

Neste Doc. No.:





Rev.

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ROTTERDAM SITE DEVELOPMENT
NESTE

CALCULATION NOTE
FOR
PILING PLAN ZONE "A" AND ZONE "I"

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REV.	DATE	STATUS	WRITTEN BY (name & visa)	CHECKED BY (name & visa)	APPROV./AUTHOR. BY (name & visa)
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1. SCOPE

The scope of this calculation note is to provide an evaluation of the loads to which the piles of the structures A20-STR-1000 and A20-PR-1100 located in "Zone A" and "Zone I" of the plant within *NESTE Rotterdam Site Development* Project are subject, and to check the geotechnical capacity of the piles.

This document will illustrate the geometry of the structures, the loads to which the structure will be subjected, the load combinations used and the results in terms of actions on the piles for these combinations.

Consequence Class considered for the calculations is CC3.

2. REFERENCE DOCUMENTS

The documents reported below shall be considered as integral part of this calculation note as well as their addenda, updating and reference documents.

2.1. Codes and Standards

EN 1990	Eurocode – Basis of structural design
EN 1991	Eurocode1 – Actions on structures
EN 1991-1-3	Eurocode1 part 1-3 Actions on Structures-Snow Loads
EN 1991-1-4	Eurocode1 part 1-4 Actions on Structures-Wind Loads
EN 1992-1-1	Eurocode2 part 1-1 General rules and rules for buildings
NEN EN 1990 NB	Eurocode – Basis of structural design – National Annex
NEN EN 1991-1-3 NB	Eurocode1 – part 1-3 Actions on Structures – Snow Load – National Annex
NEN EN 1991-1-4 NB	Eurocode1 – part 1-4 Actions on Structures – Wind Load – National Annex
NEN EN 1992-1-1 NB	Eurocode2 part 1-1 General rules and rules for buildings – National Annex
EN 1997-1	Eurocode7 Part 1 General Rules for Geotechnical Design
NEN EN 1997-1 NB	Eurocode7 Part 1 General Rules for Geotechnical Design – National Annex

2.2. Project Standard Drawings and Documents

080871C-000-JSD-1700-001	General design rules for Steel Structures and Civil Works
080871C-000-JSD-1410-004	JSD for Geotechnical Recommendations – RJF Plant Area
080871C-000-JSD-1430-004	Job Design Specification for Piles – RJF Area
080871C-000-CN-1431-001	Calculation note for piles
080871C-000-DW-1431-001-01	General notes for piles

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2.3. Reference Drawings

080871C-A00-DW-1431-001-01 Zone "A" Piling Plan
080871C-I00-DW-1431-001-01 Zone "I" Piling Plan (1)
080871C-I00-DW-1431-001-02 Zone "I" Piling Plan (2)

3. GEOTECHNICAL PILE CAPACITIES FOR DESIGN

Regarding the design capacity in compression and tension for the piles reference was made on the document 080871C-000-JSD-1430-004.

In the following table, which shows the design capacity for compression and tension for full displacement piles having a diameter $D = 457\text{mm}$ are indicated the values related to the structures covered by this calculation report based on the pile tip elevation considered.

Table 4.2: Full displacement pile $D = 457\text{ mm}$

Area	Structure	CUT OFF	Reference CPTs	P _{dp}	T _{dp}	Pile tip elevation
-	-	m NAP	-	kN	kN	m NAP
M	Hot Oil Unit (M56-STR-100) Heater	3,3	CE805	2900	1100	-16.0 (*)
			CE804A			
			CP313	3650	1450	-21.5 (**)
	Hot Oil Unit (M56-STR-100)	3,3	CE805			
			CE806			
			CP317	3000	1000	-16.0 (*)
			CP321	4050	1450	-22.0 (**)
			CE807A			
			M047			
Zone A	New RJF (A20-STR-1000)	5,3	CE800			
			CP301			
			M040	3100	1000	-16.0 (*)
			CE801			
			M042	3800	1300	-19.0 (**)
			S68			
	New RJF (A20-STR-1000)	4,35	CE801	3250	1000	-16.0 (*)
			M042			
			S68	3500	1100	-18.0 (**)
	New RJF (A20-STR-1100)	5,3	CE802A	2850	1050	-16.0 (*)
			M036			
S74			3550	1450	-21.5 (**)	
Zone I	A20-STR-1000	5,3	M041	3150	1000	-16.0 (*)
	A20-PR-1100	5,3	CE802A	3000	1100	-16.0 (*)
			S73			
			S74	3650	1450	-22.0 (**)

(*) RECOMMENDED PILE TIP ELEVATION

(**) INSTALLATION AT THIS DEPTH TO BE CONFIRMED BY THE SPECIALIST SUBCONTRACTOR

Design load in compression and in Tension shall be compared with the design actions at pile head, that are characteristic actions factorized with the appropriate partial factors on action given in NEN EN 1997-1+C1+A1: 2016/NB:2019.

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The design value considered for the checks in terms of bearing capacity and tension are the lowest of those shown in the previous table for the structures, the values are reported in the table below for convenience

	A20-STR-1000	A20-PR-1100
P_d [kN]	3100	2850
T_d [kN]	1000	1050

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4. ANALYSIS OF THE STRUCTURE A20-STR-1000

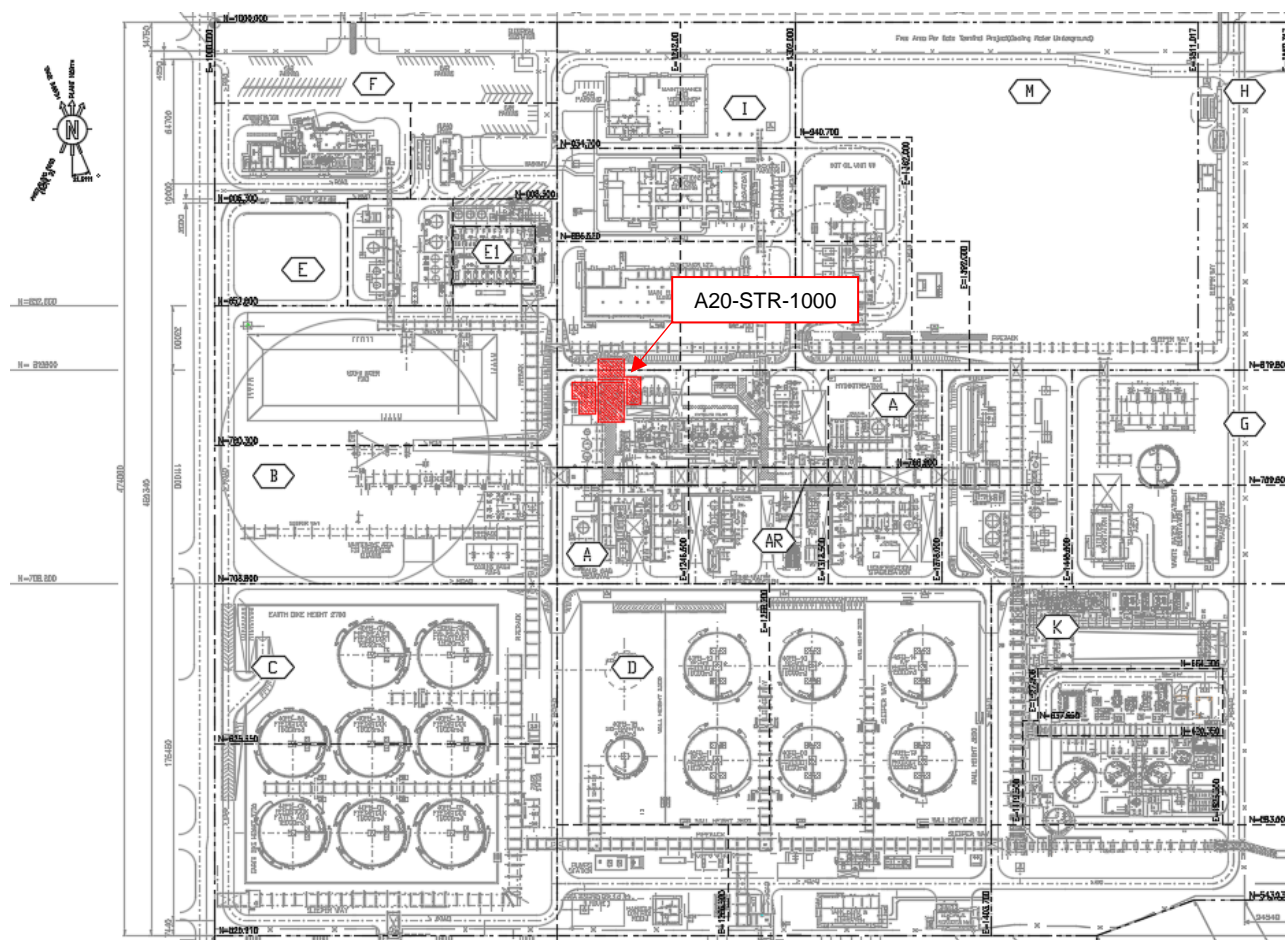
4.1. Description

The new RJF structure A20-STR-1000 is within the existing Process Area North (Zone A).

The Process structure, steel type, has vertical bracing in the north-south direction (braced frames), while in the transverse direction (east-west) it has frames with main beams having moment connections (moment frames).

the structure on the north side has a road crossing resting on a portal, which together with its foundation falls into "Zone I".

Process structure A20-STR-1000 location in refinery plan is shown in the picture below.

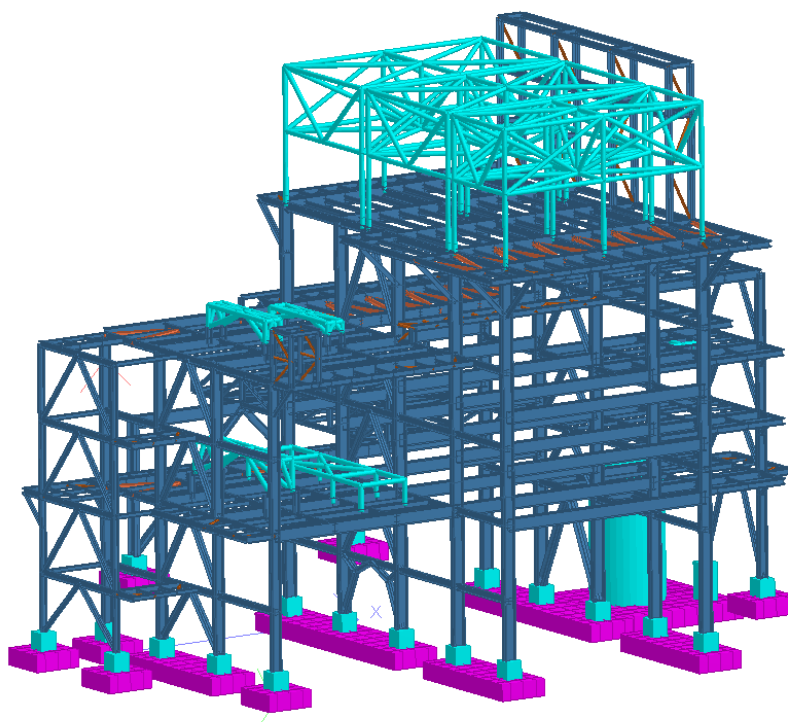


Location of A20-STR-1000

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4.2. Structural Model

The software used for the analysis is **STAAD.Pro**, the picture below shown a 3D view of the structural model of pipe-rack A20-STR-1000 in the STAAD.Pro workplace.



Structural model of A20-STR-1000

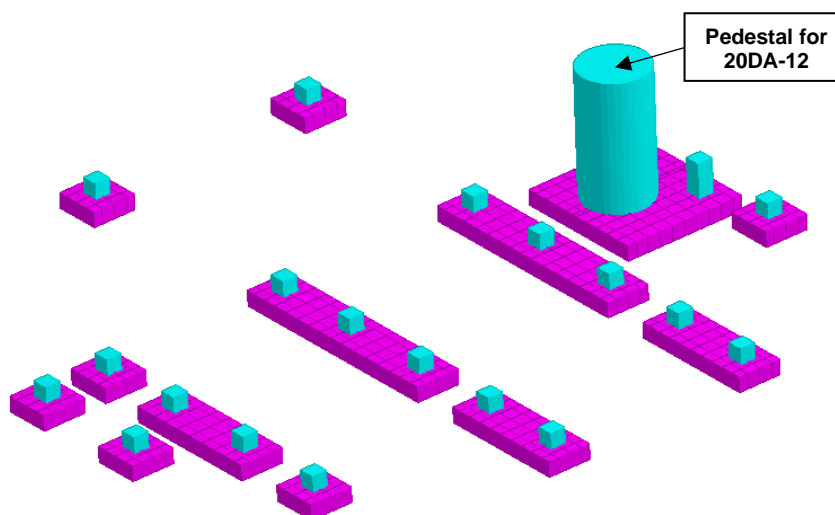
The pile foundations are modeled by means of shell elements and vertical springs representing the piles. For the stiffness of the springs reference was made to the document 080871C-000-JSD-1430-004, the table below shows the values used in the structural model

Table 4.5- Spring values D=457

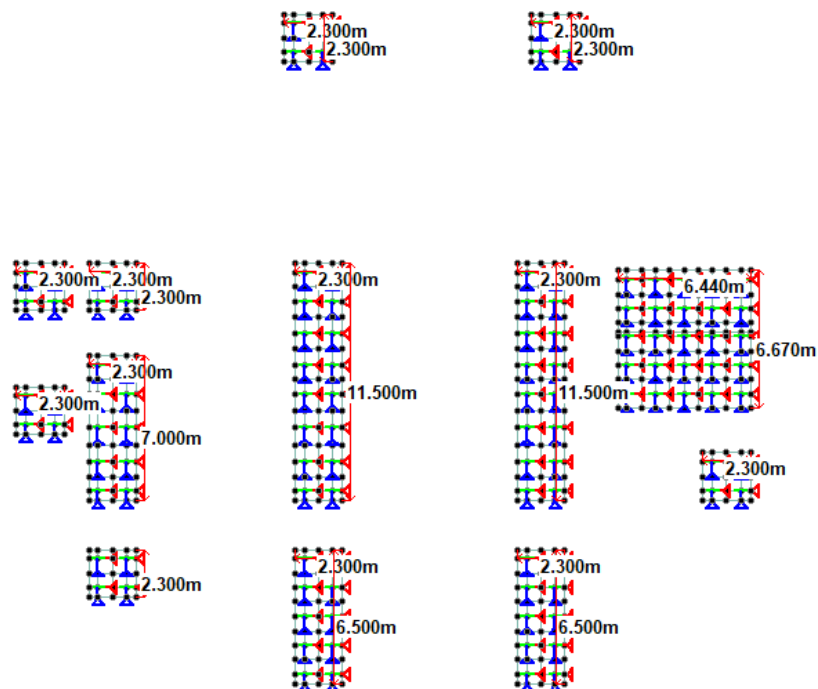
UNIT	Pile lenght	F _{rep}	W _{total;d}	k _{pile;d}
[-]	[m]	[kN]	[mm]	[MN/m]
Hot Oil Unit - Heater	19.3	2900	-7.54	384.5
Hot Oil Unit	19.3	3000	-7.85	382.1
New RJF (A20-STR-1000)	21.3	3100	-8.78	353.2
New RJF (A20-STR-1000)	20.35	3250	-9.49	342.3
New RJF (A20-STR-1100)	21.3	2250	-5.45	413.2
A20-STR-1000	21.3	3150	-8.25	382.0
A20-PR-1100	21.3	3000	-8.00	375.0

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In the image below the foundations modeled for the structure A20-STR-1000



3D view of the foundation

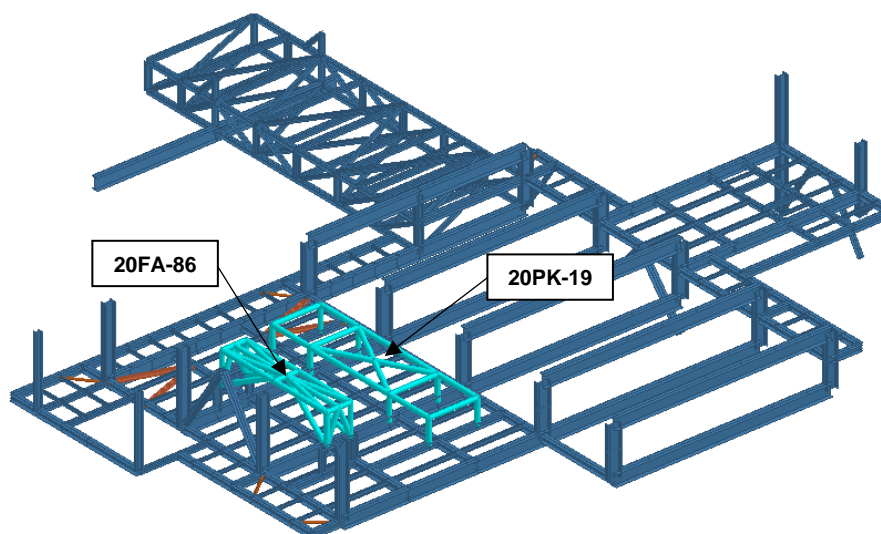


Plan view of the foundation

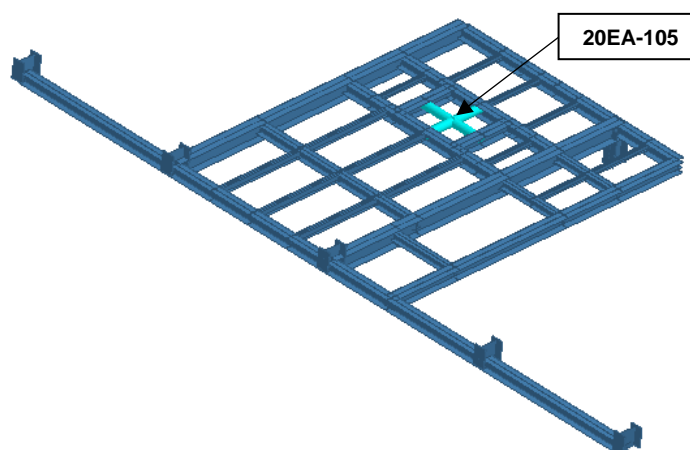
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The presence of the equipment is taken into account through the use of master joint, where the loads are applied, rigidly connected to slave joint that transfer the loads on the supporting structural members.

In the following images the plans of the structure at the different elevations.

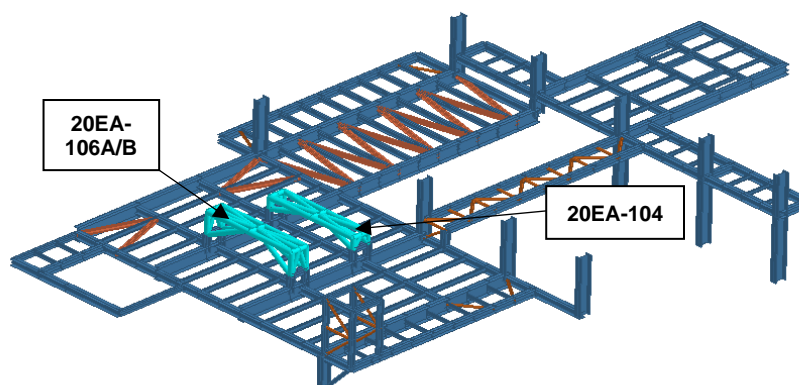


Plan of the structure at elevation +107800 to +109100

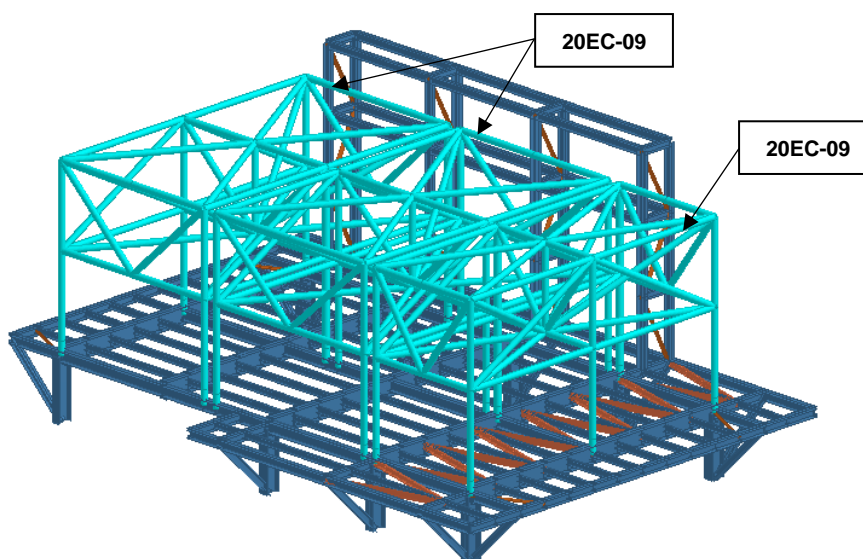


Plan of the structure at elevation +112300

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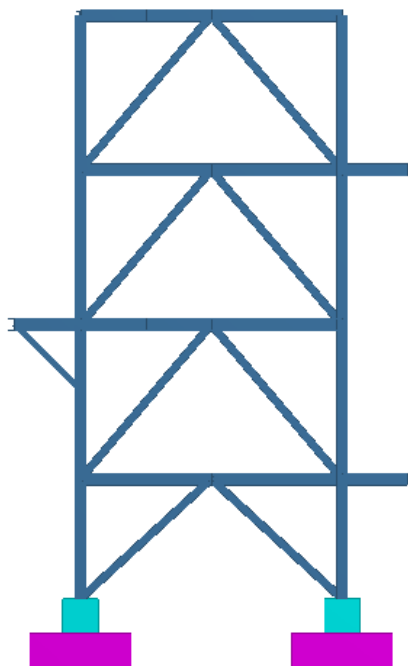
Plan of the structure at elevation +114900 to +115700



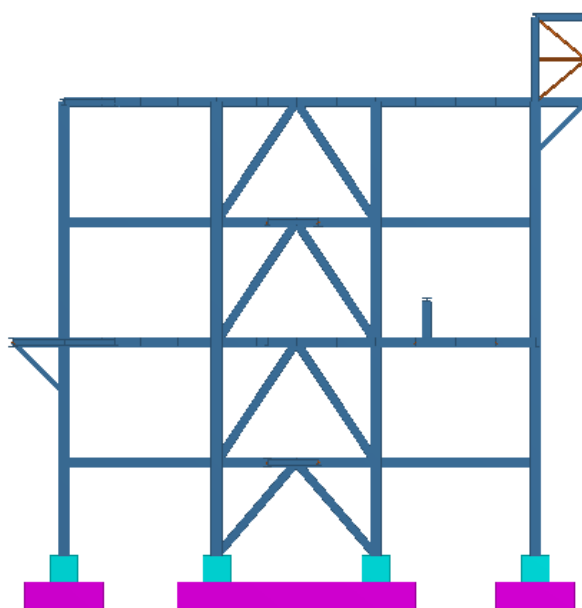
Plan of the structure at elevation +119700

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In the images below the longitudinal frames of the structure



Alignment X



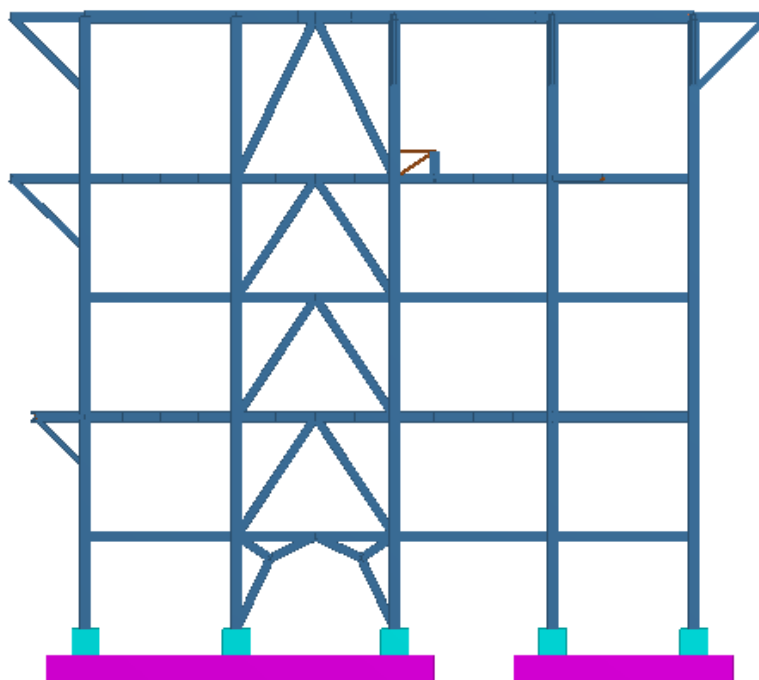
Alignment 4

Neste Doc. No.:

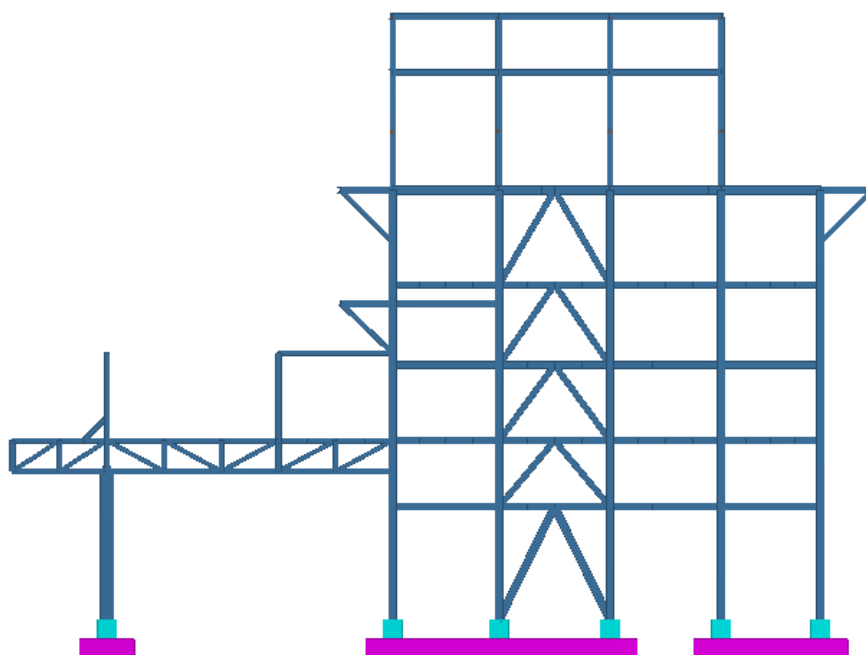
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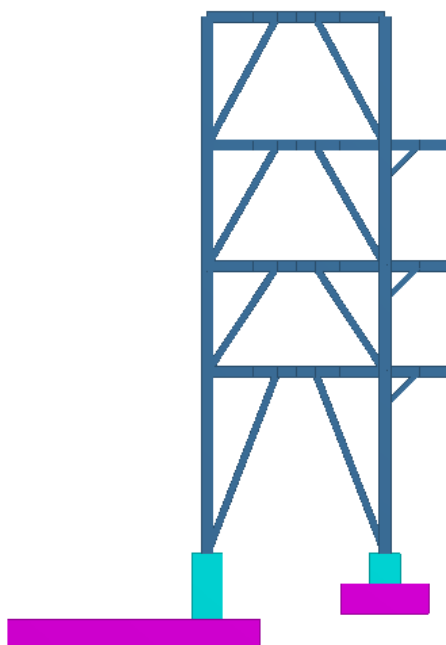


Alignment 3



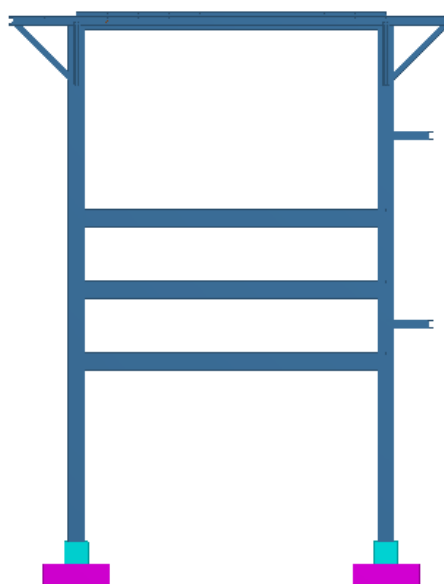
Alignment 2

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Alignment 1

In the images below the transversal frames of the structure



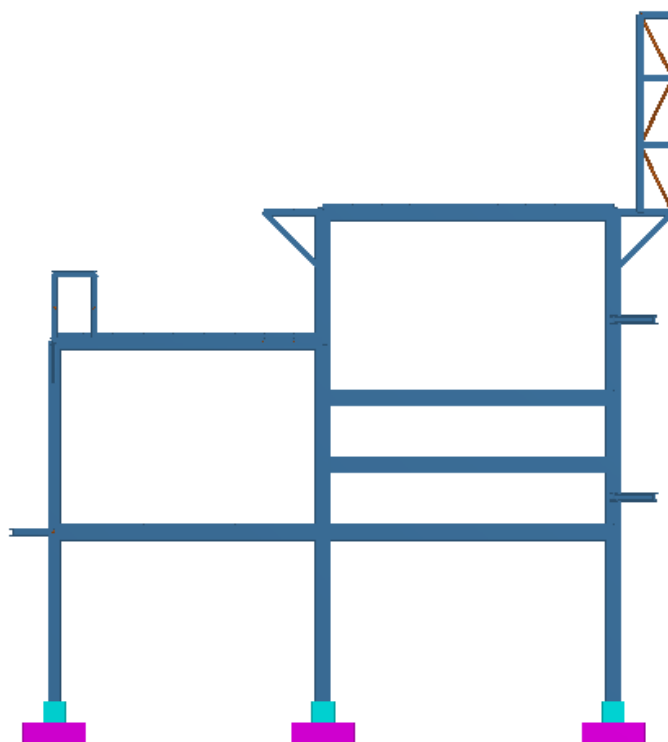
Alignment A

Neste Doc. No.:

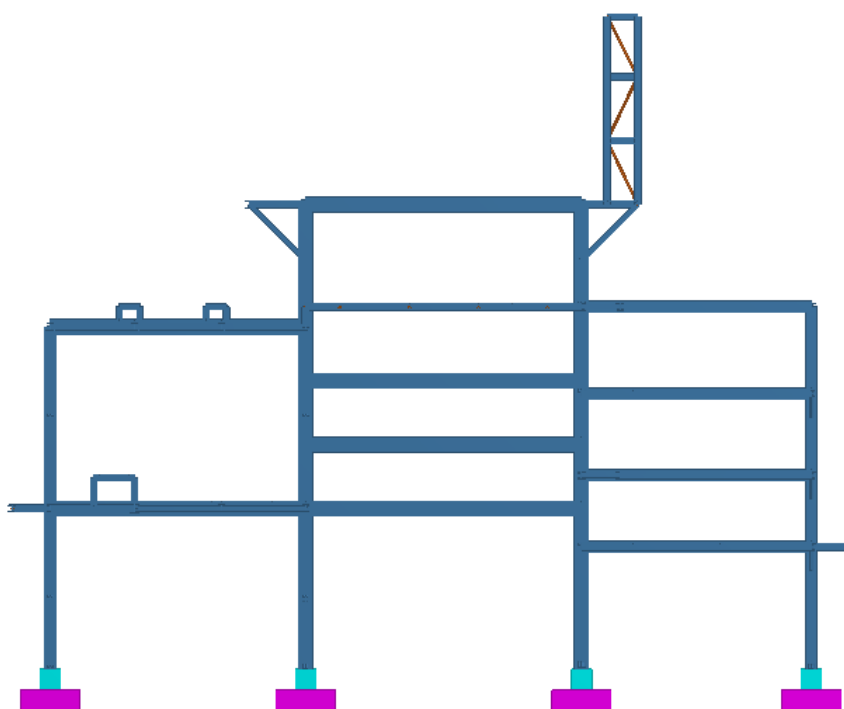
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Alignment B



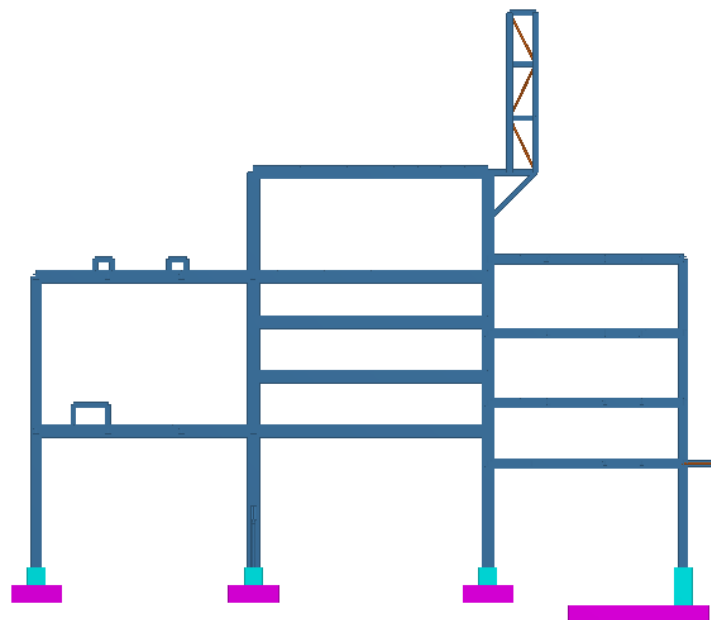
Alignment C

Neste Doc. No.:

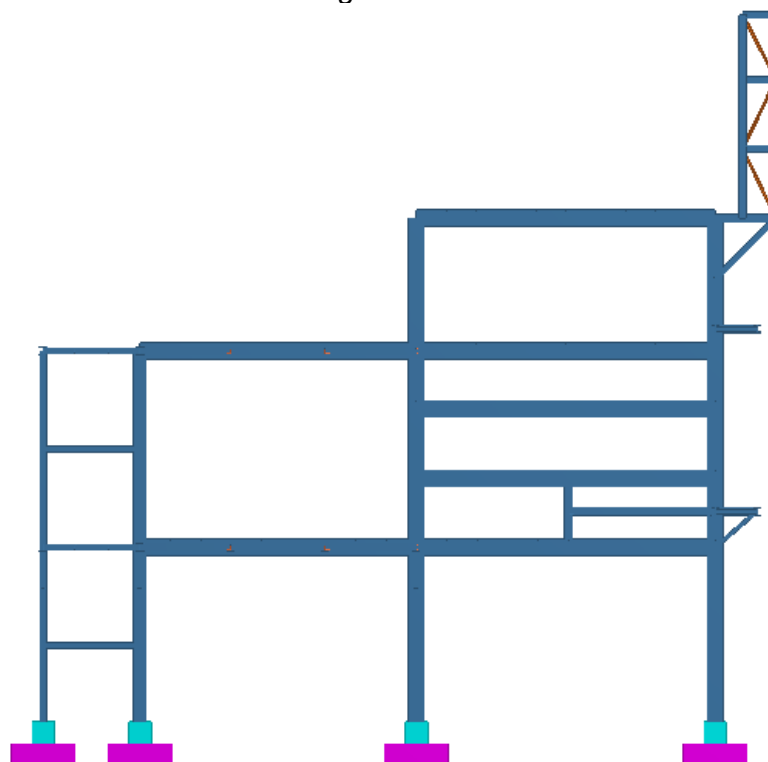
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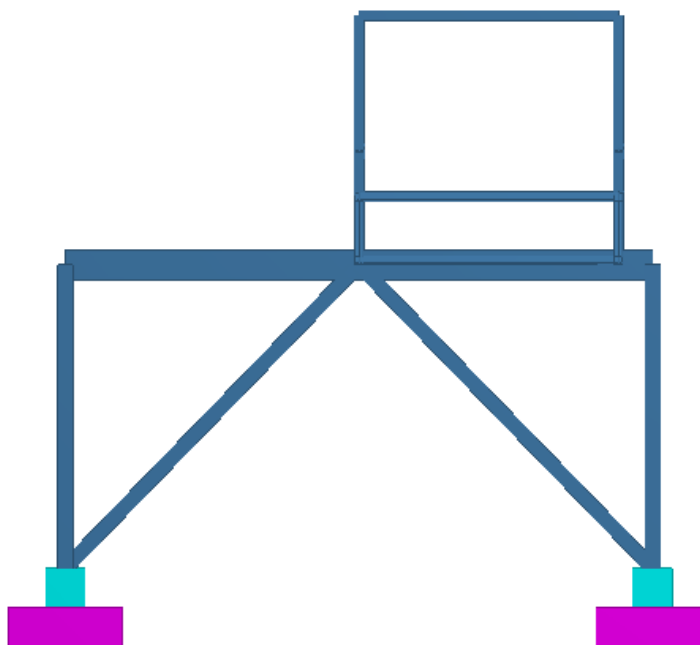


Alignment D



Alignment E

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Alignment F

4.3. Load Analysis

4.3.1. Dead Load

The selfweight of the structure is automatically calculated by the program, considering the following density of materials:

Reinforced concrete: $\gamma_c = 25 \text{ kN/m}^3$

Structural steel: $\gamma_s = 78.5 \text{ kN/m}^3$

For secondary elements and stairs dead load reference was made to the document 080871C-000-JSD-1700-001. In the table below the indication of the values considered.

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Symbols	Category	UNIFORM LOAD	
DL1	Structure Self weight	gravity	
DL2	Self weight of grating and checkered plate	0.5	kN/m ²
DL3	Self weight of handrail	0.3	kN/m
	Self weight of stairs and vertical ladders:		
	• Ladder with cage	0.42	kN/m
	• Ladder without cage	0.22	kN/m
	• UPN 180 stair without steps	0.76	kN/m
	• UPN 220 stair without steps	1.14	kN/m
	• UPN 280 stair without steps	1.52	kN/m
DL4	• Sloped railing	0.23	kN/m
	• Embossed plate step 750x280x(6 + 2) 1 pcs.	0.16	kN
	• Grating 30x50-30x3 step 750x280 1 pcs.	0.12	kN

4.3.2. Piping Load: EE/EO/ET

Uniformly distributed loads or concentrated forces on beams for Empty, Erection, Operating and Test conditions are considered based on the location and sizes of pipes (uniform load for small diameter bundle pipes, concentrated loads for pipes 12" dia. and above), following the indications reported in 080871C-000-1700-001 *General Design Rules for Steel Structures and Civil Works*. For example, EO load distribution corresponding to 1.8 kN/m² for pipe bundle and to 1.0 kN/ m² for cable trays is considered.

4.3.3. Live Load: LL

Live load taken into account for the steel structure, as uniformly distributed is equal to 5.0 kN/m².


