14900 | 74205 | -157645 |
| | RTG | 4036 | 19647 | 41687 | 4036 | 19647 | -41687 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|--------|---------|
| NL3/3 | GW / opgw | 2510 | 11568 | 23120 | 2510 | 11568 | -23120 |
| Wind, -5°C | 380C1F1 | 17300 | 78524 | 161070 | 17300 | 78524 | -161070 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 78158 | 160893 | 17300 | 78158 | -160893 |
| Wind angle: 0° | 380C1F3 | 17300 | 77703 | 160699 | 17300 | 77703 | -160699 |
| | RTG | 5019 | 22388 | 45727 | 5019 | 22388 | -45727 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 10663 | 22537 | 2620 | 10663 | -22537 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71976 | 152515 | 17312 | 71976 | -152515 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71909 | 152524 | 17312 | 71909 | -152524 |
| Wind angle: 0° | 380C1F3 | 17312 | 71824 | 152538 | 17312 | 71824 | -152538 |
| | RTG | 5241 | 21232 | 45086 | 5241 | 21232 | -45086 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2019 | 8772 | 18110 | 2020 | 13519 | -23697 |
| Wind, 10°C | 380C1F1 | 14907 | 63828 | 132969 | 14910 | 87181 | -157445 |
| Permanent loads yg= 1.2 | 380C1F2 | 14907 | 63658 | 132929 | 14910 | 84338 | -153792 |
| Wind angle: 45° | 380C1F3 | 14907 | 63444 | 132889 | 14909 | 80805 | -149365 |
| | RTG | 4038 | 17294 | 36137 | 4039 | 22805 | -41740 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 9820 | 20844 | 2018 | 10737 | -21398 |
| Wind, -20°C | 380C1F1 | 14900 | 74081 | 157664 | 14900 | 78648 | -159585 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 74038 | 157672 | 14900 | 78114 | -159191 |
| Wind angle: 45° | 380C1F3 | 14900 | 73984 | 157684 | 14900 | 77455 | -158746 |
| | RTG | 4036 | 19579 | 41696 | 4036 | 20663 | -42109 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2510 | 11171 | 22851 | 2511 | 18976 | -32347 |
| Wind, -5°C | 380C1F1 | 17300 | 77074 | 160488 | 17304 | 105816 | -190703 |
| Permanent loads yg= 1.2 | 380C1F2 | 17300 | 76864 | 160435 | 17304 | 102347 | -186265 |
| Wind angle: 45° | 380C1F3 | 17300 | 76601 | 160382 | 17303 | 98026 | -180861 |
| | RTG | 5019 | 21923 | 45519 | 5021 | 31194 | -55599 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2620 | 10613 | 22543 | 2621 | 11419 | -22859 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 71702 | 152563 | 17312 | 75979 | -153857 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 71661 | 152573 | 17312 | 75490 | -153561 |
| Wind angle: 45° | 380C1F3 | 17312 | 71607 | 152587 | 17312 | 74885 | -153231 |
| | RTG | 5241 | 21167 | 45100 | 5241 | 22145 | -45285 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13044 | 23048 | 2020 | 13044 | -23048 |
| Wind, 10°C | 380C1F1 | 14910 | 84779 | 154354 | 14910 | 84779 | -154354 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 82198 | 151094 | 14910 | 82198 | -151094 |
| Wind angle: 90° | 380C1F3 | 14909 | 79000 | 147164 | 14909 | 79000 | -147164 |
| | RTG | 4039 | 22232 | 41012 | 4039 | 22232 | -41012 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10644 | 21311 | 2018 | 10644 | -21311 |
| Wind, -20°C | 380C1F1 | 14900 | 78196 | 159250 | 14900 | 78196 | -159250 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 77714 | 158916 | 14900 | 77714 | -158916 |
| Wind angle: 90° | 380C1F3 | 14900 | 77119 | 158540 | 14900 | 77119 | -158540 |
| | RTG | 4036 | 20557 | 42034 | 4036 | 20557 | -42034 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18230 | 31330 | 2511 | 18230 | -31330 |
| Wind, -5°C | 380C1F1 | 17304 | 102887 | 186950 | 17304 | 102887 | -186950 |
| Permanent loads yg= 1.2 | 380C1F2 | 17303 | 99732 | 182975 | 17303 | 99732 | -182975 |
| Wind angle: 90° | 380C1F3 | 17303 | 95812 | 178162 | 17303 | 95812 | -178162 |
| | RTG | 5021 | 30254 | 54373 | 5021 | 30254 | -54373 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11340 | 22803 | 2621 | 11340 | -22803 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75566 | 153605 | 17312 | 75566 | -153605 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75123 | 153356 | 17312 | 75123 | -153356 |
| Wind angle: 90° | 380C1F3 | 17312 | 74575 | 153080 | 17312 | 74575 | -153080 |
| | RTG | 5241 | 22053 | 45241 | 5241 | 22053 | -45241 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 2020 | 13519 | 23697 | 2019 | 8772 | -18110 |
| Wind, 10°C | 380C1F1 | 14910 | 87181 | 157445 | 14907 | 63828 | -132969 |
| Permanent loads yg= 1.2 | 380C1F2 | 14910 | 84338 | 153792 | 14907 | 63658 | -132929 |
| Wind angle: -45° | 380C1F3 | 14909 | 80805 | 149365 | 14907 | 63444 | -132889 |
| | RTG | 4039 | 22805 | 41740 | 4038 | 17294 | -36137 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 2018 | 10737 | 21398 | 2018 | 9820 | -20844 |
| Wind, -20°C | 380C1F1 | 14900 | 78648 | 159585 | 14900 | 74081 | -157664 |
| Permanent loads yg= 1.2 | 380C1F2 | 14900 | 78114 | 159191 | 14900 | 74038 | -157672 |
| Wind angle: -45° | 380C1F3 | 14900 | 77455 | 158746 | 14900 | 73984 | -157684 |
| | RTG | 4036 | 20663 | 42109 | 4036 | 19579 | -41696 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2511 | 18976 | 32347 | 2510 | 11171 | -22851 |
| Wind, -5°C | 380C1F1 | 17304 | 105816 | 190703 | 17300 | 77074 | -160488 |
| Permanent loads yg= 1.2 | 380C1F2 | 17304 | 102347 | 186265 | 17300 | 76864 | -160435 |
| Wind angle: -45° | 380C1F3 | 17303 | 98026 | 180861 | 17300 | 76601 | -160382 |
| | RTG | 5021 | 31194 | 55599 | 5019 | 21923 | -45519 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2621 | 11419 | 22859 | 2620 | 10613 | -22543 |
| Construction/maintenance, +5°C | 380C1F1 | 17312 | 75979 | 153857 | 17312 | 71702 | -152563 |
| Permanent loads yg= 1.2 | 380C1F2 | 17312 | 75490 | 153561 | 17312 | 71661 | -152573 |
| Wind angle: -45° | 380C1F3 | 17312 | 74885 | 153231 | 17312 | 71607 | -152587 |
| | RTG | 5241 | 22145 | 45285 | 5241 | 21167 | -45100 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7356 | 14704 | 1514 | 7356 | -14704 |
| Wind, 10°C | 380C1F1 | 11178 | 52919 | 107517 | 11178 | 52919 | -107517 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 52577 | 107278 | 11178 | 52577 | -107278 |
| Wind angle: 0° | 380C1F3 | 11178 | 52156 | 107011 | 11178 | 52156 | -107011 |
| | RTG | 3028 | 14197 | 28996 | 3028 | 14197 | -28996 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8091 | 17022 | 1513 | 8091 | -17022 |
| Wind, -20°C | 380C1F1 | 11172 | 61638 | 130348 | 11172 | 61638 | -130348 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61564 | 130342 | 11172 | 61564 | -130342 |
| Wind angle: 0° | 380C1F3 | 11172 | 61472 | 130339 | 11172 | 61472 | -130339 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3027 | 16074 | 34026 | 3027 | 16074 | -34026 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 10037 | 19838 | 2005 | 10037 | -19838 |
| Wind, -5°C | 380C1F1 | 13571 | 66862 | 136064 | 13571 | 66862 | -136064 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 66448 | 135782 | 13571 | 66448 | -135782 |
| Wind angle: 0° | 380C1F3 | 13571 | 65937 | 135466 | 13571 | 65937 | -135466 |
| | RTG | 4009 | 19222 | 38938 | 4009 | 19222 | -38938 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9078 | 19138 | 2115 | 9078 | -19138 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 60154 | 127165 | 13582 | 60154 | -127165 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 60084 | 127167 | 13582 | 60084 | -127167 |
| Wind angle: 0° | 380C1F3 | 13582 | 59996 | 127173 | 13582 | 59996 | -127173 |
| | RTG | 4230 | 18058 | 38279 | 4230 | 18058 | -38279 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1514 | 7082 | 14487 | 1515 | 12597 | -21720 |
| Wind, 10°C | 380C1F1 | 11178 | 51578 | 106702 | 11181 | 79109 | -140137 |
| Permanent loads yg= 0.9 | 380C1F2 | 11178 | 51388 | 106617 | 11181 | 75837 | -135565 |
| Wind angle: 45° | 380C1F3 | 11178 | 51151 | 106526 | 11180 | 71728 | -129902 |
| | RTG | 3028 | 13882 | 28820 | 3029 | 20403 | -36590 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8034 | 17013 | 1513 | 9111 | -17911 |
| Wind, -20°C | 380C1F1 | 11172 | 61340 | 130343 | 11173 | 66595 | -133740 |
| Permanent loads yg= 0.9 | 380C1F2 | 11172 | 61296 | 130346 | 11173 | 65956 | -133121 |
| Wind angle: 45° | 380C1F3 | 11172 | 61239 | 130353 | 11173 | 65173 | -132409 |
| | RTG | 3027 | 16003 | 34027 | 3027 | 17243 | -34775 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 | GW / opgw | 2005 | 9585 | 19450 | 2006 | 18256 | -30804 |
| Wind, -5°C | 380C1F1 | 13571 | 65236 | 135103 | 13575 | 98234 | -174448 |
| Permanent loads yg= 0.9 | 380C1F2 | 13571 | 65004 | 135004 | 13575 | 94341 | -169099 |
| Wind angle: 45° | 380C1F3 | 13571 | 64716 | 134897 | 13574 | 89443 | -162461 |
| | RTG | 4009 | 18704 | 38615 | 4011 | 29210 | -51346 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 | GW / opgw | 2115 | 9026 | 19140 | 2115 | 9913 | -19630 |
| Construction/maintenance, +5°C | 380C1F1 | 13582 | 59870 | 127188 | 13583 | 64601 | -129458 |
| Permanent loads yg= 0.9 | 380C1F2 | 13582 | 59827 | 127195 | 13582 | 64041 | -129010 |
| Wind angle: 45° | 380C1F3 | 13582 | 59772 | 127206 | 13582 | 63353 | -128502 |
| | RTG | 4230 | 17991 | 38290 | 4231 | 19046 | -38640 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a | GW / opgw | 1515 | 12068 | 20957 | 1515 | 12068 | -20957 |
| Wind, 10°C | 380C1F1 | 11181 | 76347 | 136275 | 11181 | 76347 | -136275 |
| Permanent loads yg= 0.9 | 380C1F2 | 11181 | 73354 | 132131 | 11181 | 73354 | -132131 |
| Wind angle: 90° | 380C1F3 | 11180 | 69608 | 127026 | 11180 | 69608 | -127026 |
| | RTG | 3029 | 19737 | 35661 | 3029 | 19737 | -35661 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b | GW / opgw | 1513 | 8998 | 17781 | 1513 | 8998 | -17781 |
| Wind, -20°C | 380C1F1 | 11173 | 66055 | 133215 | 11173 | 66055 | -133215 |

| | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 11173 | 65481 | 132682 | 11173 | 65481 | -132682 |
| | 380C1F3 | 11173 | 64776 | 132072 | 11173 | 64776 | -132072 |
| | RTG | 3027 | 17117 | 34657 | 3027 | 17117 | -34657 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2006 | 17461 | 29681 | 2006 | 17461 | -29681 |
| | 380C1F1 | 13575 | 94948 | 169930 | 13575 | 94948 | -169930 |
| | 380C1F2 | 13574 | 91383 | 165076 | 13574 | 91383 | -165076 |
| | 380C1F3 | 13574 | 86913 | 159085 | 13574 | 86913 | -159085 |
| | RTG | 4011 | 28171 | 49908 | 4011 | 28171 | -49908 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: 90° | GW / opgw | 2115 | 9823 | 19551 | 2115 | 9823 | -19551 |
| | 380C1F1 | 13582 | 64128 | 129078 | 13582 | 64128 | -129078 |
| | 380C1F2 | 13582 | 63624 | 128696 | 13582 | 63624 | -128696 |
| | 380C1F3 | 13582 | 63003 | 128264 | 13582 | 63003 | -128264 |
| | RTG | 4231 | 18944 | 38574 | 4231 | 18944 | -38574 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1a Wind, 10°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1515 | 12597 | 21720 | 1514 | 7082 | -14487 |
| | 380C1F1 | 11181 | 79109 | 140137 | 11178 | 51578 | -106702 |
| | 380C1F2 | 11181 | 75837 | 135565 | 11178 | 51388 | -106617 |
| | 380C1F3 | 11180 | 71728 | 129902 | 11178 | 51151 | -106526 |
| | RTG | 3029 | 20403 | 36590 | 3028 | 13882 | -28820 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/1b Wind, -20°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 1513 | 9111 | 17911 | 1513 | 8034 | -17013 |
| | 380C1F1 | 11173 | 66595 | 133740 | 11172 | 61340 | -130343 |
| | 380C1F2 | 11173 | 65956 | 133121 | 11172 | 61296 | -130346 |
| | 380C1F3 | 11173 | 65173 | 132409 | 11172 | 61239 | -130353 |
| | RTG | 3027 | 17243 | 34775 | 3027 | 16003 | -34027 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/3 Wind, -5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2006 | 18256 | 30804 | 2005 | 9585 | -19450 |
| | 380C1F1 | 13575 | 98234 | 174448 | 13571 | 65236 | -135103 |
| | 380C1F2 | 13575 | 94341 | 169099 | 13571 | 65004 | -135004 |
| | 380C1F3 | 13574 | 89443 | 162461 | 13571 | 64716 | -134897 |
| | RTG | 4011 | 29210 | 51346 | 4009 | 18704 | -38615 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| NL3/4 Construction/maintenance, +5°C Permanent loads yg= 0.9 Wind angle: -45° | GW / opgw | 2115 | 9913 | 19630 | 2115 | 9026 | -19140 |
| | 380C1F1 | 13583 | 64601 | 129458 | 13582 | 59870 | -127188 |
| | 380C1F2 | 13582 | 64041 | 129010 | 13582 | 59827 | -127195 |
| | 380C1F3 | 13582 | 63353 | 128502 | 13582 | 59772 | -127206 |
| | RTG | 4231 | 19046 | 38640 | 4230 | 17991 | -38290 |
| | 380C2F1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 380C2F2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 380C2F3 | 0 | 0 | 0 | 0 | 0 | 0 | |