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4.3.4. Equipment Load

- Weight and loading data for **20EA-104**

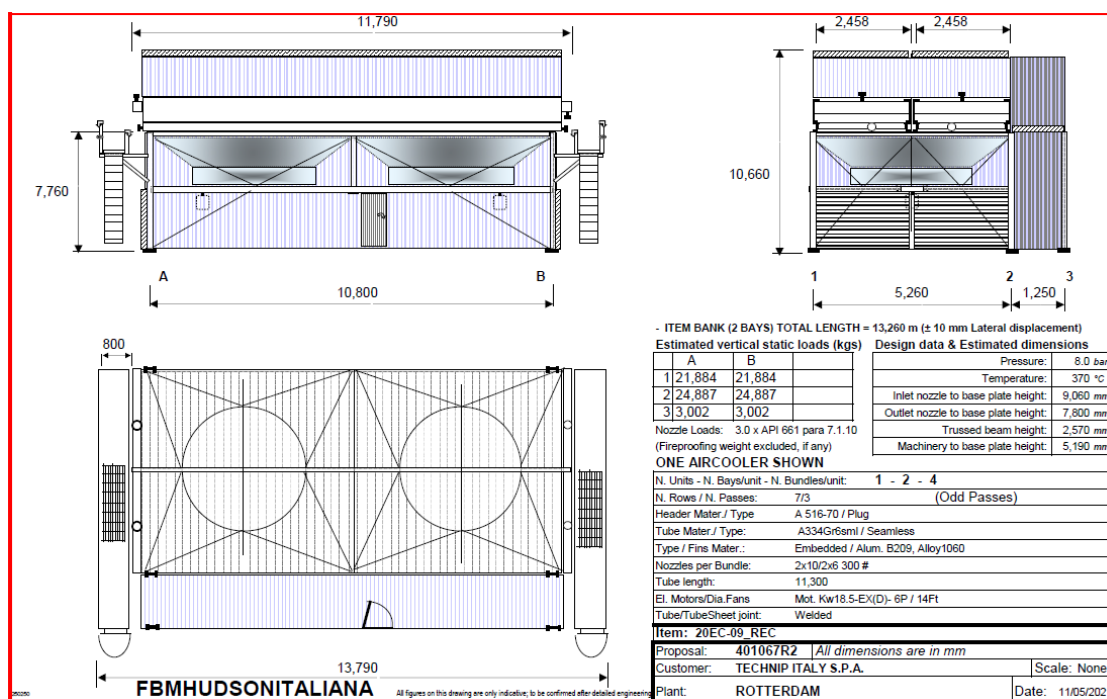
RJF COLUMN OVHD TRIM COOLER, doc. n. 080871C-020-DW-0610-002_B

WEIGHTS & LOADING DATA			
	ERECT.	TEST	OPERAT.
WEIGHTS kg	5801	8185	8237
EART.VERT.LOADS kN	—	—	—
SHEAR			
LG.WIND/EARTH. kN	242 / —	121 / —	242 / —
TV.WIND/EARTH. kN	483 / —	242 / —	483 / —
MOMENT			
LG.WIND/EARTH. kN.m	131 / —	65 / —	131 / —
TV.WIND/EARTH. kN.m	261 / —	131 / —	261 / —

NESTE				TechnipFMC		
ROTTERDAM SITE DEVELOPMENT DEFINITION PHASE — NESTE						
ITEM : 20EA-104						
SERVICE : RJF COLUMN OVHD TRIM COOLER						
Scale		Drawing No			Page	Rev.
NONE	080871C	020	DW	06	10	002
	Project	Unit	Doc.Type	Disc	Subj	Ser.No
NESTE DOC N°		Confidential — Not to disclose without authorization				
Project	Sub Project	PdC/CdM	Unit	Phase/Discipline/Type		Class
—	—	—	—	—		Ser.No. Page Rev.
				02		B

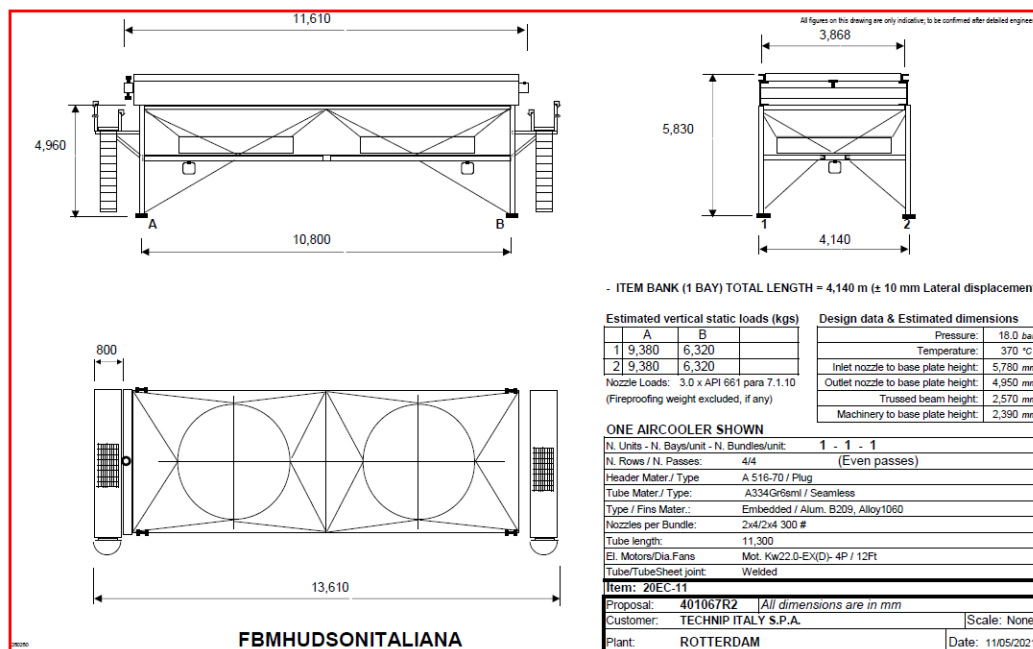
- Weight and loading data for **20EC-09**

RJF PRODUCT AIR COOLER, doc. n. 401067R2



Weight and loading data for **20EC-11**

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On the safety side the load values shown in the datasheet have been increased as follow

20EC-09: 1100 kN

20EC-11: 360 kN

- Weight and loading data for **20EA-105**

RJF COLUMN REBOILER, doc. n. 080871C-020-DW-0610-003_B

WEIGHTS & LOADING DATA				
		ERECT.	TEST	OPERAT.
WEIGHTS	kg	12715	18414	16662
EART.VERT.LOADS	kN	—	—	—
SHEAR				
LG.WIND/EARTH.	kN	10.71 / —	5.4 / —	10.71 / —
TV.WIND/EARTH.	kN	10.71 / —	5.4 / —	10.71 / —
MOMENT				
LG.WIND/EARTH.	kN.m	11.13 / —	5.7 / —	11.13 / —
TV.WIND/EARTH.	kN.m	11.13 / —	5.7 / —	11.13 / —

NESTE				TechnipFMC				
ROTTERDAM SITE DEVELOPMENT DEFINITION PHASE – NESTE								
ITEM : 20EA-105								
SERVICE : RFJ COLUMN REBOILER								
Scale	Drawing No					Page	Rev.	
NONE	080871C	020	DW	06	10	003	2 of 4	B
	Project	Unit	Doc.Type	Disc	Subj	Ser.No		
NESTE DOC N°			Confidential – Not to disclose without authorization					
Project	Sub Project	PdC/CdM	Unit	Phase/Discipline/Type		Class	Ser.No.	Page Rev
							02	B

- Weight and loading data for **20EA-106 A/B**

RJF PRODUCT TRIM COOLER, doc. n. 080871C-020-DW-0610-004_B

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- Weight and loading data for **20PK-19**

RJF COLUMN VACUUM SYSTEM, doc. n. 30012562-00b_02

Fundamentlasten (Kompressor rechtsdrehend)		
foundation load (clockwise rotating compressor)		
Kraefte in N (gefüllte Anlage)		
force in N (unit with filling)		
Stuetzkraefte	in A	39013 N
supporting forces	in B	26240 N
	in C	23585 N
	in D	17072 N
Gesamtgewicht		11000 kg
total weight		

Dim. without tolerance data acc. to EN ISO 19920 DH		Material	Rev. 02
Drawn		Material stand	
Checked		Supersedes	
Manufacture		Superseded by	
		Originated from	
	Protection notice according ISO 16016.	Sheet	001 of 001
Scale	Part name	Order No	
Weight	Type	Drawing No	30012562-00b

- Weight and loading data for **20DA-12**

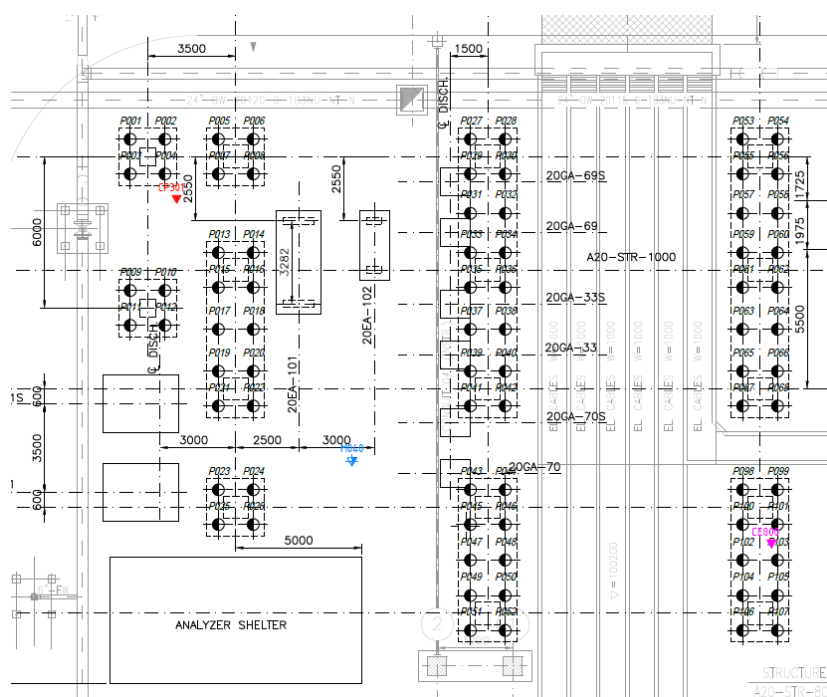
RJF SEPARATION COLUMN, doc. n. 080871C-020-SP-0511-001_0

LOADS ON FOUNDATION				
		ERECTION	TEST	OPERATION
Weight	kg	118933	301199	183413
Earthquake Vertical Force	kN			
SHEAR				
LG Wind / Earthquake	kN	289 / -	198 / -	366 / -
TV Wind / Earthquake	kN	/ -	/ -	/ -
MOMENT				
LG Wind / Earthquake	kNm	4859 / -	3323 / -	6138 / -
TV Wind / Earthquake	kNm	- / -	- / -	- / -

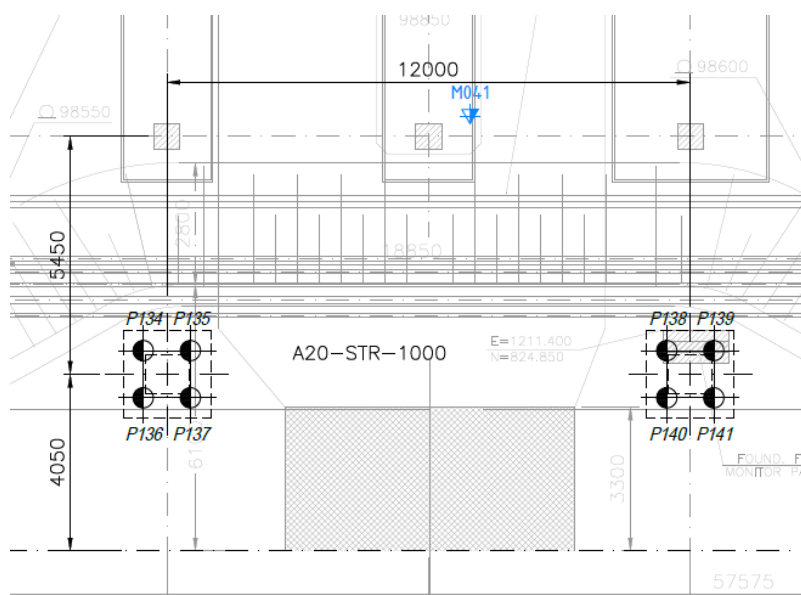
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4.5. Piling Plan Geotechnical Check

In the following images the piling plan for the structure A20-STR-1000



Piling Plan ZONE "A" for A20-STR-1000



Piling Plan ZONE "I" for A20-STR-1000

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In the following table the summary of the pile reactions for the envelope of combinations ULS STR/GEO

			Horizontal	Vertical	Horizontal	Moment		
	Node	L/C	F _x kN	F _y kN	F _z kN	M _x kN-m	M _y kN-m	M _z kN-m
Max F _x	1371	1007 0.9(DL+E	187.711	-23.555	25.143	0.000	0.000	0.000
Min F _x	1371	1146 1.3(DL+E	-187.767	763.684	-25.227	0.000	0.000	0.000
Max F _y	1109	1148 1.3(DL+E	-66.168	1406.713	-144.131	0.000	0.000	0.000
Min F _y	906	1129 0.9(DL+E	-63.221	-752.355	135.679	0.000	0.000	0.000
Max F _z	1109	1149 1.3(DL+E	66.559	-529.930	140.717	0.000	0.000	0.000
Min F _z	906	1148 1.3(DL+E	68.126	1400.647	-145.033	0.000	0.000	0.000
Max M _x	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000
Min M _x	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000
Max M _y	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000
Min M _y	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000
Max M _z	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000
Min M _z	12	1000 1.5(DL+E	1.156	74.855	1.847	0.000	0.000	0.000

Max compression:

$$P_{Ed} = 1406.71 \text{ kN}$$

Max tension:

$$T_{Ed} = 752.36 \text{ kN}$$

The design capacity in compression and tension considered for the checks are the lowest in absolute value among those reported in the document 080871C-000-JSD-1430-004 for the structure:

Capacity check in Compression

$$P_{Ed} = 1406.71 \text{ kN} < P_D = 3100 \text{ kN}, \text{ Checked}$$

Check in Tension

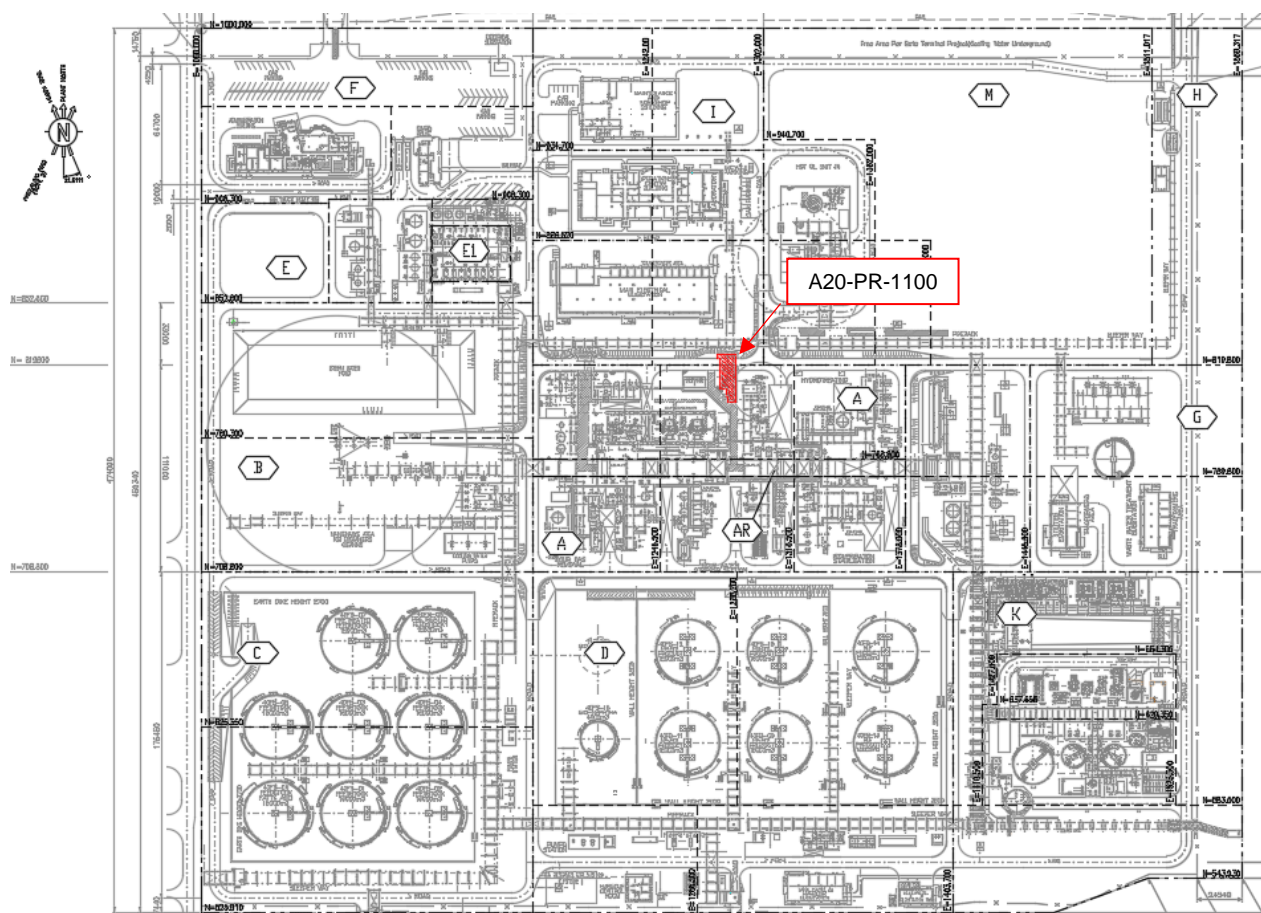
$$P_{Ed} = 752.36 \text{ kN} < P_D = 1000 \text{ kN}, \text{ Checked}$$

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5. ANALYSIS OF THE PIPE-RACK A20-PR-1100

5.1. Description

Pipe-rack A20-PR-600 location in refinery plan is shown in the picture below.



Location of A20-PR-1100

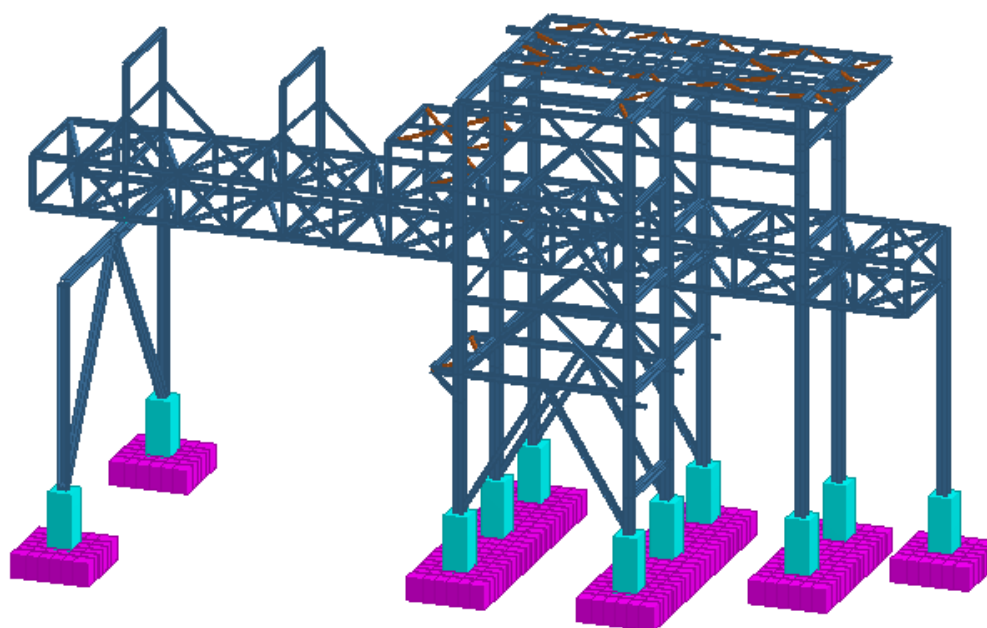
The structure has vertical bracing in the north-south direction (braced frames), while in the transverse direction (east-west) it has frames with main beams having moment connections (moment frames).

The function of the structure is simply to support piping lines and cable trays.

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5.2. Structural Model

A 3D view of the structural model of pipe-rack A20-PR-1100 is shown in the picture below.



Structural model of A20-PR-1100

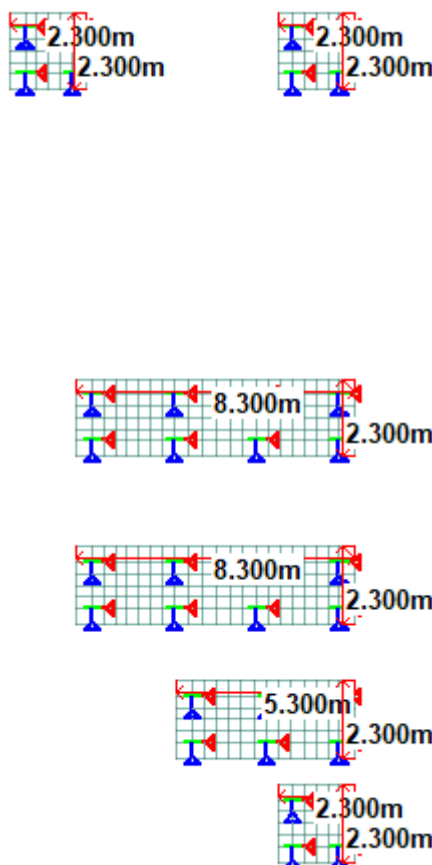
The pile foundations are modeled by means of shell elements (thickness 800 mm) and vertical springs representing the piles. For the stiffness of the springs reference was made to the document 080871C-000-JSD-1430-004, the table below shows the values used in the structural model

Table 4.5- Spring values D=457

UNIT	Pile lenght	F _{rep}	W _{total;d}	k _{pile;d}
[-]	[m]	[kN]	[mm]	[MN/m]
Hot Oil Unit - Heater	19.3	2900	-7.54	384.5
Hot Oil Unit	19.3	3000	-7.85	382.1
New RJF (A20-STR-1000)	21.3	3100	-8.78	353.2
New RJF (A20-STR-1000)	20.35	3250	-9.49	342.3
New RJF (A20-STR-1100)	21.3	2250	-5.45	413.2
A20-STR-1000	21.3	3150	-8.25	382.0
A20-PR-1100	21.3	3000	-8.00	375.0

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In the image below the foundations modeled for the structure A20-STR-1000



Plan view of the foundation

5.3. Load Analysis

5.3.1. Dead Load

The selfweight of the structure is automatically calculated by the program, considering the following density of materials:

Reinforced concrete: $\gamma_c = 25 \text{ kN/m}^3$

Structural steel: $\gamma_s = 78.5 \text{ kN/m}^3$

Soil: $\gamma_{\text{soil}} = 18 \text{ kN/m}^3$

For secondary elements and stairs dead load reference was made to the document 080871C-000-JSD-1700-001. In the table below the indication of the values considered.

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Symbols	Category	UNIFORM LOAD	
DL1	Structure Self weight	gravity	
DL2	Self weight of grating and checkered plate	0.5	kN/m ²
DL3	Self weight of handrail	0.3	kN/m
	Self weight of stairs and vertical ladders:		
	• Ladder with cage	0.42	kN/m
	• Ladder without cage	0.22	kN/m
	• UPN 180 stair without steps	0.76	kN/m
	• UPN 220 stair without steps	1.14	kN/m
DL4	• UPN 280 stair without steps	1.52	kN/m
	• Sloped railing	0.23	kN/m
	• Embossed plate step 750x280x(6 + 2) 1 pcs.	0.16	kN
	• Grating 30x50-30x3 step 750x280 1 pcs.	0.12	kN

5.3.2. Piping Load: EE/EO/ET

Uniformly distributed loads or concentrated forces on beams for Empty, Erection, Operating and Test conditions are considered based on the location and sizes of pipes (uniform load for small diameter bundle pipes, concentrated loads for pipes 12" dia. and above), following the indications reported in 080871C-000-1700-001 *General Design Rules for Steel Structures and Civil Works*. For example, EO load distribution corresponding to 1.8 kN/m² for pipe bundle and to 1.0 kN/ m² for cable trays is considered.

5.3.3. Live Load: LL

Live load taken into account for the steel structure, as uniformly distributed is equal to 5.0 kN/m².

5.3.4. Equipment Load

Not applicable.

5.3.5. Thermal Loads:TLT/TLS/FL

Thermal loads have been calculated computed according to doc. 080871C-000-JSD-1700-001.

5.3.6. Wind Load: WL

Wind loads are conservatively applied on all frames, and is calculated according to doc. 080871C-000-JSD-1700-001.

Wind load on piping and equipment are added to the wind load of the frame.

5.3.7. Snow Load: SL

Snow load has been computed according to doc. 080871C-000-JSD-1700-001.

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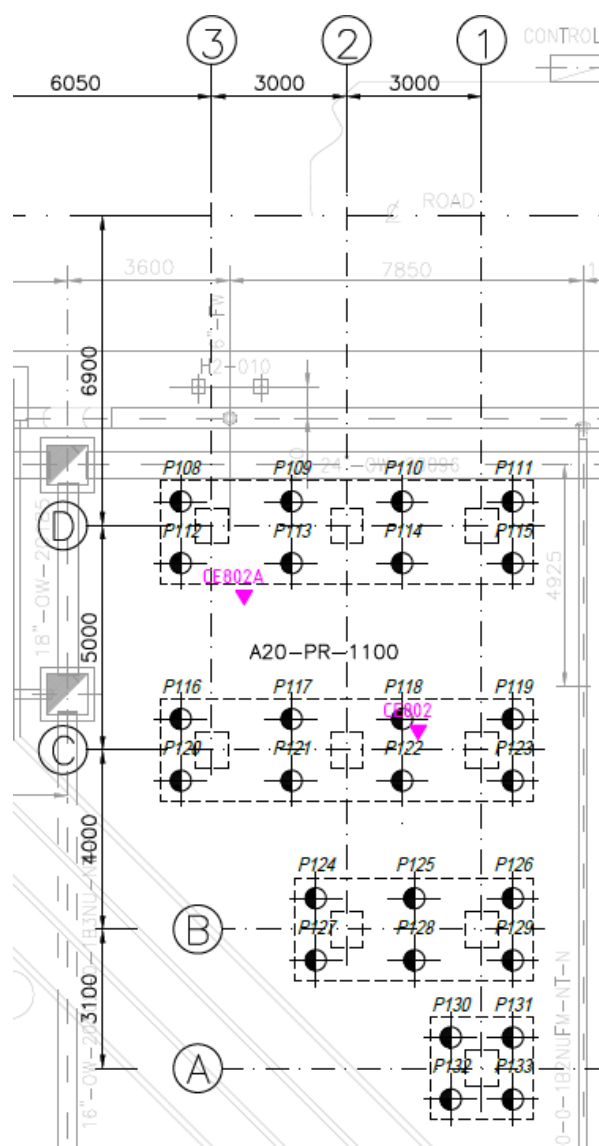
NESTE

5.4. Load Combinations

Loading combinations are defined in doc. 080871C-000-JSD-1700-001.

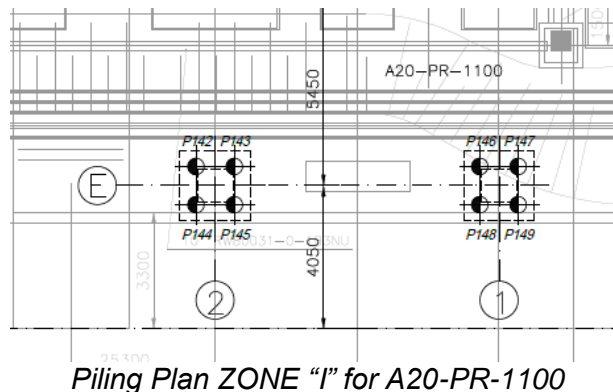
5.5. Piling Plan Geotechnical Check

In the following images the piling plan for the structure A20-PR-1100



Piling Plan ZONE "A" for A20-PR-1100

**ROTTERDAM SITE DEVELOPMENT
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Piling Plan ZONE "I" for A20-PR-1100

In the following table the summary of the pile reactions for the envelope of combinations ULS STR/GEO

	Node	L/C	Horizontal	Vertical	Horizontal	Moment		
			Fx kN	Fy kN	Fz kN	Mx kN-m	My kN-m	Mz kN-m
Max Fx	789	1147 1.3(DL+E)	42.211	3.960	15.210	0.000	0.000	0.000
Min Fx	736	1146 1.3(DL+E)	-44.718	58.917	16.076	0.000	0.000	0.000
Max Fy	304	1149 1.3(DL+E)	-2.674	504.855	40.444	0.000	0.000	0.000
Min Fy	433	1129 0.9(DL+E)	14.505	-49.452	33.588	0.000	0.000	0.000
Max Fz	305	1149 1.3(DL+E)	2.856	315.682	40.610	0.000	0.000	0.000
Min Fz	501	1148 1.3(DL+E)	-5.463	455.865	-41.924	0.000	0.000	0.000
Max Mx	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000
Min Mx	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000
Max My	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000
Min My	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000
Max Mz	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000
Min Mz	287	1000 1.5(DL+E)	1.147	139.027	1.737	0.000	0.000	0.000

Max compression:

$$P_{Ed} = 504 \text{ kN}$$

Max tension:

$$T_{Ed} = -49 \text{ kN}$$

The design capacity in compression and tension considered for the checks are the lowest in absolute value among those reported in the document 080871C-000-JSD-1430-004 for the structure:

Capacity check in Compression

$$P_{Ed} = 504 \text{ kN} < P_D = 2850 \text{ kN}, \quad \text{Checked}$$

Check in Tension

$$P_{Ed} = -49 \text{ kN} < P_D = 1050 \text{ kN}, \quad \text{Checked}$$

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ATTACHMENTS:

ATT. A Input STAAD.Pro Structure A20-STR-1000

```

STAAD SPACE
START JOB INFORMATION
JOB NAME JET+IP
JOB NO 080871C
JOB REV A
JOB PART 000
JOB REF STRUCTURE NAME
JOB CLIENT NESTE
ENGINEER DATE *DD/MM/YYYY*
END JOB INFORMATION
INPUT WIDTH 79
INPUT WIDTH 79
OUTPUT WIDTH 118
SET NL 200
UNIT METER KN
JOINT COORDINATES
1 -4.65001 0.300001 -1.15; 2 -4.65001 0.300001 -0.690001;
3 -4.65001 0.300001 4.84468e-08; 4 -4.65001 0.300001 0.690001;
5 -4.65001 0.300001 1.15; 6 -4.65001 0.300001 4.85001;
7 -4.65001 0.300001 5.31001; 8 -4.65001 0.300001 6.00001;
9 -4.65001 0.300001 6.69001; 10 -4.65001 0.300001 7.15001;
11 -4.19001 0.300001 -1.15; 12 -4.19001 0.300001 -0.690001;
13 -4.19001 0.300001 0; 14 -4.19001 0.300001 0.690001;
15 -4.19001 0.300001 1.15; 16 -4.19001 0.300001 4.85001;
17 -4.19001 0.300001 5.31001; 18 -4.19001 0.300001 6.00001;
19 -4.19001 0.300001 6.69001; 20 -4.19001 0.300001 7.15001;
21 -3.50001 7.80002 -1.5; 22 -3.50001 0.300001 -1.15;
23 -3.50001 0.300001 -0.690001; 24 -3.50001 0.300001 0; 25 -3.50001 1.5 0;
26 -3.50001 1.6 0; 27 -3.50001 4.25001 0; 28 -3.50001 6.30001 0;
29 -3.50001 7.80002 0; 30 -3.50001 11.35 0; 31 -3.50001 14.9 0;
32 -3.50001 0.300001 0.690001; 33 -3.50001 0.300001 1.15;
34 -3.50001 7.80002 1.5; 35 -3.50001 14.9 1.5; 36 -3.50001 7.80002 3;
37 -3.50001 14.9 3; 38 -3.50001 4.25001 3.00001; 39 -3.50001 11.35 3.00001;
40 -3.50001 0.300001 4.85001; 41 -3.50001 0.300001 5.31001;
42 -3.50001 0.300001 6.00001; 43 -3.50001 1.5 6.00001; 44 -3.50001 1.6 6.00001;
45 -3.50001 4.25001 6.00001; 46 -3.50001 7.80002 6.00001;
47 -3.50001 11.35 6.00001; 48 -3.50001 14.9 6.00001;
49 -3.50001 0.300001 6.69001; 50 -3.50001 0.300001 7.15001;
51 -3.50001 4.25001 7.50001; 52 -3.50001 11.35 7.50002;
53 -2.81001 0.300001 -1.15; 54 -2.81001 0.300001 -0.690001;
55 -2.81001 0.300001 0; 56 -2.81001 0.300001 0.690001;
57 -2.81001 0.300001 1.15; 58 -2.81001 0.300001 4.85001;
59 -2.81001 0.300001 5.31001; 60 -2.81001 0.300001 6.00001;
61 -2.81001 0.300001 6.69001; 62 -2.81001 0.300001 7.15001;
63 -2.35001 7.80002 -1.5; 64 -2.35001 0.300001 -1.15;
65 -2.35001 0.300001 -0.690001; 66 -2.35001 7.80002 0; 67 -2.35001 14.9 0;
68 -2.35001 0.300001 4.84468e-08; 69 -2.35001 0.300001 0.690001;
70 -2.35001 0.300001 1.15; 71 -2.35001 7.80002 1.5; 72 -2.35001 14.9 1.5;
73 -2.35001 0.300001 4.85001; 74 -2.35001 0.300001 5.31001;

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75 -2.35001 0.300001 6.00001; 76 -2.35001 4.25001 6.00001;
77 -2.35001 11.35 6.00001; 78 -2.35001 0.300001 6.69001;
79 -2.35001 0.300001 7.15001; 80 -2.35001 4.25001 7.50001;
81 -2.35001 11.35 7.50002; 82 -1.5 7.80002 6.00001; 83 -1.5 7.80002 6.85001;
84 -1.5 7.80002 8.02501; 85 -1.5 7.80002 9.20002; 86 -1.5 7.80002 10.375;
87 -1.5 7.80002 11.55; 88 -1.5 7.80002 12.725; 89 -1.5 7.80002 13.9;
90 -1.15001 0.300001 -1.15; 91 -1.15001 0.300001 -0.690001;
92 -1.15001 7.80002 0; 93 -1.15001 14.9 0; 94 -1.15001 0.300001 4.84468e-08;
95 -1.15001 0.300001 0.690001; 96 -1.15001 0.300001 1.15;
97 -1.15001 7.80002 1.5; 98 -1.15001 14.9 1.5; 99 -1.15001 0.300001 3.35001;
100 -1.15001 0.300001 3.81001; 101 -1.15001 0.300001 4.50001;
102 -1.15001 0.300001 5.19001; 103 -1.15001 4.25001 6.00001;
104 -1.15001 11.35 6.00001; 105 -1.15001 0.300001 6.02001;
106 -1.15001 0.300001 6.85001; 107 -1.15001 4.25001 7.50001;
108 -1.15001 11.35 7.50002; 109 -1.15001 0.300001 7.68001;
110 -1.15001 0.300001 8.51002; 111 -1.15001 0.300001 9.20002;
112 -1.15001 0.300001 9.89002; 113 -1.15001 0.300001 10.35;
114 -1.15001 0.300001 12.75; 115 -1.15001 0.300001 13.21;
116 -1.15001 0.300001 13.9; 117 -1.15001 0.300001 14.59;
118 -1.15001 0.300001 15.05; 119 -1.15 7.80002 -1.5;
120 -0.690005 0.300001 -1.15; 121 -0.690005 0.300001 -0.690001;
122 -0.690005 0.300001 0; 123 -0.690005 0.300001 0.690001;
124 -0.690005 0.300001 1.15; 125 -0.690005 0.300001 3.35001;
126 -0.690005 0.300001 3.81001; 127 -0.690005 0.300001 4.50001;
128 -0.690005 0.300001 5.19001; 129 -0.690005 0.300001 6.02001;
130 -0.690005 0.300001 6.85001; 131 -0.690005 0.300001 7.68002;
132 -0.690005 0.300001 8.51002; 133 -0.690005 0.300001 9.20002;
134 -0.690005 0.300001 9.89002; 135 -0.690005 0.300001 10.35;
136 -0.690005 0.300001 12.75; 137 -0.690005 0.300001 13.21;
138 -0.690005 0.300001 13.9; 139 -0.690005 0.300001 14.59;
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150 -3.10059e-06 0.300001 7.68001; 151 -3.10059e-06 0.300001 8.51002;
152 -3.10059e-06 0.300001 9.89002; 153 -3.10059e-06 0.300001 10.35;
154 -3.10059e-06 0.300001 12.75; 155 -3.10059e-06 0.300001 13.21;
156 -3.10059e-06 0.300001 14.59; 157 0 7.80002 -1.5; 158 0 0.300001 0;
159 0 1.5 0; 160 0 4.25001 0; 161 0 6.30001 0; 162 0 7.80002 0; 163 0 11.35 0;
164 0 14.9 0; 165 0 7.80002 1.125; 166 0 14.9 1.125; 167 0 7.80002 1.5;
168 0 14.9 1.5; 169 0 7.80002 2.25; 170 0 14.9 2.25; 171 0 7.80002 3.375;
172 0 14.9 3.375; 173 0 0.300001 4.50001; 174 0 1.5 4.50001; 175 0 1.6 4.50001;
176 0 4.25001 4.50001; 177 0 7.80002 4.50001; 178 0 11.35 4.50001;
179 0 14.9 4.50001; 180 0 7.80002 5.67501; 181 0 14.9 5.67501;
182 0 4.25001 6.00001; 183 0 7.80002 6.00001; 184 0 11.35 6.00001;
185 0 14.9 6.00001; 186 0 4.25001 6.85001; 187 0 7.80002 6.85001;
188 0 11.35 6.85001; 189 0 14.9 6.85001; 190 0 4.25001 7.50001;
191 0 11.35 7.50002; 192 0 7.80002 8.02501; 193 0 14.9 8.02501;
194 0 0.300001 9.20002; 195 0 1.5 9.20002; 196 0 1.6 9.20002;
197 0 4.25001 9.20002; 198 0 7.80002 9.20002; 199 0 11.35 9.20002;
200 0 14.9 9.20002; 201 0 7.80002 10.375; 202 0 14.9 10.375;
203 0 7.80002 10.7; 204 0 7.80002 11.55; 205 0 14.9 11.55;

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206 0 7.80002 12.725; 207 0 14.9 12.725; 208 0 0.300001 13.9; 209 0 1.5 13.9;
 210 0 4.25001 13.9; 211 0 7.80002 13.9; 212 0 11.35 13.9; 213 0 13.4 13.9;
 214 0 14.9 13.9; 215 0 16.15 13.9; 216 0 17.4 13.9; 217 0 0.300001 15.05;
 218 0 14.9 15.4; 219 0 16.15 15.4; 220 0 17.4 15.4;
 221 0.689998 0.300001 -1.15; 222 0.689998 0.300001 -0.690001;
 223 0.689998 0.300001 0; 224 0.689998 0.300001 0.690001;
 225 0.689998 0.300001 1.15; 226 0.689998 0.300001 3.35001;
 227 0.689998 0.300001 3.81001; 228 0.689998 0.300001 4.50001;
 229 0.689998 0.300001 5.19001; 230 0.689998 0.300001 6.02001;
 231 0.689998 0.300001 6.85001; 232 0.689998 0.300001 7.68002;
 233 0.689998 0.300001 8.51002; 234 0.689998 0.300001 9.20002;
 235 0.689998 0.300001 9.89002; 236 0.689998 0.300001 10.35;
 237 0.689998 0.300001 12.75; 238 0.689998 0.300001 13.21;
 239 0.689998 0.300001 13.9; 240 0.689998 0.300001 14.59;
 241 0.689998 0.300001 15.05; 242 1.1 7.80002 -1.5; 243 1.1 7.80002 0;
 244 1.1 14.9 13.9; 245 1.1 14.9 15.4; 246 1.15 0.300001 -1.15;
 247 1.15 0.300001 -0.690001; 248 1.15 0.300001 4.84468e-08;
 249 1.15 0.300001 0.690001; 250 1.15 0.300001 1.15; 251 1.15 0.300001 3.35001;
 252 1.15 0.300001 3.81001; 253 1.15 0.300001 4.50001;
 254 1.15 0.300001 5.19001; 255 1.15 0.300001 6.02001;
 256 1.15 0.300001 6.85001; 257 1.15 0.300001 7.68001;
 258 1.15 0.300001 8.51002; 259 1.15 0.300001 9.20002;
 260 1.15 0.300001 9.89002; 261 1.15 0.300001 10.35; 262 1.15 0.300001 12.75;
 263 1.15 0.300001 13.21; 264 1.15 0.300001 13.9; 265 1.15 0.300001 14.59;
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 269 1.5 17.4 13.9; 270 1.5 14.9 15.4; 271 1.5 16.15 15.4; 272 1.5 17.4 15.4;
 273 1.7 7.80002 4.50001; 274 1.7 9.00002 4.50001; 275 1.7 7.80002 10.7;
 276 1.7 9.00002 10.7; 277 1.9 9.00002 4.50001; 278 1.9 10.5 4.50001;
 279 1.9 10.5 7.60002; 280 1.9 9.00002 10.7; 281 1.9 10.5 10.7;
 282 2.2 7.80002 -1.5; 283 2.2 7.80002 0; 284 2.2 14.9 13.9; 285 2.2 14.9 15.4;
 286 2.5 10.5 4.50001; 287 2.5 10.5 7.60002; 288 2.5 10.5 10.7;
 289 2.7 14.9 4.50001; 290 2.7 15.7 4.50001; 291 2.7 16.7 4.50001;
 292 2.7 16.7 6.85001; 293 2.7 14.9 9.20002; 294 2.7 15.7 9.20002;
 295 2.7 16.7 9.20002; 296 3.1 9.00002 4.50001; 297 3.1 10.5 4.50001;
 298 3.1 16.7 4.50001; 299 3.1 16.7 6.85001; 300 3.1 10.5 7.60002;
 301 3.1 16.7 9.20002; 302 3.1 9.00002 10.7; 303 3.1 10.5 10.7;
 304 3.3 7.80002 -1.5; 305 3.3 7.80002 0; 306 3.3 14.9 0; 307 3.3 7.80002 1.125;
 308 3.3 14.9 1.125; 309 3.3 7.80002 2.25; 310 3.3 14.9 2.25;
 311 3.3 7.80002 3.375; 312 3.3 14.9 3.375; 313 3.3 7.80002 4.50001;
 314 3.3 9.00002 4.50001; 315 3.3 14.9 4.50001; 316 3.3 7.80002 5.67501;
 317 3.3 14.9 5.67501; 318 3.3 7.80002 6.85001; 319 3.3 14.9 6.85001;
 320 3.3 7.80002 8.02501; 321 3.3 14.9 8.02501; 322 3.3 7.80002 9.20002;
 323 3.3 14.9 9.20002; 324 3.3 7.80002 10.375; 325 3.3 14.9 10.375;
 326 3.3 7.80002 10.7; 327 3.3 9.00002 10.7; 328 3.3 7.80002 11.55;
 329 3.3 14.9 11.55; 330 3.3 7.80002 12.725; 331 3.3 14.9 12.725;
 332 3.3 7.80002 13.9; 333 3.3 14.9 13.9; 334 3.30001 14.9 15.4;
 335 3.5 14.9 4.50001; 336 3.5 15.7 4.50001; 337 3.5 16.7 4.50001;
 338 3.5 16.7 6.85001; 339 3.5 14.9 9.20002; 340 3.5 15.7 9.20002;
 341 3.5 16.7 9.20002; 342 4.4 7.80002 0; 343 4.4 14.9 15.4;
 344 4.40001 7.80002 -1.5; 345 4.40001 14.9 13.9; 346 5.60001 7.80002 -1.5;
 347 5.60001 7.80002 0; 348 5.60001 14.9 13.9; 349 5.60001 14.9 15.4;
 350 6.1 14.9 4.50001; 351 6.1 15.7 4.50001; 352 6.1 16.2 4.50001;
 353 6.1 16.2 6.85001; 354 6.1 14.9 9.20002; 355 6.1 15.7 9.20002;

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356 6.1 16.2 9.20002; 357 6.3 7.80002 2.25; 358 6.3 7.80002 4.50001;
359 6.3 7.80002 9.20002; 360 6.3 7.80002 11.55; 361 6.5 16.2 4.50001;
362 6.5 16.2 6.85001; 363 6.5 16.2 9.20002; 364 6.7 7.80002 0; 365 6.7 14.9 0;
366 6.7 7.80002 1.125; 367 6.7 14.9 1.125; 368 6.7 7.80002 2.25;
369 6.7 14.9 2.25; 370 6.7 7.80002 3.375; 371 6.7 14.9 3.375;
372 6.7 7.80002 4.50001; 373 6.7 14.9 4.50001; 374 6.7 7.80002 5.67501;
375 6.7 14.9 5.67501; 376 6.7 7.80002 6.85001; 377 6.7 14.9 6.85001;
378 6.7 7.80002 8.02501; 379 6.7 14.9 8.02501; 380 6.7 7.80002 9.20002;
381 6.7 14.9 9.20002; 382 6.7 7.80002 10.375; 383 6.7 14.9 10.375;
384 6.7 7.80002 11.55; 385 6.7 14.9 11.55; 386 6.7 7.80002 12.725;
387 6.7 14.9 12.725; 388 6.7 7.80002 13.9; 389 6.7 14.9 13.9;
390 6.70001 7.80002 -1.5; 391 6.70001 14.9 15.4; 392 6.9 14.9 4.50001;
393 6.9 15.7 4.50001; 394 6.9 16.2 4.50001; 395 6.9 16.2 6.85001;
396 6.9 14.9 9.20002; 397 6.9 15.7 9.20002; 398 6.9 16.2 9.20002;
399 7.50002 9.00002 6.85001; 400 7.80001 7.80002 -1.5; 401 7.80001 7.80002 0;
402 7.80001 19.7 7.90002; 403 7.80001 19.7 9.20002; 404 7.80001 14.9 13.9;
405 7.80001 19.7 13.9; 406 7.80001 14.9 15.4; 407 7.80001 19.7 18.1;
408 7.80001 19.7 20.3; 409 8.34998 0.300001 -13.25;
410 8.34998 0.300001 -12.79; 411 8.34998 0.300001 -12.1;
412 8.34998 0.300001 -11.41; 413 8.34998 0.300001 -10.95; 414 8.7 7.80002 2.25;
415 8.7 7.80002 4.50001; 416 8.7 7.80002 9.20002; 417 8.7 7.80002 11.55;
418 8.80998 0.300001 -13.25; 419 8.80998 0.300001 -12.79;
420 8.80998 0.300001 -12.1; 421 8.80998 0.300001 -11.41;
422 8.80998 0.300001 -10.95; 423 8.85001 0.300001 -1.15;
424 8.85001 0.300001 -0.690001; 425 8.85001 0.300001 4.84468e-08;
426 8.85001 0.300001 0.690001; 427 8.85001 0.300001 1.47;
428 8.85001 0.300001 2.25; 429 8.85001 0.300001 3.03001;
430 8.85001 0.300001 3.81001; 431 8.85001 0.300001 4.50001;
432 8.85001 0.300001 5.19001; 433 8.85001 0.300001 6.02001;
434 8.85001 0.300001 6.85001; 435 8.85001 0.300001 7.68001;
436 8.85001 0.300001 8.51002; 437 8.85001 0.300001 9.20002;
438 8.85001 0.300001 9.89002; 439 8.85001 0.300001 10.35;
440 8.85001 0.300001 12.75; 441 8.85001 0.300001 13.21;
442 8.85001 0.300001 13.9; 443 8.85001 0.300001 14.59;
444 8.85001 0.300001 15.295; 445 8.85001 0.300001 16;
446 8.85001 0.300001 16.705; 447 8.85001 0.300001 17.41;
448 8.85001 0.300001 18.1; 449 8.85001 0.300001 18.79;
450 8.85001 0.300001 19.25; 451 8.9 19.7 7.90002; 452 8.9 19.7 9.20002;
453 8.9 19.7 13.9; 454 8.9 19.7 18.1; 455 8.9 19.7 20.3; 456 8.90001 7.80002 0;
457 8.90001 14.9 15.4; 458 8.90002 7.80002 -1.5; 459 8.90002 14.9 13.9;
460 9.31001 0.300001 -1.15; 461 9.31001 0.300001 -0.690001;
462 9.31001 0.300001 0; 463 9.31001 0.300001 0.690001;
464 9.31001 0.300001 1.47; 465 9.31001 0.300001 2.25;
466 9.31001 0.300001 3.03001; 467 9.31001 0.300001 3.81001;
468 9.31001 0.300001 4.50001; 469 9.31001 0.300001 5.19001;
470 9.31001 0.300001 6.02001; 471 9.31001 0.300001 6.85001;
472 9.31001 0.300001 7.68002; 473 9.31001 0.300001 8.51002;
474 9.31001 0.300001 9.20002; 475 9.31001 0.300001 9.89002;
476 9.31001 0.300001 10.35; 477 9.31001 0.300001 12.75;
478 9.31001 0.300001 13.21; 479 9.31001 0.300001 13.9;
480 9.31001 0.300001 14.59; 481 9.31001 0.300001 15.295;
482 9.31001 0.300001 16; 483 9.31001 0.300001 16.705;
484 9.31001 0.300001 17.41; 485 9.31001 0.300001 18.1;

ROTTERDAM SITE DEVELOPMENT NESTE

486 9.31001 0.300001 18.79; 487 9.31001 0.300001 19.25;
488 9.49998 0.300001 -13.25; 489 9.49998 0.300001 -12.79;
490 9.49998 0.300001 -12.1; 491 9.49998 1.5 -12.1; 492 9.49998 7.70002 -12.1;
493 9.49998 0.300001 -11.41; 494 9.49998 0.300001 -10.95; 495 10 14.9 -2.2;
496 10 19.7 -2.2; 497 10 7.80002 -1.5; 498 10 0.300001 -1.15;
499 10 0.300001 -0.690001; 500 10 0.300001 0; 501 10 1.5 0; 502 10 4.25001 0;
503 10 6.30001 0; 504 10 7.80002 0; 505 10 10.3 0; 506 10 11.35 0;
507 10 12.8 0; 508 10 14.9 0; 509 10 17.5 0; 510 10 19.7 0; 511 10 20.2 0;
512 10 23.2 0; 513 10 26.2 0; 514 10 0.300001 0.690001; 515 10 7.80002 1.125;
516 10 14.9 1.125; 517 10 0.300001 1.47; 518 10 0.300001 2.25;
519 10 7.80002 2.25; 520 10 14.9 2.25; 521 10 0.300001 3.03001;
522 10 23.2 3.15001; 523 10 26.2 3.15001; 524 10 7.80002 3.375;
525 10 14.9 3.375; 526 10 0.300001 3.81001; 527 10 0.300001 4.50001;
528 10 1.5 4.50001; 529 10 1.6 4.50001; 530 10 4.25001 4.50001;
531 10 7.80002 4.50001; 532 10 10.3 4.50001; 533 10 11.35 4.50001;
534 10 12.8 4.50001; 535 10 14.9 4.50001; 536 10 19.7 4.50001;
537 10 0.300001 5.19001; 538 10 3.60001 5.50001; 539 10 7.80002 5.67501;
540 10 14.9 5.67501; 541 10 0.300001 6.02001; 542 10 19.7 6.30001;
543 10 20.2 6.30001; 544 10 23.2 6.30001; 545 10 26.2 6.30001;
546 10 0.300001 6.85001; 547 10 4.25001 6.85001; 548 10 7.80002 6.85001;
549 10 11.35 6.85001; 550 10 14.9 6.85001; 551 10 19.7 6.85001;
552 10 20.2 6.85001; 553 10 23.2 6.85001; 554 10 26.2 6.85001;
555 10 0.300001 7.68001; 556 10 19.7 7.90002; 557 10 7.80002 8.02501;
558 10 14.9 8.02501; 559 10 3.60001 8.20002; 560 10 0.300001 8.51002;
561 10 0.300001 9.20002; 562 10 1.5 9.20002; 563 10 1.6 9.20002;
564 10 4.25001 9.20002; 565 10 7.80002 9.20002; 566 10 10.3 9.20002;
567 10 11.35 9.20002; 568 10 12.8 9.20002; 569 10 14.9 9.20002;
570 10 15.7 9.20002; 571 10 17.5 9.20002; 572 10 19.7 9.20002;
573 10 0.300001 9.89002; 574 10 23.2 10.125; 575 10 26.2 10.125;
576 10 0.300001 10.35; 577 10 7.80002 10.375; 578 10 14.9 10.375;
579 10 14.9 10.4; 580 10 15.7 10.4; 581 10 7.80002 11.55; 582 10 14.9 11.55;
583 10 7.80002 12.725; 584 10 14.9 12.725; 585 10 0.300001 12.75;
586 10 0.300001 13.21; 587 10 19.7 13.4; 588 10 20.2 13.4; 589 10 23.2 13.4;
590 10 26.2 13.4; 591 10 0.300001 13.9; 592 10 1.5 13.9; 593 10 4.25001 13.9;
594 10 7.80002 13.9; 595 10 9.10002 13.9; 596 10 10.3 13.9; 597 10 11.35 13.9;
598 10 12.8 13.9; 599 10 14.9 13.9; 600 10 17.5 13.9; 601 10 19.7 13.9;
602 10 20.2 13.9; 603 10 23.2 13.9; 604 10 26.2 13.9; 605 10 0.300001 14.59;
606 10 0.300001 15.295; 607 10 14.9 15.4; 608 10 0.300001 16; 609 10 23.2 16;
610 10 26.2 16; 611 10 0.300001 16.705; 612 10 0.300001 17.41;
613 10 0.300001 18.1; 614 10 1.5 18.1; 615 10 4.25001 18.1;
616 10 7.80002 18.1; 617 10 9.10002 18.1; 618 10 10.3 18.1; 619 10 11.35 18.1;
620 10 12.8 18.1; 621 10 14.9 18.1; 622 10 17.5 18.1; 623 10 19.7 18.1;
624 10 20.2 18.1; 625 10 23.2 18.1; 626 10 26.2 18.1; 627 10 0.300001 18.79;
628 10 0.300001 19.25; 629 10 19.7 20.3; 630 10.19 0.300001 -13.25;
631 10.19 0.300001 -12.79; 632 10.19 0.300001 -12.1; 633 10.19 0.300001 -11.41;
634 10.19 0.300001 -10.95; 635 10.65 0.300001 -13.25;
636 10.65 0.300001 -12.79; 637 10.65 0.300001 -12.1; 638 10.65 0.300001 -11.41;
639 10.65 0.300001 -10.95; 640 10.69 0.300001 -1.15;
641 10.69 0.300001 -0.690001; 642 10.69 0.300001 0;
643 10.69 0.300001 0.690001; 644 10.69 0.300001 1.47; 645 10.69 0.300001 2.25;
646 10.69 0.300001 3.03001; 647 10.69 0.300001 3.81001;
648 10.69 0.300001 4.50001; 649 10.69 0.300001 5.19001;
650 10.69 0.300001 6.02001; 651 10.69 0.300001 6.85001;

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652 10.69 0.300001 7.68002; 653 10.69 0.300001 8.51002;
654 10.69 0.300001 9.20002; 655 10.69 0.300001 9.89002;
656 10.69 0.300001 10.35; 657 10.69 0.300001 12.75; 658 10.69 0.300001 13.21;
659 10.69 0.300001 13.9; 660 10.69 0.300001 14.59; 661 10.69 0.300001 15.295;
662 10.69 0.300001 16; 663 10.69 0.300001 16.705; 664 10.69 0.300001 17.41;
665 10.69 0.300001 18.1; 666 10.69 0.300001 18.79; 667 10.69 0.300001 19.25;
668 11.08 14.9 -2.2; 669 11.08 19.7 -2.2; 670 11.08 14.9 0; 671 11.08 19.7 0;
672 11.08 14.9 4.50001; 673 11.08 19.7 4.50001; 674 11.08 19.7 9.20002;
675 11.08 19.7 13.9; 676 11.08 19.7 18.1; 677 11.08 19.7 20.3;
678 11.1 7.80002 -1.5; 679 11.1 7.80002 0; 680 11.15 0.300001 -1.15;
681 11.15 0.300001 -0.690001; 682 11.15 0.300001 4.84468e-08;
683 11.15 0.300001 0.690001; 684 11.15 0.300001 1.47; 685 11.15 0.300001 2.25;
686 11.15 0.300001 3.03001; 687 11.15 0.300001 3.81001;
688 11.15 0.300001 4.50001; 689 11.15 0.300001 5.19001;
690 11.15 0.300001 6.02001; 691 11.15 0.300001 6.85001;
692 11.15 0.300001 7.68001; 693 11.15 0.300001 8.51002;
694 11.15 0.300001 9.20002; 695 11.15 0.300001 9.89002;
696 11.15 0.300001 10.35; 697 11.15 0.300001 12.75; 698 11.15 0.300001 13.21;
699 11.15 0.300001 13.9; 700 11.15 0.300001 14.59; 701 11.15 0.300001 15.295;
702 11.15 0.300001 16; 703 11.15 0.300001 16.705; 704 11.15 0.300001 17.41;
705 11.15 0.300001 18.1; 706 11.15 0.300001 18.79; 707 11.15 0.300001 19.25;
708 11.35 15.7 9.20002; 709 11.35 15.7 10.4; 710 12.16 14.9 -2.2;
711 12.16 19.7 -2.2; 712 12.16 14.9 0; 713 12.16 19.7 0;
714 12.16 14.9 4.50001; 715 12.16 19.7 4.50001; 716 12.16 19.7 9.20002;
717 12.16 19.7 13.9; 718 12.16 19.7 18.1; 719 12.16 19.7 20.3;
720 12.2 7.80002 -1.50001; 721 12.2 7.80002 0; 722 12.7 15.7 9.20002;
723 12.7 15.7 10.4; 724 13.24 14.9 -2.2; 725 13.24 19.7 -2.2; 726 13.24 14.9 0;
727 13.24 19.7 0; 728 13.24 14.9 4.50001; 729 13.24 19.7 4.50001;
730 13.24 19.7 9.20002; 731 13.24 19.7 13.9; 732 13.24 19.7 18.1;
733 13.24 19.7 20.3; 734 13.3 7.80002 -1.50001; 735 13.3 7.80002 0;
736 14.05 15.7 9.20002; 737 14.05 15.7 10.4; 738 14.32 14.9 -2.2;
739 14.32 19.7 -2.2; 740 14.32 14.9 0; 741 14.32 19.7 0;
742 14.32 14.9 4.50001; 743 14.32 19.7 4.50001; 744 14.32 19.7 9.20002;
745 14.32 19.7 13.9; 746 14.32 19.7 18.1; 747 14.32 19.7 20.3;
748 14.4 7.80002 -1.50001; 749 14.4 7.80002 0; 750 15.4 14.9 -2.2;
751 15.4 19.7 -2.2; 752 15.4 12.8 0; 753 15.4 14.9 0; 754 15.4 19.7 0;
755 15.4 20.2 0; 756 15.4 23.2 0; 757 15.4 26.2 0; 758 15.4 23.2 3.15001;
759 15.4 26.2 3.15001; 760 15.4 14.9 4.50001; 761 15.4 19.7 4.50001;
762 15.4 19.7 6.30001; 763 15.4 20.2 6.30001; 764 15.4 23.2 6.30001;
765 15.4 26.2 6.30001; 766 15.4 19.7 6.85001; 767 15.4 20.2 6.85001;
768 15.4 23.2 6.85001; 769 15.4 26.2 6.85001; 770 15.4 15.7 9.20002;
771 15.4 19.7 9.20002; 772 15.4 23.2 10.125; 773 15.4 26.2 10.125;
774 15.4 15.7 10.4; 775 15.4 19.7 13.4; 776 15.4 20.2 13.4; 777 15.4 23.2 13.4;
778 15.4 26.2 13.4; 779 15.4 19.7 13.9; 780 15.4 20.2 13.9; 781 15.4 23.2 13.9;
782 15.4 26.2 13.9; 783 15.4 23.2 16; 784 15.4 26.2 16; 785 15.4 19.7 18.1;
786 15.4 20.2 18.1; 787 15.4 23.2 18.1; 788 15.4 26.2 18.1; 789 15.4 19.7 20.3;
790 15.5 7.80002 -16.1; 791 15.5 9.10002 -16.1; 792 15.5 7.80002 -14.1;
793 15.5 9.10002 -14.1; 794 15.5 9.10002 -13.1; 795 15.5 7.70002 -12.1;
796 15.5 7.80002 -12.1; 797 15.5 9.10002 -12.1; 798 15.5 10.1 -12.1;
799 15.5 12.8 -12.1; 800 15.5 7.80002 -9.68; 801 15.5 9.10002 -9.68;
802 15.5 7.80002 -7.26002; 803 15.5 9.10002 -7.26002;
804 15.5 7.80002 -4.84001; 805 15.5 9.10002 -4.84001; 806 15.5 12.8 -4.84001;
807 15.5 9.10002 -3.63001; 808 15.5 7.80002 -2.42001;

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809 15.5 9.10002 -2.42001; 810 15.5 7.80002 -1.50001;
 811 15.5 9.10002 -1.21001; 812 15.5 7.80002 0; 813 15.5 9.10002 0;
 814 15.5 10.3 0; 815 16.48 14.9 -2.2; 816 16.48 19.7 -2.2; 817 16.48 14.9 0;
 818 16.48 19.7 0; 819 16.48 14.9 4.50001; 820 16.48 19.7 4.50001;
 821 16.48 19.7 9.20002; 822 16.48 19.7 13.9; 823 16.48 19.7 18.1;
 824 16.48 19.7 20.3; 825 16.75 15.7 9.20002; 826 16.75 15.7 10.4;
 827 17.56 14.9 -2.2; 828 17.56 19.7 -2.2; 829 17.56 14.9 0; 830 17.56 19.7 0;
 831 17.56 14.9 4.50001; 832 17.56 19.7 4.50001; 833 17.56 19.7 9.20002;
 834 17.56 19.7 13.9; 835 17.56 19.7 18.1; 836 17.56 19.7 20.3;
 837 18.1 15.7 9.20002; 838 18.1 15.7 10.4; 839 18.15 9.10002 -3.63001;
 840 18.15 9.10002 -1.21001; 841 18.64 14.9 -2.2; 842 18.64 19.7 -2.2;
 843 18.64 14.9 0; 844 18.64 19.7 0; 845 18.64 14.9 4.50001;
 846 18.64 19.7 4.50001; 847 18.64 19.7 9.20002; 848 18.64 19.7 13.9;
 849 18.64 19.7 18.1; 850 18.64 19.7 20.3; 851 19.45 15.7 9.20002;
 852 19.45 15.7 10.4; 853 19.65 0.300001 -1.15; 854 19.65 0.300001 -0.690001;
 855 19.65 0.300001 4.84468e-08; 856 19.65 0.300001 0.690001;
 857 19.65 0.300001 1.47; 858 19.65 0.300001 2.25; 859 19.65 0.300001 3.03001;
 860 19.65 0.300001 3.81001; 861 19.65 0.300001 4.50001;
 862 19.65 0.300001 5.19001; 863 19.65 0.300001 6.02001;
 864 19.65 0.300001 6.85001; 865 19.65 0.300001 7.68001;
 866 19.65 0.300001 8.51002; 867 19.65 0.300001 9.20002;
 868 19.65 0.300001 9.89002; 869 19.65 0.300001 10.35; 870 19.65 0.300001 12.75;
 871 19.65 0.300001 13.21; 872 19.65 0.300001 13.9; 873 19.65 0.300001 14.59;
 874 19.65 0.300001 15.295; 875 19.65 0.300001 16; 876 19.65 0.300001 16.705;
 877 19.65 0.300001 17.41; 878 19.65 0.300001 18.1; 879 19.65 0.300001 18.79;
 880 19.65 0.300001 19.25; 881 19.72 14.9 -2.2; 882 19.72 19.7 -2.2;
 883 19.72 14.9 0; 884 19.72 19.7 0; 885 19.72 14.9 4.50001;
 886 19.72 19.7 4.50001; 887 19.72 19.7 9.20002; 888 19.72 19.7 13.9;
 889 19.72 19.7 18.1; 890 19.72 19.7 20.3; 891 20.11 0.300001 -1.15;
 892 20.11 0.300001 -0.690001; 893 20.11 0.300001 0;
 894 20.11 0.300001 0.690001; 895 20.11 0.300001 1.47; 896 20.11 0.300001 2.25;
 897 20.11 0.300001 3.03001; 898 20.11 0.300001 3.81001;
 899 20.11 0.300001 4.50001; 900 20.11 0.300001 5.19001;
 901 20.11 0.300001 6.02001; 902 20.11 0.300001 6.85001;
 903 20.11 0.300001 7.68002; 904 20.11 0.300001 8.51002;
 905 20.11 0.300001 9.20002; 906 20.11 0.300001 9.89002;
 907 20.11 0.300001 10.35; 908 20.11 0.300001 12.75; 909 20.11 0.300001 13.21;
 910 20.11 0.300001 13.9; 911 20.11 0.300001 14.59; 912 20.11 0.300001 15.295;
 913 20.11 0.300001 16; 914 20.11 0.300001 16.705; 915 20.11 0.300001 17.41;
 916 20.11 0.300001 18.1; 917 20.11 0.300001 18.79; 918 20.11 0.300001 19.25;
 919 20.35 0.300001 -13.25; 920 20.35 0.300001 -12.79; 921 20.35 0.300001 -12.1;
 922 20.35 0.300001 -11.41; 923 20.35 0.300001 -10.95; 924 20.8 7.80002 -16.1;
 925 20.8 9.10002 -16.1; 926 20.8 7.80002 -14.1; 927 20.8 9.10002 -14.1;
 928 20.8 9.10002 -13.1; 929 20.8 7.70002 -12.1; 930 20.8 7.80002 -12.1;
 931 20.8 9.10002 -12.1; 932 20.8 10.1 -12.1; 933 20.8 12.8 -12.1;
 934 20.8 7.80002 -9.68; 935 20.8 9.10002 -9.68; 936 20.8 7.80002 -7.26002;
 937 20.8 9.10002 -7.26002; 938 20.8 7.80002 -4.84001;
 939 20.8 9.10002 -4.84001; 940 20.8 12.8 -4.84001; 941 20.8 9.10002 -3.63001;
 942 20.8 7.80002 -2.42001; 943 20.8 9.10002 -2.42001; 944 20.8 14.9 -2.2;
 945 20.8 19.7 -2.2; 946 20.8 9.10002 -1.21001; 947 20.8 0.300001 -1.15;
 948 20.8 0.300001 -0.690001; 949 20.8 0.300001 0; 950 20.8 1.5 0;
 951 20.8 6.30001 0; 952 20.8 7.80002 0; 953 20.8 9.10002 0; 954 20.8 10.3 0;
 955 20.8 12.3 0; 956 20.8 12.8 0; 957 20.8 14.9 0; 958 20.8 15.7 0;

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959 20.8 17.5 0; 960 20.8 19.7 0; 961 20.8 20.2 0; 962 20.8 23.2 0;
963 20.8 26.2 0; 964 20.8 0.300001 0.690001; 965 20.8 15.7 1.12497;
966 20.8 9.10002 1.125; 967 20.8 0.300001 1.47; 968 20.8 15.7 2.24997;
969 20.8 0.300001 2.25; 970 20.8 9.10002 2.25; 971 20.8 0.300001 3.03001;
972 20.8 23.2 3.15001; 973 20.8 26.2 3.15001; 974 20.8 15.7 3.37497;
975 20.8 9.10002 3.37501; 976 20.8 0.300001 3.81001; 977 20.8 0.300001 4.50001;
978 20.8 1.5 4.50001; 979 20.8 1.6 4.50001; 980 20.8 6.30001 4.50001;
981 20.8 7.80002 4.50001; 982 20.8 9.10002 4.50001; 983 20.8 10.3 4.50001;
984 20.8 12.3 4.50001; 985 20.8 12.8 4.50001; 986 20.8 14.9 4.50001;
987 20.8 15.7 4.50001; 988 20.8 17.5 4.50001; 989 20.8 19.7 4.50001;
990 20.8 0.300001 5.19001; 991 20.8 6.30001 5.70001; 992 20.8 9.10002 5.70001;
993 20.8 12.3 5.70001; 994 20.8 15.7 5.70001; 995 20.8 0.300001 6.02001;
996 20.8 19.7 6.30001; 997 20.8 20.2 6.30001; 998 20.8 23.2 6.30001;
999 20.8 26.2 6.30001; 1000 20.8 0.300001 6.85001; 1001 20.8 6.30001 6.85001;
1002 20.8 9.10002 6.85001; 1003 20.8 12.3 6.85001; 1004 20.8 15.7 6.85001;
1005 20.8 19.7 6.85001; 1006 20.8 20.2 6.85001; 1007 20.8 23.2 6.85001;
1008 20.8 26.2 6.85001; 1009 20.8 0.300001 7.68001; 1010 20.8 9.10002 8.00001;
1011 20.8 12.3 8.00001; 1012 20.8 15.7 8.00001; 1013 20.8 0.300001 8.51002;
1014 20.8 0.300001 9.20002; 1015 20.8 1.5 9.20002; 1016 20.8 1.6 9.20002;
1017 20.8 6.30001 9.20002; 1018 20.8 7.80002 9.20002;
1019 20.8 9.10002 9.20002; 1020 20.8 10.3 9.20002; 1021 20.8 12.3 9.20002;
1022 20.8 12.8 9.20002; 1023 20.8 15.7 9.20002; 1024 20.8 17.5 9.20002;
1025 20.8 19.7 9.20002; 1026 20.8 0.300001 9.89002; 1027 20.8 23.2 10.125;
1028 20.8 26.2 10.125; 1029 20.8 0.300001 10.35; 1030 20.8 9.10002 10.375;
1031 20.8 15.7 10.375; 1032 20.8 15.7 10.4; 1033 20.8 6.30001 11;
1034 20.8 12.3 11; 1035 20.8 9.10002 11.55; 1036 20.8 15.7 11.55;
1037 20.8 9.10002 12.725; 1038 20.8 15.7 12.725; 1039 20.8 0.300001 12.75;
1040 20.8 0.300001 13.21; 1041 20.8 19.7 13.4; 1042 20.8 20.2 13.4;
1043 20.8 23.2 13.4; 1044 20.8 26.2 13.4; 1045 20.8 0.300001 13.9;
1046 20.8 1.5 13.9; 1047 20.8 6.30001 13.9; 1048 20.8 7.80002 13.9;
1049 20.8 9.10002 13.9; 1050 20.8 10.3 13.9; 1051 20.8 12.3 13.9;
1052 20.8 12.8 13.9; 1053 20.8 15.7 13.9; 1054 20.8 17.5 13.9;
1055 20.8 19.7 13.9; 1056 20.8 20.2 13.9; 1057 20.8 23.2 13.9;
1058 20.8 26.2 13.9; 1059 20.8 0.300001 14.59; 1060 20.8 9.10002 14.95;
1061 20.8 15.7 14.95; 1062 20.8 0.300001 15.295; 1063 20.8 0.300001 16;
1064 20.8 9.10002 16; 1065 20.8 15.7 16; 1066 20.8 23.2 16; 1067 20.8 26.2 16;
1068 20.8 0.300001 16.705; 1069 20.8 9.10002 17.05; 1070 20.8 15.7 17.05;
1071 20.8 0.300001 17.41; 1072 20.8 0.300001 18.1; 1073 20.8 1.5 18.1;
1074 20.8 6.30001 18.1; 1075 20.8 7.80002 18.1; 1076 20.8 9.10002 18.1;
1077 20.8 10.3 18.1; 1078 20.8 12.3 18.1; 1079 20.8 12.8 18.1;
1080 20.8 15.7 18.1; 1081 20.8 17.5 18.1; 1082 20.8 19.7 18.1;
1083 20.8 20.2 18.1; 1084 20.8 23.2 18.1; 1085 20.8 26.2 18.1;
1086 20.8 0.300001 18.79; 1087 20.8 0.300001 19.25; 1088 20.8 19.7 20.3;
1089 20.81 0.300001 -13.25; 1090 20.81 0.300001 -12.79;
1091 20.81 0.300001 -12.1; 1092 20.81 0.300001 -11.41;
1093 20.81 0.300001 -10.95; 1094 21.49 0.300001 -1.15;
1095 21.49 0.300001 -0.690001; 1096 21.49 0.300001 0;
1097 21.49 0.300001 0.690001; 1098 21.49 0.300001 1.47;
1099 21.49 0.300001 2.25; 1100 21.49 0.300001 3.03001;
1101 21.49 0.300001 3.81001; 1102 21.49 0.300001 4.50001;
1103 21.49 0.300001 5.19001; 1104 21.49 0.300001 6.02001;
1105 21.49 0.300001 6.85001; 1106 21.49 0.300001 7.68002;
1107 21.49 0.300001 8.51002; 1108 21.49 0.300001 9.20002;

ROTTERDAM SITE DEVELOPMENT NESTE

1109 21.49 0.300001 9.89002; 1110 21.49 0.300001 10.35;
 1111 21.49 0.300001 12.75; 1112 21.49 0.300001 13.21; 1113 21.49 0.300001 13.9;
 1114 21.49 0.300001 14.59; 1115 21.49 0.300001 15.295; 1116 21.49 0.300001 16;
 1117 21.49 0.300001 16.705; 1118 21.49 0.300001 17.41;
 1119 21.49 0.300001 18.1; 1120 21.49 0.300001 18.79; 1121 21.49 0.300001 19.25;
 1122 21.5 0.300001 -13.25; 1123 21.5 0.300001 -12.79; 1124 21.5 0.300001 -12.1;
 1125 21.5 1.5 -12.1; 1126 21.5 7.70002 -12.1; 1127 21.5 0.300001 -11.41;
 1128 21.5 0.300001 -10.95; 1129 21.8 19.7 -2.2; 1130 21.8 19.7 0;
 1131 21.8 22.2 0; 1132 21.8 24.7 0; 1133 21.8 27.05 0; 1134 21.8 19.7 4.50001;
 1135 21.8 22.2 4.50001; 1136 21.8 24.7 4.50001; 1137 21.8 27.05 4.50001;
 1138 21.8 19.7 9.20002; 1139 21.8 22.2 9.20002; 1140 21.8 24.7 9.20002;
 1141 21.8 27.05 9.20002; 1142 21.8 19.7 13.9; 1143 21.8 22.2 13.9;
 1144 21.8 24.7 13.9; 1145 21.8 27.05 13.9; 1146 21.8 19.7 18.1;
 1147 21.8 19.7 20.3; 1148 21.95 0.300001 -1.15; 1149 21.95 0.300001 -0.690001;
 1150 21.95 0.300001 4.84468e-08; 1151 21.95 0.300001 0.690001;
 1152 21.95 0.300001 1.47; 1153 21.95 0.300001 2.25;
 1154 21.95 0.300001 3.03001; 1155 21.95 0.300001 3.81001;
 1156 21.95 0.300001 4.50001; 1157 21.95 0.300001 5.19001;
 1158 21.95 0.300001 6.02001; 1159 21.95 0.300001 6.85001;
 1160 21.95 0.300001 7.68001; 1161 21.95 0.300001 8.51002;
 1162 21.95 0.300001 9.20002; 1163 21.95 0.300001 9.89002;
 1164 21.95 0.300001 10.35; 1165 21.95 0.300001 12.75;
 1166 21.95 0.300001 13.21; 1167 21.95 0.300001 13.9; 1168 21.95 0.300001 14.59;
 1169 21.95 0.300001 15.295; 1170 21.95 0.300001 16; 1171 21.95 0.300001 16.705;
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 1177 22.19 0.300001 -12.79; 1178 22.19 0.300001 -12.1;
 1179 22.19 0.300001 -11.41; 1180 22.19 0.300001 -10.95;
 1181 22.3 9.10002 -1.21; 1182 22.3 15.7 -3.72071e-05;
 1183 22.3 9.10002 7.75148e-07; 1184 22.3 15.7 1.12497; 1185 22.3 9.10002 1.125;
 1186 22.3 15.7 2.24997; 1187 22.3 9.10002 2.25001; 1188 22.3 15.7 3.37497;
 1189 22.3 9.10002 3.37501; 1190 22.3 9.10002 4.50001; 1191 22.3 15.7 4.50001;
 1192 22.3 9.10002 9.20002; 1193 22.3 15.7 9.20002; 1194 22.3 9.10002 10.375;
 1195 22.3 15.7 10.375; 1196 22.3 9.10002 11; 1197 22.3 15.7 11;
 1198 22.3 9.10002 11.55; 1199 22.3 15.7 11.55; 1200 22.3 9.10002 12.725;
 1201 22.3 15.7 12.725; 1202 22.3 9.10002 13.9; 1203 22.3 15.7 13.9;
 1204 22.3 9.10002 14.95; 1205 22.3 15.7 14.95; 1206 22.3 9.10002 16;
 1207 22.3 15.7 16; 1208 22.3 9.10002 17.05; 1209 22.3 15.7 17.05;
 1210 22.3 9.10002 18.1; 1211 22.3 15.7 18.1; 1212 22.65 0.300001 -13.25;
 1213 22.65 0.300001 -12.79; 1214 22.65 0.300001 -12.1;
 1215 22.65 0.300001 -11.41; 1216 22.65 0.300001 -10.95;
 1217 22.8 6.30001 4.50001; 1218 22.8 6.30001 5.70001;
 1219 22.8 6.30001 6.85001; 1220 22.8 6.30001 8.00002;
 1221 22.8 6.30001 9.20002; 1222 22.8 12.3 9.20002; 1223 22.8 6.30001 11;
 1224 22.8 12.3 11; 1225 23 19.7 -2.2; 1226 23 19.7 0; 1227 23 22.2 0;
 1228 23 24.7 0; 1229 23 27.05 0; 1230 23 19.7 4.50001; 1231 23 22.2 4.50001;
 1232 23 24.7 4.50001; 1233 23 27.05 4.50001; 1234 23 19.7 9.20002;
 1235 23 22.2 9.20002; 1236 23 24.7 9.20002; 1237 23 27.05 9.20002;
 1238 23 19.7 13.9; 1239 23 22.2 13.9; 1240 23 24.7 13.9; 1241 23 27.05 13.9;
 1242 23 19.7 18.1; 1243 23 19.7 20.3; 1244 23.5 9.10002 4.50001;
 1245 23.5 12.3 4.50001; 1246 23.5 15.7 4.50001; 1247 23.5 9.09999 5.70001;
 1248 23.5 12.3 5.70001; 1249 23.5 15.7 5.70001; 1250 23.5 9.09999 6.85001;
 1251 23.5 12.3 6.85001; 1252 23.5 15.7 6.85001; 1253 23.5 9.09999 8.00001;

ROTTERDAM SITE DEVELOPMENT NESTE

1254 23.5 12.3 8.00001; 1255 23.5 15.7 8.00001; 1256 23.5 9.10002 9.20002;
 1257 23.5 12.3 9.20002; 1258 23.5 15.7 9.20002; 1259 24.51 -0.650001 -0.790002;
 1260 24.51 -0.650001 -0.330001; 1261 24.51 -0.650001 0.360001;
 1262 24.51 -0.650001 1.05; 1263 24.51 -0.650001 1.74; 1264 24.51 -0.650001 2.2;
 1265 24.51 -0.650001 2.43; 1266 24.51 -0.650001 3.12001;
 1267 24.51 -0.650001 3.81001; 1268 24.51 -0.650001 4.50001;
 1269 24.51 -0.650001 5.19001; 1270 24.51 -0.650001 5.88001;
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 1291 25.66 -0.650001 3.81001; 1292 25.66 -0.650001 4.50001;
 1293 25.66 -0.650001 5.19001; 1294 25.66 -0.650001 5.88001;
 1295 26.2 6.30001 4.50001; 1296 26.2 9.10002 4.50001; 1297 26.2 12.3 4.50001;
 1298 26.2 15.7 4.50001; 1299 26.2 6.30001 5.25001; 1300 26.2 9.10002 5.25001;
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 1307 26.2 6.30001 6.00001; 1308 26.2 9.10002 6.00001; 1309 26.2 12.3 6.00001;
 1310 26.2 15.7 6.00001; 1311 26.2 6.30001 6.85001; 1312 26.2 9.10002 6.85001;
 1313 26.2 12.3 6.85001; 1314 26.2 15.7 6.85001; 1315 26.2 6.30001 7.70002;
 1316 26.2 9.10002 7.70002; 1317 26.2 12.3 7.70002; 1318 26.2 15.7 7.70002;
 1319 26.2 9.10002 8.00001; 1320 26.2 12.3 8.00001; 1321 26.2 15.7 8.00001;
 1322 26.2 6.30001 8.00002; 1323 26.2 6.30001 8.45002;
 1324 26.2 9.10002 8.45002; 1325 26.2 12.3 8.45002; 1326 26.2 15.7 8.45002;
 1327 26.2 6.30001 9.20002; 1328 26.2 9.10002 9.20002; 1329 26.2 12.3 9.20002;
 1330 26.2 15.7 9.20002; 1331 26.2 6.30001 10.1; 1332 26.2 9.10002 10.1;
 1333 26.2 12.3 10.1; 1334 26.2 6.30001 11; 1335 26.2 9.10002 11;
 1336 26.2 12.3 11; 1337 26.3501 -0.650001 -0.790002;
 1338 26.3501 -0.650001 -0.330001; 1339 26.3501 -0.650001 0.360001;
 1340 26.3501 -0.650001 1.05; 1341 26.3501 -0.650001 1.74;
 1342 26.3501 -0.650001 2.2; 1343 26.3501 -0.650001 2.43;
 1344 26.3501 -0.650001 3.12001; 1345 26.3501 -0.650001 3.81001;
 1346 26.3501 -0.650001 4.50001; 1347 26.3501 -0.650001 5.19001;
 1348 26.3501 -0.650001 5.88001; 1349 27.0401 -0.650001 -0.790002;
 1350 27.0401 -0.650001 -0.330001; 1351 27.0401 -0.650001 0.360001;
 1352 27.0401 -0.650001 1.05; 1353 27.0401 -0.650001 1.74;
 1354 27.0401 -0.650001 2.43; 1355 27.0401 -0.650001 3.12001;
 1356 27.0401 -0.650001 3.81001; 1357 27.0401 -0.650001 4.50001;
 1358 27.0401 -0.650001 5.19001; 1359 27.0401 -0.650001 5.88001;
 1360 27.05 -0.650001 2.2; 1361 27.05 6.30001 2.2; 1362 27.05 12.3 6.00001;
 1363 27.05 12.3 6.85001; 1364 27.05 12.3 7.70002;
 1365 27.7301 -0.650001 -0.790002; 1366 27.7301 -0.650001 -0.330001;
 1367 27.7301 -0.650001 0.360001; 1368 27.7301 -0.650001 1.05;
 1369 27.7301 -0.650001 1.74; 1370 27.7301 -0.650001 2.2;
 1371 27.7301 -0.650001 2.43; 1372 27.7301 -0.650001 3.12001;
 1373 27.7301 -0.650001 3.81001; 1374 27.7301 -0.650001 4.50001;
 1375 27.7301 -0.650001 5.19001; 1376 27.7301 -0.650001 5.88001;
 1377 27.9001 6.30001 4.50001; 1378 27.9001 9.10002 4.50001;

ROTTERDAM SITE DEVELOPMENT NESTE

1379 27.9001 12.3 4.50001; 1380 27.9001 15.7 4.50001;
 1381 27.9001 6.30001 5.25001; 1382 27.9001 9.10002 5.25001;
 1383 27.9001 12.3 5.25001; 1384 27.9001 15.7 5.25001;
 1385 27.9001 6.30001 5.70001; 1386 27.9001 9.10002 5.70001;
 1387 27.9001 12.3 5.70001; 1388 27.9001 15.7 5.70001;
 1389 27.9001 6.30001 6.00001; 1390 27.9001 9.10002 6.00001;
 1391 27.9001 12.3 6.00001; 1392 27.9001 15.7 6.00001;
 1393 27.9001 6.30001 6.85001; 1394 27.9001 9.10002 6.85001;
 1395 27.9001 12.3 6.85001; 1396 27.9001 15.7 6.85001;
 1397 27.9001 6.30001 7.70002; 1398 27.9001 9.10002 7.70002;
 1399 27.9001 12.3 7.70002; 1400 27.9001 15.7 7.70002;
 1401 27.9001 6.30001 8.00002; 1402 27.9001 9.10002 8.00002;
 1403 27.9001 12.3 8.00002; 1404 27.9001 15.7 8.00002;
 1405 27.9001 6.30001 8.45002; 1406 27.9001 9.10002 8.45002;
 1407 27.9001 12.3 8.45002; 1408 27.9001 15.7 8.45002;
 1409 27.9001 6.30001 9.20002; 1410 27.9001 9.10002 9.20002;
 1411 27.9001 12.3 9.20002; 1412 27.9001 15.7 9.20002;
 1413 27.9001 6.30001 10.1; 1414 27.9001 9.10002 10.1; 1415 27.9001 12.3 10.1;
 1416 27.9001 6.30001 11; 1417 27.9001 9.10002 11; 1418 27.9001 12.3 11;
 1419 28.4201 -0.650001 -0.790002; 1420 28.4201 -0.650001 -0.330001;
 1421 28.4201 -0.650001 0.360001; 1422 28.4201 -0.650001 1.05;
 1423 28.4201 -0.650001 1.74; 1424 28.4201 -0.650001 2.2;
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 1427 28.4201 -0.650001 3.81001; 1428 28.4201 -0.650001 4.50001;
 1429 28.4201 -0.650001 5.19001; 1430 28.4201 -0.650001 5.88001;
 1431 28.6501 0.300001 8.05001; 1432 28.6501 0.300001 8.51002;
 1433 28.6501 0.300001 9.20002; 1434 28.6501 0.300001 9.89002;
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 1437 29.1101 -0.650001 -0.330001; 1438 29.1101 -0.650001 0.360001;
 1439 29.1101 -0.650001 1.05; 1440 29.1101 -0.650001 1.74;
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 1455 29.8001 -0.650001 0.360001; 1456 29.8001 -0.650001 1.05;
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 1459 29.8001 -0.650001 2.43; 1460 29.8001 -0.650001 3.12001;
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 1463 29.8001 1.5 4.50001; 1464 29.8001 1.6 4.50001;
 1465 29.8001 5.40001 4.50001; 1466 29.8001 6.30001 4.50001;
 1467 29.8001 9.10002 4.50001; 1468 29.8001 12.3 4.50001;
 1469 29.8001 15.7 4.50001; 1470 29.8001 -0.650001 5.19001;
 1471 29.8001 6.30001 5.70001; 1472 29.8001 9.10002 5.70001;
 1473 29.8001 12.3 5.70001; 1474 29.8001 15.7 5.70001;
 1475 29.8001 -0.650001 5.88001; 1476 29.8001 6.30001 6.35001;
 1477 29.8001 9.10002 6.35001; 1478 29.8001 12.3 6.35001;
 1479 29.8001 15.7 6.35001; 1480 29.8001 6.30001 6.85001;
 1481 29.8001 9.10002 6.85001; 1482 29.8001 12.3 6.85001;
 1483 29.8001 15.7 6.85001; 1484 29.8001 6.30001 7.35001;
 1485 29.8001 9.10002 7.35001; 1486 29.8001 12.3 7.35001;

ROTTERDAM SITE DEVELOPMENT NESTE

1487 29.8001 15.7 7.35001; 1488 29.8001 6.30001 8.00002;
 1489 29.8001 9.10002 8.00002; 1490 29.8001 12.3 8.00002;
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 1499 29.8001 8.20001 9.20002; 1500 29.8001 9.10002 9.20002;
 1501 29.8001 11.4 9.20002; 1502 29.8001 12.3 9.20002;
 1503 29.8001 15.7 9.20002; 1504 29.8001 0.300001 9.89002;
 1505 29.8001 6.30001 10.1; 1506 29.8001 9.10002 10.1; 1507 29.8001 12.3 10.1;
 1508 29.8001 0.300001 10.35; 1509 29.8001 6.30001 11; 1510 29.8001 9.10002 11;
 1511 29.8001 12.3 11; 1512 30.4901 -0.650001 -0.790002;
 1513 30.4901 -0.650001 -0.330001; 1514 30.4901 -0.650001 0.360001;
 1515 30.4901 -0.650001 1.05; 1516 30.4901 -0.650001 1.74;
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 1521 30.4901 -0.650001 4.50001; 1522 30.4901 -0.650001 5.19001;
 1523 30.4901 -0.650001 5.88001; 1524 30.4901 0.300001 8.05002;
 1525 30.4901 0.300001 8.51002; 1526 30.4901 0.300001 9.20002;
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 1545 30.9501 0.300001 10.35; 1546 31.3001 6.30001 4.50001;
 1547 31.3001 6.30001 5.70001; 1548 31.3001 6.30001 6.85001;
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 1551 6.30001 9.00002 2.25; 1552 6.30001 9.00002 4.50001;
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 1557 8.70002 9.00002 9.20002; 1558 8.70002 9.00002 11.55;

MEMBER INCIDENCES

1 28 21; 2 21 29; 3 24 25; 4 25 26; 5 26 27; 6 27 28; 7 28 29; 8 29 30;
 9 30 31; 10 29 34; 11 31 35; 12 27 36; 13 30 37; 1003 25 38; 1004 27 38;
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ELEMENT INCIDENCES SHELL

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ROTTERDAM SITE DEVELOPMENT NESTE

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 1565 1570 1571 1573 TO 1575 1588 1590 1591 1593 1594 1601 1602 2223 TO 2227 -
 2242 2244 TO 2247 2697 TO 2700 2717 TO 2720
 _BRG_DIA 1907 1912 1920 1924 1928 1934 1939 1968 1971 2047 2048 2051 2052 -
 2057 2058 2061 2062 2065 2066 2070 2073 2104 2105 2135 2140 2148 2152 2156 -
 2162 2168
 _BRG_STA 1906 1908 2134 2136
 _BRG_END 1937 1938 1940 1941 2166 2167 2173
 _LGB_STA 10 11 1004 1006 1097 1098 1103 1104 1115 TO 1118 1147 1148 1152 1153 -
 1538 1539 1545 TO 1547 1566 TO 1569 1572 1614 1615 1618 1622 TO 1624 1649 -
 1653 TO 1656 2188 2189 2195 TO 2198 2218 TO 2222 2266 TO 2269 2272 2299 2300 -
 2306 TO 2308 2693 TO 2696 2776
 _LGB_END 1010 1012 1014 1016 1103 1104 1107 1108 1137 TO 1140 1152 1153 1156 -
 1157 1545 TO 1547 1550 1551 1589 1592 1598 TO 1600 1623 1624 1630 1631 1635 -
 2195 TO 2198 2201 2202 2243 2248 2252 TO 2254 2278 TO 2281 2285 2306 2307 -
 2314 2315 2721 TO 2724
 _FLB_STA 1301 1302 1304 1306 1308 1310 TO 1320 1322 TO 1327 1400 1401 1403 -
 1405 1407 1410 1411 1414 1415 1417 1418 1421 1422 1425 TO 1432 1849 1850 -
 1858 1862 1866 1875 1882 1892 2477 TO 2480 2547 TO 2578 2622 TO 2653
 _FLB_END 1301 1302 1304 1306 1308 1310 TO 1320 1322 TO 1327 1400 1401 1403 -
 1405 1407 1410 1411 1414 1415 1417 1418 1421 1422 1425 TO 1432 1849 1850 -
 1858 1862 1866 1875 1882 1892 2477 TO 2480 2547 TO 2578 2622 TO 2653
 _WLK_DIA 1616 1617 1694 1705 1721 1761 1798 1814 1825 1873 1957 1967 1985 -
 2026 2088 2102 2116
 _COL_BASE 4 1018 1092 1110 1142 1159 1526 1553 1604 1637 1662 2175 2204 2256 -
 2287 2317 2687 2726
 _HND_STAIR 10 11 1023 1024 1028 1030 1035 1036 1044 1046 1049 1050 1078 1085 -
 1086 1125 1127 1129 1130
 _HND_107800 2 1025 1054 TO 1061 1067 1076 1087 1101 1105 1107 1115 1123 1174 -
 1197 1223 1257 1339 1366 1369 1381 1446 1479 1488 1514 1538 1543 1548 1550 -
 1566 1576 1586 1599 1614 1620 1628 1630 1691 1692 1718 1719 1786 1787 1812 -
 1813 1839 1840
 _HND_114900 1102 1106 1108 1116 1124 1128 1132 1140 1148 1150 1155 1157 1167 -
 1178 1186 1199 1229 1260 1338 1349 1368 1382 1447 1458 1487 1513 1520 1567 -
 1577 1587 1600 1615 1621 1629 1631 1649 1676 1683 1706 1711 1734 1746 1800 -