NWW6HL350UY

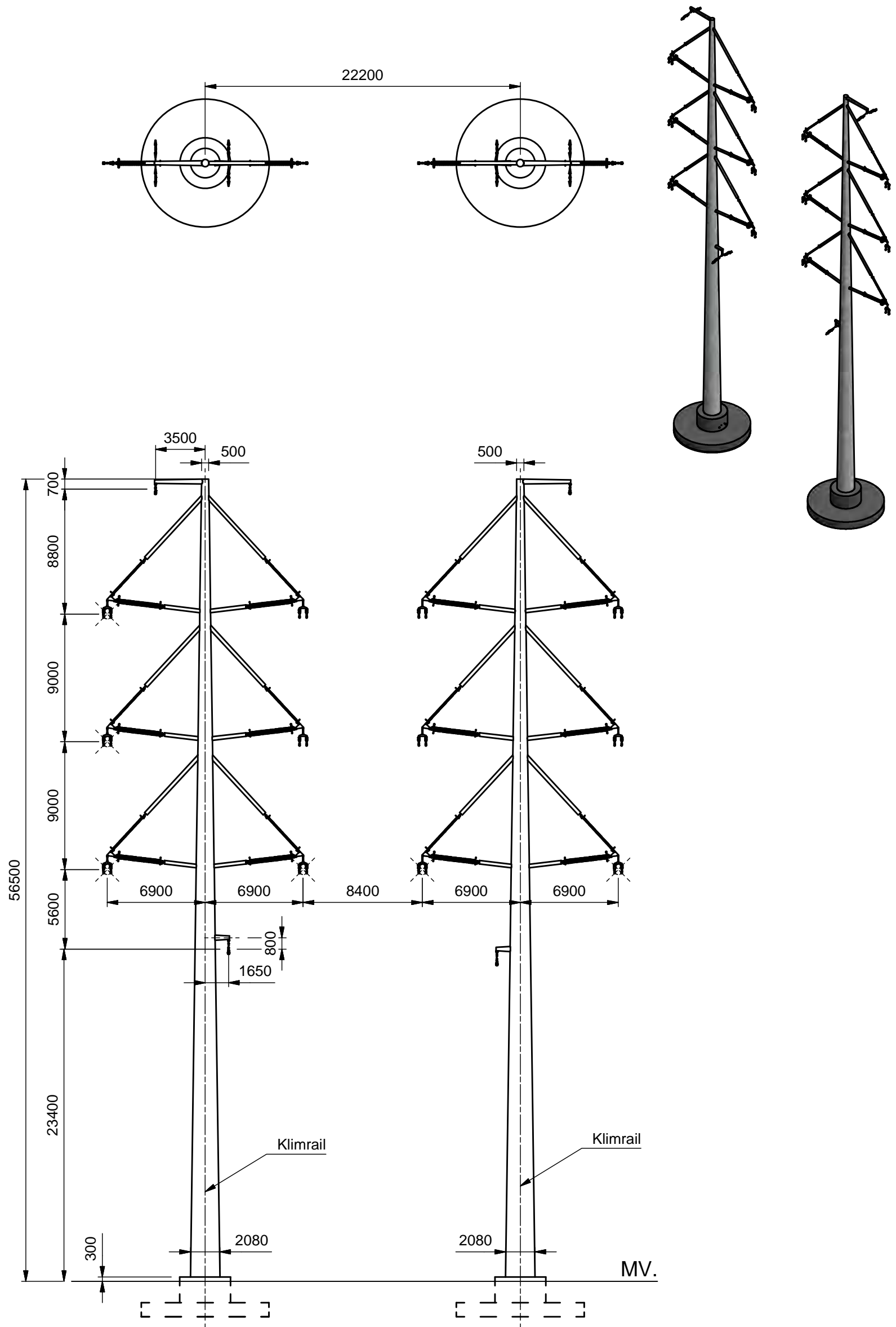
Appendix NWW6HL350UY / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|--|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a Wind, 10°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 1682 | 8160 | 16127 | 1682 | 8160 | -16127 |
| | 380C1F1 | 12421 | 58225 | 117212 | 12421 | 58225 | -117212 |
| | 380C1F2 | 12421 | 57766 | 116861 | 12421 | 57766 | -116861 |
| | 380C1F3 | 12421 | 57200 | 116465 | 12421 | 57200 | -116465 |
| | RTG | 3365 | 15625 | 31651 | 3365 | 15625 | -31651 |
| | 380C2F1 | 12421 | 58225 | 117212 | 12421 | 58225 | -117212 |
| | 380C2F2 | 12421 | 57766 | 116861 | 12421 | 57766 | -116861 |
| | 380C2F3 | 12421 | 57200 | 116465 | 12421 | 57200 | -116465 |
| NL4/1b Wind, -20°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 1682 | 8676 | 18332 | 1682 | 8676 | -18332 |
| | 380C1F1 | 12415 | 65872 | 139734 | 12415 | 65872 | -139734 |
| | 380C1F2 | 12415 | 65814 | 139736 | 12415 | 65814 | -139736 |
| | 380C1F3 | 12415 | 65741 | 139742 | 12415 | 65741 | -139742 |
| | RTG | 3363 | 17269 | 36661 | 3363 | 17269 | -36661 |
| | 380C2F1 | 12415 | 65872 | 139734 | 12415 | 65872 | -139734 |
| | 380C2F2 | 12415 | 65814 | 139736 | 12415 | 65814 | -139736 |
| | 380C2F3 | 12415 | 65741 | 139742 | 12415 | 65741 | -139742 |
| NL4/3 Wind, -5°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 5778 | 19994 | 41470 | 5778 | 19994 | -41470 |
| | 380C1F1 | 32398 | 119176 | 249466 | 32398 | 119176 | -249466 |
| | 380C1F2 | 32398 | 118941 | 249468 | 32398 | 118941 | -249468 |
| | 380C1F3 | 32398 | 118644 | 249483 | 32398 | 118644 | -249483 |
| | RTG | 11555 | 39561 | 82933 | 11555 | 39561 | -82933 |
| | 380C2F1 | 32398 | 119176 | 249466 | 32398 | 119176 | -249466 |
| | 380C2F2 | 32398 | 118941 | 249468 | 32398 | 118941 | -249468 |
| | 380C2F3 | 32398 | 118644 | 249483 | 32398 | 118644 | -249483 |
| NL4/4 Construction/maintenance, +5°C Permanent loads yg= 1.0 Wind angle: 0° | GW / opgw | 2183 | 9272 | 19610 | 2183 | 9272 | -19610 |
| | 380C1F1 | 14424 | 62765 | 133070 | 14424 | 62765 | -133070 |
| | 380C1F2 | 14424 | 62709 | 133077 | 14424 | 62709 | -133077 |
| | 380C1F3 | 14424 | 62638 | 133087 | 14424 | 62638 | -133087 |
| | RTG | 4367 | 18466 | 39228 | 4367 | 18466 | -39228 |
| | 380C2F1 | 14424 | 62765 | 133070 | 14424 | 62765 | -133070 |
| | 380C2F2 | 14424 | 62709 | 133077 | 14424 | 62709 | -133077 |
| | 380C2F3 | 14424 | 62638 | 133087 | 14424 | 62638 | -133087 |
| NL4/1a Wind, 10°C Permanent loads yg= 1.0 Wind angle: 45° | GW / opgw | 1682 | 7791 | 15810 | 1683 | 14983 | -25342 |
| | 380C1F1 | 12421 | 56429 | 116001 | 12426 | 92739 | -161037 |
| | 380C1F2 | 12421 | 56175 | 115871 | 12425 | 88532 | -155150 |
| | 380C1F3 | 12421 | 55860 | 115730 | 12424 | 83211 | -147778 |
| | RTG | 3365 | 15204 | 31388 | 3366 | 23855 | -41971 |
| | 380C2F1 | 12421 | 56429 | 116001 | 12426 | 92739 | -161037 |
| | 380C2F2 | 12421 | 56175 | 115871 | 12425 | 88532 | -155150 |
| | 380C2F3 | 12421 | 55860 | 115730 | 12424 | 83211 | -147778 |
| NL4/1b Wind, -20°C Permanent loads yg= 1.0 Wind angle: 45° | GW / opgw | 1682 | 8632 | 18331 | 1682 | 9415 | -18834 |
| | 380C1F1 | 12415 | 65637 | 139756 | 12415 | 69523 | -141531 |
| | 380C1F2 | 12415 | 65601 | 139763 | 12415 | 69065 | -141175 |
| | 380C1F3 | 12415 | 65555 | 139772 | 12415 | 68501 | -140772 |
| | RTG | 3363 | 17212 | 36668 | 3363 | 18133 | -37051 |
| | 380C2F1 | 12415 | 65637 | 139756 | 12415 | 69523 | -141531 |

| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | 380C2F2 | 12415 | 65601 | 139763 | 12415 | 69065 | -141175 |
| | 380C2F3 | 12415 | 65555 | 139772 | 12415 | 68501 | -140772 |
| NL4/3 | GW / opgw | 5777 | 19766 | 41467 | 5779 | 23696 | -43857 |
| Wind, -5°C | 380C1F1 | 32398 | 118221 | 249526 | 32401 | 134169 | -257527 |
| Permanent loads yg= 1.0 | 380C1F2 | 32398 | 118077 | 249548 | 32400 | 132292 | -256003 |
| Wind angle: 45° | 380C1F3 | 32398 | 117893 | 249580 | 32400 | 129975 | -254256 |
| | RTG | 11555 | 39271 | 82969 | 11556 | 43946 | -84821 |
| | 380C2F1 | 32398 | 118221 | 249526 | 32401 | 134169 | -257527 |
| | 380C2F2 | 32398 | 118077 | 249548 | 32400 | 132292 | -256003 |
| | 380C2F3 | 32398 | 117893 | 249580 | 32400 | 129975 | -254256 |
| NL4/4 | GW / opgw | 2183 | 9230 | 19615 | 2183 | 9914 | -19905 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 62536 | 133107 | 14425 | 66161 | -134317 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 62501 | 133115 | 14424 | 65744 | -134049 |
| Wind angle: 45° | 380C1F3 | 14424 | 62456 | 133126 | 14424 | 65228 | -133750 |
| | RTG | 4367 | 18411 | 39240 | 4367 | 19238 | -39419 |
| | 380C2F1 | 14424 | 62536 | 133107 | 14425 | 66161 | -134317 |
| | 380C2F2 | 14424 | 62501 | 133115 | 14424 | 65744 | -134049 |
| | 380C2F3 | 14424 | 62456 | 133126 | 14424 | 65228 | -133750 |
| NL4/1a | GW / opgw | 1683 | 14315 | 24385 | 1683 | 14315 | -24385 |
| Wind, 10°C | 380C1F1 | 12425 | 89190 | 156068 | 12425 | 89190 | -156068 |
| Permanent loads yg= 1.0 | 380C1F2 | 12425 | 85323 | 150692 | 12425 | 85323 | -150692 |
| Wind angle: 90° | 380C1F3 | 12424 | 80449 | 143995 | 12424 | 80449 | -143995 |
| | RTG | 3366 | 22991 | 40759 | 3366 | 22991 | -40759 |
| | 380C2F1 | 12425 | 89190 | 156068 | 12425 | 89190 | -156068 |
| | 380C2F2 | 12425 | 85323 | 150692 | 12425 | 85323 | -150692 |
| | 380C2F3 | 12424 | 80449 | 143995 | 12424 | 80449 | -143995 |
| NL4/1b | GW / opgw | 1682 | 9335 | 18756 | 1682 | 9335 | -18756 |
| Wind, -20°C | 380C1F1 | 12415 | 69136 | 141228 | 12415 | 69136 | -141228 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 68723 | 140926 | 12415 | 68723 | -140926 |
| Wind angle: 90° | 380C1F3 | 12415 | 68214 | 140584 | 12415 | 68214 | -140584 |
| | RTG | 3363 | 18042 | 36983 | 3363 | 18042 | -36983 |
| | 380C2F1 | 12415 | 69136 | 141228 | 12415 | 69136 | -141228 |
| | 380C2F2 | 12415 | 68723 | 140926 | 12415 | 68723 | -140926 |
| | 380C2F3 | 12415 | 68214 | 140584 | 12415 | 68214 | -140584 |
| NL4/3 | GW / opgw | 5778 | 23302 | 43498 | 5778 | 23302 | -43498 |
| Wind, -5°C | 380C1F1 | 32400 | 132583 | 256234 | 32400 | 132583 | -256234 |
| Permanent loads yg= 1.0 | 380C1F2 | 32400 | 130888 | 254925 | 32400 | 130888 | -254925 |
| Wind angle: 90° | 380C1F3 | 32399 | 128794 | 253431 | 32399 | 128794 | -253431 |
| | RTG | 11556 | 43488 | 84499 | 11556 | 43488 | -84499 |
| | 380C2F1 | 32400 | 132583 | 256234 | 32400 | 132583 | -256234 |
| | 380C2F2 | 32400 | 130888 | 254925 | 32400 | 130888 | -254925 |
| | 380C2F3 | 32399 | 128794 | 253431 | 32399 | 128794 | -253431 |
| NL4/4 | GW / opgw | 2183 | 9847 | 19854 | 2183 | 9847 | -19854 |
| Construction/maintenance, +5°C | 380C1F1 | 14424 | 65809 | 134089 | 14424 | 65809 | -134089 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 65431 | 133863 | 14424 | 65431 | -133863 |
| Wind angle: 90° | 380C1F3 | 14424 | 64964 | 133612 | 14424 | 64964 | -133612 |
| | RTG | 4367 | 19160 | 39379 | 4367 | 19160 | -39379 |
| | 380C2F1 | 14424 | 65809 | 134089 | 14424 | 65809 | -134089 |
| | 380C2F2 | 14424 | 65431 | 133863 | 14424 | 65431 | -133863 |
| | 380C2F3 | 14424 | 64964 | 133612 | 14424 | 64964 | -133612 |
| NL4/1a | GW / opgw | 1683 | 14983 | 25342 | 1682 | 7791 | -15810 |
| Wind, 10°C | 380C1F1 | 12426 | 92739 | 161037 | 12421 | 56429 | -116001 |
| Permanent loads yg= 1.0 | 380C1F2 | 12425 | 88532 | 155150 | 12421 | 56175 | -115871 |
| Wind angle: -45° | 380C1F3 | 12424 | 83211 | 147778 | 12421 | 55860 | -115730 |
| | RTG | 3366 | 23855 | 41971 | 3365 | 15204 | -31388 |
| | 380C2F1 | 12426 | 92739 | 161037 | 12421 | 56429 | -116001 |
| | 380C2F2 | 12425 | 88532 | 155150 | 12421 | 56175 | -115871 |
| | 380C2F3 | 12424 | 83211 | 147778 | 12421 | 55860 | -115730 |
| NL4/1b | GW / opgw | 1682 | 9415 | 18834 | 1682 | 8632 | -18331 |
| Wind, -20°C | 380C1F1 | 12415 | 69523 | 141531 | 12415 | 65637 | -139756 |
| Permanent loads yg= 1.0 | 380C1F2 | 12415 | 69065 | 141175 | 12415 | 65601 | -139763 |
| Wind angle: -45° | 380C1F3 | 12415 | 68501 | 140772 | 12415 | 65555 | -139772 |