ROTTERDAM SITE DEVELOPMENT NESTE

1805 1827 1832 1944 1949 1972 1977 1995 2000 2090 2095 2118 2125 2170 2197
_HND_119700 1453 1454 1456 1457 1485 1510 1522 1547 1568 1581 1585 1677 1690 -
1707 1717 1735 1783 1801 1811 1828 1838 1945 1955 1973 1983 1996 2006 2091 -
2101 2119 2132 2332 2339 2445 2476 2487 2491 2497 2503 2509 2510
_HND_106300 2218 2380 2478 TO 2480 2525 2529 2591 2616 2660 2683 2735 2740 -
2743 2749 TO 2753
_HND_109100 1932 1935 1938 1941 2068 2160 2163 2166 2189 2194 2200 2202 2219 -
2229 2239 2252 2266 2270 2276 2280 2299 2304 2309 2314 2342 2371 2418 2420 -
2422 2424 2426 2427 2429 2431 2433 2435 2437 2439 2441 2443 2483 2485 2532 -
2544 2592 2617 2661 2684 2694 2702 2706 2710 2714 2722 2737 2741
_HND_112300 2220 2230 2240 2253 2269 2394 2408 2511 2533 2545 2593 2618 2662 -
2685 2695 2703 2707 2711 2715 2723 2739 2742
_HND_115700 2188 2193 2199 2201 2221 2231 2241 2254 2267 2271 2277 2281 2300 -
2305 2310 2315 2344 2372 2419 2421 2423 2425 2430 2432 2434 2436 2438 2440 -
2442 2444 2484 2486 2534 2546 2594 2612 2663 2679 2696 2704 2708 2712 2716 -
2724 2776
_HND_WLK 1693 1695 1720 1722 1797 1799 1824 1826 1956 1958 1984 1986 2087 -
2089 2115 2117
_BMS_RCK 1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 -
1884 TO 1885 1897 TO 1899 2007 2045 2049 2054 2056 2059 2063 2067 2069 2071 -
2074 2076
_STE_STR 1 2 4 TO 13 1003 TO 1016 1018 TO 1090 1092 TO 1108 1110 TO 1140 1142 -
1143 TO 1157 1159 TO 1229 1234 1244 TO 1246 1249 TO 1251 1255 1257 TO 1260 -
1279 1280 1282 1287 1289 1290 1300 TO 1331 1335 1337 TO 1373 1377 -
1379 TO 1382 1392 TO 1407 1410 1411 1414 1415 1417 1418 1421 1422 -
1425 TO 1437 1441 1443 TO 1516 1518 TO 1524 1526 TO 1534 1538 1539 -
1543 TO 1551 1553 TO 1560 1564 TO 1577 1581 1585 TO 1594 1598 TO 1602 1604 -
1605 TO 1624 1628 TO 1631 1635 1637 TO 1645 1649 1653 TO 1657 1662 TO 1670 -
1674 TO 1738 1745 TO 1747 1760 1761 1768 1775 1779 1783 1784 1786 TO 1842 -
1849 1850 1852 TO 1854 1858 1862 1866 1870 TO 1873 1875 1882 TO 1885 1892 -
1897 TO 1899 1903 TO 2007 2026 2045 TO 2076 2078 TO 2173 2175 TO 2184 2188 -
2189 2193 TO 2202 2204 TO 2214 2218 TO 2231 2235 2239 TO 2248 2252 TO 2254 -
2256 TO 2272 2276 TO 2281 2285 2287 TO 2295 2299 2300 2304 TO 2310 2314 2315 -
2317 TO 2325 2329 TO 2339 2341 TO 2585 2587 2591 TO 2619 2621 TO 2685 2687 -
2688 TO 2724 2726 TO 2753 2776
_COL_STA 4 TO 9 1018 TO 1022
_COL_WEST 1092 TO 1096 1110 TO 1114 1142 TO 1146 1159 TO 1163
_COL_CEN 1526 TO 1534 1553 TO 1560 1604 TO 1613 1637 TO 1645 1662 TO 1670 -
2175 TO 2184 2204 TO 2214 2256 TO 2265 2287 TO 2295 2317 TO 2325
_COL_EAST 2687 TO 2692 2726 TO 2733
_BMS_STA_TRA 1027 1028 1031 1032 1037 1043 1044 1047 1048 1051 TO 1053 1067 -
1077 1078 1081 1082
_BMS_WEST_TRA 1176 1177 1181 1185 1187 1188 1198 1199 1216 1223 1228 1245 -
1258 1259 1279 1280 1329 1330 1337 1340 1343 1344 1346 1347 1349 1366 1367 -
1370 1379 1380 1392 1393 1395 1397 1435 1436 1443 1444 1449 1450 1458 1479 -
1486 1489 TO 1491 1502 1503 1511 1516
_BMS_CENTR_TRA 1680 1681 1683 TO 1686 1688 1692 1708 1709 1711 TO 1714 1716 -
1719 1736 TO 1738 1746 1747 1760 1768 1779 1784 1787 1802 1803 1805 TO 1808 -
1810 1813 1829 1830 1832 TO 1835 1837 1840 1852 TO 1854 1870 TO 1872 1883 -
1884 TO 1885 1897 TO 1899 1946 1947 1949 TO 1952 1954 1974 1975 1977 TO 1980 -
1982 1997 1998 2000 TO 2003 2005 2007 2074 2076 2092 2093 2095 TO 2098 2100 -
2122 2123 2125 TO 2128 2130
_BMS_EAST_TRA 2353 TO 2356 2380 2388 2389 2408 2483 TO 2486 2511 2525 2529 -

ROTTERDAM SITE DEVELOPMENT NESTE

2532 TO 2534 2544 TO 2546 2591 TO 2594 2609 TO 2612 2660 TO 2663 -
2676 TO 2679

_FIREPROOF 4 TO 13 1003 TO 1016 1018 TO 1024 1027 TO 1032 1035 TO 1037 1043 -
1044 TO 1053 1055 TO 1061 1067 1070 1076 TO 1082 1085 1086 1092 TO 1098 1100 -
1101 TO 1108 1110 TO 1140 1142 TO 1157 1159 TO 1163 1167 1176 TO 1178 1181 -
1185 TO 1188 1198 1199 1216 1223 1228 1229 1245 1258 TO 1260 1279 1280 1301 -
1302 1304 1306 1308 1310 TO 1320 1322 TO 1330 1337 1338 1340 1343 1344 1346 -
1347 1349 1366 TO 1368 1370 1379 1380 1382 1392 1393 1395 1397 1400 1401 -
1403 1405 1407 1410 1411 1414 1415 1417 1418 1421 1422 1425 TO 1432 1434 -
1435 TO 1436 1443 1444 1447 1449 1450 1454 1456 TO 1458 1479 TO 1482 1484 -
1485 TO 1487 1489 TO 1491 1502 1503 1505 TO 1507 1509 TO 1511 1513 1516 1520 -
1521 TO 1522 1526 TO 1534 1538 1539 1544 TO 1547 1549 1551 1553 TO 1560 1564 -
1566 TO 1574 1576 1577 1581 1585 TO 1587 1589 TO 1594 1598 TO 1601 -
1604 TO 1624 1628 TO 1631 1635 1637 TO 1645 1649 1653 TO 1657 1662 TO 1670 -
1674 TO 1677 1680 1681 1683 TO 1686 1688 1690 1692 TO 1695 1705 TO 1709 1711 -
1712 TO 1714 1716 1717 1719 TO 1722 1734 TO 1738 1746 1747 1760 1761 1768 -
1779 1783 1784 1787 1797 TO 1803 1805 TO 1808 1810 1811 1813 1814 -
1824 TO 1830 1832 TO 1835 1837 1838 1840 TO 1842 1849 1850 1852 TO 1854 1858 -
1862 1866 1870 TO 1873 1875 1882 TO 1885 1892 1897 TO 1899 1903 1905 TO 1913 -
1916 1919 TO 1921 1923 1925 TO 1930 1932 TO 1947

_FIREPROOF 1949 TO 1952 1954 TO 1958 1967 1968 1971 TO 1975 1977 TO 1980 1982 -
1983 TO 1986 1995 TO 1998 2000 TO 2003 2005 TO 2007 2026 2045 TO 2052 2054 -
2055 2061 TO 2068 2070 TO 2076 2087 TO 2093 2095 TO 2098 2100 TO 2102 2104 -
2105 2115 TO 2119 2122 2123 2125 TO 2128 2130 2132 TO 2141 2144 2147 TO 2149 -
2151 2153 TO 2158 2160 TO 2164 2166 TO 2168 2170 TO 2173 2175 TO 2184 2188 -
2189 2193 TO 2202 2204 TO 2214 2218 TO 2231 2235 2239 TO 2248 2252 TO 2254 -
2256 TO 2272 2276 TO 2281 2285 2287 TO 2295 2299 2300 2304 TO 2310 2314 2315 -
2317 TO 2325 2329 2330 2332 TO 2336 2338 2339 2342 2344 2346 TO 2372 2380 -
2388 2389 2393 2394 2408 2418 TO 2446 2453 2460 2467 2475 TO 2487 2491 2497 -
2503 2509 TO 2511 2524 2525 2529 TO 2534 2544 TO 2584 2591 TO 2594 -
2609 TO 2612 2616 TO 2618 2622 TO 2663 2676 TO 2679 2683 TO 2685 -
2687 TO 2724 2726 TO 2733 2735 2737 2739 TO 2743 2749 TO 2753 2776

_BRIDGE 1904 TO 1914 1916 TO 1941 1968 1971 2045 TO 2052 2054 TO 2073 2104 -
2105 2133 TO 2142 2144 TO 2168 2173

_PORTAL 1518 1732 1733 1915 2053 2078 2143 2331 2341

_PIP_SUP 1164 1165 1168 TO 1173 1179 1180 1189 TO 1196 2374 TO 2376 2378 2379 -
2381 TO 2383 2386 2387 2390 TO 2392 2396 TO 2400 2447 TO 2452 2454 TO 2459 -
2461 TO 2466 2468 TO 2473 2488 TO 2490 2492 TO 2496 2498 TO 2502 -
2504 TO 2508

_AIRCOOLERS 1535 TO 1537 1540 TO 1542 1561 TO 1563 1578 TO 1580 1582 TO 1584 -
1595 TO 1597 1625 TO 1627 1632 TO 1634 1646 TO 1648 1650 TO 1652 -
1658 TO 1660 1671 TO 1673 1739 TO 1744 1748 TO 1759 1762 TO 1767 -
1769 TO 1774 1776 TO 1778 1780 TO 1782 1843 TO 1848 1851 1855 TO 1857 1859 -
1860 TO 1861 1863 TO 1865 1867 TO 1869 1874 1876 TO 1881 1886 TO 1891 1893 -
1894 TO 1896 1900 TO 1902 2008 TO 2025 2027 TO 2044 2185 TO 2187 2190 TO 2192 -
2215 TO 2217 2232 TO 2234 2236 TO 2238 2249 TO 2251 2273 TO 2275 -
2282 TO 2284 2296 TO 2298 2301 TO 2303 2311 TO 2313 2326 TO 2328

_20FA-86 1230 TO 1233 1235 TO 1243 1247 1248 1261 TO 1269 1281 1284 1286 1288

_20EA-106AB 1252 TO 1254 1256 1270 TO 1278 1283 1285 1291 TO 1299 -
1332 TO 1334 1336

_20EA-104 1374 TO 1376 1378 1383 TO 1391 1408 1409 1412 1413 1416 1419 1420 -
1423 1424 1438 TO 1440 1442

_20EA-105 2586 2589 2590 2620

ROTTERDAM SITE DEVELOPMENT NESTE

ELEMENT

_PILE_CAP 14 33 58 60 TO 63 98 108 149 204 205 210 211 217 TO 222 234 236 -
 237 240 241 246 247 249 250 381 382 386 TO 388 397 403 404 424 433 531 533 -
 535 537 539 541 543 550 TO 555 585 TO 1002
 _PILE_CAP_S-1 14 33 58 60 108 149 204 205 219 TO 222 241 246 247 249
 _PILE_CAP_S-2 61 TO 63 98 210 211 217 218 234 236 237 240 250 381 382 386
 _PILE_CAP_4-1 387 388 397 403 554 555 592 593 601 602 610 611 619 TO 622
 _PILE_CAP_4-2 404 424 433 531 533 535 537 539 541 543 585 TO 590 594 TO 597 -
 603 TO 608 612 TO 615 623 TO 632
 _PILE_CAP_4-3 550 TO 553 591 598 TO 600 609 616 TO 618 633 TO 636
 _PILE_CAP_3-1 641 TO 656 671 TO 686 701 TO 716 731 TO 746
 _PILE_CAP_2-1 757 TO 772 783 TO 798 813 TO 828 843 TO 858
 _PILE_CAP_2-2 773 TO 782 799 TO 808 829 TO 838 859 TO 868
 _PILE_CAP_1-1 954 TO 957 969 TO 972 984 TO 987 999 TO 1002
 _PILE_CAP_COL 877 TO 953 958 TO 968 973 TO 983 988 TO 998
 _PILE_CAP_FR-1 637 TO 640 667 TO 670 697 TO 700 727 TO 730
 _PILE_CAP_FR-2 809 TO 812 839 TO 842 869 TO 876
 _PILE_CAP_3-2 657 TO 666 687 TO 696 717 TO 726 747 TO 756

JOINT

_PILES 7 8 10 23 26 42 49 60 63 92 101 135 160 169 184 200 222 224 227 278 -
 292 301 302 319 351 379 436 441 444 448 449 463 473 474 476 492 499 534 540 -
 548 551 565 593 600 608 609 611 614 617 618 623 626 649 657 684 686 691 697 -
 716 722 725 730 744 746 775 777 782 784 788 851 884 894 914 943 978 990 997 -
 1006 1035 1076 1082 1083 1092 1132 1149 1161 1162 1171 1172 1195 1206 1244 -
 1248 1279 1302 1307 1315 1317 1362 1392 1414 1420 1430 1437 1444 1466 1473 -
 1482 1487 1508 1511 1526 1541 1543 1544
 _SLAVE_AIRC1 100 127 145 146 153 226 251 260 410 487 635 639 794 870 872 873 -
 944 947 995 1062 1063 1089 1096 TO 1098 1114 1156 1265 1367 1435 1501
 _SLAVE_AIRC2 154 411 419 423 498 561 615 640 642 683 712 795 874 875 877 945 -
 1068 1146 1147 1155 1173 1190 1240 1243
 _SLAVE_AIRC3 435 443 445 508 526 693 703 TO 705 738 759 773 828 878 879 905 -
 913 916 921 1079 1093 1140 1166 1169 1283 1333 1372 1448
 _MASTER_AIRC1 967
 _MASTER_AIRC2 1009
 _MASTER_AIRC3 950
 _MASTER_20FA-86 625
 _SLAVE_20FA-86 296 372 376 377 381 385 574 1010 1306 1334 1385 1472
 _MASTER_20EA-106 1295
 _SLAVE_20EA-106 134 137 229 233 235 290 362 395 571 763 765 1303
 _MASTER_20EA-104 655
 _SLAVE_20EA-104 444 448 463 467 475 641 645 964 976 1087 1165 1433
 _MASTER_20EA-105 886
 _SLAVE_20EA-105 205 671 754 885
 _MASTER_20PK-19 1102
 _SLAVE_20PK-19 414 469 471 648 653 1439 1442 1460

FLOOR

_FLR_STAIR 10 11 1023 1024 1027 TO 1032 1035 1036 1039 TO 1050 1062 TO 1065 -
 1077 TO 1082 1085 1086 1097 TO 1100 1125 1127 1129 1130
 _FLR_107800_1 1097 1099 1101 1105 1107 1115 1123 1126 1131 1139 1147 1149 -
 1151 1154 1156 1176 1181 1182 1198 1202 1206 1208 1210 1212 1214 1216 1217 -
 1219 1221 1223 1245 1249 1258 1301 1303 1305 1307 1310 1312 1314 1316 1318 -
 1320 1323 1324 1326 1337 1345 TO 1348 1350 1353 1355 1357 1359 1361 1364 -
 1366 1367 1379 1394 1395 1397 1399 1400 1402 1404 1406 1410 1414 1417 1421 -

ROTTERDAM SITE DEVELOPMENT NESTE

1425 1427 1429 1431 1443 1448 TO 1451 1461 1466 1468 1470 1472 1474 1477 -
1479 1486 1501 TO 1504 1511 1538 1543 1548 1550 1566 1576 1586 1599 1614 -
1620 1628 1630
_FLR_114900_1 1098 1100 1102 1106 1108 1116 1124 1128 1132 1140 1148 1150 -
1155 1157 1177 1185 1187 1188 1199 1203 1207 1209 1211 1213 1215 1218 1220 -
1222 1228 1259 1279 1280 1302 1304 1306 1308 1311 1313 1315 1317 1319 1322 -
1325 1327 1329 1330 1340 1343 1344 1349 1351 1352 1354 1356 1358 1360 1362 -
1363 1365 1370 1380 1392 1393 1401 1403 1405 1407 1411 1415 1418 1422 1426 -
1428 1430 1432 1435 1436 1444 1458 1462 1465 1467 1469 1471 1473 1475 1476 -
1478 1489 TO 1491 1516 1539 1544 1549 1551 1567 1577 1587 1600 1615 1618 -
1621 1629 1631
_FLR_119700 1453 1454 1456 1457 1480 TO 1482 1484 1485 1492 TO 1495 -
1505 TO 1507 1509 1510 1522 1547 1568 1581 1585 1598 1622 1635 1656 1675 -
1677 1681 1684 TO 1686 1688 1690 1697 1699 TO 1703 1707 1709 1712 TO 1714 -
1716 1717 1724 1726 TO 1730 1735 1738 1747 1760 1768 1779 1783 1789 1791 -
1792 TO 1795 1801 1803 1806 TO 1808 1810 1811 1816 1818 TO 1822 1828 1830 -
1833 TO 1835 1837 1838 1842 1850 1858 1862 1866 1875 1882 1892 1903 1945 -
1947 1950 TO 1952 1954 1955 1960 1962 TO 1966 1973 1975 1978 TO 1980 1982 -
1983 1988 1990 TO 1994 1996 1998 2001 TO 2003 2005 2006 2080 2082 TO 2086 -
2091 2093 2096 TO 2098 2100 2101 2108 2110 TO 2114 2119 2123 2126 TO 2128 -
2130 2132 2172 2198 2222 2235 2248 2272 2285 2308 2330 2332 2334 2336 2339 -
2373 2377 2385 2395 2401 2402 2445 2446 2453 2460 2467 2475 2476 2487 2491 -
2497 2503 2509 2510
_FLR_106300 2218 2380 2384 2477 TO 2480 2525 TO 2529 2547 2551 2555 2559 2563 -
2570 2574 2575 2579 2582 2591 2595 2599 2602 2605 2609 2613 2616 2622 2626 -
2630 2634 2638 2642 2646 2650 2654 2657 2660 2664 2668 2672 2676 2680 2683 -
2693 2701 2705 2709 2713 2721 2735 2740 2743 2745 TO 2747 2749 TO 2753
_FLR_109100 1932 1935 1938 1941 1969 1970 2068 2072 2075 2103 2106 2160 2163 -
2166 2173 2189 2194 2200 2202 2219 2229 2239 2252 2266 2270 2276 2280 2299 -
2304 2309 2314 2342 2346 2348 2350 2352 2353 2355 2357 2359 2361 2363 2365 -
2367 2369 2371 2409 2412 2415 2418 2420 2422 2424 2426 2427 2429 2431 2433 -
2435 2437 2439 2441 2443 2483 2485 2512 2515 2518 2521 2532 2535 2538 2541 -
2544 2548 2552 2556 2560 2564 2567 2571 2576 2580 2583 2592 2596 2600 2603 -
2606 2610 2614 2617 2623 2627 2631 2635 2639 2643 2647 2651 2655 2658 2661 -
2665 2669 2673 2677 2681 2684 2694 2702 2706 2710 2714 2722 2737 2741
_FLR_112300 2220 2230 2240 2253 2269 2389 2394 2408 2410 2413 2416 2482 2511 -
2513 2516 2519 2522 2533 2536 2539 2542 2545 2549 2553 2557 2561 2565 2568 -
2572 2577 2581 2584 2585 2587 2593 2597 2607 2611 2615 2618 2619 2621 2624 -
2628 2632 2636 2640 2644 2648 2652 2656 2659 2662 2666 2670 2674 2678 2682 -
2685 2695 2703 2707 2711 2715 2723 2739 2742
_FLR_115700 2188 2193 2199 2201 2221 2231 2241 2254 2267 2271 2277 2281 2300 -
2305 2310 2315 2344 2347 2349 2351 2354 2356 2358 2360 2362 2364 2366 2368 -
2370 2372 2411 2414 2417 2419 2421 2423 2425 2428 2430 2432 2434 2436 2438 -
2440 2442 2444 2484 2486 2514 2517 2520 2523 2534 2537 2540 2543 2546 2550 -
2554 2558 2562 2566 2569 2573 2578 2594 2598 2601 2604 2608 2612 2625 2629 -
2633 2637 2641 2645 2649 2653 2663 2667 2671 2675 2679 2696 2704 2708 2712 -
2716 2724 2776
_FLR_WLK 1617 1693 1695 1705 1720 1722 1761 1797 1799 1814 1824 1826 1873 -
1956 1958 1967 1984 1986 2026 2087 2089 2102 2115 2117 2267 2776
_FLR_BRG 1932 1935 1938 1941 1969 1970 2068 2072 2075 2103 2106 2160 2163 -
2166 2173
_FLR_107800_2 2 1025 1027 1038 1043 1054 1066 1077 1087 1090 1174 1176 1183 -
1197 1198 1234 1257 1258 1300 1337 1339 1341 1367 1369 1371 1379 1381 1433 -

ROTTERDAM SITE DEVELOPMENT NESTE

1443 1446 1452 1486 1488 1499 1511 1514 1524 1691 1692 1704 1718 1719 1731 -
1786 1787 1796 1812 1813 1823 1839 1840 1940
_FLR_107800_3 1055 TO 1061 1067 TO 1070 1072 TO 1074 1076 1126 1131 1139 1147 -
1149 1151 1154 1156
_FLR_114900_2 1167 1177 1178 1184 TO 1186 1228 1229 1244 1259 1260 1328 1338 -
1340 1342 1368 1370 1372 1380 1382 1434 1444 1447 1455 1487 1489 1500 1513 -
1516 1649
_FLR_114900_3 1520 1539 1544 1549 1551 1676 1680 1683 1696 1698 1706 1708 -
1711 1723 1725 1734 1737 1746 1788 1790 1800 1802 1805 1815 1817 1827 1829 -
1832 1841 1849 1944 1946 1949 1959 1961 1972 1974 1977 1987 1989 1995 1997 -
2000 2079 2081 2090 2092 2095 2107 2109 2118 2122 2125 2170 2197
GEOMETRY
_ALIGN_STA 1 2 4 TO 13 1003 TO 1016 1018 TO 1024
_ALIGN_4 1089 1090 1092 TO 1108 1110 TO 1140 1142 TO 1157 1159 TO 1173
_ALIGN_3 1519 TO 1524 1526 TO 1534 1538 1539 1543 TO 1551 1553 TO 1560 1564 -
1565 TO 1577 1581 1585 TO 1594 1598 TO 1602 1604 TO 1624 1628 TO 1631 1635 -
1637 TO 1645 1649 1653 TO 1657 1662 TO 1670 1674 1675
_ALIGN_2 2133 TO 2173 2175 TO 2202 2204 TO 2254 2256 TO 2285 2287 TO 2315 -
2317 TO 2330 2776
_ALIGN_1 2687 TO 2724 2726 TO 2733 2735 2737 2739 TO 2742
_ALIGN_E 4 TO 9 1027 1028 1043 1044 1051 1052 1077 1078 1092 TO 1096 1176 -
1198 1199 1258 1337 1349 1367 1379 1443 1458 1486 1511 1526 TO 1534 1680 -
1681 1692 1708 1709 1719 1736 TO 1738 1784 1787 1802 1803 1813 1829 1830 -
1840 1942 1943 1946 1947 1974 1975 1997 1998 2007 2074 TO 2076 2092 2093 -
2122 2123 2175 TO 2184 2333 2374 TO 2376 2403 2446 TO 2452 2488 TO 2490
_ALIGN_D 1110 TO 1114 1181 1187 1224 1226 1245 1246 1251 1279 1282 1289 1309 -
1329 1331 1343 1346 1373 1392 1395 1396 1435 1437 1449 1490 1502 -
1553 TO 1560 1683 1684 1711 1712 1746 1747 1805 1806 1832 1833 1852 TO 1854 -
1949 1950 1977 1978 2000 2001 2095 2096 2125 2126 2204 TO 2214 2334 2353 -
2354 2380 TO 2383 2404 2408 2453 TO 2459 2483 2484 2494 TO 2496 2525 2532 -
2533 TO 2534 2591 TO 2594 2660 TO 2663 2687 TO 2692 2743
_ALIGN_C 1070 1142 TO 1146 1188 1216 1255 1280 1287 1330 1335 1344 1347 1377 -
1393 1397 1398 1436 1441 1450 1481 1491 1496 1503 1506 1604 TO 1613 1685 -
1693 1713 1720 1760 1797 1807 1824 1834 1870 TO 1872 1951 1956 1979 1984 -
2002 2087 2097 2115 2127 2256 TO 2265 2335 2355 2356 2388 TO 2392 2405 2460 -
2461 TO 2466 2485 2486 2500 TO 2502 2511 2529 2544 TO 2546 2609 TO 2612 2676 -
2677 TO 2679 2726 TO 2733 2749
_ALIGN_B 1076 1159 TO 1165 1177 1179 1185 1189 1190 1223 1228 1259 1340 1366 -
1370 1380 1444 1479 1482 1489 1497 1507 1516 1637 TO 1645 1686 1714 1768 -
1808 1835 1883 TO 1885 1952 1980 2003 2098 2128 2287 TO 2295 2336 2363 2364 -
2406 2467
_ALIGN_A 1484 1498 1509 1662 TO 1670 1688 1716 1779 1810 1837 1897 TO 1899 -
1954 1982 2005 2100 2130 2317 TO 2325 2338 2371 2372 2407 2475
_EL_107800 2 10 1007 1010 1025 TO 1027 1029 1037 TO 1039 1043 1045 -
1054 TO 1062 1066 TO 1077 1079 1087 1088 1090 1097 1099 1101 1105 1107 1115 -
1123 1126 1131 1139 1147 1149 1151 1154 1156 1174 TO 1176 1181 TO 1183 1197 -
1198 1200 1202 1204 1206 1208 1210 1212 1214 1216 1217 1219 1221 1223 1234 -
1245 1249 1257 1258 1300 1301 1303 1305 1307 1310 1312 1314 1316 1318 1320 -
1323 1324 1326 1337 1339 1341 1345 TO 1348 1350 1353 1355 1357 1359 1361 -
1364 1366 1367 1369 1371 1379 1381 1394 1395 1397 1399 1400 1402 1404 1406 -
1410 1414 1417 1421 1425 1427 1429 1431 1433 1443 1446 1448 TO 1452 1459 -
1461 1463 1466 1468 1470 1472 1474 1477 1479 1486 1488 1499 1501 TO 1504 -
1511 1514 1515 1524 1538 1543 1548 1550 1566 1576 1586 1599 1614 1620 1628 -

ROTTERDAM SITE DEVELOPMENT NESTE

1630 1654 1691 1692 1704 1718 1719 1731 1786 1787 1796 1812 1813 1823 1839 -
1840 1852 1870 1883 1897 1906 1911 1919 1923 1927 1933 1937 1940 2045 2047 -
2049 2051 2054 2057 2059 2061 2063 2065 2067 2070 2071 2073 2074 2134 2139 -
2147 2151 2155 2161 2167
EL 106300 2195 2218 2228 2243 2268 2278 2306 2380 2384 2388 2393 -
2477 TO 2481 2525 TO 2530 2547 2551 2555 2559 2563 2570 2574 2575 2579 2582 -
2591 2595 2599 2602 2605 2609 2613 2616 2622 2626 2630 2634 2638 2642 2646 -
2650 2654 2657 2660 2664 2668 2672 2676 2680 2683 2693 2701 2705 2709 2713 -
2721 2735 2740 2743 TO 2753
EL 109100 1908 1910 1913 1921 1925 1929 1932 1935 1938 1941 1968 TO 1971 -
2046 2048 2050 2052 2055 2058 2060 2062 2064 2066 2068 2072 2075 -
2103 TO 2106 2136 2138 2141 2149 2153 2157 2160 2163 2166 2173 2189 2194 -
2200 2202 2219 2229 2239 2252 2266 2270 2276 2280 2299 2304 2309 2314 2342 -
2343 2346 2348 2350 2352 2353 2355 2357 2359 2361 2363 2365 2367 2369 2371 -
2409 2412 2415 2418 2420 2422 2424 2426 2427 2429 2431 2433 2435 2437 2439 -
2441 2443 2483 2485 2512 2515 2518 2521 2524 2532 2535 2538 2541 2544 2548 -
2552 2556 2560 2564 2567 2571 2576 2580 2583 2592 2596 2600 2603 2606 2610 -
2614 2617 2623 2627 2631 2635 2639 2643 2647 2651 2655 2658 2661 2665 2669 -
2673 2677 2681 2684 2694 2702 2706 2710 2714 2722 2737 2741
EL 112300 2196 2220 2230 2240 2253 2269 2279 2307 2389 2394 2408 2410 2413 -
2416 2482 2511 2513 2516 2519 2522 2531 2533 2536 2539 2542 2545 2549 2553 -
2557 2561 2565 2568 2572 2577 2581 2584 TO 2587 2589 2590 2593 2597 2607 -
2611 2615 2618 TO 2621 2624 2628 2632 2636 2640 2644 2648 2652 2656 2659 -
2662 2666 2670 2674 2678 2682 2685 2695 2703 2707 2711 2715 2723 2739 2742
EL 114900 11 1008 1012 1028 1030 1040 1044 1046 1053 1063 1078 1080 1098 -
1100 1102 1106 1108 1116 1124 1128 1132 1140 1148 1150 1155 1157 1167 1177 -
1178 1184 TO 1188 1199 1201 1203 1205 1207 1209 1211 1213 1215 1218 1220 -
1222 1228 1229 1244 1259 1260 1279 1280 1302 1304 1306 1308 1311 1313 1315 -
1317 1319 1322 1325 1327 TO 1330 1338 1340 1342 TO 1344 1349 1351 1352 1354 -
1356 1358 1360 1362 1363 1365 1368 1370 1372 1380 1382 1392 1393 1401 1403 -
1405 1407 1411 1415 1418 1422 1426 1428 1430 1432 1434 TO 1436 1444 1445 -
1447 1455 1458 1460 1462 1464 1465 1467 1469 1471 1473 1475 1476 1478 1487 -
1489 TO 1491 1500 1512 1513 1516 1520 1539 1544 1549 1551 1567 1577 1587 -
1600 1615 1618 1621 1629 1631 1649 1657 1676 1678 1680 1682 1683 1696 1698 -
1706 1708 1710 1711 1723 1725 1734 1737 1745 1746 1788 1790 1800 1802 1804 -
1805 1815 1817 1827 1829 1831 1832 1841 1849 1944 1946 1948 1949 1959 1961 -
1972 1974 1976 1977 1987 1989 1995 1997 1999 2000 2079 2081 2090 2092 2094 -
2095 2107 2109 2118 2120 2122 2124 2125 2170 2197
EL 115700 1617 1693 TO 1695 1705 1720 TO 1722 1761 1797 TO 1799 1814 1824 -
1825 TO 1826 1873 1956 TO 1958 1967 1984 TO 1986 2026 2087 TO 2089 2102 2115 -
2116 TO 2117 2188 2193 2199 2201 2221 2231 2241 2254 2267 2271 2277 2281 2300 -
2305 2310 2315 2344 2347 2349 2351 2354 2356 2358 2360 2362 2364 2366 2368 -
2370 2372 2411 2414 2417 2419 2421 2423 2425 2428 2430 2432 2434 2436 2438 -
2440 2442 2444 2484 2486 2514 2517 2520 2523 2534 2537 2540 2543 2546 2550 -
2554 2558 2562 2566 2569 2573 2578 2594 2598 2601 2604 2608 2612 2625 2629 -
2633 2637 2641 2645 2649 2653 2663 2667 2671 2675 2679 2696 2704 2708 2712 -
2716 2724 2776
EL 119700 1453 1454 1456 1457 1480 TO 1485 1492 TO 1495 1505 TO 1510 1522 -
1547 1568 1581 1585 1598 1622 1635 1656 1675 1677 1679 1681 1684 TO 1690 -
1697 1699 TO 1703 1707 1709 1712 TO 1717 1724 1726 TO 1730 1735 1738 1747 -
1760 1768 1775 1779 1783 1789 1791 TO 1795 1801 1803 1806 TO 1811 1816 1818 -
1819 TO 1822 1828 1830 1833 TO 1838 1842 1850 1858 1862 1866 1875 1882 1892 -
1903 1945 1947 1950 TO 1955 1960 1962 TO 1966 1973 1975 1978 TO 1983 1988 -

ROTTERDAM SITE DEVELOPMENT NESTE

1990 TO 1994 1996 1998 2001 TO 2006 2080 2082 TO 2086 2091 2093 2096 TO 2101 -
2108 2110 TO 2114 2119 2121 2123 2126 TO 2132 2172 2198 2222 2235 2248 2272 -
2285 2308 2330 2332 TO 2339 2373 2377 2385 2395 2401 2402 2445 2446 2453 -
2460 2467 2474 TO 2476 2487 2491 2497 2503 2509 2510

END GROUP DEFINITION

*

*

*

ELEMENT PROPERTY

14 33 58 60 TO 63 98 108 149 204 205 210 211 217 TO 222 234 236 237 240 241 -
246 247 249 250 381 382 386 TO 388 397 403 404 424 433 531 533 535 537 539 -
541 543 550 TO 555 585 TO 1002 THICKNESS 0.8

DEFINE MATERIAL START

ISOTROPIC CONCRETE

* fck = C30/37 N/mm²

E 3.28366e+07

POISSON 0.2

DENSITY 25

ALPHA 1e-05

DAMP 0.05

*

ISOTROPIC STEEL

* S275J0 fy=275 N/mm²

E 2.1e+08

POISSON 0.3

DENSITY 78.5

ALPHA 1.2e-05

DAMP 0.03

*

ISOTROPIC RIGID

E 2e+08

POISSON 0.3

DENSITY 1e-20

ALPHA 1.2e-06

DAMP 0.3

G 5e+08

*

ISOTROPIC CONCRETE

* CONCRETE FOR FOUND SLAB, TO EXCLUDE IT FROM DYNAMIC MASS

E 3.28366e+07

POISSON 0.2

DENSITY 1e-05

ALPHA 1e-05

DAMP 0.05

G 1.375e+07

*

END DEFINE MATERIAL

MEMBER PROPERTY EUROPEAN

2 10 11 1004 1006 TO 1008 1010 1012 1014 1016 1023 TO 1025 1030 1031 1036 -
1046 1047 1050 1054 TO 1061 1070 1076 1080 1081 1086 1087 1090 1097 TO 1108 -
1115 TO 1118 1123 TO 1132 1137 TO 1140 1147 TO 1157 1167 1174 1178 1182 1186 -
1197 1249 1257 1260 1301 TO 1308 1310 TO 1317 1319 1322 1325 1327 1338 1339 -
1345 1348 1368 1369 1381 1382 1394 1399 TO 1407 1410 1411 1414 1415 1417 -

ROTTERDAM SITE DEVELOPMENT NESTE

1418 1421 1422 1425 TO 1432 1446 TO 1448 1451 1453 1454 1456 1457 -
 1480 TO 1482 1484 1485 1487 1488 1501 1504 TO 1507 1509 1510 1513 1514 1520 -
 1522 1524 1538 1539 1543 1545 1546 1548 TO 1551 1566 1567 1569 1572 1576 -
 1577 1586 1587 1589 1592 1599 1600 1614 1615 1618 TO 1621 1623 1624 1628 -
 1629 TO 1631 1649 1653 TO 1655 1657 1675 TO 1677 1690 1691 1693 1695 1707 -
 1717 1718 1720 1722 1735 1783 1786 1797 1799 1801 1811 1812 1824 1826 1828 -
 1838 1839 1942 1943 1945 1955 1956 1958 1973 1983 1984 1986 1996 2006 2075 -
 2087 2089 2091 2101 2115 2117 2119 2132 2170 2172 2188 2189 2195 TO 2197 -
 2218 TO 2221 2228 TO 2231 2239 TO 2241 2243 2252 TO 2254 2266 TO 2269 2271 -
 2278 2299 2300 2306 2307 2309 2310 2330 2332 TO 2336 2338 2339 2363 2371 -
 2393 2427 2437 2445 2446 2453 2460 2467 2475 TO 2480 2487 2491 2497 2503 -
 2509 2510 2530 2549 2553 2557 2561 2565 2568 2572 2577 2585 2587 2616 2624 -
 2628 2632 2636 2640 2644 2648 2652 2683 2693 TO 2696 2701 TO 2716 -
 2721 TO 2724 TABLE ST HE280A
 2776 TABLE ST HE280A
 2735 TABLE ST HE280A
 2740 TABLE ST HE280A
 2743 2749 TO 2751 TABLE ST HE280A
 1544 1706 1734 1800 1827 1944 1972 1995 2090 2118 2193 2199 -
 2201 TABLE ST HE280A
 2194 2200 2202 2342 2346 2418 2420 2422 2424 2426 TABLE ST HE280A
 1229 2270 2276 2277 2279 TO 2281 2304 2305 2314 2315 2344 2364 2372 2394 2419 -
 2421 2423 2425 2428 TO 2436 2438 TO 2444 2524 2531 2617 TO 2619 2621 2684 -
 2685 2737 2739 2741 2742 2752 2753 TABLE ST HE280A
 MEMBER PROPERTY EUROPEAN
 3 1017 1091 1109 1141 1158 1517 1525 1552 1603 1636 1661 2174 2203 2255 2286 -
 2316 2340 2686 2725 PRIS YD 0.8 ZD 0.8
 MEMBER PROPERTY EUROPEAN
 1616 1617 1694 1705 1721 1761 1798 1814 1825 1873 1957 1967 1985 2026 2088 -
 2102 2116 TABLE ST L90X90X9
 MEMBER PROPERTY EUROPEAN
 2588 PRIS YD 3.5
 2687 TO 2692 2726 TO 2733 TABLE ST HE400B
 1526 TO 1534 1553 TO 1560 1604 TO 1613 1637 TO 1645 1662 TO 1670 2175 TO 2184 -
 2204 TO 2214 2256 TO 2265 2287 TO 2295 2317 TO 2325 TABLE ST HE550B
 1496 TO 1498 1519 1521 1674 1915 2143 2169 2171 2329 2403 TO 2406 -
 2407 TABLE ST HE200A
 1176 1177 1181 1185 1187 1188 1198 1199 1216 1223 1228 1245 1258 1259 1279 -
 1280 1329 1330 1337 1340 1343 1344 1346 1347 1349 1366 1367 1370 1379 1380 -
 1392 1393 1395 1397 1435 1436 1443 1444 1449 1450 1458 1479 1486 -
 1489 TO 1491 1502 1503 1511 1516 1680 1681 1683 TO 1686 1688 1692 1708 1709 -
 1711 TO 1714 1716 1719 1733 1736 TO 1738 1746 1747 1760 1768 1779 1784 1787 -
 1802 1803 1805 TO 1808 1810 1813 1829 1830 1832 TO 1835 1837 1840 -
 1852 TO 1854 1870 TO 1872 1883 TO 1885 1897 TO 1899 1946 1947 1949 TO 1952 -
 1954 1974 1975 1977 TO 1980 1982 1997 1998 2000 TO 2003 2005 2007 2053 2074 -
 2076 2092 2093 2095 TO 2098 2100 2122 2123 2125 TO 2128 2130 -
 2331 TABLE ST HE600A
 2353 TO 2356 2380 2388 2389 2408 2483 TO 2486 2511 2525 2529 2532 TO 2534 -
 2544 TO 2546 2591 TO 2594 2609 TO 2612 2660 TO 2663 2676 TO 2678 -
 2679 TABLE ST HE450A
 2223 2242 TABLE ST HE320A
 1092 TO 1096 1110 TO 1114 1142 TO 1146 1159 TO 1163 TABLE ST HE450B
 1119 TO 1122 1133 TO 1136 1564 1565 1570 1571 1573 TO 1575 1588 1590 1591 -

ROTTERDAM SITE DEVELOPMENT NESTE

1593 1594 1601 1602 2224 TO 2227 2244 TO 2247 TABLE ST HE240A
1904 1906 1908 1910 1911 1913 1914 1917 TO 1919 1921 1923 1925 1927 1929 1931 -
1932 TO 1933 1935 1937 1938 1940 1941 1968 1971 2056 2069 2104 2105 2134 2136 -
2138 2139 2141 2142 2145 TO 2147 2149 2151 2153 2155 2157 2159 TO 2161 2163 -
2165 TO 2167 2173 TABLE ST HE200A
1907 1912 1920 1924 1928 1934 1939 1969 1970 2047 2048 2051 2052 2057 2058 -
2061 2062 2065 2066 2070 2073 2103 2106 2135 2140 2148 2152 2156 2162 -
2168 TABLE ST HE160A
2378 2379 2386 2387 2396 2397 2448 2450 2452 2455 2457 2459 2462 2464 2466 -
2469 2471 2473 2492 2493 2498 2499 2504 2505 TABLE ST HE240A
2447 2449 2451 2454 2456 2458 2461 2463 2465 2468 2470 -
2472 TABLE ST L110X110X10
1518 2341 TABLE ST HE550B
1224 TO 1227 1246 1250 1251 1255 1282 1287 1289 1290 1309 1321 1331 1335 1373 -
1377 1396 1398 1437 1441 2374 TO 2376 2381 TO 2383 2390 TO 2392 2398 TO 2400 -
2488 TO 2490 2494 TO 2496 2500 TO 2502 2506 TO 2508 TABLE ST HE240A
1732 2078 TABLE ST HE300A
1905 1909 1916 1922 1926 1930 1936 2045 2046 2049 2050 2054 2055 2059 2060 -
2063 2064 2067 2068 2071 2072 2133 2137 2144 2150 2154 2158 -
2164 TABLE ST HE200A
4 TO 9 1018 TO 1022 TABLE ST HE240A
1027 TO 1029 1032 1035 1037 1043 TO 1045 1048 1049 1051 TO 1053 1067 1077 -
1078 TO 1079 1082 1085 TABLE ST HE200A
MEMBER PROPERTY EUROPEAN
1230 TO 1233 1235 TO 1243 1247 1248 1252 TO 1254 1256 1261 TO 1278 1281 1283 -
1284 TO 1286 1288 1291 TO 1299 1332 TO 1334 1336 1374 TO 1376 1378 -
1383 TO 1391 1408 1409 1412 1413 1416 1419 1420 1423 1424 1438 TO 1440 1442 -
1535 TO 1537 1540 TO 1542 1561 TO 1563 1578 TO 1580 1582 TO 1584 -
1595 TO 1597 1625 TO 1627 1632 TO 1634 1646 TO 1648 1650 TO 1652 -
1658 TO 1660 1671 TO 1673 1739 TO 1744 1748 TO 1759 1762 TO 1767 -
1769 TO 1774 1776 TO 1778 1780 TO 1782 1843 TO 1848 1851 1855 TO 1857 1859 -
1860 TO 1861 1863 TO 1865 1867 TO 1869 1874 1876 TO 1881 1886 TO 1891 1893 -
1894 TO 1896 1900 TO 1902 2008 TO 2025 2027 TO 2044 2185 TO 2187 2190 TO 2192 -
2215 TO 2217 2232 TO 2234 2236 TO 2238 2249 TO 2251 2273 TO 2275 -
2282 TO 2284 2296 TO 2298 2301 TO 2303 2311 TO 2313 2326 TO 2328 2586 2589 -
2590 2620 2754 TO 2775 PRIS YD 0.2
12 13 1003 1005 1009 1011 1013 1015 2697 TO 2700 2717 TO 2720 TABLE ST HE180A
1 1089 1166 1523 2345 2734 2736 2738 TABLE ST HE140A
1038 TO 1042 1062 TO 1066 1068 1069 1072 TO 1074 1183 1184 1234 1244 1300 -
1328 1341 1342 1371 1372 1433 1434 1452 1455 1499 1500 1704 1731 1796 1823 -
2347 TO 2352 2357 TO 2362 2365 TO 2370 2595 TO 2598 2605 TO 2608 -
2613 TO 2615 2664 TO 2675 2680 TO 2682 2745 TO 2747 TABLE ST IPE140
1547 1568 1581 1585 1598 1622 1635 1656 1850 1858 1862 1866 1875 1882 1892 -
2198 2222 2235 2248 2272 2285 2308 TABLE ST HE360A
1492 TO 1495 1696 TO 1703 1723 TO 1730 1788 TO 1795 1815 TO 1822 1841 1842 -
1849 1903 1959 TO 1966 1987 TO 1994 2079 TO 2086 2107 TO 2114 2373 2377 2385 -
2395 2401 2402 TABLE ST HE180A
1164 1165 1171 TO 1173 1179 1180 1189 1190 1194 TO 1196 2384 2481 2482 2547 -
2548 2550 TO 2552 2554 TO 2556 2558 TO 2560 2562 TO 2564 2566 2567 -
2569 TO 2571 2573 TO 2576 2578 TO 2584 2599 TO 2604 2622 2623 2625 TO 2627 -
2629 TO 2631 2633 TO 2635 2637 TO 2639 2641 TO 2643 2645 TO 2647 -
2649 TO 2651 2653 TO 2659 TABLE ST HE200A
2512 TO 2523 TABLE ST HE240A

ROTTERDAM SITE DEVELOPMENT NESTE

1026 1033 1034 1071 1075 1083 1084 1088 1168 TO 1170 1175 1191 TO 1193 1445 -
 1512 1515 1678 1679 1689 2120 2121 2131 2343 2744 2748 TABLE ST L80X80X8
 1200 1201 1204 1205 1459 1460 1463 1464 1483 1508 1682 1687 1710 1715 1745 -
 1775 1804 1809 1831 1836 1948 1953 1976 1981 1999 2004 2094 2099 2124 2129 -
 2337 2474 TABLE D UPN160 SP 0.01
 1202 1203 1206 TO 1215 1217 TO 1222 1350 TO 1365 1461 1462 1465 TO 1478 2409 -
 2410 TO 2417 2526 TO 2528 2535 TO 2543 TABLE ST IPE200
 1318 1320 1323 1324 1326 TABLE ST HE340A

CONSTANTS

BETA 90 MEMB 1518 2341 2374 TO 2376 2381 TO 2383 2390 TO 2392 2398 TO 2400 -
 2488 TO 2490 2494 TO 2496 2500 TO 2502 2506 TO 2508
 MATERIAL STEEL MEMB 1 2 4 TO 13 1003 TO 1016 1018 TO 1090 1092 TO 1108 1110 -
 1111 TO 1140 1142 TO 1157 1159 TO 1229 1234 1244 TO 1246 1249 TO 1251 1255 -
 1257 TO 1260 1279 1280 1282 1287 1289 1290 1300 TO 1331 1335 1337 TO 1373 -
 1377 1379 TO 1382 1392 TO 1407 1410 1411 1414 1415 1417 1418 1421 1422 1425 -
 1426 TO 1437 1441 1443 TO 1516 1518 TO 1524 1526 TO 1534 1538 1539 -
 1543 TO 1551 1553 TO 1560 1564 TO 1577 1581 1585 TO 1594 1598 TO 1602 1604 -
 1605 TO 1624 1628 TO 1631 1635 1637 TO 1645 1649 1653 TO 1657 1662 TO 1670 -
 1674 TO 1738 1745 TO 1747 1760 1761 1768 1775 1779 1783 1784 1786 TO 1842 -
 1849 1850 1852 TO 1854 1858 1862 1866 1870 TO 1873 1875 1882 TO 1885 1892 -
 1897 TO 1899 1903 TO 2007 2026 2045 TO 2076 2078 TO 2173 2175 TO 2184 2188 -
 2189 2193 TO 2202 2204 TO 2214 2218 TO 2231 2235 2239 TO 2248 2252 TO 2254 -
 2256 TO 2272 2276 TO 2281 2285 2287 TO 2295 2299 2300 2304 TO 2310 2314 2315 -
 2317 TO 2325 2329 TO 2339 2341 TO 2585 2587 2591 TO 2619 2621 TO 2685 2687 -
 2688 TO 2724 2726 TO 2753 2776

MATERIAL CONCRETE MEMB 3 14 33 58 60 TO 63 98 108 149 204 205 210 211 217 -
 218 TO 222 234 236 237 240 241 246 247 249 250 381 382 386 TO 388 397 403 -
 404 424 433 531 533 535 537 539 541 543 550 TO 555 585 TO 1002 1017 1091 -
 1109 1141 1158 1517 1525 1552 1603 1636 1661 2174 2203 2255 2286 2316 2340 -
 2588 2686 2725

MATERIAL RIGID MEMB 1230 TO 1233 1235 TO 1243 1247 1248 1252 TO 1254 1256 -
 1261 TO 1278 1281 1283 TO 1286 1288 1291 TO 1299 1332 TO 1334 1336 -
 1374 TO 1376 1378 1383 TO 1391 1408 1409 1412 1413 1416 1419 1420 1423 1424 -
 1438 TO 1440 1442 1535 TO 1537 1540 TO 1542 1561 TO 1563 1578 TO 1580 1582 -
 1583 TO 1584 1595 TO 1597 1625 TO 1627 1632 TO 1634 1646 TO 1648 1650 TO 1652 -
 1658 TO 1660 1671 TO 1673 1739 TO 1744 1748 TO 1759 1762 TO 1767 -
 1769 TO 1774 1776 TO 1778 1780 TO 1782 1843 TO 1848 1851 1855 TO 1857 1859 -
 1860 TO 1861 1863 TO 1865 1867 TO 1869 1874 1876 TO 1881 1886 TO 1891 1893 -
 1894 TO 1896 1900 TO 1902 2008 TO 2025 2027 TO 2044 2185 TO 2187 2190 TO 2192 -
 2215 TO 2217 2232 TO 2234 2236 TO 2238 2249 TO 2251 2273 TO 2275 -
 2282 TO 2284 2296 TO 2298 2301 TO 2303 2311 TO 2313 2326 TO 2328 2586 2589 -
 2590 2620 2754 TO 2775

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SUPPORTS

12 14 17 19 54 56 59 61 121 123 126 128 130 132 134 137 139 222 224 227 229 -
 231 233 235 238 240 461 463 465 467 469 471 473 475 478 480 482 484 486 641 -
 643 645 647 649 651 653 655 658 660 662 664 666 892 894 896 898 900 902 904 -
 906 909 911 913 915 917 1095 1097 1099 1101 1103 1105 1107 1109 1112 1114 -
 1116 1118 1120 1449 1451 1525 1527 FIXED BUT MX MY MZ KFY 353200
 1272 1274 1277 1279 1281 1338 1340 1343 1345 1347 1366 1368 1371 1373 1375 -
 1437 1439 1442 1444 1446 1513 1515 1518 1520 -
 1522 FIXED BUT MX MY MZ KFY 342200

ROTTERDAM SITE DEVELOPMENT NESTE

419 421 631 633 1090 1092 1177 1179 FIXED BUT MX MY MZ KFY 382000
MEMBER RELEASE
1 12 13 1003 1005 1009 1011 1013 1015 1089 1119 TO 1122 1133 TO 1136 1521 -
1523 1564 1570 1571 1573 1574 1590 1591 1593 1594 1601 1674 2171 -
2223 TO 2227 2242 2244 TO 2247 2329 2697 TO 2700 2717 TO 2720 START MY MZ
1 12 13 1003 1005 1009 1011 1013 1015 1089 1119 TO 1122 1133 TO 1136 1521 -
1523 1564 1570 1571 1573 1574 1590 1591 1593 1594 1601 1674 2171 -
2223 TO 2227 2242 2244 TO 2247 2329 2697 TO 2700 2717 TO 2720 END MY MZ
1940 1941 2167 2173 END MY MZ
10 11 1004 1006 1097 1098 1103 1104 1115 TO 1118 1147 1148 1152 1153 1538 -
1539 1545 TO 1547 1566 TO 1569 1572 1614 1615 1618 1622 TO 1624 1649 2188 -
2189 2195 TO 2198 2218 TO 2222 2266 TO 2269 2272 2299 2300 2306 2307 2693 -
2694 TO 2696 START MY MZ
1010 1012 1014 1016 1023 1103 1104 1107 1108 1137 TO 1140 1152 1153 1156 1157 -
1545 TO 1547 1550 1551 1589 1592 1598 TO 1600 1623 1624 1630 1631 1635 2195 -
2196 TO 2198 2201 2202 2243 2248 2252 TO 2254 2278 TO 2281 2285 2306 2307 -
2314 2315 2426 2721 TO 2724 END MY MZ
1907 1912 1920 1928 1934 1939 1968 1971 2047 2048 2051 2052 2061 2062 2065 -
2066 2070 2073 2135 2140 2148 2156 2162 2168 START MY MZ
1907 1912 1920 1928 1934 1939 2047 2048 2051 2052 2061 2062 2065 2066 2070 -
2073 2104 2105 2135 2140 2148 2156 2162 2168 END MY MZ
1301 1302 1310 1311 1318 1319 1400 1401 1410 1411 1425 1426 1849 1850 1858 -
1875 1892 2477 2547 TO 2550 2622 TO 2625 START MY MZ
1307 1308 1316 1317 1326 1327 1406 1407 1421 1422 1431 1432 1849 1850 1866 -
1882 1892 2480 2575 TO 2578 2650 TO 2653 END MY MZ
1616 1617 1694 1705 1721 1761 1798 1814 1825 1873 1957 1967 1985 2026 2088 -
2102 2116 START MY MZ
1616 1617 1694 1705 1721 1761 1798 1814 1825 1873 1957 1967 1985 2026 2088 -
2102 2116 END MY MZ
4 1018 1092 1110 1142 1159 1526 1553 1604 2175 2204 2256 2687 2726 START MY
1909 1916 1926 1930 1936 2137 2144 2154 2158 2164 START MY MZ
1909 1916 1926 1930 1936 2137 2144 2154 2158 2164 END MY MZ
1200 1201 1459 1460 START MY MZ
1200 1201 1459 1460 END MY MZ
1575 1588 START MY MZ
1565 1575 1588 1602 END MY MZ
1924 2057 2058 2152 START MY MZ
1924 2057 2058 2152 END MY MZ
1915 2143 END MX MY MZ
2403 TO 2407 START MY MZ
2403 TO 2407 END MY MZ
2374 2381 2390 2398 2488 2494 2500 2506 START MY MZ
2447 TO 2452 2454 TO 2459 2461 TO 2466 2468 TO 2473 START MY MZ
2447 TO 2452 2454 TO 2459 2461 TO 2466 2468 TO 2473 END MY MZ
1733 START MY MZ
2331 END MY MZ
1732 2078 START MY MZ
1732 2078 END MY MZ
1535 1578 1582 1632 1646 1671 1843 1859 1863 1879 1886 1900 2185 2232 2236 -
2282 2296 2326 START MY MZ
1182 START MY MZ
1249 END MY MZ
1202 1203 1206 TO 1215 1217 TO 1222 1345 1348 1350 TO 1365 1448 1451 1461 -

ROTTERDAM SITE DEVELOPMENT NESTE

1462 1465 TO 1478 START MY MZ
 1202 1203 1206 TO 1215 1217 TO 1222 1350 TO 1365 1394 1399 1461 1462 1465 -
 1466 TO 1478 1501 1504 END MY MZ
 1068 1069 1072 TO 1074 START MY MZ
 1068 1069 1072 TO 1074 END MY MZ
 1038 TO 1040 1062 1063 1066 1183 1184 1234 1244 1300 1341 1342 1371 1372 1433 -
 1452 1455 1499 1500 1704 1731 1796 1823 START MY MZ
 1038 TO 1040 1062 1063 1066 1183 1184 1234 1244 1300 1341 1342 1371 1372 1433 -
 1452 1455 1499 1500 1704 1731 1796 1823 END MY MZ
 1041 1042 1064 1065 START MY MZ
 1041 1042 1064 1065 END MY MZ
 1166 START MY MZ
 1166 END MY MZ
 1496 TO 1498 START MY MZ
 1496 TO 1498 END MY MZ
 1698 1699 1725 1726 1790 1791 1817 1818 1961 1962 1989 1990 2081 2082 2109 -
 2110 START MY MZ
 1698 1699 1725 1726 1790 1791 1817 1818 1961 1962 1989 1990 2081 2082 2109 -
 2110 END MY MZ
 1696 1697 1703 1723 1724 1730 1788 1789 1795 1815 1816 1822 1959 1960 1966 -
 1987 1988 1994 2079 2080 2086 2107 2108 2114 START MY MZ
 1696 1697 1703 1723 1724 1730 1788 1789 1795 1815 1816 1822 1959 1960 1966 -
 1987 1988 1994 2079 2080 2086 2107 2108 2114 END MY MZ
 1700 1701 1727 1728 1792 1793 1819 1820 1963 1964 1991 1992 2083 2084 2111 -
 2112 START MY MZ
 1700 1701 1727 1728 1792 1793 1819 1820 1963 1964 1991 1992 2083 2084 2111 -
 2112 END MY MZ
 1702 1729 1794 1821 1965 1993 2085 2113 START MY MZ
 1702 1729 1794 1821 1965 1993 2085 2113 END MY MZ
 1492 TO 1495 2373 2377 2385 2395 2401 2402 START MY MZ
 1492 TO 1495 2373 2377 2385 2395 2401 2402 END MY MZ
 2585 2587 2595 TO 2608 2613 TO 2615 START MY MZ
 2595 TO 2608 2613 TO 2615 2619 2621 END MY MZ
 2384 START MY MZ
 2384 END MY MZ
 2526 TO 2528 START MY MZ
 2526 TO 2528 END MY MZ
 2664 TO 2675 2680 TO 2682 START MY MZ
 2664 TO 2675 2680 TO 2682 END MY MZ
 2512 TO 2514 START MY MZ
 2521 TO 2523 END MY MZ
 2409 TO 2417 2535 TO 2543 START MY MZ
 2409 TO 2417 2535 TO 2543 END MY MZ
 2734 2736 2738 START MY MZ
 2734 2736 2738 END MY MZ
 2750 START MY MZ
 2753 END MY MZ
 2745 TO 2747 START MY MZ
 2745 TO 2747 END MY MZ
 2735 2739 START MY MZ
 2683 2685 END MY MZ
 2393 2394 START MY MZ
 2435 2436 END MY MZ

ROTTERDAM SITE DEVELOPMENT NESTE

2524 START MY MZ
 2443 2444 END MY MZ
 2437 2438 START MY MZ
 2427 2428 START MY MZ
 2347 2349 2351 2357 TO 2362 2365 TO 2370 START MY MZ
 2347 2349 2351 2357 TO 2362 2365 TO 2370 END MY MZ
 2165 START MY MZ
 2165 END MY MZ
 1904 START MY MZ
 1904 END MY MZ
 2103 START MY MZ
 2103 END MY MZ
 1969 START MY MZ
 1969 END MY MZ
 2106 START MY MZ
 2106 END MY MZ
 1970 START MY MZ
 1970 END MY MZ
 2142 START MY MZ
 2142 END MY MZ
 1914 START MY MZ
 1914 END MY MZ
 2586 START MY MZ
 2620 END MY MZ
 2589 START MY MZ
 2590 END MY MZ
 1033 1034 START MY MZ
 1033 1034 END MY MZ
 1083 1084 START MY MZ
 1083 1084 END MY MZ
 1026 START MY MZ
 1026 END MY MZ
 1088 START MY MZ
 1088 END MY MZ
 1061 END MY MZ
 1055 START MY MZ
 1057 END MY MZ
 1058 START MY MZ
 1175 START MY MZ
 1175 END MY MZ
 1515 START MY MZ
 1515 END MY MZ
 1178 START MY MZ
 1513 END MY MZ
 1169 1171 START MY MZ
 1169 1171 END MY MZ
 1192 1194 START MY MZ
 1192 1194 END MY MZ
 1164 START MY MZ
 1172 START MY MZ
 1189 START MY MZ
 1195 START MY MZ
 1168 1191 START MY MZ

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ROTTERDAM SITE DEVELOPMENT NESTE

1168 1191 END MY MZ
 1170 1193 START MY MZ
 1170 1193 END MY MZ
 1512 START MY MZ
 1512 END MY MZ
 1445 START MY MZ
 1445 END MY MZ
 1678 1679 START MY MZ
 1678 1679 END MY MZ
 2121 START MY MZ
 2121 END MY MZ
 2474 START MY MZ
 2474 END MY MZ
 2337 START MY MZ
 2337 END MY MZ
 1953 2004 2129 START MY MZ
 1953 2004 2129 END MY MZ
 1981 2099 START MY MZ
 1981 2099 END MY MZ
 1715 1809 START MY MZ
 1715 1809 END MY MZ
 1508 START MY MZ
 1508 END MY MZ
 1483 START MY MZ
 1483 END MY MZ
 1689 START MY MZ
 1689 END MY MZ
 2131 START MY MZ
 2131 END MY MZ
 2744 START MY MZ
 2744 END MY MZ
 2748 START MY MZ
 2748 END MY MZ
 2345 START MY MZ
 2345 END MY MZ
 2342 2346 START MY MZ
 2348 2350 2352 START MY MZ
 2348 2350 2352 END MY MZ
 2342 END MY MZ
 2346 END MY MZ
 2343 START MY MZ
 2343 END MY MZ
 1682 1745 1831 1976 2094 START MY MZ
 1682 1745 1831 1976 2094 END MY MZ
 1710 1804 1948 1999 2124 START MY MZ
 1710 1804 1948 1999 2124 END MY MZ
 1519 START MY MZ
 1519 END MY MZ
 2169 START MY MZ
 2169 END MY MZ
 2419 START MY MZ
 2425 END MY MZ
 1090 END MY MZ

**ROTTERDAM SITE DEVELOPMENT
NESTE**

1524 END MY MZ
1522 END MY MZ
1656 START MY MZ
1656 END MY MZ
1675 START MY MZ
1520 END MY MZ
1657 END MY MZ
1655 START MY MZ
1655 END MY MZ
1654 START MY MZ
1654 END MY MZ
1653 START MY MZ
1653 END MY MZ
1637 START MY
1662 START MY
2287 START MY
2317 START MY
2308 START MY MZ
2308 END MY MZ
2330 START MY MZ
2336 START MY MZ
1507 END MY MZ
1509 END MY MZ
2338 START MY MZ
1025 START MY MZ
1087 END MY MZ
1174 START MY MZ
1514 END MY MZ
1691 START MY MZ
1839 END MY MZ
1029 START MY MZ
1079 END MY MZ
2481 END MY MZ
2582 END MY MZ
2657 END MY MZ
2583 END MY MZ
2658 END MY MZ
2482 START MY MZ
2482 END MY MZ
2584 END MY MZ
2659 END MY MZ
2333 START MY MZ
2334 START MY MZ
2335 START MY MZ
2491 START MY MZ
2491 END MY MZ
2497 START MY MZ
2497 END MY MZ
2503 START MY MZ
2503 END MY MZ
2509 START MY MZ
1053 END MY MZ
1082 END MY MZ

ROTTERDAM SITE DEVELOPMENT NESTE

1067 END MY MZ
 1081 END MY MZ
 2145 START MY MZ
 1917 START MY MZ
 1931 START MY MZ
 2159 START MY MZ
 1030 START MY MZ
 1080 END MY MZ
 1036 START MY MZ
 1086 END MY MZ
 1085 END MY MZ
 1328 START MY MZ
 1328 END MY MZ
 1434 START MY MZ
 1434 END MY MZ
 1842 START MY MZ
 1842 END MY MZ
 1903 START MY MZ
 1903 END MY MZ
 1675 END MY MZ
 2330 END MY MZ
 1677 START MY MZ
 2172 START MY MZ
 1481 START MY MZ
 1454 END MY MZ
 1484 START MY MZ
 2475 END MY MZ
 1676 START MY MZ
 2118 END MY MZ
 2115 END MY MZ
 2754 START MY MZ
 2756 START MY MZ
 2758 START MY MZ
 2760 START MY MZ
 2755 START MY MZ
 2757 START MY MZ
 2759 START MY MZ
 2761 START MY MZ
 MEMBER FIREPROOFING
 10 TO 13 1003 TO 1016 1023 1024 1027 TO 1032 1035 TO 1037 1043 TO 1052 1055 -
 1056 TO 1061 1067 1070 1076 TO 1082 1085 1086 1097 1098 1100 TO 1108 1115 -
 1116 TO 1140 1147 TO 1157 1167 1178 1186 1260 1301 1302 1304 1306 1308 1310 -
 1311 TO 1320 1322 TO 1328 1338 1368 1382 1400 1401 1403 1405 1407 1410 1411 -
 1414 1415 1417 1418 1421 1422 1425 TO 1432 1434 1447 1454 1456 1457 1480 -
 1481 TO 1482 1484 1485 1487 1505 TO 1507 1509 1510 1513 1522 1538 1539 1545 -
 1546 TO 1547 1549 1551 1564 1566 TO 1574 1576 1577 1581 1585 TO 1587 1589 -
 1590 TO 1594 1598 TO 1601 1614 1615 1618 TO 1624 1628 TO 1631 1635 1649 1675 -
 1677 1690 1693 1695 1707 1717 1720 1722 1735 1783 1797 1799 1801 1811 1824 -
 1826 1828 1838 1842 1850 1858 1862 1866 1875 1882 1892 1903 1905 TO 1912 -
 1916 1919 TO 1921 1923 1925 TO 1930 1932 TO 1934 1936 TO 1940 1942 1943 1956 -
 1958 1968 1971 1984 1986 2045 TO 2052 2054 2055 2061 TO 2068 2070 TO 2073 -
 2075 2087 2089 2115 2117 2133 TO 2140 2144 2147 TO 2149 2151 2153 TO 2158 -
 2160 TO 2162 2164 2166 TO 2168 2172 2188 2189 2195 2196 2198 2218 TO 2222 -

ROTTERDAM SITE DEVELOPMENT NESTE

2224 TO 2228 2235 2239 TO 2241 2243 TO 2248 2266 TO 2269 2271 2272 2278 2285 -
 2299 2300 2309 2310 2330 2332 TO 2336 2338 2339 2363 2371 2393 2427 2437 -
 2445 2446 2453 2460 2467 2475 TO 2480 2487 2491 2497 2503 2509 2510 2547 -
 2548 TO 2555 2559 TO 2563 2567 TO 2570 2574 TO 2579 2616 2622 -
 2776 FIRE CFP THICK 0.015 DENSITY 18
 2623 TO 2640 2642 TO 2648 2650 TO 2654 2683 2693 TO 2723 -
 2735 FIRE CFP THICK 0.015 DENSITY 18
 1520 1544 1676 1706 1734 1800 1827 1841 1849 2170 2193 2197 2199 2201 2641 -
 2649 FIRE CFP THICK 0.015 DENSITY 18
 2194 2200 2202 2418 2420 2422 2424 2426 FIRE CFP THICK 0.015 DENSITY 18
 1229 1913 1935 1941 2104 2105 2141 2163 2173 2229 2230 2253 2270 2276 2277 -
 2279 TO 2281 2304 2305 2314 2315 2344 2347 2349 2351 2357 TO 2362 -
 2364 TO 2370 2372 2394 2419 2421 2423 2425 2428 TO 2436 2438 TO 2444 2557 -
 2565 2572 2580 2581 2617 2618 2655 2656 2684 2685 2724 2737 2739 -
 2750 TO 2753 FIRE CFP THICK 0.015 DENSITY 18
 2231 2252 2254 2481 2482 2524 2530 2531 2556 2558 2564 2566 2571 2573 2582 -
 2583 TO 2584 2657 TO 2659 2740 TO 2742 FIRE CFP THICK 0.015 DENSITY 18
 1616 1617 1694 1705 1721 1761 1798 1814 1825 1873 1957 1967 1985 2026 2088 -
 2102 2116 FIRE CFP THICK 0.015 DENSITY 18
 4 TO 9 1018 TO 1022 1092 TO 1096 1110 TO 1114 1142 TO 1146 1159 TO 1163 2687 -
 2688 TO 2692 2726 TO 2733 FIRE CFP THICK 0.015 DENSITY 18
 1526 1529 TO 1534 1553 1554 1556 TO 1560 1604 1605 1607 TO 1613 1639 TO 1645 -
 1664 TO 1669 2175 TO 2184 2204 TO 2214 2256 TO 2265 2288 TO 2295 -
 2318 TO 2325 FIRE CFP THICK 0.015 DENSITY 18
 1 1089 1521 1523 1674 2171 2329 FIRE CFP THICK 0.015 DENSITY 18
 1176 1177 1181 1185 1187 1188 1198 1199 1216 1223 1228 1245 1258 1259 1279 -
 1280 1329 1330 1337 1340 1343 1344 1346 1347 1349 1366 1367 1370 1379 1380 -
 1392 1393 1395 1397 1435 1436 1443 1444 1449 1450 1458 1479 1486 -
 1489 TO 1491 1502 1503 1511 1516 1680 1681 1683 TO 1686 1688 1692 1708 1709 -
 1711 TO 1714 1716 1719 1736 TO 1738 1746 1747 1760 1768 1779 1784 1787 1802 -
 1803 1805 TO 1808 1810 1813 1829 1830 1832 TO 1835 1837 1840 1852 TO 1854 -
 1870 TO 1872 1883 TO 1885 1897 TO 1899 2007 2074 -
 2076 FIRE CFP THICK 0.015 DENSITY 18
 2342 2346 2348 2350 2352 TO 2356 2380 2388 2389 2408 2483 TO 2486 2511 2525 -
 2529 2532 TO 2534 2544 TO 2546 2591 TO 2594 2609 TO 2612 2660 TO 2663 2676 -
 2677 TO 2679 FIRE CFP THICK 0.015 DENSITY 18
 2223 2242 FIRE CFP THICK 0.015 DENSITY 18
 1200 1201 1459 1460 FIRE CFP THICK 0.015 DENSITY 18
 1565 1575 1588 1602 FIRE CFP THICK 0.015 DENSITY 18
 1924 2057 2058 2152 FIRE CFP THICK 0.015 DENSITY 18
 1923 1925 2151 2153 FIRE CFP THICK 0.015 DENSITY 18
 1517 1518 1733 2053 2331 2340 2341 FIRE CFP THICK 0.015 DENSITY 18
 2403 TO 2407 FIRE CFP THICK 0.015 DENSITY 18
 2374 TO 2376 2378 2379 2381 TO 2383 2386 2387 2390 TO 2392 2396 TO 2400 2447 -
 2448 TO 2452 2454 TO 2459 2461 TO 2466 2468 TO 2473 2488 TO 2490 2492 TO 2496 -
 2498 TO 2502 2504 TO 2508 FIRE CFP THICK 0.015 DENSITY 18
 1732 2078 FIRE CFP THICK 0.015 DENSITY 18
 SLAVE RIGID MASTER 399 JOINT 1551 TO 1558
 CUT OFF MODE SHAPE 100
 *

DEFINE REFERENCE LOADS

*

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD R1 LOADTYPE None TITLE SELF

*SELFWEIGHT OF STEEL ELEMENTS. COEFFICIENT 1.1 USED TO ACCOUNT FOR WEIGHT OF

*CONNECTIONS BETWEEN MEMBERS

SELFWEIGHT Y -1.1 LIST 1 2 4 TO 13 1003 TO 1016 1018 TO 1090 1092 TO 1108 -
1110 TO 1140 1142 TO 1157 1159 TO 1229 1234 1244 TO 1246 1249 TO 1251 1255 -
1257 TO 1260 1279 1280 1282 1287 1289 1290 1300 TO 1331 1335 1337 TO 1373 -
1377 1379 TO 1382 1392 TO 1407 1410 1411 1414 1415 1417 1418 1421 1422 1425 -
1426 TO 1437 1441 1443 TO 1524 1526 TO 1534 1538 1539 1543 TO 1551 -
1553 TO 1560 1564 TO 1577 1581 1585 TO 1594 1598 TO 1602 1604 TO 1624 1628 -
1629 TO 1631 1635 1637 TO 1645 1649 1653 TO 1657 1662 TO 1670 1674 TO 1738 -
1745 TO 1747 1760 1761 1768 1775 1779 1783 1784 1786 TO 1842 1849 1850 1852 -
1853 TO 1854 1858 1862 1866 1870 TO 1873 1875 1882 TO 1885 1892 1897 TO 1899 -
1903 TO 2007 2026 2045 TO 2076 2078 TO 2173 2175 TO 2184 2188 2189 -
2193 TO 2202 2204 TO 2214 2218 TO 2231 2235 2239 TO 2248 2252 TO 2254 2256 -
2257 TO 2272 2276 TO 2281 2285 2287 TO 2295 2299 2300 2304 TO 2310 2314 2315 -
2317 TO 2325 2329 TO 2585 2587 2591 TO 2619 2621 TO 2685 2687 TO 2724 2726 -
2727 TO 2753

*SELFWEIGHT OF CONCRETE ELEMENTS

SELFWEIGHT Y -1 LIST 3 14 33 58 60 TO 63 98 108 149 204 205 210 211 -
217 TO 222 234 236 237 240 241 246 247 249 250 381 382 386 TO 388 397 403 -
404 424 433 531 533 535 537 539 541 543 550 TO 555 585 TO 1002 1017 1091 -
1109 1141 1158 1517 1525 1552 1603 1636 1661 2174 2203 2255 2286 2316 2340 -
2588 2686 2725

*

MEMBER LOAD

*SELFWEIGHT DUE TO STAIR RAMPS, STEPS AND HANDRAILS

1046 CON GY -1.925 0.6
1080 CON GY -1.925 0.9
1032 CON GY -1.925 0.25
1048 CON GY -3.85 0.6
1082 CON GY -1.925 0.9
1029 CON GY -1.925 0.25
1045 CON GY -3.85 0.6
1079 CON GY -1.925 0.899998
1031 CON GY -1.925 0.25
1047 CON GY -3.85 0.6
1081 CON GY -1.925 0.899998

*

*

*

*

*

LOAD R2 LOADTYPE None TITLE DEAD HANDRAIL

*DEAD LOAD OF HANDRAILS

MEMBER LOAD

_HND_STAIR UNI GY -0.3
_HND_107800 UNI GY -0.3
_HND_114900 UNI GY -0.3
_HND_119700 UNI GY -0.3
_HND_106300 UNI GY -0.3
_HND_109100 UNI GY -0.3
_HND_112300 UNI GY -0.3

ROTTERDAM SITE DEVELOPMENT NESTE

2188 2193 2199 2201 2221 2231 2241 2254 2267 2271 2277 2281 2300 2305 2310 -
2315 2344 2372 2419 2421 2423 2425 2430 2432 2434 2436 2438 2440 2442 2444 -
2484 2486 2534 2546 2594 2612 2663 2679 2696 2704 2708 2712 2716 2724 -
2776 UNI GY -0.3
_HND_WLK UNI GY -0.3
*

LOAD R3 LOADTYPE None TITLE DEAD GRATING

*DEAD LOAD OF GRATINGS

ONEWAY LOAD

_FLR_STAIR ONE -0.5 GY
_FLR_107800_1 ONE -0.5 GY
_FLR_107800_2 ONE -0.5 GY
_FLR_106300 ONE -0.5 GY
_FLR_109100 ONE -0.5 GY
_FLR_112300 ONE -0.5 GY
_FLR_114900_1 ONE -0.5 GY
_FLR_114900_2 ONE -0.5 GY
_FLR_114900_3 ONE -0.5 GY
_FLR_115700 ONE -0.5 GY
_FLR_119700 ONE -0.5 GY
_FLR_WLK ONE -0.5 GY
_FLR_BRG ONE -0.5 GY
*

LOAD R4 LOADTYPE None TITLE LIVE

MEMBER LOAD

*LIVE LOAD DUE TO STAIR RAMPS

1046 CON GY -5.625 0.6
1080 CON GY -5.625 0.9
1032 CON GY -5.625 0.25
1048 CON GY -11.25 0.6
1082 CON GY -5.625 0.9
1029 CON GY -5.625 0.25
1045 CON GY -11.25 0.6
1079 CON GY -5.625 0.899998
1031 CON GY -5.625 0.25
1047 CON GY -11.25 0.6
1081 CON GY -5.625 0.899998

*LIVE LOAD ON GRATINGS

ONEWAY LOAD

_FLR_STAIR ONE -5 GY
_FLR_107800_1 ONE -5 GY
_FLR_107800_2 ONE -5 GY
_FLR_106300 ONE -5 GY
_FLR_109100 ONE -5 GY
_FLR_112300 ONE -5 GY
_FLR_114900_1 ONE -5 GY
_FLR_114900_2 ONE -5 GY
_FLR_114900_3 ONE -5 GY
_FLR_115700 ONE -5 GY
_FLR_119700 ONE -5 GY
_FLR_WLK ONE -3 GY

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_FLR_BRG ONE -3 GY

*

*

LOAD R5 LOADTYPE None TITLE SL

*SNOW LOAD

ONEWAY LOAD

_FLR_STAIR ONE -0.84 GY

_FLR_107800_1 ONE -0.84 GY

_FLR_107800_2 ONE -0.84 GY

_FLR_106300 ONE -0.84 GY

_FLR_109100 ONE -0.84 GY

_FLR_112300 ONE -0.84 GY

_FLR_114900_1 ONE -0.84 GY

_FLR_114900_2 ONE -0.84 GY

_FLR_114900_3 ONE -0.84 GY

_FLR_115700 ONE -0.84 GY

_FLR_119700 ONE -0.84 GY

_FLR_WLK ONE -0.84 GY

_FLR_BRG ONE -0.84 GY

*

LOAD R6 LOADTYPE None TITLE SLACC (SNOW ACCIDENTAL)

*SNOW LOAD ACCIDENTAL - NOT APPLICABLE IN THE NETHERLANDS

*NONE

*

LOAD R7 LOADTYPE None TITLE EE (EMPTY LOAD)

JOINT LOAD

*20FA-86

287 FY -95

*20EA-106AB

299 FY -120

*20EA-104

362 FY -58

*20EA-105

1363 FY -127

*20PK-19

399 FY -110

*AIR COOLERS 20EC-09/11

758 759 FY -550

772 773 FY -550

783 784 FY -180

*20DA-12

JOINT LOAD

1361 FY -1190

*PIPING LOAD ON "RACK" BEAMS

MEMBER LOAD

1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 TO 1885 -

1897 TO 1899 2007 2074 2076 UNI GY -3

2045 2049 2054 2059 2063 2067 2071 UNI GY -3

*CONCENTRATED LOAD DUE TO PIPING SUPPORT AT TOP ELEVATION

*

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD R8 LOADTYPE None TITLE EER (ERECTION LOAD)

JOINT LOAD

*20FA-86

287 FY -95

*20EA-106AB

299 FY -120

*20EA-104

362 FY -58

*20EA-105

1363 FY -127

*20PK-19

399 FY -110

*AIR COOLERS 20EC-09/11

758 759 FY -550

772 773 FY -550

783 784 FY -180

*20DA-12

JOINT LOAD

1361 FY -1190

*PIPING LOAD ON "RACK" BEAMS

MEMBER LOAD

1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 TO 1885 -

1897 TO 1899 2007 2074 2076 UNI GY -3

2045 2049 2054 2059 2063 2067 2071 UNI GY -3

*CONCENTRATED LOAD DUE TO PIPING SUPPORT AT TOP ELEVATION

*

LOAD R9 LOADTYPE None TITLE EO (OPERATING LOAD)

JOINT LOAD

*20FA-86

287 FY -415

*20EA-106AB

299 FY -160

*20EA-104

362 FY -83

*20EA-105

1363 FY -167

*20PK-19

399 FY -110

*AIR COOLERS 20EC-09/11

758 759 FY -550

772 773 FY -550

783 784 FY -180

*20DA-12

JOINT LOAD

1361 FY -1835

*PIPING LOAD ON "RACK" BEAMS

MEMBER LOAD

1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 TO 1885 -

1897 TO 1899 2007 2074 2076 UNI GY -6

2045 2049 2054 2059 2063 2067 2071 UNI GY -6

*CONCENTRATED LOAD DUE TO PIPING SUPPORT AT TOP ELEVATION

ROTTERDAM SITE DEVELOPMENT NESTE

*

LOAD R10 LOADTYPE None TITLE ET (TEST LOAD)
JOINT LOAD
*20FA-86
287 FY -500
*20EA-106AB
299 FY -165
*20EA-104
362 FY -82
*20EA-105
1363 FY -185
*20PK-19
399 FY -110
*AIR COOLERS 20EC-09/11
758 759 FY -550
772 773 FY -550
783 784 FY -180
*20DA-12
JOINT LOAD
1361 FY -3015
*PIPING LOAD ON "RACK" BEAMS
MEMBER LOAD
1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 TO 1885 -
1897 TO 1899 2007 2074 2076 UNI GY -3
2045 2049 2054 2059 2063 2067 2071 UNI GY -3
*CONCENTRATED LOAD DUE TO PIPING SUPPORT AT TOP ELEVATION
*

LOAD R11 LOADTYPE None TITLE TLSX (THERMAL ANCHOR FORCE X)
*ANCHOR LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - X DIRECTION
*

LOAD R12 LOADTYPE None TITLE TLSZ (THERMAL ANCHOR FORCE Z)
MEMBER LOAD
1692 1719 1736 1784 1787 1813 1840 1852 TO 1854 1870 TO 1872 1883 TO 1885 -
1897 TO 1899 2007 2074 2076 UNI GZ 1
2045 2049 2054 2059 2063 2067 2071 UNI GZ 1
*ANCHOR LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - Z DIRECTION
*

LOAD R13 LOADTYPE None TITLE TLFx (FRICTION FORCE X)
*FRICTION LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - X DIRECTION
*

LOAD R14 LOADTYPE None TITLE TLFz (FRICTION FORCE Z)
*FRICTION LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - Z DIRECTION
*

LOAD R15 LOADTYPE Temperature TITLE TLT (STRUCTURE THERMAL LOAD)
TEMPERATURE LOAD
1 2 4 TO 13 1003 TO 1016 1018 TO 1090 1092 TO 1108 1110 TO 1140 1142 TO 1157 -
1159 TO 1229 1234 1244 TO 1246 1249 TO 1251 1255 1257 TO 1260 1279 1280 1282 -

ROTTERDAM SITE DEVELOPMENT NESTE

1287 1289 1290 1300 TO 1331 1335 1337 TO 1373 1377 1379 TO 1382 1392 TO 1407 -
1410 1411 1414 1415 1417 1418 1421 1422 1425 TO 1437 1441 1443 TO 1516 1518 -
1519 TO 1524 1526 TO 1534 1538 1539 1543 TO 1551 1553 TO 1560 1564 TO 1577 -
1581 1585 TO 1594 1598 TO 1602 1604 TO 1624 1628 TO 1631 1635 1637 TO 1645 -
1649 1653 TO 1657 1662 TO 1670 1674 TO 1738 1745 TO 1747 1760 1761 1768 1775 -
1779 1783 1784 1786 TO 1842 1849 1850 1852 TO 1854 1858 1862 1866 -
1870 TO 1873 1875 1882 TO 1885 1892 1897 TO 1899 1903 TO 2007 2026 -
2045 TO 2076 2078 TO 2173 2175 TO 2184 2188 2189 2193 TO 2202 2204 TO 2214 -
2218 TO 2231 2235 2239 TO 2248 2252 TO 2254 2256 TO 2272 2276 TO 2281 2285 -
2287 TO 2295 2299 2300 2304 TO 2310 2314 2315 2317 TO 2325 2329 TO 2339 2341 -
2342 TO 2585 2587 2591 TO 2619 2621 TO 2685 2687 TO 2724 2726 TO 2752 -

2753 TEMP 31

*TEMPERATURE LOADS ON EXPOSED STRUCTURES

*

LOAD R16 LOADTYPE None TITLE WLX (WIND LOAD X)

*WIND LOADS - X DIRECTION

*

LOAD R17 LOADTYPE None TITLE WLZ (WIND LOAD Z)

*WIND LOADS - Z DIRECTION

*

END DEFINE REFERENCE LOADS

*

DEFINE WIND LOAD

TYPE 1 WIND STRUCTURAL

* WIND PRESSURE ALONG HEIGHT

INT 0.776423 0.776423 0.776423 0.776423 0.776423 0.927483 1.02115 1.08999 -
1.14474 1.19036 1.22955 1.26395 1.29465 1.32239 1.34771 1.37102 1.39262 -
1.41275 1.43161 1.44936 1.46612 1.482 1.4971 1.51149 1.52523 1.53838 1.551 -
1.56313 1.5748 1.58605 1.59691 1.6074 1.61756 1.62741 1.63695 1.64622 -
1.65522 1.66398 1.67251 1.68081 1.6889 1.6968 1.7045 1.71203 1.71939 1.72658 -
1.73361 1.7405 1.74725 1.75385 1.76033 1.76668 1.77291 1.77903 1.78503 -
1.79093 1.79672 1.80241 1.808 1.81351 1.81892 1.82425 1.82949 1.83465 HEIG -
0.1 0.25 0.5 0.75 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 -
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 -
48 49 50 51 52 53 54 55 56 57 58 59 60

*

*LOAD CONDITIONS

*

LOAD 100 LOADTYPE Dead TITLE DL (DEAD LOAD)

REFERENCE LOAD

R1 1.0 R2 1.0 R3 1.0

LOAD 110 LOADTYPE Dead TITLE EE (EMPTY LOAD)

REFERENCE LOAD

R7 1.0

LOAD 111 LOADTYPE Dead TITLE EER (ERECTION LOAD)

REFERENCE LOAD

ROTTERDAM SITE DEVELOPMENT NESTE

R8 1.0

LOAD 115 LOADTYPE Dead TITLE EO (OPERATING LOAD)
REFERENCE LOAD

R9 1.0

LOAD 120 LOADTYPE Dead TITLE ET (TEST LOAD)
REFERENCE LOAD

R10 1.0

LOAD 125 LOADTYPE Snow TITLE SL (SNOW LOAD)
REFERENCE LOAD

R5 1.0

LOAD 126 LOADTYPE Snow TITLE SLACC (SNOW LOAD ACCIDENTAL)
*REFERENCE LOAD

*R6 1.0

LOAD 130 LOADTYPE Live TITLE LL (LIVE LOAD)
REFERENCE LOAD

R4 1.0

LOAD 140 LOADTYPE Dead TITLE TLSX (THERMAL ANCHOR FORCE X)
REFERENCE LOAD

R11 1.0

LOAD 141 LOADTYPE Dead TITLE TLSZ (THERMAL ANCHOR FORCE Z)
REFERENCE LOAD

R12 1.0

LOAD 145 LOADTYPE Accidental TITLE TLFx (FRICTION FORCE X)
REFERENCE LOAD

R13 1.0

LOAD 146 LOADTYPE Accidental TITLE TLFz (FRICTION FORCE Z)
REFERENCE LOAD

R14 1.0

LOAD 150 LOADTYPE Temperature TITLE TLT (STRUCTURE THERMAL LOAD)
REFERENCE LOAD

R15 1.0

*

LOAD 160 LOADTYPE Wind TITLE WLX (WIND LOAD +X)
JOINT LOAD

*20FA-86

287 FX 30.91

*20EA-106AB

299 FX 8.95

*20EA-104

362 FX 4.83

*20EA-105

1363 FX 10.71

ROTTERDAM SITE DEVELOPMENT NESTE

*20PK-19
 399 FX 60
 JOINT LOAD
 *AIR COOLERS 20EC-09/11
 759 FX 195
 773 FX 195
 784 FX 77.4
 *20DA-12
 JOINT LOAD
 1361 FX 365 MZ -6138
 *PIPES
 MEMBER LOAD
 1692 1736 1784 1852 TO 1854 1870 TO 1872 1883 TO 1885 1897 TO 1899 2045 2049 -
 2054 2059 2063 2067 2071 CON GX 5 1
 *WIND FORCES ON STRUCTUREAL ELEMENTS
 *ALIGN. STAIR
 WIND LOAD X 1.9 TYPE 1 XR -3.6 -3.4 YR 1.5 14.5 ZR 0 6 OPEN
 *ALIGN. 4
 WIND LOAD X 1.9 TYPE 1 XR -0.1 0.1 YR 1.5 14.5 ZR 0 13.9 OPEN
 *ALIGN. 3
 WIND LOAD X 1.9 TYPE 1 XR 9.9 10.1 YR 1.5 19.7 ZR 0 18.1 OPEN
 *ALIGN. 2
 WIND LOAD X 1.9 TYPE 1 XR 20.7 20.9 YR 1.5 19.7 ZR 0 18.1 OPEN
 *ALIGN. 1
 WIND LOAD X 1.9 TYPE 1 XR 29.7 29.9 YR 1.5 15.3 ZR 4.5 9.2 OPEN
 *ALIGN. BRIDGE WEST
 WIND LOAD X 1.9 TYPE 1 XR 15.4 15.6 YR 7.8 9.1 ZR -16.1 0 OPEN
 *ALIGN. BRIDGE EAST
 WIND LOAD X 1.9 TYPE 1 XR 20.7 20.9 YR 7.8 9.1 ZR -16.1 0 OPEN
 *PIPE SUPPORT E-W
 WIND LOAD X 1.9 TYPE 1 XR 21.7 21.9 YR 19.7 26.7 ZR 0 13.9 OPEN
 *

 LOAD 161 LOADTYPE Wind TITLE WLZ (WIND LOAD +Z)
 JOINT LOAD
 *20FA-86
 287 FZ 15.46
 *20EA-106AB
 299 FZ 4.48
 *20EA-104
 362 FZ 2.42
 *20EA-105
 1363 FZ 10.71
 *20PK-19
 399 FZ 16
 JOINT LOAD
 *AIR COOLERS 20EC-09/11
 759 FZ 118
 773 FZ 118
 784 FZ 118
 *20DA-12
 JOINT LOAD
 1361 FZ 365 MX 6138

ROTTERDAM SITE DEVELOPMENT NESTE

*WIND FORCES ON STRUCTUREAL ELEMENTS

*ALIGN. E

WIND LOAD Z 1.9 TYPE 1 XR -3.5 20.8 YR 1.5 19.7 ZR -0.1 0.1 OPEN

*ALIGN. D

WIND LOAD Z 1.9 TYPE 1 XR 0 29.8 YR 1.5 19.7 ZR 4.4 4.6 OPEN

*ALIGN. C

WIND LOAD Z 1.9 TYPE 1 XR 0 29.8 YR 1.5 19.7 ZR 9.1 9.3 OPEN

*ALIGN. B

WIND LOAD Z 1.9 TYPE 1 XR 0 20.8 YR 1.5 19.7 ZR 13.8 14 OPEN

*ALIGN. A

WIND LOAD Z 1.9 TYPE 1 XR 0 20.8 YR 1.5 19.7 ZR 18 18.2 OPEN

*PIPE SUPPORT

WIND LOAD Z 1.9 TYPE 1 XR 21.8 23 YR 19.7 26.7 ZR 0 13.9 OPEN

*BRIDGE NORTH

WIND LOAD Z 1.9 TYPE 1 XR 15.5 20.8 YR 7.8 9.1 ZR -16.2 -16 OPEN

*PORTAL

WIND LOAD Z 1.9 TYPE 1 XR 9.5 21.5 YR 1.5 15 ZR -12.2 -12 OPEN

*

LOAD 162 LOADTYPE Wind TITLE WLX50% (WIND LOAD X PARTIAL)

*50% WIND FORCES ALONG X CALCULATED STARTING FROM LC160, WITH COEFF. 0.5

JOINT LOAD

*20FA-86

287 FX 15.46

*20EA-106AB

299 FX 4.48

*20EA-104

362 FX 2.42

*20EA-105

1363 FX 5.36

*20PK-19

399 FX 30

*AIR COOLERS 20EC-09/11

JOINT LOAD

759 FX 97.5

773 FX 97.5

784 FX 38.7

*20DA-12

JOINT LOAD

1361 FX 199 MZ -3323

*PIPES

MEMBER LOAD

1692 1736 1784 1852 TO 1854 1870 TO 1872 1883 TO 1885 1897 TO 1899 2045 2049 -

2054 2059 2063 2067 2071 CON GX 2.5 1

*WIND FORCES ON STRUCTUREAL ELEMENTS

*ALIGN. STAIR

WIND LOAD X 1 TYPE 1 XR -3.6 -3.4 YR 1.5 14.5 ZR 0 6 OPEN

*ALIGN. 4

WIND LOAD X 1 TYPE 1 XR -0.1 0.1 YR 1.5 14.5 ZR 0 13.9 OPEN

*ALIGN. 3

WIND LOAD X 1 TYPE 1 XR 9.9 10.1 YR 1.5 19.7 ZR 0 18.1 OPEN

*ALIGN. 2

WIND LOAD X 1 TYPE 1 XR 20.7 20.9 YR 1.5 19.7 ZR 0 18.1 OPEN

ROTTERDAM SITE DEVELOPMENT NESTE

*ALIGN. 1
 WIND LOAD X 1 TYPE 1 XR 29.7 29.9 YR 1.5 15.3 ZR 4.5 9.2 OPEN
 *ALIGN. BRIDGE WEST
 WIND LOAD X 1 TYPE 1 XR 15.4 15.6 YR 7.8 9.1 ZR -16.1 0 OPEN
 *ALIGN. BRIDGE EAST
 WIND LOAD X 1 TYPE 1 XR 20.7 20.9 YR 7.8 9.1 ZR -16.1 0 OPEN
 *PIPE SUPPORT E-W
 WIND LOAD X 1 TYPE 1 XR 21.7 21.9 YR 19.7 26.7 ZR 0 13.9 OPEN
 *

 LOAD 163 LOADTYPE Wind TITLE WLZ50% (WIND LOAD Z PARTIAL)
 *50% WIND FORCES ALONG Z CALCULATED STARTING FROM LC161, WITH COEFF. 0.5
 JOINT LOAD
 *20FA-86
 287 FZ 7.83
 *20EA-106AB
 299 FZ 2.24
 *20EA-104
 362 FZ 1.21
 *20EA-105
 1363 FZ 5.36
 *20PK-19
 399 FZ 8
 *AIR COOLERS 20EC-09/11
 JOINT LOAD
 759 FZ 59
 773 FZ 59
 784 FZ 59
 *20DA-12
 JOINT LOAD
 1361 FZ 199 MX 3323
 *WIND FORCES ON STRUCTUREAL ELEMENTS
 *ALIGN. E
 WIND LOAD Z 1 TYPE 1 XR -3.5 20.8 YR 1.5 19.7 ZR -0.1 0.1 OPEN
 *ALIGN. D
 WIND LOAD Z 1 TYPE 1 XR 0 29.8 YR 1.5 19.7 ZR 4.4 4.6 OPEN
 *ALIGN. C
 WIND LOAD Z 1 TYPE 1 XR 0 29.8 YR 1.5 19.7 ZR 9.1 9.3 OPEN
 *ALIGN. B
 WIND LOAD Z 1 TYPE 1 XR 0 20.8 YR 1.5 19.7 ZR 13.8 14 OPEN
 *ALIGN. A
 WIND LOAD Z 1 TYPE 1 XR 0 20.8 YR 1.5 19.7 ZR 18 18.2 OPEN
 *PIPE SUPPORT
 WIND LOAD Z 1 TYPE 1 XR 21.8 23 YR 19.7 26.7 ZR 0 13.9 OPEN
 *BRIDGE NORTH
 WIND LOAD Z 1 TYPE 1 XR 15.5 20.8 YR 7.8 9.1 ZR -16.2 -16 OPEN
 *PORTAL
 WIND LOAD Z 1 TYPE 1 XR 9.5 21.5 YR 1.5 15 ZR -12.2 -12 OPEN
 *
 *

 LOAD 164 LOADTYPE Wind TITLE WL-X (WIND LOAD -X)
 *LC 164 CORRESPONDS TO WIND ALONG (-X), WHICH FOR BUILDINGS IS DIFFERENT FROM

**ROTTERDAM SITE DEVELOPMENT
NESTE**

*-WINDX DUE TO THE DIFFERENCE IN THE WINDWARD AND LEEWARD SHAPE COEFFICIENTS
*IN THE BUILDING PORTION OF THE STRUCTURE: IN THE COMBINATIONS, "-WINDX"
*IS NOT "-160" BUT "+164 = +WIND(-X)" -
*NOT USED FOR OPEN FRAME PROCESS STRUCTURES

LOAD 165 LOADTYPE Wind TITLE WL-Z (WIND LOAD -Z)
*LC 165 CORRESPONDS TO WIND ALONG (-Z), WHICH FOR BUILDINGS IS DIFFERENT FROM
*-WINDZ DUE TO THE DIFFERENCE IN THE WINDWARD AND LEEWARD SHAPE COEFFICIENTS
*IN THE BUILDING PORTION OF THE STRUCTURE: IN THE COMBINATIONS, "-WINDZ"
*IS NOT "-161" BUT "+165 = +WIND(-Z)" -
*NOT USED FOR OPEN FRAME PROCESS STRUCTURES

LOAD 170 LOADTYPE None TITLE ELX (EARTHQUAKE LOAD X)
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 171 LOADTYPE None TITLE ELZ (EARTHQUAKE LOAD Z)
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 172 LOADTYPE None TITLE ELEX (EARTHQUAKE LOAD X EMPTY)
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 173 LOADTYPE None TITLE ELEZ (EARTHQUAKE LOAD Z EMPTY)
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 174 LOADTYPE None TITLE RAYLEIGH-X
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 175 LOADTYPE None TITLE RAYLEIGH-Z
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 176 LOADTYPE None TITLE ELOVERTICAL
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 177 LOADTYPE None TITLE ELEVERTICAL
*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 180 LOADTYPE Accidental TITLE ML (MAINTANANCE LOAD/BUNDLE PULL)
*

LOAD 185 LOADTYPE Accidental TITLE IL (IMPACT LOAD)
*

LOAD 190 LOADTYPE Dead TITLE VLX (VIBRATION LOAD)
*

LOAD 191 LOADTYPE Dead TITLE VLZ (VIBRATION LOAD)
*

LOAD 192 LOADTYPE Dead TITLE VLY (VIBRATION LOAD)
*

LOAD 195 LOADTYPE Accidental TITLE BL (BLAST LOAD)
*

**ROTTERDAM SITE DEVELOPMENT
NESTE**

LOAD 200 LOADTYPE Accidental TITLE CL (CONSTRUCTION LOAD)
*

LOAD 205 LOADTYPE Fluids TITLE FL (FLUID LOAD)
*

LOAD 210 LOADTYPE Soil TITLE HL (EARTH LOAD)
*

LOAD 215 LOADTYPE None TITLE DS (DIFFERENTIAL SETTLEMENT LOAD)
*

*

*LOAD COMBINATIONS ARE DEFINED ACCORDING TO THE COMBINATION PARAMETERS PSI ***

*REPORTED IN THE DUTCH NATIONAL ANNEX TO EN1990 (EUROCODE) *****

*USE OF COEFFICIENT KFI FOR UNFAVOURABLE LOADS IS CONSIDERED, FOR CC3 *****

*

*

*

***** COMBINATION SLS - CHARACTERISTIC**

*

***** EMPTY & CONSTRUCTION SLS *****

*

* SLS E&C - VERTICAL (PERMANENT) *****

LOAD COMB 300 DL+EE+HL

100 1.0 110 1.0 210 1.0

*

* SLS E&C - THERMAL AMBIENTAL *****

LOAD COMB 301 DE+EE+HL+TLT

100 1.0 110 1.0 210 1.0 150 1.0

LOAD COMB 302 DL+EE+HL-TLT

100 1.0 110 1.0 210 1.0 150 -1.0

*

* SLS E&C - WIND (OVERTURNING) *****

LOAD COMB 303 DL+EE+HL+WLX

100 1.0 110 1.0 210 1.1 160 1.0

LOAD COMB 304 DL+EE+HL-WLX

100 1.0 110 1.0 210 1.0 160 -1.0

LOAD COMB 305 DL+EE+HL+WLZ

100 1.0 110 1.0 210 1.0 161 1.0

LOAD COMB 306 DL+EE+HL-WLZ

100 1.0 110 1.0 210 1.0 161 -1.0

*

* SLS E&C - CONSTRUCTION *****

LOAD COMB 307 DL+EE+HL+CL

100 1.0 110 1.0 210 1.0 200 1.0

*

* SLS E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 308 DE+EE+HL+0.6TLT+CL

100 1.0 110 1.0 210 1.0 150 0.6 200 1.0

LOAD COMB 309 DE+EE+HL-0.6TLT+CL

100 1.0 110 1.0 210 1.0 150 -0.6 200 1.0

*

* SLS E&C - WIND *****

LOAD COMB 310 DL+EE+HL+WLX+0.7CL

100 1.0 110 1.0 210 1.0 160 1.0 200 0.7

LOAD COMB 311 DL+EE+HL-WLX+0.7CL

100 1.0 110 1.0 210 1.0 160 -1.0 200 0.7

LOAD COMB 312 DL+EE+HL+WLZ+0.7CL

100 1.0 110 1.0 210 1.0 161 1.0 200 0.7

LOAD COMB 313 DL+EE+HL-WLZ+0.7CL

100 1.0 110 1.0 210 1.0 161 -1.0 200 0.7

*

* SLS E&C - SNOW *****

LOAD COMB 314 DL+EE+HL+0.7CL+SL

100 1.0 110 1.0 210 1.0 200 0.7 125 1.0

*

*

*

***** OPERATING SLS *****

*

* SLS OPE - VERTICAL (PERMANENT) *****

LOAD COMB 400 DL+EO+VL+HL

100 1.0 115 1.0 210 1.0 190 1.0 191 1.0 192 1.0

*

* SLS OPE - THERMAL AMBIENTAL *****

LOAD COMB 401 DL+EO+TLSX+TLSZ+VL+HL+LL+TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 1.0 145 0.6 146 0.6

LOAD COMB 402 DL+EO+TLSX+TLSZ+VL+HL+LL-TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 -1.0 145 0.6 146 0.6

LOAD COMB 403 DL+EO+TLSX+TLSZ+VL+HL+LL-TLT-0.6TLFX-0.6TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 -1.0 145 -0.6 146 -0.6

LOAD COMB 404 DL+EO-TLSX-TLSZ+VL+HL+LL+TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 1.0 145 0.6 146 0.6

LOAD COMB 405 DL+EO-TLSX-TLSZ+VL+HL+LL-TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 -1.0 145 0.6 146 0.6

LOAD COMB 406 DL+EO-TLSX+TLSZ+VL+HL+LL-TLT-0.6TLFX-0.6TLFZ

100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 -1.0 145 -0.6 146 -0.6

*

* SLS OPE - THERMAL PIPES *****

LOAD COMB 407 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6TLT+TLFX+TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 0.6 145 1.0 146 1.0

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 408 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT+TLFX+TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 1.0 146 1.0
LOAD COMB 409 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT-TLFX-TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -1.0 146 -1.0
LOAD COMB 410 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6TLT+TLFX+TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 0.6 145 1.0 146 1.0
LOAD COMB 411 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT+TLFX+TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 1.0 146 1.0
LOAD COMB 412 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT-TLFX-TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -1.0 146 -1.0

*

* SLS OPE - WIND (OVERTURNING) *****

LOAD COMB 413 DL+EO+TLSX+TLSZ+VL+HL+WLX
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 160 1.0
LOAD COMB 414 DL+EO-TLSX-TLSZ+VL+HL-WLX
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 160 -1.0
LOAD COMB 415 DL+EO+TLSX+TLSZ+VL+HL+WLZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 161 1.0
LOAD COMB 416 DL+EO-TLSX-TLSZ+VL+HL-WLZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 161 -1.0

*

* SLS OPE - LIVE *****

LOAD COMB 417 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6
LOAD COMB 418 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6

*

* SLS OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 419 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 0.6 145 0.6 146 0.6
LOAD COMB 420 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 0.6 146 0.6
LOAD COMB 421 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT-0.6TLFX-0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -0.6 146 -0.6
LOAD COMB 422 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 0.6 145 0.6 146 0.6
LOAD COMB 423 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 0.6 146 0.6
LOAD COMB 424 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT-0.6TLFX-0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -0.6 146 -0.6

ROTTERDAM SITE DEVELOPMENT NESTE

*
* SLS OPE - WIND *****
LOAD COMB 425 DL+EO+TLSX+TLSZ+VL+HL+LL+WLX+0.6IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
160 1.0 185 0.6
LOAD COMB 426 DL+EO-TLSX-TLSZ+VL+HL+LL-WLX+0.6IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
160 -1.0 185 0.6
LOAD COMB 427 DL+EO+TLSX+TLSZ+VL+HL+LL+WLZ+0.6IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
161 1.0 185 0.6
LOAD COMB 428 DL+EO-TLSX-TLSZ+VL+HL+LL-WLZ+0.6IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
161 -1.0 185 0.6
*
* SLS OPE - SNOW *****
LOAD COMB 429 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6IL+SL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6 125 1.0
LOAD COMB 430 DL+EO-TLSX-TLSZ+VL+HL+VL+LL+0.6IL+SL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6 125 1.0
*
* SLS OPE - IMPACT *****
LOAD COMB 431 DL+EO+TLSX+TLSZ+VL+HL+LL+IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 1.0
LOAD COMB 432 DL+EO-TLSX-TLSZ+VL+HL+LL+IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 1.0
*
*
*

***** TEST SLS *****

*
* SLS TEST - VERTICAL (PERMANENT) *****
LOAD COMB 500 DL+ET+HL
100 1.0 120 1.0 210 1.0
*
* SLS TEST - WIND-REDUCED VALUE (OVERTURNING) *****
LOAD COMB 501 DL+ET+HL+WLX50%
100 1.0 120 1.0 210 1.0 162 1.0
LOAD COMB 502 DL+ET+HL-WLX50%
100 1.0 120 1.0 210 1.0 162 -1.0
LOAD COMB 503 DL+ET+HL+WLZ50%
100 1.0 120 1.0 210 1.0 163 1.0
LOAD COMB 504 DL+ET+HL-WLZ50%
100 1.0 120 1.0 210 1.0 163 -1.0
*
* SLS TEST - LIVE *****
LOAD COMB 505 DL+ET+HL+LL+0.6IL

**ROTTERDAM SITE DEVELOPMENT
NESTE**

100 1.0 120 1.0 210 1.0 130 1.0 185 0.6

*

* SLS TEST - WIND-REDUCED VALUE *****

LOAD COMB 506 DL+ET+HL+LL+WLX50%+0.6IL

100 1.0 120 1.0 210 1.0 130 1.0 162 1.0 185 0.6

LOAD COMB 507 DL+ET+HL+LL-WLX50%+0.6IL

100 1.0 120 1.0 210 1.0 130 1.0 162 -1.0 185 0.6

LOAD COMB 508 DL+ET+HL+LL+WLZ50%+0.6IL

100 1.0 120 1.0 210 1.0 130 1.0 163 1.0 185 0.6

LOAD COMB 509 DL+ET+HL+LL-WLZ50%+0.6IL

100 1.0 120 1.0 210 1.0 130 1.0 163 -1.0 185 0.6

*

* SLS TEST - SNOW *****

LOAD COMB 510 DL+ET+HL+LL+0.6IL+SL

100 1.0 120 1.0 210 1.0 130 1.0 185 0.6 125 1.0

*

* SLS TEST - IMPACT *****

LOAD COMB 511 DL+ET+HL+LL+IL

100 1.0 120 1.0 210 1.0 130 1.0 185 1.0

*

*

*

***** MAINTENANCE SLS *****

*

* SLS MAINTENANCE - MAINTENANCE (OVERTURNING) *****

*

*

* SLS MAINTENANCE - MAINTENANCE *****

LOAD COMB 550 DL+EE+HL+LL+ML+BL+0.6IL

100 1.0 110 1.0 210 1.0 130 1.0 180 1.0 195 1.0 185 0.6

*

*

*

***** QUASI-PERMANENT SLS *****

LOAD COMB 600 DL+EO+TLSX+TLSZ+VL+HL+0.8LL

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 0.8

LOAD COMB 601 DL+EO+TLSX+TLSZ+VL+HL+0.8LL

100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 0.8

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***** COMBINATION ULS - STR/GEO ***

*

***** EMPTY & CONSTRUCTION ULS - STR/GEO *****

ROTTERDAM SITE DEVELOPMENT NESTE

*
* ULS STR/GEO E&C - VERTICAL (PERMANENT) *****
LOAD COMB 1000 1.5(DL+EE)+1.0HL
100 1.5 110 1.5 210 1.0
*
LOAD COMB 1001 1.3(DL+EE)+1.0HL
100 1.3 110 1.3 210 1.0
*
* ULS STR/GEO E&C - THERMAL AMBIENTAL *****
LOAD COMB 1002 0.9(DE+EE)+HL+1.65(0.6TLT)
100 0.9 110 0.9 210 1.0 150 1.0
LOAD COMB 1003 0.9(DL+EE)+HL-1.65(0.6TLT)
100 0.9 110 0.9 210 1.0 150 -1.0
*
LOAD COMB 1004 0.9(DL+EE)+HL+1.65TLT
100 0.9 110 0.9 210 1.0 150 1.65
LOAD COMB 1005 0.9(DL+EE)+HL-1.65TLT
100 0.9 110 0.9 210 1.0 150 -1.65
*
*
* ULS STR/GEO E&C - WIND (OVERTURNING) *****
LOAD COMB 1006 0.9(DL+EE)+HL+1.65WLX
100 0.9 110 0.9 210 1.1 160 1.65
LOAD COMB 1007 0.9(DL+EE)+HL-1.65WLX
100 0.9 110 0.9 210 1.0 160 -1.65
LOAD COMB 1008 0.9(DL+EE)+HL+1.65WLZ
100 0.9 110 0.9 210 1.0 161 1.65
LOAD COMB 1009 0.9(DL+EE)+HL-1.65WLZ
100 0.9 110 0.9 210 1.0 161 -1.65
*
* ULS STR/GEO E&C - CONSTRUCTION *****
LOAD COMB 1010 1.5(DL+EE)+1.0HL+1.65(0.7CL)
100 1.5 110 1.5 210 1.0 200 1.15
*
LOAD COMB 1011 1.3(DL+EE)+1.0HL+1.65CL
100 1.3 110 1.3 210 1.0 200 1.65
*
* ULS STR/GEO E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****
LOAD COMB 1012 1.5(DE+EE)+1.0HL+1.65(0.6TLT+0.7CL)
100 1.5 110 1.5 210 1.0 150 1.0 200 1.15
LOAD COMB 1013 1.5(DE+EE)+1.0HL+1.65(-0.6TLT+0.7CL)
100 1.5 110 1.5 210 1.0 150 -1.0 200 1.15
*
LOAD COMB 1014 1.3(DE+EE)+1.0HL+1.65(0.6TLT+CL)
100 1.3 110 1.3 210 1.0 150 1.0 200 1.65
LOAD COMB 1015 1.3(DE+EE)+1.0HL+1.65(-0.6TLT+CL)
100 1.3 110 1.3 210 1.0 150 -1.0 200 1.65
*
*
* ULS STR/GEO E&C - WIND *****
LOAD COMB 1016 1.3(DL+EE)+1.0HL+1.65(WLX+0.7CL)
100 1.3 110 1.3 210 1.0 160 1.65 200 1.15
LOAD COMB 1017 1.3(DL+EE)+1.0HL+1.65(-WLX+0.7CL)

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.3 110 1.3 210 1.0 160 -1.65 200 1.15
 LOAD COMB 1018 1.3(DL+EE)+1.0HL+1.65(WLZ+0.7CL)
 100 1.3 110 1.3 210 1.0 161 1.65 200 1.15
 LOAD COMB 1019 1.3(DL+EE)+1.0HL+1.65(-WLZ+0.7CL)
 100 1.3 110 1.3 210 1.0 161 -1.65 200 1.15
 *

* ULS STR/GEO E&C - SNOW *****
 LOAD COMB 1020 1.3(DL+EE)+1.0HL+1.65(0.7CL+SL)
 100 1.3 110 1.3 210 1.0 200 1.15 125 1.65
 *
 *
 *
 *

 ***** OPERATING ULS STR/GEO *****

*
 *

* ULS STR/GEO OPE - VERTICAL (PERMANENT) *****
 LOAD COMB 1100 1.5(DL+EO+VL)+1.0HL
 100 1.5 115 1.5 190 1.5 191 1.5 192 1.5 210 1.0
 LOAD COMB 1101 1.3(DL+EO+VL)+1.0HL
 100 1.3 115 1.3 190 1.3 191 1.3 192 1.3 210 1.0
 *

* ULS STR/GEO OPE - THERMAL AMBIENTAL *****
 LOAD COMB 1102 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 1.0 145 1.0 146 1.0
 LOAD COMB 1103 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.0 145 1.0 146 1.0
 LOAD COMB 1104 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL-0.6TLT-0.6TLFX-0.6FLFZ)
 100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.0 145 -1.0 146 -1.0
 LOAD COMB 1105 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 1.0 145 1.0 146 1.0
 LOAD COMB 1106 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.0 145 1.0 146 1.0
 LOAD COMB 1107 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
 100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.0 145 -1.0 146 -1.0
 *

LOAD COMB 1108 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL+TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 1.65 145 1.0 146 1.0
 LOAD COMB 1109 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL-TLT+0.6TLFX+0.6TLFZ)
 100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.65 145 1.0 146 1.0
 LOAD COMB 1110 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL-TLT-0.6TLFX-0.6FLFZ)
 100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
 150 -1.65 145 -1.0 146 -1.0

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 1111 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL+TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 1.65 145 1.0 146 1.0

LOAD COMB 1112 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 1.0 146 1.0

LOAD COMB 1113 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 -1.0 146 -1.0

*

*

* ULS STR/GEO OPE - THERMAL PIPES *****

LOAD COMB 1114 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0

LOAD COMB 1115 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0

LOAD COMB 1116 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0

LOAD COMB 1117 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0

LOAD COMB 1118 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0

LOAD COMB 1119 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0

*

LOAD COMB 1120 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.65 146 1.65

LOAD COMB 1121 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.65 146 1.65

LOAD COMB 1122 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-TLFX-TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.65 146 -1.65

LOAD COMB 1123 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.65 146 1.65

LOAD COMB 1124 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.65 146 1.65

LOAD COMB 1125 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-TLFX-TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.65 146 -1.65

*

*

* ULS STR/GEO OPE - WIND (OVERTURNING) *****

LOAD COMB 1126 0.9(DL+EO+TLSX+TLSZ+VL)+HL+1.65WLX

ROTTERDAM SITE DEVELOPMENT NESTE

100 0.9 115 0.9 140 0.9 141 0.9 190 0.9 191 0.9 192 0.9 210 1.0 160 1.65

LOAD COMB 1127 0.9(DL+EO-TLSX-TLSZ+VL)+HL-1.65WLX

100 0.9 115 0.9 140 -0.9 141 -0.9 190 0.9 191 0.9 192 0.9 210 1.0 160 -1.65

LOAD COMB 1128 0.9(DL+EO-TLSX-TLSZ+VL)+HL+1.65WLZ

100 0.9 115 0.9 140 0.9 141 0.9 190 0.9 191 0.9 192 0.9 210 1.0 161 1.65

LOAD COMB 1129 0.9(DL+EO-TLSX-TLSZ+VL)+HL-1.65WLZ

100 0.9 115 0.9 140 -0.9 141 -0.9 190 0.9 191 0.9 192 0.9 210 1.0 161 -1.65

*

* ULS STR/GEO OPE - LIVE *****

LOAD COMB 1130 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)

100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

185 1.0

LOAD COMB 1131 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)

100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

185 1.0

*

LOAD COMB 1132 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)

100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -

185 1.0

LOAD COMB 1133 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)

100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -

185 1.0

*

*

* ULS STR/GEO OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 1134 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 1.0 145 1.0 146 1.0

LOAD COMB 1135 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)

100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 -1.0 145 1.0 146 1.0

LOAD COMB 1136 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)

100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 -1.0 145 -1.0 146 -1.0

LOAD COMB 1137 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 1.0 145 1.0 146 1.0

LOAD COMB 1138 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)

100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 -1.0 145 1.0 146 1.0

LOAD COMB 1139 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)

100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -

150 -1.0 145 -1.0 146 -1.0

*

LOAD COMB 1140 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -

150 1.0 145 1.0 146 1.0

LOAD COMB 1141 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)

100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -

150 -1.0 145 1.0 146 1.0

LOAD COMB 1142 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)

100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -

150 -1.0 145 -1.0 146 -1.0

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 1143 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0

LOAD COMB 1144 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0

LOAD COMB 1145 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0

*

*

* ULS STR/GEO OPE - WIND *****

LOAD COMB 1146 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+W LX+0.6IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
160 1.65 185 1.0

LOAD COMB 1147 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-W LX+0.6IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
160 -1.65 185 1.0

LOAD COMB 1148 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+W LZ+0.6IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
161 1.65 185 1.0

LOAD COMB 1149 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-W LZ+0.6IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
161 -1.65 185 1.0

*

* ULS STR/GEO OPE - SNOW *****

LOAD COMB 1150 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL+SL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.1 125 1.65

LOAD COMB 1151 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL+SL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.1 125 1.65

*

*

* ULS STR/GEO OPE - IMPACT *****

LOAD COMB 1152 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0

LOAD COMB 1153 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0

*

LOAD COMB 1154 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.65

LOAD COMB 1155 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.65

*

*

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***** TEST ULS STR/GEO *****

ROTTERDAM SITE DEVELOPMENT NESTE

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*****
* ULS STR/GEO TEST - VERTICAL (PERMANENT) *****
LOAD COMB 1200 1.5(DL+ET)+1.0HL
100 1.5 120 1.5 210 1.0
*
LOAD COMB 1201 1.3(DL+ET)+1.0HL
100 1.3 120 1.3 210 1.0
*
*
* ULS STR/GEO TEST - WIND-REDUCED VALUE (OVERTURNING) *****
LOAD COMB 1202 0.9(DL+ET)+HL+1.65WLX50%
100 0.9 120 0.9 210 1.0 162 1.65
LOAD COMB 1203 0.9(DL+ET)+HL-1.65WLX50%
100 0.9 120 0.9 210 1.0 162 -1.65
LOAD COMB 1204 0.9(DL+ET)+HL+1.65WLZ50%
100 0.9 120 0.9 210 1.0 163 1.65
LOAD COMB 1205 0.9(DL+ET)+HL-1.65WLZ50%
100 0.9 120 0.9 210 1.0 163 -1.65
*
* ULS STR/GEO TEST - LIVE *****
LOAD COMB 1206 1.5(DL+ET)+1.0HL+1.65(LL+0.6IL)
100 1.5 120 1.5 210 1.0 130 1.65 185 1.1
*
LOAD COMB 1207 1.3(DL+ET)+1.0HL+1.65(LL+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 185 1.0
*
*
* ULS STR/GEO TEST - WIND-REDUCED VALUE *****
LOAD COMB 1208 1.3(DL+ET)+1.0HL+1.65(LL+WLX50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 162 1.65 185 1.0
LOAD COMB 1209 1.3(DL+ET)+1.0HL+1.65(LL-WLX50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 162 -1.65 185 1.0
LOAD COMB 1210 1.3(DL+ET)+1.0HL+1.65(LL+WLZ50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 163 1.65 185 1.0
LOAD COMB 1211 1.3(DL+ET)+1.0HL+1.65(LL-WLZ50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 163 -1.65 185 1.0
*
* ULS STR/GEO TEST - SNOW *****
LOAD COMB 1212 1.3(DL+ET)+1.0HL+1.65(LL+0.6IL+SL)
100 1.3 120 1.3 210 1.0 130 1.65 185 1.0 125 1.65
*
*
* ULS STR/GEO TEST - IMPACT *****
LOAD COMB 1213 1.5(DL+ET)+1.0HL+1.65(LL+0.6IL)
100 1.5 120 1.5 210 1.0 130 1.65 185 1.0
*
LOAD COMB 1214 1.3(DL+ET)+1.0HL+1.65(LL+IL)
100 1.3 120 1.3 210 1.0 130 1.65 185 1.65
*
*
*
*****
***** MAINTENANCE ULS STR/GEO *****