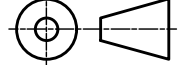
| | | | | | | | |
|--------------------------------|-----------|-------|--------|--------|-------|--------|---------|
| | RTG | 3363 | 18133 | 37051 | 3363 | 17212 | -36668 |
| | 380C2F1 | 12415 | 69523 | 141531 | 12415 | 65637 | -139756 |
| | 380C2F2 | 12415 | 69065 | 141175 | 12415 | 65601 | -139763 |
| | 380C2F3 | 12415 | 68501 | 140772 | 12415 | 65555 | -139772 |
| NL4/3 | GW / opgw | 5779 | 23696 | 43857 | 5777 | 19766 | -41467 |
| Wind, -5°C | 380C1F1 | 32401 | 134169 | 257527 | 32398 | 118221 | -249526 |
| Permanent loads yg= 1.0 | 380C1F2 | 32400 | 132292 | 256003 | 32398 | 118077 | -249548 |
| Wind angle: -45° | 380C1F3 | 32400 | 129975 | 254256 | 32398 | 117893 | -249580 |
| | RTG | 11556 | 43946 | 84821 | 11555 | 39271 | -82969 |
| | 380C2F1 | 32401 | 134169 | 257527 | 32398 | 118221 | -249526 |
| | 380C2F2 | 32400 | 132292 | 256003 | 32398 | 118077 | -249548 |
| | 380C2F3 | 32400 | 129975 | 254256 | 32398 | 117893 | -249580 |
| NL4/4 | GW / opgw | 2183 | 9914 | 19905 | 2183 | 9230 | -19615 |
| Construction/maintenance, +5°C | 380C1F1 | 14425 | 66161 | 134317 | 14424 | 62536 | -133107 |
| Permanent loads yg= 1.0 | 380C1F2 | 14424 | 65744 | 134049 | 14424 | 62501 | -133115 |
| Wind angle: -45° | 380C1F3 | 14424 | 65228 | 133750 | 14424 | 62456 | -133126 |
| | RTG | 4367 | 19238 | 39419 | 4367 | 18411 | -39240 |
| | 380C2F1 | 14425 | 66161 | 134317 | 14424 | 62536 | -133107 |
| | 380C2F2 | 14424 | 65744 | 134049 | 14424 | 62501 | -133115 |
| | 380C2F3 | 14424 | 65228 | 133750 | 14424 | 62456 | -133126 |



Wintrack
Masttype: NWW6S350UY+3

- Trekparameter 1800m
- 4x380 Steunmast
- 350m Veldlengte
- 175»180» Lijnhoek
- IJsg gebied A
- Uitvoering Staal of Beton
- Kleurstelling hoofdelement:
Staal - Ral 9018 Papyrus white
Beton - CUR grijschaal I,
volgens CUR-100
- Kleurstelling Appendages:
Ral 7021 Black grey

| Revision history | | |
|------------------|-----------|-------------------------|
| Rev. | Date | Description |
| 3 | 13-6-2013 | Small modification |
| 4 | 22-5-2014 | New template |
| 5 | 13-1-2016 | Kleurstelling aangepast |

| | | | |
|--|-----------------|--|----------------------------------|
|  | | Projectname: TenneT Engineering verbinding NW380 | |
|  | | Third angle projection:  | Drawing no.: 74101611-035-041 |
| Design state: Released | Scale: 1 : 300 | Description: NWW6S350UY+3 | |
| Drawn by: SGR 22-5-2014 | Units: mm | | |
| Checked by: EKA 23-5-2014 | Project no: | | |
| Approved by: AW 23-5-2014 | Company: TenneT | Revision: 5 | |
| Format: A3 | | | |

DNV KEMA Energy & Sustainability, Utrechtseweg 310, 6812 AR Arnhem, tel: +31 26 3 56 91 11, www.dnvkema.com