```


ROTTERDAM SITE DEVELOPMENT NESTE

```

*****
*
* ULS STR/GEO MAINTENANCE - MAINTENANCE (OVERTURNING) *****
LOAD COMB 1250 0.9(DL+EE)+HL+1.65(ML+BL+0.6IL)
100 0.9 110 0.9 210 1.0 180 1.65 195 1.65 185 1.0
*
*
* ULS STR/GEO MAINTENANCE - MAINTENANCE *****
LOAD COMB 1251 1.5(DL+EE)+1.0HL+1.65(LL+ML+BL+0.6IL)
100 1.5 110 1.5 210 1.0 130 1.65 180 1.65 195 1.65 185 1.0
*
LOAD COMB 1252 1.3(DL+EE)+1.0HL+1.65(LL+ML+BL+0.6IL)
100 1.3 110 1.3 210 1.0 130 1.65 180 1.65 195 1.65 185 1.0
*
*
*
*****
***** COMBINATION ULS-EQU *****
*****
*
*
*
*****
***** EMPTY & CONSTRUCTION ULS - EQU *****
*****
*
* ULS EQU E&C - VERTICAL (PERMANENT) *****
LOAD COMB 2000 1.1(DL+EE+HL)
100 1.1 110 1.1 210 1.1
*
* ULS EQU E&C - THERMAL AMBIENTAL *****
LOAD COMB 2001 0.9(DE+EE+HL)+1.5TLT
100 0.9 110 0.9 210 0.9 150 1.5
LOAD COMB 2002 0.9(DL+EE+HL)-1.5TLT
100 0.9 110 0.9 210 0.9 150 -1.5
*
* ULS EQU E&C - WIND (OVERTURNING) *****
LOAD COMB 2003 0.9(DL+EE+HL)+1.5WLX
100 0.9 110 0.9 210 0.9 160 1.5
LOAD COMB 2004 0.9(DL+EE+HL)-1.5WLX
100 0.9 110 0.9 210 0.9 160 -1.5
LOAD COMB 2005 0.9(DL+EE+HL)+1.5WLZ
100 0.9 110 0.9 210 0.9 161 1.5
LOAD COMB 2006 0.9(DL+EE+HL)-1.5WLZ
100 0.9 110 0.9 210 0.9 161 -1.5
*
* ULS EQU E&C - CONSTRUCTION *****
LOAD COMB 2007 1.1(DL+EE+HL)+1.5(CL)
100 1.1 110 1.1 210 1.1 200 1.5
*
* ULS EQU E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****
LOAD COMB 2008 1.1(DE+EE+HL)+1.5(0.6TLT+CL)

```

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.1 110 1.1 210 1.1 150 0.9 200 1.5

LOAD COMB 2009 1.1(DE+EE+HL)+1.5(-0.6TLT+CL)

100 1.1 110 1.1 210 1.1 150 -0.9 200 1.5

*

* ULS EQU E&C - WIND *****

LOAD COMB 2010 1.1(DL+EE+HL)+1.5(WLX+0.7CL)

100 1.1 110 1.1 210 1.1 160 1.5 200 1.05

LOAD COMB 2011 1.1(DL+EE+HL)+1.5(-WLX+0.7CL)

100 1.1 110 1.1 210 1.1 160 -1.5 200 1.05

LOAD COMB 2012 1.1(DL+EE+HL)+1.5(WLZ+0.7CL)

100 1.1 110 1.1 210 1.1 161 1.5 200 1.05

LOAD COMB 2013 1.1(DL+EE+HL)+1.5(-WLZ+0.7CL)

100 1.1 110 1.1 210 1.1 161 -1.5 200 1.05

*

* ULS EQU E&C - SNOW *****

LOAD COMB 2014 1.1(DL+EE+HL)+1.5(0.7CL+SL)

100 1.1 110 1.1 210 1.1 200 1.05 125 1.5

*

*

*

*

***** OPERATING ULS EQU *****

*

*

* ULS EQU OPE - VERTICAL (PERMANENT) *****

LOAD COMB 2100 1.1(DL+EO+HL+VL)

100 1.1 115 1.1 210 1.1 190 1.1 191 1.1 192 1.1

*

* ULS EQU OPE - THERMAL AMBIENTAL *****

LOAD COMB 2101 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL+TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 1.5 145 0.9 146 0.9

LOAD COMB 2102 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL-TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 -1.5 145 0.9 146 0.9

LOAD COMB 2103 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL-TLT-0.6TLFX-0.6TLFZ)

100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 -1.5 145 -0.9 146 -0.9

LOAD COMB 2104 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL+TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 1.5 145 0.9 146 0.9

LOAD COMB 2105 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL-TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 -1.5 145 0.9 146 0.9

LOAD COMB 2106 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL-TLT-0.6TLFX-0.6TLFZ)

100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 -1.5 145 -0.9 146 -0.9

*

* ULS EQU OPE - THERMAL PIPES *****

LOAD COMB 2107 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6TLT+TLFX+TLFZ)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

ROTTERDAM SITE DEVELOPMENT NESTE

150 0.9 145 1.5 146 1.5
LOAD COMB 2108 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 1.5 146 1.5
LOAD COMB 2109 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT-TLFX-TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -1.5 146 -1.5
LOAD COMB 2110 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 1.5 146 1.5
LOAD COMB 2111 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 1.5 146 1.5
LOAD COMB 2112 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT-TLFX-TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -1.5 146 -1.5
*
* ULS EQU OPE - WIND (OVERTURNING) *****
LOAD COMB 2113 0.9(DL+EO+TLSX+TLSZ+HL+VL)+1.5WLX
100 0.9 115 0.9 140 0.9 141 0.9 210 0.9 190 0.9 191 0.9 192 0.9 160 1.5
LOAD COMB 2114 0.9(DL+EO-TLSX-TLSZ+HL+VL)-1.5WLX
100 0.9 115 0.9 140 -0.9 141 -0.9 210 0.9 190 0.9 191 0.9 192 0.9 160 -1.5
LOAD COMB 2115 0.9(DL+EO+TLSX+TLSZ+HL+VL)+1.5WLZ
100 0.9 115 0.9 140 0.9 141 0.9 210 0.9 190 0.9 191 0.9 192 0.9 161 1.5
LOAD COMB 2116 0.9(DL+EO-TLSX-TLSZ+HL+VL)-1.5WLZ
100 0.9 115 0.9 140 -0.9 141 -0.9 210 0.9 190 0.9 191 0.9 192 0.9 161 -1.5
*
* ULS EQU OPE - LIVE *****
LOAD COMB 2117 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9
LOAD COMB 2118 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6IL)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9
*
* ULS EQU OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****
LOAD COMB 2119 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 0.9 146 0.9
LOAD COMB 2120 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 0.9 146 0.9
LOAD COMB 2121 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -0.9 146 -0.9
LOAD COMB 2122 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 0.9 146 0.9
LOAD COMB 2123 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 0.9 146 0.9
LOAD COMB 2124 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

ROTTERDAM SITE DEVELOPMENT NESTE

150 -0.9 145 -0.9 146 -0.9

*

* ULS EQU OPE - WIND *****

LOAD COMB 2125 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+WLX+0.6IL)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

160 1.5 185 0.9

LOAD COMB 2126 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-WLX+0.6IL)

100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

160 -1.5 185 0.9

LOAD COMB 2127 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+WLZ+0.6IL)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

161 1.5 185 0.9

LOAD COMB 2128 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-WLZ+0.6IL)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

161 -1.5 185 0.9

*

* ULS EQU OPE - SNOW *****

LOAD COMB 2129 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6IL+SL)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

185 0.9 125 1.5

LOAD COMB 2130 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6IL+SL)

100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

185 0.9 125 1.5

*

* ULS EQU OPE - IMPACT *****

LOAD COMB 2131 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+IL)

100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

185 1.5

LOAD COMB 2132 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+IL)

100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -

185 1.5

*

*

*

***** TEST ULS EQU *****

* ULS EQU TEST - VERTICAL (PERMANENT) *****

LOAD COMB 2200 1.1(DL+ET+HL)

100 1.1 120 1.1 210 1.1

*

* ULS EQU TEST - WIND-REDUCED VALUE (OVERTURNING) *****

LOAD COMB 2201 0.9(DL+ET+HL)+1.5WLX50%

100 0.9 120 0.9 210 0.9 162 1.5

LOAD COMB 2202 0.9(DL+ET+HL)-1.5WLX50%

100 0.9 120 0.9 210 0.9 162 -1.5

LOAD COMB 2203 0.9(DL+ET+HL)+1.5WLZ50%

100 0.9 120 0.9 210 0.9 163 1.5

LOAD COMB 2204 0.9(DL+ET+HL)-1.5WLZ50%

100 0.9 120 0.9 210 0.9 163 -1.5

*

* ULS EQU TEST - LIVE *****

LOAD COMB 2205 1.1(DL+ET+HL)+1.5(LL+0.6IL)

**ROTTERDAM SITE DEVELOPMENT
NESTE**

100 1.1 120 1.1 210 1.1 130 1.5 185 0.9

*

* ULS EQU TEST - WIND-REDUCED VALUE *****

LOAD COMB 2206 1.1(DL+ET+HL)+1.5(LL+WLX50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 162 1.5 185 0.9

LOAD COMB 2207 1.1(DL+ET+HL)+1.5(LL-WLX50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 162 -1.5 185 0.9

LOAD COMB 2208 1.1(DL+ET+HL)+1.5(LL+WLZ50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 163 1.5 185 0.9

LOAD COMB 2209 1.1(DL+ET+HL)+1.5(LL-WLZ50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 163 -1.5 185 0.9

*

* ULS EQU TEST - SNOW *****

LOAD COMB 2210 1.1(DL+ET+HL)+1.5(LL+0.6IL+SL)

100 1.1 120 1.1 210 1.1 130 1.5 185 0.9 125 1.5

*

* ULS EQU TEST - IMPACT *****

LOAD COMB 2211 1.1(DL+ET+HL)+1.5(LL+IL)

100 1.1 120 1.1 210 1.1 130 1.5 185 1.5

*

*

*

***** MAINTENANCE ULS EQU *****

*

* ULS EQU MAINTENANCE - MAINTENANCE (OVERTURNING) *****

LOAD COMB 2250 0.9(DL+EE+HL)+1.5(LL+ML+BL+0.6IL)

100 0.9 110 0.9 210 0.9 130 1.5 180 1.5 195 1.5 185 0.9

*

* ULS EQU MAINTENANCE - MAINTENANCE *****

LOAD COMB 2251 1.1(DL+EE+HL)+1.5(LL+ML+BL+0.6IL)

100 1.1 110 1.1 210 1.1 130 1.5 180 1.5 195 1.5 185 0.9

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*

PERFORM ANALYSIS PRINT ALL

*

LOAD LIST 300 TO 314 400 TO 432 500 TO 511 550

PRINT STORY DRIFT

*

*

***** ENVELOPES *****

DEFINE ENVELOPE

*ENVELOPE 1 FOR SERVICEABILITY CHECKS

300 TO 314 400 TO 432 500 TO 511 550 ENVELOPE 1 TYPE SERVICEABILITY

*ENVELOPE 2 FOR STR/GEO CHECKS

**ROTTERDAM SITE DEVELOPMENT
NESTE**

1000 TO 1020 1100 TO 1155 1200 TO 1214 1250 TO 1252 ENVELOPE 2 TYPE STRENGTH
*ENVELOPE 3 FOR EQU CHECKS
2000 TO 2014 2100 TO 2132 2200 TO 2211 2250 2251 ENVELOPE 3 TYPE STRENGTH
END DEFINE ENVELOPE