NWW6S350UY+3

Loadcases for tower strength (ultimate limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL1/1a | GW / opgw | 2191 | 880 | 19934 | 2191 | 880 | -19934 |
| Wind, 10°C | 380C1F1 | 16170 | 6456 | 146657 | 16170 | 6456 | -146657 |
| Permanent loads yg= 1.2 | 380C1F2 | 16170 | 6451 | 146657 | 16170 | 6451 | -146657 |
| Wind angle: 0° | 380C1F3 | 16170 | 6446 | 146657 | 16170 | 6446 | -146657 |
| | RTG | 4381 | 1754 | 39867 | 4381 | 1754 | -39867 |
| | 380C2F1 | 16170 | 6456 | 146657 | 16170 | 6456 | -146657 |
| | 380C2F2 | 16170 | 6451 | 146657 | 16170 | 6451 | -146657 |
| | 380C2F3 | 16170 | 6446 | 146657 | 16170 | 6446 | -146657 |
| NL1/1b | GW / opgw | 2216 | 1006 | 23003 | 2216 | 1006 | -23003 |
| Wind, -20°C | 380C1F1 | 16396 | 7606 | 173967 | 16396 | 7606 | -173967 |
| Permanent loads yg= 1.2 | 380C1F2 | 16396 | 7605 | 173967 | 16396 | 7605 | -173967 |
| Wind angle: 0° | 380C1F3 | 16396 | 7604 | 173967 | 16396 | 7604 | -173967 |
| | RTG | 4432 | 2011 | 46005 | 4432 | 2011 | -46005 |
| | 380C2F1 | 16396 | 7606 | 173967 | 16396 | 7606 | -173967 |
| | 380C2F2 | 16396 | 7605 | 173967 | 16396 | 7605 | -173967 |
| | 380C2F3 | 16396 | 7604 | 173967 | 16396 | 7604 | -173967 |
| NL1/3 | GW / opgw | 8671 | 2562 | 58467 | 8671 | 2562 | -58467 |
| Wind, -5°C | 380C1F1 | 47874 | 15136 | 345705 | 47874 | 15136 | -345705 |
| Permanent loads yg= 1.2 | 380C1F2 | 47874 | 15132 | 345705 | 47874 | 15132 | -345705 |
| Wind angle: 0° | 380C1F3 | 47874 | 15128 | 345705 | 47874 | 15128 | -345705 |
| | RTG | 17342 | 5119 | 116933 | 17342 | 5119 | -116933 |
| | 380C2F1 | 47874 | 15136 | 345705 | 47874 | 15136 | -345705 |
| | 380C2F2 | 47874 | 15132 | 345705 | 47874 | 15132 | -345705 |
| | 380C2F3 | 47874 | 15128 | 345705 | 47874 | 15128 | -345705 |
| NL1/4 | GW / opgw | 2994 | 1135 | 25955 | 2994 | 1135 | -25955 |
| Construction/maintenance, +5°C | 380C1F1 | 19401 | 7550 | 172685 | 19401 | 7550 | -172685 |
| Permanent loads yg= 1.2 | 380C1F2 | 19401 | 7549 | 172685 | 19401 | 7549 | -172685 |
| Wind angle: 0° | 380C1F3 | 19401 | 7548 | 172685 | 19401 | 7548 | -172685 |
| | RTG | 5989 | 2269 | 51910 | 5989 | 2269 | -51910 |
| | 380C2F1 | 19401 | 7550 | 172685 | 19401 | 7550 | -172685 |
| | 380C2F2 | 19401 | 7549 | 172685 | 19401 | 7549 | -172685 |
| | 380C2F3 | 19401 | 7548 | 172685 | 19401 | 7548 | -172685 |
| NL1/6 | GW / opgw | 2460 | 954 | 21854 | 2460 | 954 | -21854 |
| Permanent, +10°C | 380C1F1 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| Permanent loads yg= 1.35 | 380C1F2 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| | 380C1F3 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| | RTG | 4920 | 1908 | 43708 | 4920 | 1908 | -43708 |
| | 380C2F1 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| | 380C2F2 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| | 380C2F3 | 18154 | 7005 | 160442 | 18154 | 7005 | -160442 |
| NL1/1a | GW / opgw | 2125 | 3431 | 27104 | 2112 | 3957 | -29321 |
| Wind, 10°C | 380C1F1 | 15817 | 20390 | 179180 | 15732 | 23272 | -190197 |
| Permanent loads yg= 1.2 | 380C1F2 | 15854 | 19186 | 174794 | 15774 | 21820 | -184566 |
| Wind angle: 45° | 380C1F3 | 15902 | 17698 | 169603 | 15828 | 20023 | -177827 |
| | RTG | 4297 | 5193 | 47642 | 4276 | 5906 | -50349 |
| | 380C2F1 | 15817 | 20390 | 179180 | 15732 | 23272 | -190197 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 15854 | 19186 | 174794 | 15774 | 21820 | -184566 |
| | 380C2F3 | 15902 | 17698 | 169603 | 15828 | 20023 | -177827 |
| NL1/1b | GW / opgw | 2210 | 1470 | 23376 | 2208 | 1562 | -23533 |
| Wind, -20°C | 380C1F1 | 16369 | 10173 | 175476 | 16358 | 10681 | -176123 |
| Permanent loads yg= 1.2 | 380C1F2 | 16373 | 9960 | 175237 | 16363 | 10425 | -175784 |
| Wind angle: 45° | 380C1F3 | 16378 | 9696 | 174967 | 16370 | 10108 | -175401 |
| | RTG | 4426 | 2646 | 46359 | 4424 | 2772 | -46511 |
| | 380C2F1 | 16369 | 10173 | 175476 | 16358 | 10681 | -176123 |
| | 380C2F2 | 16373 | 9960 | 175237 | 16363 | 10425 | -175784 |
| | 380C2F3 | 16378 | 9696 | 174967 | 16370 | 10108 | -175401 |
| NL1/3 | GW / opgw | 8647 | 4923 | 59957 | 8638 | 5390 | -60580 |
| Wind, -5°C | 380C1F1 | 47783 | 25365 | 351148 | 47747 | 27382 | -353468 |
| Permanent loads yg= 1.2 | 380C1F2 | 47797 | 24519 | 350286 | 47766 | 26367 | -352254 |
| Wind angle: 45° | 380C1F3 | 47812 | 23469 | 349313 | 47787 | 25107 | -350878 |
| | RTG | 17318 | 8360 | 118341 | 17309 | 8997 | -118950 |
| | 380C2F1 | 47783 | 25365 | 351148 | 47747 | 27382 | -353468 |
| | 380C2F2 | 47797 | 24519 | 350286 | 47766 | 26367 | -352254 |
| | 380C2F3 | 47812 | 23469 | 349313 | 47787 | 25107 | -350878 |
| NL1/4 | GW / opgw | 2991 | 1593 | 26191 | 2990 | 1683 | -26293 |
| Construction/maintenance, +5°C | 380C1F1 | 19383 | 10103 | 173828 | 19376 | 10604 | -174327 |
| Permanent loads yg= 1.2 | 380C1F2 | 19386 | 9892 | 173645 | 19379 | 10352 | -174065 |
| Wind angle: 45° | 380C1F3 | 19389 | 9631 | 173438 | 19384 | 10038 | -173771 |
| | RTG | 5986 | 2899 | 52129 | 5984 | 3022 | -52226 |
| | 380C2F1 | 19383 | 10103 | 173828 | 19376 | 10604 | -174327 |
| | 380C2F2 | 19386 | 9892 | 173645 | 19379 | 10352 | -174065 |
| | 380C2F3 | 19389 | 9631 | 173438 | 19384 | 10038 | -173771 |
| NL1/1a | GW / opgw | 2073 | 6720 | 41278 | 2073 | 6720 | -41278 |
| Wind, 10°C | 380C1F1 | 15420 | 38578 | 253823 | 15420 | 38578 | -253823 |
| Permanent loads yg= 1.2 | 380C1F2 | 15460 | 35859 | 242306 | 15460 | 35859 | -242306 |
| Wind angle: 90° | 380C1F3 | 15519 | 32472 | 227994 | 15519 | 32472 | -227994 |
| | RTG | 4191 | 9709 | 66403 | 4191 | 9709 | -66403 |
| | 380C2F1 | 15420 | 38578 | 253823 | 15420 | 38578 | -253823 |
| | 380C2F2 | 15460 | 35859 | 242306 | 15460 | 35859 | -242306 |
| | 380C2F3 | 15519 | 32472 | 227994 | 15519 | 32472 | -227994 |
| NL1/1b | GW / opgw | 2191 | 2062 | 24738 | 2191 | 2062 | -24738 |
| Wind, -20°C | 380C1F1 | 16275 | 13404 | 181210 | 16275 | 13404 | -181210 |
| Permanent loads yg= 1.2 | 380C1F2 | 16292 | 12914 | 180113 | 16292 | 12914 | -180113 |
| Wind angle: 90° | 380C1F3 | 16312 | 12308 | 178860 | 16312 | 12308 | -178860 |
| | RTG | 4406 | 3444 | 47715 | 4406 | 3444 | -47715 |
| | 380C2F1 | 16275 | 13404 | 181210 | 16275 | 13404 | -181210 |
| | 380C2F2 | 16292 | 12914 | 180113 | 16292 | 12914 | -180113 |
| | 380C2F3 | 16312 | 12308 | 178860 | 16312 | 12308 | -178860 |
| NL1/3 | GW / opgw | 8578 | 7890 | 65230 | 8578 | 7890 | -65230 |
| Wind, -5°C | 380C1F1 | 47494 | 38156 | 371314 | 47494 | 38156 | -371314 |
| Permanent loads yg= 1.2 | 380C1F2 | 47545 | 36223 | 367521 | 47545 | 36223 | -367521 |
| Wind angle: 90° | 380C1F3 | 47605 | 33829 | 363153 | 47605 | 33829 | -363153 |
| | RTG | 17241 | 12385 | 123703 | 17241 | 12385 | -123703 |
| | 380C2F1 | 47494 | 38156 | 371314 | 47494 | 38156 | -371314 |
| | 380C2F2 | 47545 | 36223 | 367521 | 47545 | 36223 | -367521 |
| | 380C2F3 | 47605 | 33829 | 363153 | 47605 | 33829 | -363153 |
| NL1/4 | GW / opgw | 2979 | 2166 | 27097 | 2979 | 2166 | -27097 |
| Construction/maintenance, +5°C | 380C1F1 | 19320 | 13280 | 178295 | 19320 | 13280 | -178295 |
| Permanent loads yg= 1.2 | 380C1F2 | 19332 | 12800 | 177432 | 19332 | 12800 | -177432 |
| Wind angle: 90° | 380C1F3 | 19345 | 12205 | 176451 | 19345 | 12205 | -176451 |
| | RTG | 5973 | 3676 | 53010 | 5973 | 3676 | -53010 |
| | 380C2F1 | 19320 | 13280 | 178295 | 19320 | 13280 | -178295 |
| | 380C2F2 | 19332 | 12800 | 177432 | 19332 | 12800 | -177432 |
| | 380C2F3 | 19345 | 12205 | 176451 | 19345 | 12205 | -176451 |
| NL1/1a | GW / opgw | 2112 | 3957 | 29321 | 2125 | 3431 | -27104 |
| Wind, 10°C | 380C1F1 | 15732 | 23272 | 190197 | 15817 | 20390 | -179180 |
| Permanent loads yg= 1.2 | 380C1F2 | 15774 | 21820 | 184566 | 15854 | 19186 | -174794 |
| Wind angle: -45° | 380C1F3 | 15828 | 20023 | 177827 | 15902 | 17698 | -169603 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 4276 | 5906 | 50349 | 4297 | 5193 | -47642 |
| | 380C2F1 | 15732 | 23272 | 190197 | 15817 | 20390 | -179180 |
| | 380C2F2 | 15774 | 21820 | 184566 | 15854 | 19186 | -174794 |
| | 380C2F3 | 15828 | 20023 | 177827 | 15902 | 17698 | -169603 |
| NL1/1b | GW / opgw | 2208 | 1562 | 23533 | 2210 | 1470 | -23376 |
| Wind, -20°C | 380C1F1 | 16358 | 10681 | 176123 | 16369 | 10173 | -175476 |
| Permanent loads yg= 1.2 | 380C1F2 | 16363 | 10425 | 175784 | 16373 | 9960 | -175237 |
| Wind angle: -45° | 380C1F3 | 16370 | 10108 | 175401 | 16378 | 9696 | -174967 |
| | RTG | 4424 | 2772 | 46511 | 4426 | 2646 | -46359 |
| | 380C2F1 | 16358 | 10681 | 176123 | 16369 | 10173 | -175476 |
| | 380C2F2 | 16363 | 10425 | 175784 | 16373 | 9960 | -175237 |
| | 380C2F3 | 16370 | 10108 | 175401 | 16378 | 9696 | -174967 |
| NL1/3 | GW / opgw | 8638 | 5390 | 60580 | 8647 | 4923 | -59957 |
| Wind, -5°C | 380C1F1 | 47747 | 27382 | 353468 | 47783 | 25365 | -351148 |
| Permanent loads yg= 1.2 | 380C1F2 | 47766 | 26367 | 352254 | 47797 | 24519 | -350286 |
| Wind angle: -45° | 380C1F3 | 47787 | 25107 | 350878 | 47812 | 23469 | -349313 |
| | RTG | 17309 | 8997 | 118950 | 17318 | 8360 | -118341 |
| | 380C2F1 | 47747 | 27382 | 353468 | 47783 | 25365 | -351148 |
| | 380C2F2 | 47766 | 26367 | 352254 | 47797 | 24519 | -350286 |
| | 380C2F3 | 47787 | 25107 | 350878 | 47812 | 23469 | -349313 |
| NL1/4 | GW / opgw | 2990 | 1683 | 26293 | 2991 | 1593 | -26191 |
| Construction/maintenance, +5°C | 380C1F1 | 19376 | 10604 | 174327 | 19383 | 10103 | -173828 |
| Permanent loads yg= 1.2 | 380C1F2 | 19379 | 10352 | 174065 | 19386 | 9892 | -173645 |
| Wind angle: -45° | 380C1F3 | 19384 | 10038 | 173771 | 19389 | 9631 | -173438 |
| | RTG | 5984 | 3022 | 52226 | 5986 | 2899 | -52129 |
| | 380C2F1 | 19376 | 10604 | 174327 | 19383 | 10103 | -173828 |
| | 380C2F2 | 19379 | 10352 | 174065 | 19386 | 9892 | -173645 |
| | 380C2F3 | 19384 | 10038 | 173771 | 19389 | 9631 | -173438 |
| NL1//1a | GW / opgw | 1651 | 702 | 15867 | 1651 | 702 | -15867 |
| Wind, 10°C | 380C1F1 | 12188 | 5178 | 117394 | 12188 | 5178 | -117394 |
| Permanent loads yg= 0.9 | 380C1F2 | 12188 | 5174 | 117394 | 12188 | 5174 | -117394 |
| Wind angle: 0° | 380C1F3 | 12188 | 5168 | 117394 | 12188 | 5168 | -117394 |
| | RTG | 3301 | 1399 | 31734 | 3301 | 1399 | -31734 |
| | 380C2F1 | 12188 | 5178 | 117394 | 12188 | 5178 | -117394 |
| | 380C2F2 | 12188 | 5174 | 117394 | 12188 | 5174 | -117394 |
| | 380C2F3 | 12188 | 5168 | 117394 | 12188 | 5168 | -117394 |
| NL1/1b | GW / opgw | 1675 | 821 | 18772 | 1675 | 821 | -18772 |
| Wind, -20°C | 380C1F1 | 12409 | 6290 | 143819 | 12409 | 6290 | -143819 |
| Permanent loads yg= 0.9 | 380C1F2 | 12409 | 6289 | 143819 | 12409 | 6289 | -143819 |
| Wind angle: 0° | 380C1F3 | 12409 | 6288 | 143819 | 12409 | 6288 | -143819 |
| | RTG | 3350 | 1642 | 37544 | 3350 | 1642 | -37544 |
| | 380C2F1 | 12409 | 6290 | 143819 | 12409 | 6290 | -143819 |
| | 380C2F2 | 12409 | 6289 | 143819 | 12409 | 6289 | -143819 |
| | 380C2F3 | 12409 | 6288 | 143819 | 12409 | 6288 | -143819 |
| NL1/3 | GW / opgw | 8142 | 2450 | 55900 | 8142 | 2450 | -55900 |
| Wind, -5°C | 380C1F1 | 43962 | 14254 | 325502 | 43962 | 14254 | -325502 |
| Permanent loads yg= 0.9 | 380C1F2 | 43962 | 14250 | 325502 | 43962 | 14250 | -325502 |
| Wind angle: 0° | 380C1F3 | 43962 | 14246 | 325503 | 43962 | 14246 | -325503 |
| | RTG | 16284 | 4895 | 111800 | 16284 | 4895 | -111800 |
| | 380C2F1 | 43962 | 14254 | 325502 | 43962 | 14254 | -325502 |
| | 380C2F2 | 43962 | 14250 | 325502 | 43962 | 14250 | -325502 |
| | 380C2F3 | 43962 | 14246 | 325503 | 43962 | 14246 | -325503 |
| NL1/4 | GW / opgw | 2457 | 974 | 22270 | 2457 | 974 | -22270 |
| Construction/maintenance, +5°C | 380C1F1 | 15432 | 6343 | 145028 | 15432 | 6343 | -145028 |
| Permanent loads yg= 0.9 | 380C1F2 | 15432 | 6342 | 145028 | 15432 | 6342 | -145028 |
| Wind angle: 0° | 380C1F3 | 15432 | 6341 | 145028 | 15432 | 6341 | -145028 |
| | RTG | 4915 | 1947 | 44539 | 4915 | 1947 | -44539 |
| | 380C2F1 | 15432 | 6343 | 145028 | 15432 | 6343 | -145028 |
| | 380C2F2 | 15432 | 6342 | 145028 | 15432 | 6342 | -145028 |
| | 380C2F3 | 15432 | 6341 | 145028 | 15432 | 6341 | -145028 |
| NL1/6 | GW / opgw | 1651 | 693 | 15867 | 1651 | 693 | -15867 |
| Permanent, +10°C | 380C1F1 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |

| | | | | | | | |
|--|-----------|-------|-------|--------|-------|-------|---------|
| Permanent loads yg= 0.9 | 380C1F2 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |
| | 380C1F3 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |
| | RTG | 3301 | 1386 | 31734 | 3301 | 1386 | -31734 |
| | 380C2F1 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |
| | 380C2F2 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |
| | 380C2F3 | 12188 | 5126 | 117395 | 12188 | 5126 | -117395 |
| NL1/1a | GW / opgw | 1582 | 3336 | 24931 | 1573 | 3875 | -27450 |
| Wind, 10°C | 380C1F1 | 11794 | 19559 | 160178 | 11720 | 22535 | -173346 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 11829 | 18312 | 154805 | 11756 | 21037 | -166669 |
| | 380C1F3 | 11875 | 16767 | 148328 | 11804 | 19179 | -158529 |
| | RTG | 3206 | 4948 | 42048 | 3186 | 5686 | -45334 |
| | 380C2F1 | 11794 | 19559 | 160178 | 11720 | 22535 | -173346 |
| | 380C2F2 | 11829 | 18312 | 154805 | 11756 | 21037 | -166669 |
| | 380C2F3 | 11875 | 16767 | 148328 | 11804 | 19179 | -158529 |
| NL1/1b | GW / opgw | 1666 | 1293 | 19322 | 1663 | 1388 | -19547 |
| Wind, -20°C | 380C1F1 | 12369 | 8889 | 146067 | 12353 | 9409 | -147010 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 12375 | 8671 | 145717 | 12362 | 9147 | -146517 |
| | 380C1F3 | 12382 | 8402 | 145320 | 12371 | 8822 | -145958 |
| | RTG | 3341 | 2284 | 38071 | 3338 | 2413 | -38293 |
| | 380C2F1 | 12369 | 8889 | 146067 | 12353 | 9409 | -147010 |
| | 380C2F2 | 12375 | 8671 | 145717 | 12362 | 9147 | -146517 |
| | 380C2F3 | 12382 | 8402 | 145320 | 12371 | 8822 | -145958 |
| NL1/3 | GW / opgw | 8117 | 4817 | 57525 | 8107 | 5286 | -58200 |
| Wind, -5°C | 380C1F1 | 43861 | 24512 | 331645 | 43821 | 26541 | -334241 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 43876 | 23662 | 330679 | 43842 | 25519 | -332883 |
| | 380C1F3 | 43893 | 22607 | 329587 | 43865 | 24253 | -331343 |
| | RTG | 16259 | 8142 | 113342 | 16249 | 8780 | -114004 |
| | 380C2F1 | 43861 | 24512 | 331645 | 43821 | 26541 | -334241 |
| | 380C2F2 | 43876 | 23662 | 330679 | 43842 | 25519 | -332883 |
| | 380C2F3 | 43893 | 22607 | 329587 | 43865 | 24253 | -331343 |
| NL1/4 | GW / opgw | 2453 | 1435 | 22581 | 2451 | 1527 | -22713 |
| Construction/maintenance, +5°C | 380C1F1 | 15409 | 8914 | 146613 | 15399 | 9423 | -147291 |
| Permanent loads yg= 0.9 Wind angle: 45° | 380C1F2 | 15412 | 8700 | 146362 | 15404 | 9167 | -146936 |
| | 380C1F3 | 15416 | 8436 | 146079 | 15410 | 8849 | -146535 |
| | RTG | 4910 | 2580 | 44832 | 4909 | 2704 | -44959 |
| | 380C2F1 | 15409 | 8914 | 146613 | 15399 | 9423 | -147291 |
| | 380C2F2 | 15412 | 8700 | 146362 | 15404 | 9167 | -146936 |
| | 380C2F3 | 15416 | 8436 | 146079 | 15410 | 8849 | -146535 |
| NL1/1a | GW / opgw | 1546 | 6676 | 40290 | 1546 | 6676 | -40290 |
| Wind, 10°C | 380C1F1 | 11490 | 38156 | 244199 | 11490 | 38156 | -244199 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 11517 | 35398 | 231790 | 11517 | 35398 | -231790 |
| | 380C1F3 | 11557 | 31954 | 216173 | 11557 | 31954 | -216173 |
| | RTG | 3121 | 9579 | 63441 | 3121 | 9579 | -63441 |
| | 380C2F1 | 11490 | 38156 | 244199 | 11490 | 38156 | -244199 |
| | 380C2F2 | 11517 | 35398 | 231790 | 11517 | 35398 | -231790 |
| | 380C2F3 | 11557 | 31954 | 216173 | 11557 | 31954 | -216173 |
| NL1/1b | GW / opgw | 1642 | 1908 | 21211 | 1642 | 1908 | -21211 |
| Wind, -20°C | 380C1F1 | 12244 | 12225 | 154226 | 12244 | 12225 | -154226 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 12266 | 11716 | 152696 | 12266 | 11716 | -152696 |
| | 380C1F3 | 12292 | 11088 | 150931 | 12292 | 11088 | -150931 |
| | RTG | 3314 | 3107 | 40010 | 3314 | 3107 | -40010 |
| | 380C2F1 | 12244 | 12225 | 154226 | 12244 | 12225 | -154226 |
| | 380C2F2 | 12266 | 11716 | 152696 | 12266 | 11716 | -152696 |
| | 380C2F3 | 12292 | 11088 | 150931 | 12292 | 11088 | -150931 |
| NL1/3 | GW / opgw | 8045 | 7800 | 63183 | 8045 | 7800 | -63183 |
| Wind, -5°C | 380C1F1 | 43549 | 37397 | 353992 | 43549 | 37397 | -353992 |
| Permanent loads yg= 0.9 Wind angle: 90° | 380C1F2 | 43603 | 35447 | 349821 | 43603 | 35447 | -349821 |
| | 380C1F3 | 43667 | 33034 | 345001 | 43667 | 33034 | -345001 |
| | RTG | 16176 | 12185 | 119142 | 16176 | 12185 | -119142 |
| | 380C2F1 | 43549 | 37397 | 353992 | 43549 | 37397 | -353992 |
| | 380C2F2 | 43603 | 35447 | 349821 | 43603 | 35447 | -349821 |
| | 380C2F3 | 43667 | 33034 | 345001 | 43667 | 33034 | -345001 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| NL1/4 | GW / opgw | 2438 | 2019 | 23740 | 2438 | 2019 | -23740 |
| Construction/maintenance, +5°C | 380C1F1 | 15329 | 12157 | 152603 | 15329 | 12157 | -152603 |
| Permanent loads yg= 0.9 | 380C1F2 | 15344 | 11665 | 151460 | 15344 | 11665 | -151460 |
| Wind angle: 90° | 380C1F3 | 15361 | 11056 | 150152 | 15361 | 11056 | -150152 |
| | RTG | 4895 | 3368 | 45974 | 4895 | 3368 | -45974 |
| | 380C2F1 | 15329 | 12157 | 152603 | 15329 | 12157 | -152603 |
| | 380C2F2 | 15344 | 11665 | 151460 | 15344 | 11665 | -151460 |
| | 380C2F3 | 15361 | 11056 | 150152 | 15361 | 11056 | -150152 |
| NL1/1a | GW / opgw | 1573 | 3875 | 27450 | 1582 | 3336 | -24931 |
| Wind, 10°C | 380C1F1 | 11720 | 22535 | 173346 | 11794 | 19559 | -160178 |
| Permanent loads yg= 0.9 | 380C1F2 | 11756 | 21037 | 166669 | 11829 | 18312 | -154805 |
| Wind angle: -45° | 380C1F3 | 11804 | 19179 | 158529 | 11875 | 16767 | -148328 |
| | RTG | 3186 | 5686 | 45334 | 3206 | 4948 | -42048 |
| | 380C2F1 | 11720 | 22535 | 173346 | 11794 | 19559 | -160178 |
| | 380C2F2 | 11756 | 21037 | 166669 | 11829 | 18312 | -154805 |
| | 380C2F3 | 11804 | 19179 | 158529 | 11875 | 16767 | -148328 |
| NL1/1b | GW / opgw | 1663 | 1388 | 19547 | 1666 | 1293 | -19322 |
| Wind, -20°C | 380C1F1 | 12353 | 9409 | 147010 | 12369 | 8889 | -146067 |
| Permanent loads yg= 0.9 | 380C1F2 | 12362 | 9147 | 146517 | 12375 | 8671 | -145717 |
| Wind angle: -45° | 380C1F3 | 12371 | 8822 | 145958 | 12382 | 8402 | -145320 |
| | RTG | 3338 | 2413 | 38293 | 3341 | 2284 | -38071 |
| | 380C2F1 | 12353 | 9409 | 147010 | 12369 | 8889 | -146067 |
| | 380C2F2 | 12362 | 9147 | 146517 | 12375 | 8671 | -145717 |
| | 380C2F3 | 12371 | 8822 | 145958 | 12382 | 8402 | -145320 |
| NL1/3 | GW / opgw | 8107 | 5286 | 58200 | 8117 | 4817 | -57525 |
| Wind, -5°C | 380C1F1 | 43821 | 26541 | 334241 | 43861 | 24512 | -331645 |
| Permanent loads yg= 0.9 | 380C1F2 | 43842 | 25519 | 332883 | 43876 | 23662 | -330679 |
| Wind angle: -45° | 380C1F3 | 43865 | 24253 | 331343 | 43893 | 22607 | -329587 |
| | RTG | 16249 | 8780 | 114004 | 16259 | 8142 | -113342 |
| | 380C2F1 | 43821 | 26541 | 334241 | 43861 | 24512 | -331645 |
| | 380C2F2 | 43842 | 25519 | 332883 | 43876 | 23662 | -330679 |
| | 380C2F3 | 43865 | 24253 | 331343 | 43893 | 22607 | -329587 |
| NL1/4 | GW / opgw | 2451 | 1527 | 22713 | 2453 | 1435 | -22581 |
| Construction/maintenance, +5°C | 380C1F1 | 15399 | 9423 | 147291 | 15409 | 8914 | -146613 |
| Permanent loads yg= 0.9 | 380C1F2 | 15404 | 9167 | 146936 | 15412 | 8700 | -146362 |
| Wind angle: -45° | 380C1F3 | 15410 | 8849 | 146535 | 15416 | 8436 | -146079 |
| | RTG | 4909 | 2704 | 44959 | 4910 | 2580 | -44832 |
| | 380C2F1 | 15399 | 9423 | 147291 | 15409 | 8914 | -146613 |
| | 380C2F2 | 15404 | 9167 | 146936 | 15412 | 8700 | -146362 |
| | 380C2F3 | 15410 | 8849 | 146535 | 15416 | 8436 | -146079 |