*

**

FINISH

ROTTERDAM SITE DEVELOPMENT NESTE

ATT. B Input STAAD.Pro Structure A20-PR-1100

```

STAAD SPACE
START JOB INFORMATION
JOB NAME JET+IP
JOB NO 080871C
JOB REV A
JOB PART 000
JOB REF STRUCTURE NAME
JOB CLIENT NESTE
ENGINEER DATE *DD/MM/YYYY*
END JOB INFORMATION
INPUT WIDTH 79
INPUT WIDTH 79
OUTPUT WIDTH 118
SET NL 200
UNIT METER KN
JOINT COORDINATES
1 0 1.5 0; 2 0 7.58001 0; 3 8.00002 1.5 0; 4 8.00002 7.58001 0; 5 2 1.5 10.95;
6 2 5.60001 10.95; 7 2 7.80001 10.95; 8 2 11 10.95; 9 2 13.6 10.95;
10 2 1.5 15.95; 11 2 5.60001 15.95; 12 2 7.80001 15.95; 13 2 11 15.95;
14 2 13.6 15.95; 15 2 5.60001 13.45; 16 2 7.80001 13.45; 17 2 11 13.45;
18 2 13.6 13.45; 19 4.00001 7.58001 0; 20 5.00001 1.5 10.95;
21 5.00001 5.60001 10.95; 22 5.00001 7.80001 10.95; 23 5.00001 11 10.95;
24 5.00001 13.6 10.95; 25 5.00001 1.5 15.95; 26 5.00001 5.60001 15.95;
27 5.00001 7.80001 15.95; 28 5.00001 11 15.95; 29 5.00001 13.6 15.95;
30 5.00001 5.60001 13.45; 31 5.00001 7.80001 13.45; 34 8.00002 1.5 10.95;
35 8.00002 5.60001 10.95; 36 8.00002 7.80001 10.95; 37 8.00002 11 10.95;
38 8.00002 13.6 10.95; 39 8.00002 1.5 15.95; 40 8.00002 5.60001 15.95;
41 8.00002 7.80001 15.95; 42 8.00002 11 15.95; 43 8.00002 13.6 15.95;
44 8.00002 5.60001 13.45; 45 8.00002 7.80001 13.45; 48 5.00001 9.30002 10.95;
49 5.00001 9.30002 15.95; 50 8.00002 9.30002 10.95; 51 8.00002 9.30002 15.95;
52 5.00001 11.65 10.95; 53 5.00001 11.65 13.45; 54 5.00001 11.65 15.95;
55 5.00001 12.3 10.95; 56 8.00002 12.3 10.95; 57 5.00001 12.3 15.95;
58 8.00002 12.3 15.95; 59 5.00001 12.95 10.95; 61 5.00001 12.95 15.95;
62 8.00002 12.95 10.95; 63 8.00002 12.95 15.95; 64 8.00002 11.65 10.95;
65 8.00002 11.65 13.45; 66 8.00002 11.65 15.95; 67 2 9.30002 15.95;
68 2 8.30001 15.95; 69 5.00001 8.30002 15.95; 70 5.00001 1.5 19.95;
72 5.00001 7.80001 19.95; 73 5.00001 8.30002 19.95; 74 5.00001 11 19.95;
75 5.00001 11.65 19.95; 76 5.00001 13.6 19.95; 77 8.00002 13.6 19.95;
78 8.00002 1.5 19.95; 80 8.00002 7.80001 19.95; 81 8.00002 9.30002 19.95;
82 8.00002 11 19.95; 83 8.00002 11.65 19.95; 84 5.00001 9.30002 19.95;
85 5.00001 12.3 19.95; 86 5.00001 12.95 19.95; 87 8.00002 12.3 19.95;
88 8.00002 12.95 19.95; 89 5.00001 11 7.74999; 90 8.00002 11 7.74999;
91 5.00001 9.30002 7.74999; 92 8.00002 9.30002 7.74999; 93 5.00001 11 8.79966;
94 5.00001 11 9.90033; 95 8.00002 11 8.79966; 96 8.00002 11 9.90033;
97 6.50001 11 7.74999; 98 6.50001 11 10.95; 99 6.50001 11 8.79966;
100 6.50001 11 9.90033; 101 5.00001 7.80002 7.74999;
102 8.00002 7.80002 7.74999; 103 5.00001 9.30002 4.64999;
104 8.00002 9.30002 4.64999; 105 5.00001 7.80002 4.64999;
106 8.00002 7.80002 4.64999; 107 5.00001 9.30002 -2.17041e-05;
108 8.00002 9.30002 -2.17041e-05; 109 5.00001 7.80002 -2.17041e-05;
110 8.00002 7.80002 -2.17041e-05; 111 5.00001 7.58001 0;

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ROTTERDAM SITE DEVELOPMENT NESTE

112 5.00001 9.30002 -2.75003; 113 8.00002 9.30002 -2.75003;
 114 5.00001 7.80002 -2.75003; 115 8.00002 7.80002 -2.75003;
 116 5.00001 7.80002 -1.37503; 117 8.00002 7.80002 -1.37503;
 118 5.00001 9.30002 -1.37503; 119 8.00002 9.30002 -1.37503;
 120 5.00001 7.80002 1.54998; 121 5.00001 7.80002 3.09999;
 122 8.00002 7.80002 1.54998; 123 8.00002 7.80002 3.09999;
 124 5.00001 9.30002 1.54998; 125 5.00001 9.30002 3.09999;
 126 8.00002 9.30002 1.54998; 127 8.00002 9.30002 3.09999;
 128 5.00001 12.3 4.64999; 129 8.00002 12.3 4.64999;
 130 5.00001 12.3 -2.17041e-05; 131 8.00002 12.3 -2.17041e-05;
 132 5.00001 9.30002 9.35; 133 8.00002 9.30002 9.35; 134 5.00001 7.80002 9.35;
 135 8.00002 7.80002 9.35; 136 5.00001 7.80002 6.19999;
 137 8.00002 7.80002 6.19999; 138 5.00001 9.30002 6.19999;
 139 8.00002 9.30002 6.19999; 140 9.30002 13.6 10.95; 141 9.30002 13.6 15.95;
 142 9.30002 13.6 19.95; 143 9.10002 13.6 10.95; 144 9.10002 13.6 15.95;
 145 9.10002 13.6 19.95; 146 8.00002 12.5 10.95; 147 8.00002 12.5 15.95;
 148 8.00002 12.5 19.95; 149 5.00001 13.6 12.3; 150 8.00002 13.6 12.3;
 152 9.30002 13.6 12.3; 153 5.00001 13.6 13.3; 154 8.00002 13.6 13.3;
 155 9.30002 13.6 13.3; 156 5.00001 13.6 14.3; 157 8.00002 13.6 14.3;
 158 9.30002 13.6 14.3; 159 5.00001 13.6 15.1; 160 8.00002 13.6 15.1;
 161 9.30002 13.6 15.1; 162 5.00001 13.6 17.3; 163 8.00002 13.6 17.3;
 164 9.30002 13.6 17.3; 165 5.00001 13.6 18.6; 166 8.00002 13.6 18.6;
 167 9.30002 13.6 18.6; 168 5.00001 13.6 20.95; 169 8.00002 13.6 20.95;
 171 9.30002 13.6 20.95; 172 5.00001 12.5 19.95; 173 6.00001 13.6 10.95;
 174 7.00002 13.6 10.95; 175 6.00001 13.6 15.95; 176 7.00002 13.6 15.95;
 177 6.00001 13.6 19.95; 178 7.00002 13.6 19.95; 179 6.00001 13.6 12.3;
 180 7.00002 13.6 12.3; 181 6.00001 13.6 13.3; 182 7.00002 13.6 13.3;
 183 6.00001 13.6 14.3; 184 7.00002 13.6 14.3; 185 6.00001 13.6 15.1;
 186 7.00002 13.6 15.1; 187 6.00001 13.6 17.3; 188 7.00002 13.6 17.3;
 189 6.00001 13.6 18.6; 190 7.00002 13.6 18.6; 191 6.00001 13.6 20.95;
 192 7.00002 13.6 20.95; 193 5.00001 7.80001 12.6; 194 8.00002 7.80001 12.6;
 195 5.00001 9.30002 12.6; 196 8.00002 9.30002 12.6; 197 5.00001 7.80001 14.3;
 198 8.00002 7.80001 14.3; 199 5.00001 9.30002 14.3; 200 8.00002 9.30002 14.3;
 201 8.00002 9.30002 17.95; 202 5.00001 9.30002 17.95;
 203 5.00001 7.80001 17.95; 204 8.00002 7.80001 17.95; 205 8.00002 1.5 23.05;
 206 8.00002 7.80001 23.05; 207 8.00002 9.30002 23.05;
 208 5.00001 7.80001 23.05; 209 5.00001 9.30002 23.05; 210 5.00001 7.80001 21.5;
 211 8.00002 7.80001 21.5; 212 5.00001 9.30002 21.5; 213 8.00002 9.30002 21.5;
 214 2 11 9.90033; 215 2 9.95 10.95; 216 3.5 11 10.95; 217 3.50001 11 9.90033;
 218 2 5.60001 10.15; 219 5.00001 5.60001 10.15; 220 3.5 5.60001 10.95;
 221 3.5 5.60001 10.15; 222 2 4.80001 10.95; 223 5.00001 4.80001 10.95;
 228 5.00001 10.8 -2.17041e-05; 229 8.00002 10.8 -2.17041e-05;
 230 5.00001 10.8 4.64999; 231 8.00002 10.8 4.64999; 232 2 13.6 15.1;
 233 3.5 13.6 15.95; 234 3.5 13.6 15.1; 240 8.00002 13.6 10.15;
 241 9.00002 7.80001 10.95; 242 8.00002 7.80002 9.95; 243 9.00002 7.80001 9.95;
 244 8.00002 6.80001 10.95; 245 2 2.6 15.95; 246 5.00001 2.6 15.95;
 247 2 5.30001 15.95; 248 5.00001 5.30001 15.95; 249 8.00002 5.30001 15.95;
 250 2 5.30001 16.45; 251 5.00001 5.30001 16.45; 252 8.00002 5.30001 16.45;
 253 0 -0.500004 0; 254 8.00002 -0.500004 0; 255 2 -0.500004 10.95;
 257 5.00001 -0.500004 10.95; 259 8.00002 -0.500004 10.95;
 261 5.00001 -0.500004 19.95; 262 8.00002 -0.500004 19.95;
 263 8.00002 -0.500004 23.05; 264 2 -0.500004 12.1; 265 5.00001 -0.500004 12.1;
 266 8.00002 -0.500004 12.1; 267 2 -0.500004 9.8; 268 5.00001 -0.500004 9.8;

ROTTERDAM SITE DEVELOPMENT NESTE

269 8.00002 -0.500004 9.8; 270 0.849998 -0.500004 12.1;
 271 0.849998 -0.500004 9.8; 272 0.849998 -0.500004 10.95;
 273 9.15002 -0.500004 10.95; 274 9.15002 -0.500004 12.1;
 275 9.15002 -0.500004 9.8; 276 1.31 -0.500004 12.1; 277 1.31 -0.500004 9.8;
 278 1.31 -0.500004 10.95; 279 8.69002 -0.500004 10.95;
 280 8.69002 -0.500004 12.1; 281 8.69002 -0.500004 9.8; 282 2 -0.500004 10.26;
 283 5.00001 -0.500004 10.26; 284 8.00002 -0.500004 10.26;
 285 0.849998 -0.500004 10.26; 286 9.15002 -0.500004 10.26;
 287 1.31 -0.500004 10.26; 288 8.69002 -0.500004 10.26; 289 2 -0.500004 11.64;
 290 5.00001 -0.500004 11.64; 291 8.00002 -0.500004 11.64;
 292 0.849998 -0.500004 11.64; 293 9.15002 -0.500004 11.64;
 294 1.31 -0.500004 11.64; 295 8.69002 -0.500004 11.64; 296 3.77 -0.500004 12.1;
 297 3.77 -0.500004 9.8; 298 3.77 -0.500004 10.95; 299 3.77 -0.500004 10.26;
 300 3.77 -0.500004 11.64; 301 6.23002 -0.500004 10.95;
 302 6.23002 -0.500004 12.1; 303 6.23002 -0.500004 9.8;
 304 6.23002 -0.500004 10.26; 305 6.23002 -0.500004 11.64;
 306 1.655 -0.500004 11.64; 307 1.655 -0.500004 11.295;
 308 1.31 -0.500004 11.295; 309 2 -0.500004 11.295; 310 1.655 -0.500004 10.95;
 311 1.655 -0.500004 10.605; 312 1.31 -0.500004 10.605; 313 2 -0.500004 10.605;
 314 1.655 -0.500004 10.26; 315 8.34502 -0.500004 11.64;
 316 8.34502 -0.500004 11.295; 317 8.00002 -0.500004 11.295;
 318 8.69002 -0.500004 11.295; 319 8.34502 -0.500004 10.95;
 320 8.34502 -0.500004 10.605; 321 8.00002 -0.500004 10.605;
 322 8.69002 -0.500004 10.605; 323 8.34502 -0.500004 10.26;
 324 1.655 -0.500004 9.8; 325 1.655 -0.500004 12.1; 326 8.34502 -0.500004 12.1;
 327 8.34502 -0.500004 9.8; 328 0.849998 -0.500004 10.605;
 329 0.849998 -0.500004 11.295; 330 9.15002 -0.500004 11.295;
 331 9.15002 -0.500004 10.605; 332 2.354 -0.500004 10.26;
 333 2.354 -0.500004 9.8; 334 2.708 -0.500004 10.26; 335 2.708 -0.500004 9.8;
 336 3.062 -0.500004 10.26; 337 3.062 -0.500004 9.8; 338 3.416 -0.500004 10.26;
 339 3.416 -0.500004 9.8; 340 2.354 -0.500004 12.1; 341 2.354 -0.500004 11.64;
 342 2.708 -0.500004 12.1; 343 2.708 -0.500004 11.64; 344 3.062 -0.500004 12.1;
 345 3.062 -0.500004 11.64; 346 3.416 -0.500004 12.1; 347 3.416 -0.500004 11.64;
 348 6.58402 -0.500004 12.1; 349 6.58402 -0.500004 11.64;
 350 6.93802 -0.500004 12.1; 351 6.93802 -0.500004 11.64;
 352 7.29202 -0.500004 12.1; 353 7.29202 -0.500004 11.64;
 354 7.64602 -0.500004 12.1; 355 7.64602 -0.500004 11.64;
 356 6.58402 -0.500004 10.26; 357 6.58402 -0.500004 9.8;
 358 6.93802 -0.500004 10.26; 359 6.93802 -0.500004 9.8;
 360 7.29202 -0.500004 10.26; 361 7.29202 -0.500004 9.8;
 362 7.64602 -0.500004 10.26; 363 7.64602 -0.500004 9.8;
 364 4.18001 -0.500004 10.26; 365 4.18001 -0.500004 9.8;
 366 4.59001 -0.500004 10.26; 367 4.59001 -0.500004 9.8;
 368 4.18001 -0.500004 12.1; 369 4.18001 -0.500004 11.64;
 370 4.59001 -0.500004 12.1; 371 4.59001 -0.500004 11.64;
 372 5.41001 -0.500004 12.1; 373 5.41001 -0.500004 11.64;
 374 5.82001 -0.500004 12.1; 375 5.82001 -0.500004 11.64;
 376 5.41001 -0.500004 10.26; 377 5.41001 -0.500004 9.8;
 378 5.82001 -0.500004 10.26; 379 5.82001 -0.500004 9.8;
 380 2.354 -0.500004 11.295; 381 2.708 -0.500004 11.295;
 382 3.062 -0.500004 11.295; 383 3.416 -0.500004 11.295;
 384 3.77 -0.500004 11.295; 385 2.354 -0.500004 10.95;
 386 2.708 -0.500004 10.95; 387 3.062 -0.500004 10.95;

ROTTERDAM SITE DEVELOPMENT NESTE

388 3.416 -0.500004 10.95; 389 2.354 -0.500004 10.605;
 390 2.708 -0.500004 10.605; 391 3.062 -0.500004 10.605;
 392 3.416 -0.500004 10.605; 393 3.77 -0.500004 10.605;
 394 6.58402 -0.500004 11.295; 395 6.23002 -0.500004 11.295;
 396 6.93802 -0.500004 11.295; 397 7.29202 -0.500004 11.295;
 398 7.64602 -0.500004 11.295; 399 6.58402 -0.500004 10.95;
 400 6.93802 -0.500004 10.95; 401 7.29202 -0.500004 10.95;
 402 7.64602 -0.500004 10.95; 403 6.58402 -0.500004 10.605;
 404 6.23002 -0.500004 10.605; 405 6.93802 -0.500004 10.605;
 406 7.29202 -0.500004 10.605; 407 7.64602 -0.500004 10.605;
 408 5.41001 -0.500004 10.95; 409 5.41001 -0.500004 10.605;
 410 5.00001 -0.500004 10.605; 411 5.82001 -0.500004 10.95;
 412 5.82001 -0.500004 10.605; 413 4.18001 -0.500004 11.295;
 414 4.59001 -0.500004 11.295; 415 5.00001 -0.500004 11.295;
 416 4.18001 -0.500004 10.95; 417 4.59001 -0.500004 10.95;
 418 4.18001 -0.500004 10.605; 419 4.59001 -0.500004 10.605;
 420 5.41001 -0.500004 11.295; 421 5.82001 -0.500004 11.295;
 422 0.849998 -0.500004 15.26; 423 1.31 -0.500004 15.26;
 424 1.31 -0.500004 14.8; 425 0.849998 -0.500004 14.8;
 426 0.849998 -0.500004 17.1; 427 1.31 -0.500004 17.1; 428 1.31 -0.500004 16.64;
 429 0.849998 -0.500004 16.64; 430 8.69002 -0.500004 17.1;
 431 9.15002 -0.500004 17.1; 432 9.15002 -0.500004 16.64;
 433 8.69002 -0.500004 16.64; 434 8.69002 -0.500004 15.26;
 435 9.15002 -0.500004 15.26; 436 9.15002 -0.500004 14.8;
 437 8.69002 -0.500004 14.8; 438 1.655 -0.500004 16.64;
 439 1.655 -0.500004 16.295; 440 1.31 -0.500004 16.295; 441 2 -0.500004 16.64;
 442 2 -0.500004 16.295; 443 1.655 -0.500004 15.95; 444 1.31 -0.500004 15.95;
 445 2 -0.500004 15.95; 446 1.655 -0.500004 15.605; 447 1.31 -0.500004 15.605;
 448 2 -0.500004 15.605; 449 1.655 -0.500004 15.26; 450 2 -0.500004 15.26;
 451 8.00002 -0.500004 16.64; 452 8.34502 -0.500004 16.64;
 453 8.34502 -0.500004 16.295; 454 8.00002 -0.500004 16.295;
 455 8.69002 -0.500004 16.295; 456 8.34502 -0.500004 15.95;
 457 8.00002 -0.500004 15.95; 458 8.69002 -0.500004 15.95;
 459 8.34502 -0.500004 15.605; 460 8.00002 -0.500004 15.605;
 461 8.69002 -0.500004 15.605; 462 8.34502 -0.500004 15.26;
 463 8.00002 -0.500004 15.26; 464 1.655 -0.500004 14.8; 465 2 -0.500004 14.8;
 466 1.655 -0.500004 17.1; 467 2 -0.500004 17.1; 468 8.00002 -0.500004 17.1;
 469 8.34502 -0.500004 17.1; 470 8.34502 -0.500004 14.8;
 471 8.00002 -0.500004 14.8; 472 0.849998 -0.500004 15.95;
 473 0.849998 -0.500004 15.605; 474 0.849998 -0.500004 16.295;
 475 9.15002 -0.500004 16.295; 476 9.15002 -0.500004 15.95;
 477 9.15002 -0.500004 15.605; 478 2.354 -0.500004 15.26;
 479 2.354 -0.500004 14.8; 480 2.708 -0.500004 15.26; 481 2.708 -0.500004 14.8;
 482 3.062 -0.500004 15.26; 483 3.062 -0.500004 14.8; 484 3.416 -0.500004 15.26;
 485 3.416 -0.500004 14.8; 486 3.77 -0.500004 15.26; 487 3.77 -0.500004 14.8;
 488 2.354 -0.500004 17.1; 489 2.354 -0.500004 16.64; 490 2.708 -0.500004 17.1;
 491 2.708 -0.500004 16.64; 492 3.062 -0.500004 17.1; 493 3.062 -0.500004 16.64;
 494 3.416 -0.500004 17.1; 495 3.416 -0.500004 16.64; 496 3.77 -0.500004 17.1;
 497 3.77 -0.500004 16.64; 498 6.23002 -0.500004 17.1;
 499 6.58402 -0.500004 17.1; 500 6.58402 -0.500004 16.64;
 501 6.23002 -0.500004 16.64; 502 6.93802 -0.500004 17.1;
 503 6.93802 -0.500004 16.64; 504 7.29202 -0.500004 17.1;
 505 7.29202 -0.500004 16.64; 506 7.64602 -0.500004 17.1;

ROTTERDAM SITE DEVELOPMENT NESTE

507 7.64602 -0.500004 16.64; 508 6.23002 -0.500004 15.26;
509 6.58402 -0.500004 15.26; 510 6.58402 -0.500004 14.8;
511 6.23002 -0.500004 14.8; 512 6.93802 -0.500004 15.26;
513 6.93802 -0.500004 14.8; 514 7.29202 -0.500004 15.26;
515 7.29202 -0.500004 14.8; 516 7.64602 -0.500004 15.26;
517 7.64602 -0.500004 14.8; 518 4.18001 -0.500004 15.26;
519 4.18001 -0.500004 14.8; 520 4.59001 -0.500004 15.26;
521 4.59001 -0.500004 14.8; 522 5.00001 -0.500004 15.26;
523 5.00001 -0.500004 14.8; 524 4.18001 -0.500004 17.1;
525 4.18001 -0.500004 16.64; 526 4.59001 -0.500004 17.1;
527 4.59001 -0.500004 16.64; 528 5.00001 -0.500004 17.1;
529 5.00001 -0.500004 16.64; 530 5.41001 -0.500004 17.1;
531 5.41001 -0.500004 16.64; 532 5.82001 -0.500004 17.1;
533 5.82001 -0.500004 16.64; 534 5.41001 -0.500004 15.26;
535 5.41001 -0.500004 14.8; 536 5.82001 -0.500004 15.26;
537 5.82001 -0.500004 14.8; 538 2.354 -0.500004 16.295;
539 2.708 -0.500004 16.295; 540 3.062 -0.500004 16.295;
541 3.416 -0.500004 16.295; 542 3.77 -0.500004 16.295;
543 2.354 -0.500004 15.95; 544 2.708 -0.500004 15.95;
545 3.062 -0.500004 15.95; 546 3.416 -0.500004 15.95; 547 3.77 -0.500004 15.95;
548 2.354 -0.500004 15.605; 549 2.708 -0.500004 15.605;
550 3.062 -0.500004 15.605; 551 3.416 -0.500004 15.605;
552 3.77 -0.500004 15.605; 553 6.58402 -0.500004 16.295;
554 6.23002 -0.500004 16.295; 555 6.93802 -0.500004 16.295;
556 7.29202 -0.500004 16.295; 557 7.64602 -0.500004 16.295;
558 6.58402 -0.500004 15.95; 559 6.23002 -0.500004 15.95;
560 6.93802 -0.500004 15.95; 561 7.29202 -0.500004 15.95;
562 7.64602 -0.500004 15.95; 563 6.58402 -0.500004 15.605;
564 6.23002 -0.500004 15.605; 565 6.93802 -0.500004 15.605;
566 7.29202 -0.500004 15.605; 567 7.64602 -0.500004 15.605;
568 5.00001 -0.500004 15.95; 569 5.41001 -0.500004 15.95;
570 5.41001 -0.500004 15.605; 571 5.00001 -0.500004 15.605;
572 5.82001 -0.500004 15.95; 573 5.82001 -0.500004 15.605;
574 4.18001 -0.500004 16.295; 575 4.59001 -0.500004 16.295;
576 5.00001 -0.500004 16.295; 577 4.18001 -0.500004 15.95;
578 4.59001 -0.500004 15.95; 579 4.18001 -0.500004 15.605;
580 4.59001 -0.500004 15.605; 581 5.41001 -0.500004 16.295;
582 5.82001 -0.500004 16.295; 583 5.00001 -0.500004 21.1;
584 8.00002 -0.500004 21.1; 585 5.00001 -0.500004 18.8;
586 8.00002 -0.500004 18.8; 587 3.85001 -0.500004 19.95;
588 3.85001 -0.500004 21.1; 589 3.85001 -0.500004 18.8;
590 9.15002 -0.500004 19.95; 591 9.15002 -0.500004 21.1;
592 9.15002 -0.500004 18.8; 593 5.00001 -0.500004 19.26;
594 8.00002 -0.500004 19.26; 595 3.85001 -0.500004 19.26;
596 9.15002 -0.500004 19.26; 597 5.00001 -0.500004 20.64;
598 8.00002 -0.500004 20.64; 599 3.85001 -0.500004 20.64;
600 9.15002 -0.500004 20.64; 601 8.69002 -0.500004 19.95;
602 8.69002 -0.500004 21.1; 603 8.69002 -0.500004 18.8;
604 8.69002 -0.500004 19.26; 605 8.69002 -0.500004 20.64;
606 4.31001 -0.500004 19.95; 607 4.31001 -0.500004 21.1;
608 4.31001 -0.500004 18.8; 609 4.31001 -0.500004 19.26;
610 4.31001 -0.500004 20.64; 611 6.50001 -0.500004 19.95;
612 6.50001 -0.500004 21.1; 613 6.50001 -0.500004 18.8;

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614 6.50001 -0.500004 19.26; 615 6.50001 -0.500004 20.64;
616 4.65501 -0.500004 20.64; 617 4.65501 -0.500004 20.295;
618 4.31001 -0.500004 20.295; 619 5.00001 -0.500004 20.295;
620 4.65501 -0.500004 19.95; 621 4.65501 -0.500004 19.605;
622 4.31001 -0.500004 19.605; 623 5.00001 -0.500004 19.605;
624 4.65501 -0.500004 19.26; 625 8.34502 -0.500004 20.64;
626 8.34502 -0.500004 20.295; 627 8.00002 -0.500004 20.295;
628 8.69002 -0.500004 20.295; 629 8.34502 -0.500004 19.95;
630 8.34502 -0.500004 19.605; 631 8.00002 -0.500004 19.605;
632 8.69002 -0.500004 19.605; 633 8.34502 -0.500004 19.26;
634 3.85001 -0.500004 19.605; 635 3.85001 -0.500004 20.295;
636 9.15002 -0.500004 20.295; 637 9.15002 -0.500004 19.605;
638 8.34502 -0.500004 18.8; 639 8.34502 -0.500004 21.1;
640 4.65501 -0.500004 21.1; 641 4.65501 -0.500004 18.8;
642 6.87501 -0.500004 21.1; 643 6.87501 -0.500004 20.64;
644 7.25002 -0.500004 21.1; 645 7.25002 -0.500004 20.64;
646 7.62502 -0.500004 21.1; 647 7.62502 -0.500004 20.64;
648 5.37501 -0.500004 21.1; 649 5.37501 -0.500004 20.64;
650 5.75001 -0.500004 21.1; 651 5.75001 -0.500004 20.64;
652 6.12501 -0.500004 21.1; 653 6.12501 -0.500004 20.64;
654 5.37501 -0.500004 19.26; 655 5.37501 -0.500004 18.8;
656 5.75001 -0.500004 19.26; 657 5.75001 -0.500004 18.8;
658 6.12501 -0.500004 19.26; 659 6.12501 -0.500004 18.8;
660 6.87501 -0.500004 19.26; 661 6.87501 -0.500004 18.8;
662 7.25002 -0.500004 19.26; 663 7.25002 -0.500004 18.8;
664 7.62502 -0.500004 19.26; 665 7.62502 -0.500004 18.8;
666 6.87501 -0.500004 19.95; 667 6.87502 -0.500004 19.605;
668 6.50001 -0.500004 19.605; 669 7.25002 -0.500004 19.95;
670 7.25002 -0.500004 19.605; 671 7.62502 -0.500004 19.95;
672 7.62502 -0.500004 19.605; 673 5.37501 -0.500004 20.295;
674 5.75001 -0.500004 20.295; 675 6.12501 -0.500004 20.295;
676 6.50001 -0.500004 20.295; 677 5.37501 -0.500004 19.95;
678 5.75001 -0.500004 19.95; 679 6.12501 -0.500004 19.95;
680 5.37501 -0.500004 19.605; 681 5.75001 -0.500004 19.605;
682 6.12501 -0.500004 19.605; 683 6.87502 -0.500004 20.295;
684 7.25002 -0.500004 20.295; 685 7.62502 -0.500004 20.295;
686 8.00002 -0.500004 24.2; 687 8.00002 -0.500004 21.9;
688 9.15002 -0.500004 23.05; 689 9.15002 -0.500004 24.2;
690 9.15002 -0.500004 21.9; 691 6.85002 -0.500004 23.05;
692 6.85002 -0.500004 24.2; 693 6.85002 -0.500004 21.9;
694 7.31002 -0.500004 23.05; 695 7.31002 -0.500004 24.2;
696 7.31002 -0.500004 21.9; 697 8.69002 -0.500004 23.05;
698 8.69002 -0.500004 24.2; 699 8.69002 -0.500004 21.9;
700 8.00002 -0.500004 22.36; 701 9.15002 -0.500004 22.36;
702 6.85002 -0.500004 22.36; 703 7.31002 -0.500004 22.36;
704 8.69002 -0.500004 22.36; 705 8.00002 -0.500004 23.74;
706 9.15002 -0.500004 23.74; 707 6.85002 -0.500004 23.74;
708 7.31002 -0.500004 23.74; 709 8.69002 -0.500004 23.74;
710 8.34502 -0.500004 23.74; 711 8.34502 -0.500004 23.395;
712 8.00002 -0.500004 23.395; 713 8.69002 -0.500004 23.395;
714 8.34502 -0.500004 23.05; 715 7.65502 -0.500004 23.74;
716 7.65502 -0.500004 23.395; 717 7.31002 -0.500004 23.395;
718 7.65502 -0.500004 23.05; 719 7.65502 -0.500004 22.705;

ROTTERDAM SITE DEVELOPMENT NESTE

720 7.31002 -0.500004 22.705; 721 8.00002 -0.500004 22.705;
722 7.65502 -0.500004 22.36; 723 8.34502 -0.500004 22.705;
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ROTTERDAM SITE DEVELOPMENT NESTE

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ELEMENT INCIDENCES SHELL

605 285 287 277 271; 608 270 276 294 292; 633 280 274 293 295;
636 288 286 275 281; 637 294 306 307 308; 638 306 289 309 307;
639 308 307 310 278; 640 307 309 255 310; 641 278 310 311 312;
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ROTTERDAM SITE DEVELOPMENT NESTE

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690 364 366 367 365; 691 366 283 268 367; 692 296 368 369 300;
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ROTTERDAM SITE DEVELOPMENT NESTE

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ROTTERDAM SITE DEVELOPMENT NESTE

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1090 779 759 761 780; 1091 780 761 763 781; 1092 781 763 747 746;
1093 782 783 784 785; 1094 786 787 788 789; 1095 790 791 792 793;
1096 794 795 796 797; 1097 798 799 800 801; 1098 799 789 802 800;
1099 801 800 803 253; 1100 800 802 804 803; 1101 784 805 806 807;
1102 805 798 801 806; 1103 807 806 808 809; 1104 806 801 253 808;
1105 809 808 810 811; 1106 808 253 812 810; 1107 811 810 813 795;
1108 810 812 814 813; 1109 253 803 815 812; 1110 803 804 816 815;
1111 812 815 817 814; 1112 815 816 790 817; 1113 814 817 818 819;
1114 817 790 793 818; 1115 783 820 805 784; 1116 820 821 798 805;
1117 821 822 799 798; 1118 822 786 789 799; 1119 795 813 823 796;
1120 813 814 819 823; 1121 804 824 825 816; 1122 816 825 791 790;
1123 789 788 826 802; 1124 802 826 824 804; 1125 785 784 807 827;
1126 827 807 809 828; 1127 828 809 811 829; 1128 829 811 795 794;

START GROUP DEFINITION

MEMBER

_COLUMN_K_STR 44 TO 49 51 TO 57 60 61 64 65 68 TO 72 75 80 TO 85 87 TO 93 -
96 97 100 101 104 TO 110 112 TO 135 139 172 277 278 283 284 286 287 -
289 TO 292 294 TO 296 298 TO 301 303 TO 306 308 327 TO 330 333 TO 340 347 -
348 TO 351 356 TO 360 373 TO 378 381 TO 384 408 TO 425 459 TO 464 474 475 -
490 556 TO 558 564 TO 566 573 577 578 580 597 598 603 604

_COLUMN_K_2 9 TO 28 36 38 39 48 52 TO 57 60 61 64 65 72 75 84 88 TO 93 96 -
97 100 101 105 107 113 TO 117 121 TO 123 125 126 128 129 131 TO 136 -
138 TO 140 278 281 284 287 289 TO 308 329 330 333 TO 340 348 TO 351 -
357 TO 360 373 TO 376 381 TO 384 408 TO 415 417 418 420 TO 425 459 TO 464 -
522 TO 526 557 558 565 566 579 TO 581 594 TO 598

_COLUMNS 1 2 4 TO 7 13 TO 16 44 TO 47 52 TO 55 80 TO 83 88 TO 91 104 TO 107 -
112 114 118 119 121 122 124 126 TO 128 130 132 136 138 139 141 143 144 146 -
148 TO 154 156 TO 159 163 164 189 190 193 194 201 202 208 209 227 229 241 -
242 TO 244 247 TO 250 261 263 265 267 283 TO 285 324 422 TO 425 434 435 440 -
441 TO 442 469 470 478 489 490 514 TO 517 577 579 580 596 TO 598

_BRACING 21 TO 28 30 31 60 61 64 65 96 97 100 101 116 117 134 135 178 TO 183 -
205 206 255 286 TO 288 323 325 366 TO 378 381 TO 386 390 TO 407 416 TO 421 -
436 TO 439 465 TO 468 471 TO 475 479 482 491 492 539 TO 570 572 574 576 578 -
582 TO 595

_TRSV_BEAMS 3 29 32 34 TO 36 38 39 68 TO 72 75 108 120 123 145 155 162 169 -
170 TO 174 186 191 192 195 200 203 204 207 210 228 230 239 240 245 246 251 -
252 262 264 266 268 277 TO 282 291 292 296 298 301 303 306 308 311 313 316 -

ROTTERDAM SITE DEVELOPMENT NESTE

318 TO 320 327 TO 346 451 TO 464 476 480 481 485 TO 487 523 TO 525 573 574 - 581

_LONG_BEAMS 9 TO 12 17 TO 20 48 49 51 56 57 84 85 87 92 93 109 110 113 115 - 125 129 131 133 160 161 165 TO 168 175 TO 177 184 185 187 188 211 TO 226 - 231 TO 238 253 TO 260 269 TO 276 289 290 293 TO 295 297 299 300 302 304 305 - 307 309 310 312 314 315 317 321 322 326 347 TO 364 408 TO 415 426 TO 433 - 443 TO 450 477 483 484 493 522 526 571 572 575 599 TO 601

_BEAMS_CHANGED 36 68 69 72 108 455 456 459 460

JOINT

_DISPLACEMENT 9 14 18 24 29 38 43 76 77 140 TO 145 149 150 152 TO 167 173 - 174 TO 190 232 TO 234

FLOOR

_FLR_105600 32 483 TO 487

_FLR_111000 34 70 160 TO 162 165 167 TO 174 476 477 480 481

_FLR_113600 39 51 71 87 271 272 275 TO 277 280 289 290 293 TO 295 297 299 - 300 302 304 305 307 309 310 312 314 315 317 319 TO 322 326 TO 328 - 345 TO 364 522 TO 525

_FLR_107800 572 TO 575

END GROUP DEFINITION

*

*

*

ELEMENT PROPERTY

605 608 633 636 TO 896 902 905 919 924 926 TO 1005 1007 1010 1019 - 1022 TO 1054 1057 TO 1128 THICKNESS 0.7

DEFINE MATERIAL START

ISOTROPIC CONCRETE

* fck = C30/37 N/mm²

E 3.28366e+07

POISSON 0.2

DENSITY 25

ALPHA 1e-05

DAMP 0.05

*

ISOTROPIC STEEL

* S275J0 fy=275 N/mm²

E 2.1e+08

POISSON 0.3

DENSITY 78.5

ALPHA 1.2e-05

DAMP 0.03

*

ISOTROPIC RIGID

E 2e+08

DENSITY 1e-20

ALPHA 1.2e-06

DAMP 0.3

G 5e+08

*

ISOTROPIC CONCRETE

* CONCRETE FOR FOUND SLAB, TO EXCLUDE IT FROM DYNAMIC MASS

E 3.28366e+07

POISSON 0.2

ROTTERDAM SITE DEVELOPMENT NESTE

DENSITY 1e-05

ALPHA 1e-05

DAMP 0.05

G 1.375e+07

*

END DEFINE MATERIAL

MEMBER PROPERTY EUROPEAN

9 10 17 18 38 48 56 70 84 92 120 123 155 172 322 483 TO 485 487 TABLE ST HE180A

32 36 68 69 72 108 140 455 456 459 460 486 581 TABLE ST HE220A

169 170 173 174 189 190 193 194 201 202 208 209 227 229 241 TO 244 261 263 -

265 267 286 TO 288 292 298 303 308 313 318 323 325 347 TO 364 390 TO 407 -

416 TO 425 434 TO 439 442 465 TO 470 479 491 TO 493 526 -

578 TABLE ST HE120A

34 480 523 525 TABLE ST HE200A

11 12 19 20 113 115 125 129 131 133 247 TO 252 269 270 273 TO 277 280 293 -

297 302 307 312 317 319 TO 321 326 345 346 514 TO 517 522 571 573 TO 574 -

575 TABLE ST HE160A

4 TO 7 13 TO 16 44 TO 47 52 TO 55 80 TO 83 88 TO 91 104 TO 107 112 114 118 -

119 121 122 124 126 TO 128 130 132 136 138 139 141 143 144 146 148 TO 154 -

156 TO 159 283 TO 285 324 440 441 478 489 490 577 579 580 596 TO 597 -

598 TABLE ST HE280A

35 39 51 71 75 87 145 271 272 289 290 294 295 299 300 304 305 309 310 314 -

315 327 TO 332 524 TABLE ST HE240A

278 279 281 282 TABLE ST HE200A

MEMBER PROPERTY

205 206 PRIS YD 0.1

MEMBER PROPERTY EUROPEAN

599 TO 601 TABLE ST HE100A

MEMBER PROPERTY

602 TO 604 897 TO 901 1006 1055 1056 PRIS YD 0.7 ZD 0.7

MEMBER PROPERTY EUROPEAN

539 TO 570 TABLE ST HE120A

30 31 TABLE ST HE220A

160 TO 168 171 291 296 301 306 311 316 333 TO 344 476 477 481 TABLE ST HE140A

22 TO 24 26 TO 28 61 65 97 101 116 117 134 135 582 TO 589 TABLE ST HE120A

175 TO 177 482 TABLE ST HE100A

178 TO 183 366 TO 378 381 TO 386 471 TO 475 576 590 TO 595 TABLE ST L70X70X7

186 191 192 195 200 203 207 210 228 230 239 240 245 246 262 264 266 268 451 -

452 TO 454 457 458 461 TO 464 TABLE ST HE140A

21 25 49 57 60 64 85 93 96 100 109 110 184 185 187 188 211 TO 226 231 TO 238 -

253 TO 260 408 TO 415 426 TO 433 443 TO 450 572 TABLE ST HE160A

1 TO 3 29 204 TABLE ST HE260A

CONSTANTS

BETA 90 MEMB 1 2 189 190 193 194 201 202 208 209 227 229 241 TO 244 261 263 -

265 267 422 TO 425 434 435

BETA 45 MEMB 178 TO 183 366 TO 378 381 TO 386 471 TO 475 576 590 TO 595

MATERIAL STEEL MEMB 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 -

64 65 68 TO 72 75 80 TO 85 87 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 -

139 TO 141 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -

390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 601

MATERIAL RIGID MEMB 205 206

MATERIAL CONCRETE MEMB 602 TO 605 608 633 636 TO 902 905 919 924 926 TO 1007 -

1010 1019 1022 TO 1128

**ROTTERDAM SITE DEVELOPMENT
NESTE**

*

MEMBER RELEASE

3 9 TO 12 21 TO 28 30 31 48 49 51 60 61 64 65 84 85 87 96 97 100 101 109 110 -
 113 116 117 125 129 131 134 135 160 161 163 164 169 170 175 TO 183 186 189 -
 190 TO 195 200 TO 203 207 TO 210 227 TO 230 239 TO 250 261 TO 279 286 TO 288 -
 291 292 296 298 301 303 306 308 311 313 316 318 319 322 323 325 326 -
 347 TO 364 366 TO 378 381 TO 386 390 TO 407 416 TO 429 434 TO 439 -
 443 TO 446 451 TO 454 457 458 461 TO 471 474 TO 476 479 482 485 491 TO 493 -
 523 526 539 TO 570 573 576 578 582 TO 595 START MY MZ
 17 TO 19 21 TO 28 30 31 56 60 61 64 65 92 96 97 100 101 115 TO 117 125 129 -
 133 TO 135 166 168 173 TO 183 186 189 TO 195 200 TO 204 207 TO 210 -
 227 TO 230 239 TO 246 253 TO 255 261 TO 270 273 274 282 286 TO 288 292 298 -
 303 TO 305 307 308 313 TO 315 318 321 TO 323 325 334 336 338 340 342 344 -
 347 TO 364 366 TO 378 381 TO 386 390 TO 407 412 TO 425 430 TO 439 -
 447 TO 454 457 458 461 TO 471 474 475 481 TO 484 487 491 TO 493 522 525 526 -
 539 TO 570 572 TO 574 576 578 582 TO 595 END MY MZ
 1 2 4 13 44 52 80 88 141 146 440 574 START MY
 205 477 479 END MY MZ
 206 END MY MZ
SUPPORTS

*Ref. Doc. 080871C-000-JSD-1430-004_E JDS for Piles

287 288 294 295 299 300 304 305 423 428 433 434 486 497 501 508 604 605 609 -
 610 614 615 703 704 708 709 FIXED BUT MX MY MZ KFY 413000
 736 741 742 747 784 789 790 795 FIXED BUT MX MY MZ KFY 375000

MEMBER FIREPROOFING

1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 64 65 68 TO 72 75 80 -
 81 TO 85 87 89 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 TO 141 -
 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -
 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 598 -
 600 FIRE CFP THICK 0.015 DENSITY 18
 CUT OFF MODE SHAPE 20

*

DEFINE REFERENCE LOADS

*

LOAD R1 LOADTYPE None TITLE SELF

*SELFWEIGHT OF STEEL ELEMENTS. COEFFICIENT 1.1 USED TO ACCOUNT FOR WEIGHT OF

*CONNECTIONS BETWEEN MEMBERS

*VERTICAL LADDER EL. 101400 TO 107800

MEMBER LOAD

85 CON GY -0.7 0.34

85 CON GY -0.7 0.828

*VERTICAL LADDER EL. 107800 TO 113600

572 CON GY -0.65 0.257

572 CON GY -0.65 0.743

571 CON GY -0.65 0

571 CON GY -0.65 0.54

*SELFWEIGHT DUE TO STAIR RAMPS UPN 220, STEPS AND HANDRAILS

581 CON GY -1.56 2.7

581 CON GY -1.56 1.7

140 581 CON GY -3.03 0.3

140 581 CON GY -3.03 1.3

32 34 CON GY -2.16 0.3

ROTTERDAM SITE DEVELOPMENT NESTE

32 34 CON GY -2.16 1.3
 480 486 525 CON GY -2.16 1.2
 480 486 525 CON GY -2.16 0.2
 140 CON GY -3.03 2.7
 140 CON GY -3.03 1.7
 SELFWEIGHT Y -1.1 LIST 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 -
 61 64 65 68 TO 72 75 80 TO 85 87 TO 93 96 97 100 101 104 TO 110 112 TO 136 -
 138 TO 141 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 -
 381 TO 386 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 595
 SELFWEIGHT Y -1 LIST 602 TO 605 608 633 636 TO 902 905 919 924 926 TO 1007 -
 1010 1019 1022 TO 1128

*

LOAD R2 LOADTYPE None TITLE DEAD HANDRAIL

*DEAD LOAD OF HANDRAILS

MEMBER LOAD

51 70 71 140 160 TO 162 165 167 168 171 172 272 275 276 289 293 294 297 299 -

302 307 309 312 314 317 319 TO 321 326 TO 328 345 346 476 477 481 -

483 TO 485 487 524 526 574 575 581 UNI GY -0.3

LOAD R3 LOADTYPE None TITLE DEAD GRATING

*DEAD LOAD OF GRATINGS

ONEWAY LOAD

_FLR_105600 ONE -0.5 GY

_FLR_107800 ONE -0.5 GY TOWARDS 574

_FLR_111000 ONE -0.5 GY

_FLR_113600 ONE -0.5 GY

*

LOAD R4 LOADTYPE None TITLE LIVE

*LIVE LOAD ON GRATINGS

ONEWAY LOAD

_FLR_105600 ONE -5 GY

_FLR_111000 ONE -5 GY

_FLR_113600 ONE -5 GY

_FLR_107800 ONE -5 GY TOWARDS 574

*LIVE LOAD ON STAIR RAMPS

MEMBER LOAD

581 CON GY -5.58 2.7

581 CON GY -5.58 1.7

140 581 CON GY -8.83 0.3

140 581 CON GY -8.83 1.3

32 34 CON GY -5 0.3

32 34 CON GY -5 1.3

480 486 525 CON GY -5 1.2

480 486 525 CON GY -5 0.2

140 CON GY -8.83 2.7

140 CON GY -8.83 1.7

*

LOAD R5 LOADTYPE None TITLE SL

*SNOW LOAD ON GRATINGS

ONEWAY LOAD

ROTTERDAM SITE DEVELOPMENT NESTE

_FLR_105600 ONE -0.84 GY
_FLR_111000 ONE -0.84 GY
_FLR_113600 ONE -0.84 GY
_FLR_107800 ONE -0.84 GY TOWARDS 574

*SNOW LOAD ON STAIR RAMPS

MEMBER LOAD

581 CON GY -0.94 2.7

581 CON GY -0.94 1.7

140 581 CON GY -1.48 0.3

140 581 CON GY -1.48 1.3

32 34 CON GY -0.84 0.3

32 34 CON GY -0.84 1.3

480 486 525 CON GY -0.84 1.2

480 486 525 CON GY -0.84 0.2

140 CON GY -1.48 2.7

140 CON GY -1.48 1.7

*

LOAD R6 LOADTYPE None TITLE SLACC (SNOW ACCIDENTAL)

*SNOW LOAD ACCIDENTAL - NOT APPLICABLE IN THE NETHERLANDS

*NONE

*

LOAD R7 LOADTYPE None TITLE EE (EMPTY LOAD)

*CABLE TRAY

MEMBER LOAD

426 599 TO 601 CON GY -1.06 0.3

108 186 192 200 207 230 245 246 264 268 460 462 463 CON GY -1.06 2.6

*PIPING LOAD

14"-HO80007-0-3B2NB-ET25-H

446 CON GY -2.88 1.4

108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GY -2.88 0.94

12"-HO80008-0-3B2NB-ET25-H

430 CON GY -2.5 1.1

108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GY -2.5 1.88

*4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;

*6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N

123 273 CON GY -0.77 0.6

87 347 CON GY -0.77 0.83

290 295 300 348 TO 350 CON GY -0.77 0.5

*2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600

*also assumed for other similar lines in the final level of the structure

346 CON GY -0.37 0.6

317 CON GY -0.37 0.78

355 CON GY -0.37 0.7

314 CON GY -0.37 0.88

314 CON GY -0.37 0.635

272 CON GY -0.37 0.66

329 331 CON GY -0.37 0.47

330 332 CON GY -0.37 0.8

317 CON GY -0.37 0.44

276 CON GY -0.37 0.47

ROTTERDAM SITE DEVELOPMENT NESTE

*Pipe Bundle 1a Elev. 109.300
450 UNI GY -6 0.275 1.275
*Pipe Bundle 1b Elev. 109.300
108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
463 UNI GY -3.4 0.18 0.78
*Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GY -3.02
*Pipe Bundle 3 Elev. 112.300 (modeled)
120 123 155 251 252 UNI GY -9.24 1.4 3

LOAD R8 LOADTYPE None TITLE EER (ERECTION LOAD)
*CABLE TRAY
MEMBER LOAD
426 599 TO 601 CON GY -1.06 0.3
108 186 192 200 207 230 245 246 264 268 460 462 463 CON GY -1.06 2.6
*PIPING LOAD
14"-HO80007-0-3B2NB-ET25-H
446 CON GY -2.88 1.4
108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GY -2.88 0.94
12"-HO80008-0-3B2NB-ET25-H
430 CON GY -2.5 1.1
108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GY -2.5 1.88
*4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
*6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
123 273 CON GY -0.77 0.6
87 347 CON GY -0.77 0.83
290 295 300 348 TO 350 CON GY -0.77 0.5
*2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
*also assumed for other similar lines in the final level of the structure
346 CON GY -0.37 0.6
317 CON GY -0.37 0.78
355 CON GY -0.37 0.7
314 CON GY -0.37 0.88
314 CON GY -0.37 0.635
272 CON GY -0.37 0.66
329 331 CON GY -0.37 0.47
330 332 CON GY -0.37 0.8
317 CON GY -0.37 0.44
276 CON GY -0.37 0.47
*Pipe Bundle 1a Elev. 109.300
450 UNI GY -6 0.275 1.275
*Pipe Bundle 1b Elev. 109.300
108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
463 UNI GY -3.4 0.18 0.78
*Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GY -3.02
Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H
*Additional pipes considered in order to take into account the presence of pipes for half the length of the beams
120 123 155 251 252 UNI GY -9.24 1.4 3
*ADDITIONAL PIPES 12" EL 108500

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD R9 LOADTYPE None TITLE EO (OPERATING LOAD)

*CABLE TRAY

MEMBER LOAD

426 599 TO 601 CON GY -2.11 0.3

108 186 192 200 207 230 245 246 264 268 460 462 463 CON GY -2.11 2.6

*PIPING LOAD

14"-HO80007-0-3B2NB-ET25-H

446 CON GY -5.41 1.4

108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GY -5.41 0.94

12"-HO80008-0-3B2NB-ET25-H

430 CON GY -4.8 1.1

108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GY -4.8 1.88

*4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;

*6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N

123 273 CON GY -1.36 0.6

87 347 CON GY -1.36 0.83

290 295 300 348 TO 350 CON GY -1.36 0.5

*2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600

*also assumed for other similar lines in the final level of the structure

346 CON GY -0.54 0.6

317 CON GY -0.54 0.78

355 CON GY -0.54 0.7

314 CON GY -0.54 0.88

314 CON GY -0.54 0.635

272 CON GY -0.54 0.66

329 331 CON GY -0.54 0.47

330 332 CON GY -0.54 0.8

317 CON GY -0.54 0.44

276 CON GY -0.54 0.47

*Pipe Bundle 1a Elev. 109.300

450 UNI GY -9.2 0.275 1.275

*Pipe Bundle 1b Elev. 109.300

108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -

463 UNI GY -5.2 0.18 0.78

*Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)

69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GY -4.63

Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H

*Additional pipes considered in order to take into account the presence of pipes for half the length of the beams

120 123 155 251 252 UNI GY -14.17 1.4 3

LOAD R10 LOADTYPE None TITLE ET (TEST LOAD)

*CABLE TRAY

MEMBER LOAD

426 599 TO 601 CON GY -2.11 0.3

108 186 192 200 207 230 245 246 264 268 460 462 463 CON GY -2.11 2.6

*PIPING LOAD

14"-HO80007-0-3B2NB-ET25-H

446 CON GY -5.86 1.4

108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GY -5.86 0.94

12"-HO80008-0-3B2NB-ET25-H

430 CON GY -5.2 1.1

ROTTERDAM SITE DEVELOPMENT NESTE

108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GY -5.2 1.88
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GY -1.45 0.6
 87 347 CON GY -1.45 0.83
 290 295 300 348 TO 350 CON GY -1.45 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GY -0.56 0.6
 317 CON GY -0.56 0.78
 355 CON GY -0.56 0.7
 314 CON GY -0.56 0.88
 314 CON GY -0.56 0.635
 272 CON GY -0.56 0.66
 329 331 CON GY -0.56 0.47
 330 332 CON GY -0.56 0.8
 317 CON GY -0.56 0.44
 276 CON GY -0.56 0.47
 *Pipe Bundle 1a Elev. 109.300
 450 UNI GY -10 0.275 1.275
 *Pipe Bundle 1b Elev. 109.300
 108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
 463 UNI GY -5.65 0.18 0.78
 *Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GY -5.03
 Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H
 *Additional pipes considered in order to take into account the presence of pipes for half the length of the beams
 120 123 155 251 252 UNI GY -15.4 1.4 3
 *ADDITIONAL PIPES 12" EL 108500

 LOAD R11 LOADTYPE None TITLE TLSX (THERMAL ANCHOR FORCE X)
 **ANCHOR LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - X DIRECTION
 **PIPING LOAD (5% WEIGHT OF PIPE IN OPERATION)
 14"-HO80007-0-3B2NB-ET25-H
 MEMBER LOAD
 446 CON GX 0.271 1.4
 108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GX 0.271 0.94
 12"-HO80008-0-3B2NB-ET25-H
 430 CON GX 0.24 1.1
 108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GX 0.24 1.88
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GX 0.068 0.6
 87 347 CON GX 0.068 0.83
 290 295 300 348 TO 350 CON GX 0.068 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GX 0.027 0.6
 317 CON GX 0.027 0.78
 355 CON GX 0.027 0.7

ROTTERDAM SITE DEVELOPMENT NESTE

314 CON GX 0.027 0.88
 314 CON GX 0.027 0.635
 272 CON GX 0.027 0.66
 329 331 CON GX 0.027 0.47
 330 332 CON GX 0.027 0.8
 317 CON GX 0.027 0.44
 276 CON GX 0.027 0.47
 *Pipe Bundle 1a Elev. 109.300
 450 UNI GX 0.46 0.275 1.275
 *Pipe Bundle 1b Elev. 109.300
 108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
 463 UNI GX 0.26 0.18 0.78
 *Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GX 0.23
 Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H
 120 123 155 251 252 UNI GX 0.71 1.4 3

 LOAD R12 LOADTYPE None TITLE TLSZ (THERMAL ANCHOR FORCE Z)
 **ANCHOR LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - Z DIRECTION
 **PIPING LOAD (10% WEIGHT OF PIPE IN OPERATION)
 14"-HO80007-0-3B2NB-ET25-H
 MEMBER LOAD
 446 CON GZ 0.541 1.4
 108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GZ 0.541 0.94
 12"-HO80008-0-3B2NB-ET25-H
 430 CON GZ 0.48 1.1
 108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GZ 0.48 1.88
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GZ 0.136 0.6
 87 347 CON GZ 0.136 0.83
 290 295 300 348 TO 350 CON GZ 0.136 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GZ 0.054 0.6
 317 CON GZ 0.054 0.78
 355 CON GZ 0.054 0.7
 314 CON GZ 0.054 0.88
 314 CON GZ 0.054 0.635
 272 CON GZ 0.054 0.66
 329 331 CON GZ 0.054 0.47
 330 332 CON GZ 0.054 0.8
 317 CON GZ 0.054 0.44
 276 CON GZ 0.054 0.47
 *Pipe Bundle 1a Elev. 109.300
 450 UNI GZ 0.92 0.275 1.275
 *Pipe Bundle 1b Elev. 109.300
 108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
 463 UNI GZ 0.52 0.18 0.78
 *Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GZ 0.463
 Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H

ROTTERDAM SITE DEVELOPMENT NESTE

120 123 155 251 252 UNI GX 1.42 1.4 3

LOAD R13 LOADTYPE None TITLE TLFx (FRICTION FORCE X)

*local

**FRICTION LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - X DIRECTION

**PIPING LOAD ($FF=b*m*Wop$ $b=1$ for local design, $b=0.5$ for global design, m =friction coeff. 0.35 steel to steel, Wop Weight in Operating

*GLOBAL FRICTION

14"-HO80007-0-3B2NB-ET25-H

MEMBER LOAD

446 CON GX 0.47 1.4

108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GX 0.47 0.94

12"-HO80008-0-3B2NB-ET25-H

430 CON GX 0.42 1.1

108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GX 0.42 1.88

*4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;

*6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N

123 273 CON GX 0.03 0.6

87 347 CON GX 0.03 0.83

290 295 300 348 TO 350 CON GX 0.068 0.5

*2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600

*also assumed for other similar lines in the final level of the structure

346 CON GX 0.01 0.6

317 CON GX 0.01 0.78

355 CON GX 0.01 0.7

314 CON GX 0.01 0.88

314 CON GX 0.01 0.635

272 CON GX 0.01 0.66

329 331 CON GX 0.01 0.47

330 332 CON GX 0.01 0.8

317 CON GX 0.01 0.44

276 CON GX 0.01 0.47

*Pipe Bundle 1a Elev. 109.300

450 UNI GX 0.23 0.275 1.275

*Pipe Bundle 1b Elev. 109.300

108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -

463 UNI GX 0.13 0.18 0.78

*Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)

69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GX 0.116

Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H

120 123 155 251 252 UNI GX 0.36 1.4 3

LOAD R14 LOADTYPE None TITLE TLFz (FRICTION FORCE Z)

**FRICTION LOADS DUE TO EXPANSION/CONTRACTION OF EQUIPMENT OR PIPES - Z DIRECTION

**PIPING LOAD ($FF=b*m*Wop$ $b=1$ for local design, $b=0.5$ for global design, m =friction coeff. 0.35 steel to steel, Wop Weight in Operating

*GLOBAL FRICTION

14"-HO80007-0-3B2NB-ET25-H

MEMBER LOAD

446 CON GZ 0.541 1.4

108 186 192 200 207 230 245 246 264 268 455 458 460 462 463 CON GZ 0.95 0.94

12"-HO80008-0-3B2NB-ET25-H

ROTTERDAM SITE DEVELOPMENT NESTE

430 CON GZ 0.84 1.1
 108 186 192 200 207 230 245 246 264 268 458 460 462 463 CON GZ 0.84 1.88
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GZ 0.07 0.6
 87 347 CON GZ 0.07 0.83
 290 295 300 348 TO 350 CON GZ 0.07 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GZ 0.03 0.6
 317 CON GZ 0.03 0.78
 355 CON GZ 0.03 0.7
 314 CON GZ 0.03 0.88
 314 CON GZ 0.03 0.635
 272 CON GZ 0.03 0.66
 329 331 CON GZ 0.03 0.47
 330 332 CON GZ 0.03 0.8
 317 CON GZ 0.03 0.44
 276 CON GZ 0.03 0.47
 *Pipe Bundle 1a Elev. 109.300
 450 UNI GZ 0.46 0.275 1.275
 *Pipe Bundle 1b Elev. 109.300
 108 186 192 200 207 230 245 246 264 268 453 455 458 460 462 -
 463 UNI GZ 0.26 0.18 0.78
 *Pipe Bundle 2 Elev. 107.800 (modeled+additional bundle)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GZ 0.23
 Pipe Bundle 3 Elev. 112.300 (modeled) Lines: 8"-DF20143-0-1B2N-NT-N; 6"-P80045-0-1B2N-ET60-H
 120 123 155 251 252 UNI GZ 0.71 1.4 3

 LOAD R15 LOADTYPE Temperature TITLE TLT (STRUCTURE THERMAL LOAD)
 TEMPERATURE LOAD
 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 64 65 68 TO 72 75 80 -
 81 TO 85 87 89 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 TO 141 -
 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -
 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 578 581 TO 593 TEMP 31
 *TEMPERATURE LOADS ON EXPOSED STRUCTURES
 *

 LOAD R16 LOADTYPE None TITLE WLX (WIND LOAD X)
 **WIND LOADS - X DIRECTION
 *CABLE TRAY
 MEMBER LOAD
 426 599 TO 601 CON GX 0.63 0.3
 108 186 192 200 207 230 245 246 264 268 460 462 463 CON GX 0.63 2.6
 **PIPING
 Main pipe 14"-HO80007-0-3B2NB-ET25-H elev. 110.000
 108 186 192 200 207 230 245 246 264 268 446 450 453 455 458 460 462 -
 463 UNI GX 1.1
 Main pipe 12"-HO80008-0-3B2NB-ET25-H elev. 110.000
 430 CON GX 2.88 1.25
 458 CON GX 2.88 1.835
 *Main pipe 2"-P20754-0-3M1NJ-ET10-C

ROTTERDAM SITE DEVELOPMENT NESTE

456 457 CON GX 1.03 2.08
 446 CON GX 1.03 0.73
 *Main pipe 2"-HO56026-0-3B2NB-ET25-H elev. 107.800
 *(the presence of pipes along the entire width of the piperack was considered)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GX 0.48
 6"-P20761-0-1B2N-ET60-H elev. 112.300
 120 123 155 251 252 CON GX 2.71 2.2
 Additional Pipes based on 6"-P20761-0-1B2N-ET60-H elev. 112.300
 *in order to take into account the presence of pipes for half the length of the beams
 120 123 155 251 252 CON GX 2.71 1.8
 120 123 155 251 252 CON GX 2.71 1.4
 *8"-DF20143-0-1B2N-NT-N elev. 112.300
 120 123 155 251 252 CON GX 1.7 2.6
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GX 1.04 0.6
 87 347 CON GX 1.04 0.83
 290 295 300 348 TO 350 CON GX 1.04 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GX 0.18 0.6
 317 CON GX 0.18 0.78
 355 CON GX 0.18 0.7
 314 CON GX 0.18 0.88
 314 CON GX 0.18 0.635
 272 CON GX 0.18 0.66
 329 331 CON GX 0.18 0.47
 330 332 CON GX 0.18 0.8
 317 CON GX 0.18 0.44
 276 CON GX 0.18 0.47
 *

LOAD R17 LOADTYPE None TITLE WLZ (WIND LOAD Z)
 *WIND LOADS - Z DIRECTION
 *CABLE TRAY
 MEMBER LOAD
 426 599 TO 601 CON GZ 0.31 0.3
 108 186 192 200 207 230 245 246 264 268 460 462 463 CON GZ 0.31 2.6
 *PIPING
 Main pipe 14"-HO80007-0-3B2NB-ET25-H elev. 110.000
 108 186 192 200 207 230 245 246 264 268 446 450 453 455 458 460 462 -
 463 UNI GZ 0.54
 Main pipe 12"-HO80008-0-3B2NB-ET25-H elev. 110.000
 430 CON GZ 4.1 1.25
 458 CON GZ 4.1 1.835
 *Main pipe 2"-P20754-0-3M1NJ-ET10-C
 456 457 CON GZ 1.15 2.08
 446 CON GZ 1.15 0.73
 *Main pipe 2"-HO56026-0-3B2NB-ET25-H elev. 107.800
 *(the presence of pipes along the entire width of the piperack was considered)
 69 191 195 203 210 228 239 240 262 266 452 456 457 459 461 464 UNI GZ 0.33
 6"-P20761-0-1B2N-ET60-H elev. 112.300

ROTTERDAM SITE DEVELOPMENT NESTE

120 123 155 251 252 CON GZ 0.38 2.2
 2 additional Pipes based on 6"-P20761-0-1B2N-ET60-H elev. 112.300
 *in order to take into account the presence of pipes for half the length of the beams
 120 123 155 251 252 CON GZ 0.38 1.8
 120 123 155 251 252 CON GZ 0.38 1.4
 *4"-P20755-0-1M1N-NT-N/4"-P20744-0-1M1N-NT-N;
 *6"-DF20754-0-1B2N-NT-N/6"-DF20140-0-1B2N-NT-N/6"-DF20755-0-1B2N-NT-N/6"-DF20141-0-1B2N-NT-N
 123 273 CON GZ 1.02 0.6
 87 347 CON GZ 1.02 0.83
 290 295 300 348 TO 350 CON GZ 1.02 0.5
 *2"-ES20546-0-1B2NB-NT-H/2"-DF20143-0-1B2N-NT-N elev.113.600
 *also assumed for other similar lines in the final level of the structure
 346 CON GZ 0.19 0.6
 317 CON GZ 0.19 0.78
 355 CON GZ 0.19 0.7
 314 CON GZ 0.19 0.88
 314 CON GZ 0.19 0.635
 272 CON GZ 0.19 0.66
 329 331 CON GZ 0.19 0.47
 330 332 CON GZ 0.19 0.8
 317 CON GZ 0.19 0.44
 276 CON GZ 0.19 0.47
 *

LOAD R18 LOADTYPE Mass TITLE MODAL MASS

SELFWEIGHT X 1.1 LIST 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 -
 64 65 68 TO 72 75 80 TO 85 87 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 -
 139 TO 141 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -
 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 595
 SELFWEIGHT Y 1.1 LIST 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 -
 64 65 68 TO 72 75 80 TO 85 87 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 -
 139 TO 141 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -
 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 595
 SELFWEIGHT Z 1.1 LIST 1 TO 7 9 TO 32 34 TO 36 38 39 44 TO 49 51 TO 57 60 61 -
 64 65 68 TO 72 75 80 TO 85 87 TO 93 96 97 100 101 104 TO 110 112 TO 136 138 -
 139 TO 141 143 TO 146 148 TO 195 200 TO 204 207 TO 364 366 TO 378 381 TO 386 -
 390 TO 487 489 TO 493 514 TO 517 522 TO 526 539 TO 595

*SELFWEIGHT

*DEAD LOAD OF HANDRAILS

*DEAD LOAD STAIR: HANDRAILS+STEPS+UPN

*

*DEAD LOAD OF GRATINGS

END DEFINE REFERENCE LOADS

*

DEFINE WIND LOAD

TYPE 1 WIND STRUCTURAL

* WIND PRESSURE ALONG HEIGHT

INT 0.776423 0.776423 0.776423 0.776423 0.776423 0.927483 1.02115 1.08999 -
 1.14474 1.19036 1.22955 1.26395 1.29465 1.32239 1.34771 1.37102 1.39262 -

**ROTTERDAM SITE DEVELOPMENT
NESTE**

1.41275 1.43161 1.44936 1.46612 1.482 1.4971 1.51149 1.52523 1.53838 1.551 -
1.56313 1.5748 1.58605 1.59691 1.6074 1.61756 1.62741 1.63695 1.64622 -
1.65522 1.66398 1.67251 1.68081 1.6889 1.6968 1.7045 1.71203 1.71939 1.72658 -
1.73361 1.7405 1.74725 1.75385 1.76033 1.76668 1.77291 1.77903 1.78503 -
1.79093 1.79672 1.80241 1.808 1.81351 1.81892 1.82425 1.82949 1.83465 HEIG -
0.1 0.25 0.5 0.75 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 -
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 -
48 49 50 51 52 53 54 55 56 57 58 59 60

*

***LOAD CONDITIONS**

*

LOAD 100 LOADTYPE Dead TITLE DL (DEAD LOAD)
REFERENCE LOAD
R1 1.0 R2 1.0 R3 1.0

LOAD 110 LOADTYPE Dead TITLE EE (EMPTY LOAD)
REFERENCE LOAD
R7 1.0

LOAD 111 LOADTYPE Dead TITLE EER (ERECTION LOAD)
REFERENCE LOAD
R8 1.0

LOAD 115 LOADTYPE Dead TITLE EO (OPERATING LOAD)
REFERENCE LOAD
R9 1.0

LOAD 120 LOADTYPE Dead TITLE ET (TEST LOAD)
REFERENCE LOAD
R10 1.0

LOAD 125 LOADTYPE Snow TITLE SL (SNOW LOAD)
REFERENCE LOAD
R5 1.0

LOAD 126 LOADTYPE Snow TITLE SLACC (SNOW LOAD ACCIDENTAL)
*REFERENCE LOAD
*R6 1.0

LOAD 130 LOADTYPE Live TITLE LL (LIVE LOAD)
REFERENCE LOAD
R4 1.0

LOAD 140 LOADTYPE Dead TITLE TLSX (THERMAL ANCHOR FORCE X)
REFERENCE LOAD
R11 1.0

LOAD 141 LOADTYPE Dead TITLE TLSZ (THERMAL ANCHOR FORCE Z)
REFERENCE LOAD
R12 1.0

LOAD 145 LOADTYPE Accidental TITLE TLFX (FRICTION FORCE X)

**ROTTERDAM SITE DEVELOPMENT
NESTE**

REFERENCE LOAD

R13 1.0

LOAD 146 LOADTYPE Accidental TITLE TLFZ (FRICTION FORCE Z)

REFERENCE LOAD

R14 1.0

LOAD 150 LOADTYPE Temperature TITLE TLT (STRUCTURE THERMAL LOAD)

REFERENCE LOAD

R15 1.0

*

LOAD 160 LOADTYPE Wind TITLE WLX (WIND LOAD +X)

REFERENCE LOAD

R16 1.0

WIND LOAD X 2 TYPE 1 XR -0.1 10 YR 1.4 7.6 ZR -1 1 OPEN

WIND LOAD X 2 TYPE 1 XR 1.9 2.1 YR 1.4 20 ZR 10 16 OPEN

WIND LOAD X 2 TYPE 1 XR 4.9 5.1 YR 1.4 20 ZR -10 25 OPEN

WIND LOAD X 2 TYPE 1 XR 7.9 8.1 YR 1.4 20 ZR -5 25 OPEN

*WIND FORCES ON STRUCTUREAL ELEMENTS

*ALIGN. STAIR

*

LOAD 161 LOADTYPE Wind TITLE WLZ (WIND LOAD +Z)

REFERENCE LOAD

*WIND LOAD ON EQUIPMENTS

R17 1.0

*WIND FORCES ON STRUCTUREAL ELEMENTS

WIND LOAD Z 2 TYPE 1 XR -5 20 YR 0 20 ZR -1 0.5 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR -2.8 -2.7 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR -1.4 -1.3 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 1.5 1.6 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 3 3.2 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 15 ZR 4.6 4.7 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 6.1 6.3 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 15 ZR 7.7 7.8 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 9.3 9.4 OPEN

WIND LOAD Z 2 TYPE 1 XR 2 10 YR 1.4 20 ZR 10.9 11 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 12.55 12.65 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 14.2 14.4 OPEN

WIND LOAD Z 2 TYPE 1 XR 2 10 YR 1.4 20 ZR 15.9 16 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 17.9 18 OPEN

WIND LOAD Z 2 TYPE 1 XR 4 10 YR 1.4 20 ZR 19.9 20 OPEN

WIND LOAD Z 2 TYPE 1 XR 5 8 YR 7.8 9.3 ZR 21.2 21.6 OPEN

WIND LOAD Z 2 TYPE 1 XR 4 9 YR 1.4 15 ZR 23 23.2 OPEN

*

LOAD 162 LOADTYPE Wind TITLE WLX50% (WIND LOAD X PARTIAL)

REPEAT LOAD

160 0.5

*50% WIND FORCES ALONG X, WITH COEFF. 0.5

*WIND FORCES ON STRUCTUREAL ELEMENTS

*

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD 163 LOADTYPE Wind TITLE WLZ50% (WIND LOAD Z PARTIAL)

REPEAT LOAD

161 0.5

*50% WIND FORCES ALONG Z, WITH COEFF. 0.5

*WIND FORCES ON STRUCTUREAL ELEMENTS

LOAD 164 LOADTYPE Wind TITLE WL-X (WIND LOAD -X)

*LC 164 CORRESPONDS TO WIND ALONG (-X), WHICH FOR BUILDINGS IS DIFFERENT FROM

*-WINDX DUE TO THE DIFFERENCE IN THE WINDWARD AND LEEWARD SHAPE COEFFICIENTS

*IN THE BUILDING PORTION OF THE STRUCTURE: IN THE COMBINATIONS, "-WINDX"

*IS NOT "-160" BUT "+164 = +WIND(-X)" -

*NOT USED FOR OPEN FRAME PROCESS STRUCTURES

LOAD 165 LOADTYPE Wind TITLE WL-Z (WIND LOAD -Z)

*LC 165 CORRESPONDS TO WIND ALONG (-Z), WHICH FOR BUILDINGS IS DIFFERENT FROM

*-WINDZ DUE TO THE DIFFERENCE IN THE WINDWARD AND LEEWARD SHAPE COEFFICIENTS

*IN THE BUILDING PORTION OF THE STRUCTURE: IN THE COMBINATIONS, "-WINDZ"

*IS NOT "-161" BUT "+165 = +WIND(-Z)" -

*NOT USED FOR OPEN FRAME PROCESS STRUCTURES

LOAD 170 LOADTYPE None TITLE ELX (EARTHQUAKE LOAD X)

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 171 LOADTYPE None TITLE ELZ (EARTHQUAKE LOAD Z)

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 172 LOADTYPE None TITLE ELEX (EARTHQUAKE LOAD X EMPTY)

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 173 LOADTYPE None TITLE ELEZ (EARTHQUAKE LOAD Z EMPTY)

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 174 LOADTYPE None TITLE RAYLEIGH-X

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 175 LOADTYPE None TITLE RAYLEIGH-Z

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 176 LOADTYPE None TITLE ELOVERTICAL

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 177 LOADTYPE None TITLE ELEVERTICAL

*EARTHQUAKE LOAD NOT APPLICABLE IN THE NETHERLANDS

LOAD 180 LOADTYPE Accidental TITLE ML (MAINTANANCE LOAD/BUNDLE PULL)

*MONORAIL: VALVE

*MASS OF THE VALVE preliminary value 2000 kg -> on the safe side assumed 2500 kg

*

LOAD 185 LOADTYPE Accidental TITLE IL (IMPACT LOAD)

*

**ROTTERDAM SITE DEVELOPMENT
NESTE**

LOAD 190 LOADTYPE Dead TITLE VLX (VIBRATION LOAD)

*

LOAD 191 LOADTYPE Dead TITLE VLZ (VIBRATION LOAD)

*

LOAD 192 LOADTYPE Dead TITLE VLY (VIBRATION LOAD)

*

LOAD 195 LOADTYPE Accidental TITLE BL (BLAST LOAD)

*

LOAD 200 LOADTYPE Accidental TITLE CL (CONSTRUCTION LOAD)

*

LOAD 205 LOADTYPE Fluids TITLE FL (FLUID LOAD)

*

LOAD 210 LOADTYPE Soil TITLE HL (EARTH LOAD)

ELEMENT LOAD

605 608 633 636 TO 896 902 905 919 924 926 TO 1005 1007 1010 1019 -

1022 TO 1054 PR GY -22.93

1057 TO 1128 PR GY -20.9

*

LOAD 215 LOADTYPE None TITLE DS (DIFFERENTIAL SETTLEMENT LOAD)

LOAD 216 LOADTYPE None TITLE MODAL

MODAL CALCULATION REQUESTED

*

*LOAD COMBINATIONS ARE DEFINED ACCORDING TO THE COMBINATION PARAMETERS PSI ***

*REPORTED IN THE DUTCH NATIONAL ANNEX TO EN1990 (EUROCODE) *****

*USE OF COEFFICIENT KFI FOR UNFAVOURABLE LOADS IS CONSIDERED, FOR CC3 *****

*

***** COMBINATION SLS - CHARACTERISTIC**

*

***** EMPTY & CONSTRUCTION SLS *****

*

* SLS E&C - VERTICAL (PERMANENT) *****

LOAD COMB 300 DL+EE+HL

100 1.0 110 1.0 210 1.0

*

* SLS E&C - THERMAL AMBIENTAL *****

LOAD COMB 301 DE+EE+HL+TLT

100 1.0 110 1.0 210 1.0 150 1.0

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 302 DL+EE+HL-TLT
100 1.0 110 1.0 210 1.0 150 -1.0

*

* SLS E&C - WIND (OVERTURNING) *****

LOAD COMB 303 DL+EE+HL+WLX

100 1.0 110 1.0 210 1.1 160 1.0

LOAD COMB 304 DL+EE+HL-WLX

100 1.0 110 1.0 210 1.0 160 -1.0

LOAD COMB 305 DL+EE+HL+WLZ

100 1.0 110 1.0 210 1.0 161 1.0

LOAD COMB 306 DL+EE+HL-WLZ

100 1.0 110 1.0 210 1.0 161 -1.0

*

* SLS E&C - CONSTRUCTION *****

LOAD COMB 307 DL+EE+HL+CL

100 1.0 110 1.0 210 1.0 200 1.0

*

* SLS E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 308 DE+EE+HL+0.6TLT+CL

100 1.0 110 1.0 210 1.0 150 0.6 200 1.0

LOAD COMB 309 DE+EE+HL-0.6TLT+CL

100 1.0 110 1.0 210 1.0 150 -0.6 200 1.0

*

* SLS E&C - WIND *****

LOAD COMB 310 DL+EE+HL+WLX+0.7CL

100 1.0 110 1.0 210 1.0 160 1.0 200 0.7

LOAD COMB 311 DL+EE+HL-WLX+0.7CL

100 1.0 110 1.0 210 1.0 160 -1.0 200 0.7

LOAD COMB 312 DL+EE+HL+WLZ+0.7CL

100 1.0 110 1.0 210 1.0 161 1.0 200 0.7

LOAD COMB 313 DL+EE+HL-WLZ+0.7CL

100 1.0 110 1.0 210 1.0 161 -1.0 200 0.7

*

* SLS E&C - SNOW *****

LOAD COMB 314 DL+EE+HL+0.7CL+SL

100 1.0 110 1.0 210 1.0 200 0.7 125 1.0

*

*

*

***** OPERATING SLS *****

*

* SLS OPE - VERTICAL (PERMANENT) *****

LOAD COMB 400 DL+EO+VL+HL

100 1.0 115 1.0 210 1.0 190 1.0 191 1.0 192 1.0

*

* SLS OPE - THERMAL AMBIENTAL *****

LOAD COMB 401 DL+EO+TLSX+TLSZ+VL+HL+LL+TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

150 1.0 145 0.6 146 0.6

LOAD COMB 402 DL+EO+TLSX+TLSZ+VL+HL+LL-TLT+0.6TLFX+0.6TLFZ

100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -

ROTTERDAM SITE DEVELOPMENT NESTE

150 -1.0 145 0.6 146 0.6
 LOAD COMB 403 DL+EO+TLSX+TLSZ+VL+HL+LL-TLT-0.6TLFX-0.6FLFZ
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -1.0 145 -0.6 146 -0.6
 LOAD COMB 404 DL+EO-TLSX-TLSZ+VL+HL+LL+TLT+0.6TLFX+0.6TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 1.0 145 0.6 146 0.6
 LOAD COMB 405 DL+EO-TLSX-TLSZ+VL+HL+LL-TLT+0.6TLFX+0.6TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -1.0 145 0.6 146 0.6
 LOAD COMB 406 DL+EO-TLSX+TLSZ+VL+HL+LL-TLT-0.6TLFX-0.6TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -1.0 145 -0.6 146 -0.6

*
 * SLS OPE - THERMAL PIPES *****

LOAD COMB 407 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6TLT+TLFX+TLFZ
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 0.6 145 1.0 146 1.0
 LOAD COMB 408 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT+TLFX+TLFZ
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -0.6 145 1.0 146 1.0
 LOAD COMB 409 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT-TLFX-TLFZ
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -0.6 145 -1.0 146 -1.0
 LOAD COMB 410 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6TLT+TLFX+TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 0.6 145 1.0 146 1.0
 LOAD COMB 411 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT+TLFX+TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -0.6 145 1.0 146 1.0
 LOAD COMB 412 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT-TLFX-TLFZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 150 -0.6 145 -1.0 146 -1.0

*
 * SLS OPE - WIND (OVERTURNING) *****

LOAD COMB 413 DL+EO+TLSX+TLSZ+VL+HL+WLX
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 160 1.0
 LOAD COMB 414 DL+EO-TLSX-TLSZ+VL+HL-WLX
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 160 -1.0
 LOAD COMB 415 DL+EO+TLSX+TLSZ+VL+HL+WLZ
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 161 1.0
 LOAD COMB 416 DL+EO-TLSX-TLSZ+VL+HL-WLZ
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 161 -1.0

*
 * SLS OPE - LIVE *****

LOAD COMB 417 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6IL
 100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 185 0.6
 LOAD COMB 418 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6IL
 100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
 185 0.6

*
 * SLS OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 419 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 0.6 145 0.6 146 0.6

LOAD COMB 420 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 0.6 146 0.6

LOAD COMB 421 DL+EO+TLSX+TLSZ+VL+HL+LL-0.6TLT-0.6TLFX-0.6TLFZ
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -0.6 146 -0.6

LOAD COMB 422 DL+EO-TLSX-TLSZ+VL+HL+LL+0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 0.6 145 0.6 146 0.6

LOAD COMB 423 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT+0.6TLFX+0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 0.6 146 0.6

LOAD COMB 424 DL+EO-TLSX-TLSZ+VL+HL+LL-0.6TLT-0.6TLFX-0.6TLFZ
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
150 -0.6 145 -0.6 146 -0.6

*

* SLS OPE - WIND *****

LOAD COMB 425 DL+EO+TLSX+TLSZ+VL+HL+LL+WLX+0.6IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
160 1.0 185 0.6

LOAD COMB 426 DL+EO-TLSX-TLSZ+VL+HL+LL-WLX+0.6IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
160 -1.0 185 0.6

LOAD COMB 427 DL+EO+TLSX+TLSZ+VL+HL+LL+WLZ+0.6IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
161 1.0 185 0.6

LOAD COMB 428 DL+EO-TLSX-TLSZ+VL+HL+LL-WLZ+0.6IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
161 -1.0 185 0.6

*

* SLS OPE - SNOW *****

LOAD COMB 429 DL+EO+TLSX+TLSZ+VL+HL+LL+0.6IL+SL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6 125 1.0

LOAD COMB 430 DL+EO-TLSX-TLSZ+VL+HL+VL+LL+0.6IL+SL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 0.6 125 1.0

*

* SLS OPE - IMPACT *****

LOAD COMB 431 DL+EO+TLSX+TLSZ+VL+HL+LL+IL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 1.0

LOAD COMB 432 DL+EO-TLSX-TLSZ+VL+HL+LL+IL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 1.0 -
185 1.0

*

*

*

***** TEST SLS *****

**ROTTERDAM SITE DEVELOPMENT
NESTE**