NWW6S350UY+3

Appendix NWW6S350UY+3 / NL4

Loadcases for tower strength (serviceability limit state)

| Loadcase according to 50341-3-15 | Att. Point | Ahead | | | Back | | |
|----------------------------------|------------|--------------|-----------------|------------------|--------------|-----------------|------------------|
| | | Vertical [N] | Transversal [N] | Longitudinal [N] | Vertical [N] | Transversal [N] | Longitudinal [N] |
| NL4/1a | GW / opgw | 1831 | 760 | 17260 | 1831 | 760 | -17260 |
| Wind, 10°C | 380C1F1 | 13518 | 5599 | 127433 | 13518 | 5599 | -127433 |
| Permanent loads yg= 1.0 | 380C1F2 | 13518 | 5596 | 127433 | 13518 | 5596 | -127433 |
| Wind angle: 0° | 380C1F3 | 13518 | 5592 | 127433 | 13518 | 5592 | -127433 |
| | RTG | 3662 | 1516 | 34520 | 3662 | 1516 | -34520 |
| | 380C2F1 | 13518 | 5599 | 127433 | 13518 | 5599 | -127433 |
| | 380C2F2 | 13518 | 5596 | 127433 | 13518 | 5596 | -127433 |
| | 380C2F3 | 13518 | 5592 | 127433 | 13518 | 5592 | -127433 |
| NL4/1b | GW / opgw | 1856 | 884 | 20227 | 1856 | 884 | -20227 |
| Wind, -20°C | 380C1F1 | 13741 | 6739 | 154196 | 13741 | 6739 | -154196 |
| Permanent loads yg= 1.0 | 380C1F2 | 13741 | 6739 | 154196 | 13741 | 6739 | -154196 |
| Wind angle: 0° | 380C1F3 | 13741 | 6738 | 154196 | 13741 | 6738 | -154196 |
| | RTG | 3711 | 1768 | 40455 | 3711 | 1768 | -40455 |
| | 380C2F1 | 13741 | 6739 | 154196 | 13741 | 6739 | -154196 |
| | 380C2F2 | 13741 | 6739 | 154196 | 13741 | 6739 | -154196 |
| | 380C2F3 | 13741 | 6738 | 154196 | 13741 | 6738 | -154196 |
| NL4/3 | GW / opgw | 6173 | 2007 | 45818 | 6173 | 2007 | -45818 |
| Wind, -5°C | 380C1F1 | 34774 | 12060 | 275583 | 34774 | 12060 | -275583 |
| Permanent loads yg= 1.0 | 380C1F2 | 34774 | 12058 | 275583 | 34774 | 12058 | -275583 |
| Wind angle: 0° | 380C1F3 | 34774 | 12055 | 275584 | 34774 | 12055 | -275584 |
| | RTG | 12346 | 4010 | 91636 | 12346 | 4010 | -91636 |
| | 380C2F1 | 34774 | 12060 | 275583 | 34774 | 12060 | -275583 |
| | 380C2F2 | 34774 | 12058 | 275583 | 34774 | 12058 | -275583 |
| | 380C2F3 | 34774 | 12055 | 275584 | 34774 | 12055 | -275584 |
| NL4/4 | GW / opgw | 2370 | 946 | 21647 | 2370 | 946 | -21647 |
| Construction/maintenance, +5°C | 380C1F1 | 15689 | 6420 | 146877 | 15689 | 6420 | -146877 |
| Permanent loads yg= 1.0 | 380C1F2 | 15689 | 6419 | 146877 | 15689 | 6419 | -146877 |
| Wind angle: 0° | 380C1F3 | 15689 | 6418 | 146877 | 15689 | 6418 | -146877 |
| | RTG | 4740 | 1892 | 43294 | 4740 | 1892 | -43294 |
| | 380C2F1 | 15689 | 6420 | 146877 | 15689 | 6420 | -146877 |
| | 380C2F2 | 15689 | 6419 | 146877 | 15689 | 6419 | -146877 |
| | 380C2F3 | 15689 | 6418 | 146877 | 15689 | 6418 | -146877 |
| NL4/1a | GW / opgw | 1787 | 2443 | 21640 | 1777 | 2793 | -23103 |
| Wind, 10°C | 380C1F1 | 13295 | 14787 | 146829 | 13232 | 16692 | -153823 |
| Permanent loads yg= 1.0 | 380C1F2 | 13321 | 13993 | 144096 | 13263 | 15731 | -150226 |
| Wind angle: 45° | 380C1F3 | 13354 | 13012 | 140902 | 13303 | 14544 | -145982 |
| | RTG | 3610 | 3782 | 39110 | 3594 | 4252 | -40803 |
| | 380C2F1 | 13295 | 14787 | 146829 | 13232 | 16692 | -153823 |
| | 380C2F2 | 13321 | 13993 | 144096 | 13263 | 15731 | -150226 |
| | 380C2F3 | 13354 | 13012 | 140902 | 13303 | 14544 | -145982 |
| NL4/1b | GW / opgw | 1852 | 1192 | 20438 | 1851 | 1253 | -20528 |
| Wind, -20°C | 380C1F1 | 13725 | 8443 | 155043 | 13719 | 8779 | -155411 |
| Permanent loads yg= 1.0 | 380C1F2 | 13727 | 8303 | 154907 | 13722 | 8610 | -155218 |
| Wind angle: 45° | 380C1F3 | 13730 | 8128 | 154755 | 13726 | 8401 | -155000 |
| | RTG | 3708 | 2190 | 40653 | 3707 | 2273 | -40739 |
| | 380C2F1 | 13725 | 8443 | 155043 | 13719 | 8779 | -155411 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | 380C2F2 | 13727 | 8303 | 154907 | 13722 | 8610 | -155218 |
| | 380C2F3 | 13730 | 8128 | 154755 | 13726 | 8401 | -155000 |
| NL4/3 | GW / opgw | 6156 | 3582 | 46873 | 6150 | 3895 | -47315 |
| Wind, -5°C | 380C1F1 | 34712 | 18881 | 279332 | 34687 | 20228 | -280933 |
| Permanent loads yg= 1.0 | 380C1F2 | 34721 | 18317 | 278738 | 34700 | 19550 | -280095 |
| Wind angle: 45° | 380C1F3 | 34732 | 17617 | 278068 | 34715 | 18709 | -279146 |
| | RTG | 12329 | 6172 | 92632 | 12323 | 6597 | -93063 |
| | 380C2F1 | 34712 | 18881 | 279332 | 34687 | 20228 | -280933 |
| | 380C2F2 | 34721 | 18317 | 278738 | 34700 | 19550 | -280095 |
| | 380C2F3 | 34732 | 17617 | 278068 | 34715 | 18709 | -279146 |
| NL4/4 | GW / opgw | 2368 | 1251 | 21789 | 2367 | 1311 | -21851 |
| Construction/maintenance, +5°C | 380C1F1 | 15679 | 8117 | 147545 | 15674 | 8450 | -147839 |
| Permanent loads yg= 1.0 | 380C1F2 | 15680 | 7977 | 147437 | 15676 | 8282 | -147685 |
| Wind angle: 45° | 380C1F3 | 15682 | 7804 | 147315 | 15679 | 8074 | -147511 |
| | RTG | 4738 | 2311 | 43425 | 4737 | 2393 | -43484 |
| | 380C2F1 | 15679 | 8117 | 147545 | 15674 | 8450 | -147839 |
| | 380C2F2 | 15680 | 7977 | 147437 | 15676 | 8282 | -147685 |
| | 380C2F3 | 15682 | 7804 | 147315 | 15679 | 8074 | -147511 |
| NL4/1a | GW / opgw | 1740 | 4650 | 31453 | 1740 | 4650 | -31453 |
| Wind, 10°C | 380C1F1 | 12964 | 26916 | 196808 | 12964 | 26916 | -196808 |
| Permanent loads yg= 1.0 | 380C1F2 | 13003 | 25089 | 188780 | 13003 | 25089 | -188780 |
| Wind angle: 90° | 380C1F3 | 13056 | 22819 | 178932 | 13056 | 22819 | -178932 |
| | RTG | 3524 | 6786 | 51485 | 3524 | 6786 | -51485 |
| | 380C2F1 | 12964 | 26916 | 196808 | 12964 | 26916 | -196808 |
| | 380C2F2 | 13003 | 25089 | 188780 | 13003 | 25089 | -188780 |
| | 380C2F3 | 13056 | 22819 | 178932 | 13056 | 22819 | -178932 |
| NL4/1b | GW / opgw | 1841 | 1582 | 21231 | 1841 | 1582 | -21231 |
| Wind, -20°C | 380C1F1 | 13669 | 10574 | 158340 | 13669 | 10574 | -158340 |
| Permanent loads yg= 1.0 | 380C1F2 | 13680 | 10252 | 157703 | 13680 | 10252 | -157703 |
| Wind angle: 90° | 380C1F3 | 13692 | 9853 | 156979 | 13692 | 9853 | -156979 |
| | RTG | 3696 | 2716 | 41430 | 3696 | 2716 | -41430 |
| | 380C2F1 | 13669 | 10574 | 158340 | 13669 | 10574 | -158340 |
| | 380C2F2 | 13680 | 10252 | 157703 | 13680 | 10252 | -157703 |
| | 380C2F3 | 13692 | 9853 | 156979 | 13692 | 9853 | -156979 |
| NL4/3 | GW / opgw | 6107 | 5570 | 50638 | 6107 | 5570 | -50638 |
| Wind, -5°C | 380C1F1 | 34509 | 27429 | 293339 | 34509 | 27429 | -293339 |
| Permanent loads yg= 1.0 | 380C1F2 | 34545 | 26135 | 290690 | 34545 | 26135 | -290690 |
| Wind angle: 90° | 380C1F3 | 34588 | 24535 | 287647 | 34588 | 24535 | -287647 |
| | RTG | 12274 | 8864 | 96438 | 12274 | 8864 | -96438 |
| | 380C2F1 | 34509 | 27429 | 293339 | 34509 | 27429 | -293339 |
| | 380C2F2 | 34545 | 26135 | 290690 | 34545 | 26135 | -290690 |
| | 380C2F3 | 34588 | 24535 | 287647 | 34588 | 24535 | -287647 |
| NL4/4 | GW / opgw | 2360 | 1631 | 22345 | 2360 | 1631 | -22345 |
| Construction/maintenance, +5°C | 380C1F1 | 15641 | 10221 | 150204 | 15641 | 10221 | -150204 |
| Permanent loads yg= 1.0 | 380C1F2 | 15648 | 9903 | 149687 | 15648 | 9903 | -149687 |
| Wind angle: 90° | 380C1F3 | 15656 | 9510 | 149101 | 15656 | 9510 | -149101 |
| | RTG | 4730 | 2827 | 43962 | 4730 | 2827 | -43962 |
| | 380C2F1 | 15641 | 10221 | 150204 | 15641 | 10221 | -150204 |
| | 380C2F2 | 15648 | 9903 | 149687 | 15648 | 9903 | -149687 |
| | 380C2F3 | 15656 | 9510 | 149101 | 15656 | 9510 | -149101 |
| NL4/1a | GW / opgw | 1777 | 2793 | 23103 | 1787 | 2443 | -21640 |
| Wind, 10°C | 380C1F1 | 13232 | 16692 | 153823 | 13295 | 14787 | -146829 |
| Permanent loads yg= 1.0 | 380C1F2 | 13263 | 15731 | 150226 | 13321 | 13993 | -144096 |
| Wind angle: -45° | 380C1F3 | 13303 | 14544 | 145982 | 13354 | 13012 | -140902 |
| | RTG | 3594 | 4252 | 40803 | 3610 | 3782 | -39110 |
| | 380C2F1 | 13232 | 16692 | 153823 | 13295 | 14787 | -146829 |
| | 380C2F2 | 13263 | 15731 | 150226 | 13321 | 13993 | -144096 |
| | 380C2F3 | 13303 | 14544 | 145982 | 13354 | 13012 | -140902 |
| NL4/1b | GW / opgw | 1851 | 1253 | 20528 | 1852 | 1192 | -20438 |
| Wind, -20°C | 380C1F1 | 13719 | 8779 | 155411 | 13725 | 8443 | -155043 |
| Permanent loads yg= 1.0 | 380C1F2 | 13722 | 8610 | 155218 | 13727 | 8303 | -154907 |
| Wind angle: -45° | 380C1F3 | 13726 | 8401 | 155000 | 13730 | 8128 | -154755 |

| | | | | | | | |
|--------------------------------|-----------|-------|-------|--------|-------|-------|---------|
| | RTG | 3707 | 2273 | 40739 | 3708 | 2190 | -40653 |
| | 380C2F1 | 13719 | 8779 | 155411 | 13725 | 8443 | -155043 |
| | 380C2F2 | 13722 | 8610 | 155218 | 13727 | 8303 | -154907 |
| | 380C2F3 | 13726 | 8401 | 155000 | 13730 | 8128 | -154755 |
| NL4/3 | GW / opgw | 6150 | 3895 | 47315 | 6156 | 3582 | -46873 |
| Wind, -5°C | 380C1F1 | 34687 | 20228 | 280933 | 34712 | 18881 | -279332 |
| Permanent loads yg= 1.0 | 380C1F2 | 34700 | 19550 | 280095 | 34721 | 18317 | -278738 |
| Wind angle: -45° | 380C1F3 | 34715 | 18709 | 279146 | 34732 | 17617 | -278068 |
| | RTG | 12323 | 6597 | 93063 | 12329 | 6172 | -92632 |
| | 380C2F1 | 34687 | 20228 | 280933 | 34712 | 18881 | -279332 |
| | 380C2F2 | 34700 | 19550 | 280095 | 34721 | 18317 | -278738 |
| | 380C2F3 | 34715 | 18709 | 279146 | 34732 | 17617 | -278068 |
| NL4/4 | GW / opgw | 2367 | 1311 | 21851 | 2368 | 1251 | -21789 |
| Construction/maintenance, +5°C | 380C1F1 | 15674 | 8450 | 147839 | 15679 | 8117 | -147545 |
| Permanent loads yg= 1.0 | 380C1F2 | 15676 | 8282 | 147685 | 15680 | 7977 | -147437 |
| Wind angle: -45° | 380C1F3 | 15679 | 8074 | 147511 | 15682 | 7804 | -147315 |
| | RTG | 4737 | 2393 | 43484 | 4738 | 2311 | -43425 |
| | 380C2F1 | 15674 | 8450 | 147839 | 15679 | 8117 | -147545 |
| | 380C2F2 | 15676 | 8282 | 147685 | 15680 | 7977 | -147437 |
| | 380C2F3 | 15679 | 8074 | 147511 | 15682 | 7804 | -147315 |