```

*****
*
* SLS TEST - VERTICAL (PERMANENT) *****
LOAD COMB 500 DL+ET+HL
100 1.0 120 1.0 210 1.0
*
* SLS TEST - WIND-REDUCED VALUE (OVERTURNING) *****
LOAD COMB 501 DL+ET+HL+WLX50%
100 1.0 120 1.0 210 1.0 162 1.0
LOAD COMB 502 DL+ET+HL-WLX50%
100 1.0 120 1.0 210 1.0 162 -1.0
LOAD COMB 503 DL+ET+HL+WLZ50%
100 1.0 120 1.0 210 1.0 163 1.0
LOAD COMB 504 DL+ET+HL-WLZ50%
100 1.0 120 1.0 210 1.0 163 -1.0
*
* SLS TEST - LIVE *****
LOAD COMB 505 DL+ET+HL+LL+0.6IL
100 1.0 120 1.0 210 1.0 130 1.0 185 0.6
*
* SLS TEST - WIND-REDUCED VALUE *****
LOAD COMB 506 DL+ET+HL+LL+WLX50%+0.6IL
100 1.0 120 1.0 210 1.0 130 1.0 162 1.0 185 0.6
LOAD COMB 507 DL+ET+HL+LL-WLX50%+0.6IL
100 1.0 120 1.0 210 1.0 130 1.0 162 -1.0 185 0.6
LOAD COMB 508 DL+ET+HL+LL+WLZ50%+0.6IL
100 1.0 120 1.0 210 1.0 130 1.0 163 1.0 185 0.6
LOAD COMB 509 DL+ET+HL+LL-WLZ50%+0.6IL
100 1.0 120 1.0 210 1.0 130 1.0 163 -1.0 185 0.6
*
* SLS TEST - SNOW *****
LOAD COMB 510 DL+ET+HL+LL+0.6IL+SL
100 1.0 120 1.0 210 1.0 130 1.0 185 0.6 125 1.0
*
* SLS TEST - IMPACT *****
LOAD COMB 511 DL+ET+HL+LL+IL
100 1.0 120 1.0 210 1.0 130 1.0 185 1.0
*
*
*
*****
***** MAINTENANCE SLS *****
*****
*
* SLS MAINTENANCE - MAINTENANCE (OVERTURNING) *****
*
*
* SLS MAINTENANCE - MAINTENANCE *****
LOAD COMB 550 DL+EE+HL+LL+ML+BL+0.6IL
100 1.0 110 1.0 210 1.0 130 1.0 180 1.0 195 1.0 185 0.6
*
*
*

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**ROTTERDAM SITE DEVELOPMENT
NESTE**

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*****
***** QUASI-PERMANENT SLS *****
*****
LOAD COMB 600 DL+EO+TLSX+TLSZ+VL+HL+0.8LL
100 1.0 115 1.0 140 1.0 141 1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 0.8
LOAD COMB 601 DL+EO+TLSX+TLSZ+VL+HL+0.8LL
100 1.0 115 1.0 140 -1.0 141 -1.0 190 1.0 191 1.0 192 1.0 210 1.0 130 0.8
*
*
*
*
*****
***** COMBINATION ULS - STR/GEO ***
*****
*
*****
***** EMPTY & CONSTRUCTION ULS - STR/GEO *****
*****
*
* ULS STR/GEO E&C - VERTICAL (PERMANENT) *****
LOAD COMB 1000 1.5(DL+EE)+1.0HL
100 1.5 110 1.5 210 1.0
*
LOAD COMB 1001 1.3(DL+EE)+1.0HL
100 1.3 110 1.3 210 1.0
*
* ULS STR/GEO E&C - THERMAL AMBIENTAL *****
LOAD COMB 1002 0.9(DE+EE)+HL+1.65(0.6TLT)
100 0.9 110 0.9 210 1.0 150 1.0
LOAD COMB 1003 0.9(DL+EE)+HL-1.65(0.6TLT)
100 0.9 110 0.9 210 1.0 150 -1.0
*
LOAD COMB 1004 0.9(DL+EE)+HL+1.65TLT
100 0.9 110 0.9 210 1.0 150 1.65
LOAD COMB 1005 0.9(DL+EE)+HL-1.65TLT
100 0.9 110 0.9 210 1.0 150 -1.65
*
*
* ULS STR/GEO E&C - WIND (OVERTURNING) *****
LOAD COMB 1006 0.9(DL+EE)+HL+1.65WLX
100 0.9 110 0.9 210 1.1 160 1.65
LOAD COMB 1007 0.9(DL+EE)+HL-1.65WLX
100 0.9 110 0.9 210 1.0 160 -1.65
LOAD COMB 1008 0.9(DL+EE)+HL+1.65WLZ
100 0.9 110 0.9 210 1.0 161 1.65
LOAD COMB 1009 0.9(DL+EE)+HL-1.65WLZ
100 0.9 110 0.9 210 1.0 161 -1.65
*
* ULS STR/GEO E&C - CONSTRUCTION *****
LOAD COMB 1010 1.5(DL+EE)+1.0HL+1.65(0.7CL)
100 1.5 110 1.5 210 1.0 200 1.15
*
LOAD COMB 1011 1.3(DL+EE)+1.0HL+1.65CL

```

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.3 110 1.3 210 1.0 200 1.65

*

* ULS STR/GEO E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 1012 1.5(DE+EE)+1.0HL+1.65(0.6TLT+0.7CL)

100 1.5 110 1.5 210 1.0 150 1.0 200 1.15

LOAD COMB 1013 1.5(DE+EE)+1.0HL+1.65(-0.6TLT+0.7CL)

100 1.5 110 1.5 210 1.0 150 -1.0 200 1.15

*

LOAD COMB 1014 1.3(DE+EE)+1.0HL+1.65(0.6TLT+CL)

100 1.3 110 1.3 210 1.0 150 1.0 200 1.65

LOAD COMB 1015 1.3(DE+EE)+1.0HL+1.65(-0.6TLT+CL)

100 1.3 110 1.3 210 1.0 150 -1.0 200 1.65

*

*

* ULS STR/GEO E&C - WIND *****

LOAD COMB 1016 1.3(DL+EE)+1.0HL+1.65(WLX+0.7CL)

100 1.3 110 1.3 210 1.0 160 1.65 200 1.15

LOAD COMB 1017 1.3(DL+EE)+1.0HL+1.65(-WLX+0.7CL)

100 1.3 110 1.3 210 1.0 160 -1.65 200 1.15

LOAD COMB 1018 1.3(DL+EE)+1.0HL+1.65(WLZ+0.7CL)

100 1.3 110 1.3 210 1.0 161 1.65 200 1.15

LOAD COMB 1019 1.3(DL+EE)+1.0HL+1.65(-WLZ+0.7CL)

100 1.3 110 1.3 210 1.0 161 -1.65 200 1.15

*

* ULS STR/GEO E&C - SNOW *****

LOAD COMB 1020 1.3(DL+EE)+1.0HL+1.65(0.7CL+SL)

100 1.3 110 1.3 210 1.0 200 1.15 125 1.65

*

*

*

*

*

***** OPERATING ULS STR/GEO *****

*

*

* ULS STR/GEO OPE - VERTICAL (PERMANENT) *****

LOAD COMB 1100 1.5(DL+EO+VL)+1.0HL

100 1.5 115 1.5 190 1.5 191 1.5 192 1.5 210 1.0

LOAD COMB 1101 1.3(DL+EO+VL)+1.0HL

100 1.3 115 1.3 190 1.3 191 1.3 192 1.3 210 1.0

*

* ULS STR/GEO OPE - THERMAL AMBIENTAL *****

LOAD COMB 1102 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -

150 1.0 145 1.0 146 1.0

LOAD COMB 1103 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -

150 -1.0 145 1.0 146 1.0

LOAD COMB 1104 0.9(DL+EO)+1.5(TLSX+TLSZ)+0.9VL+HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)

100 0.9 115 0.9 140 1.5 141 1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -

150 -1.0 145 -1.0 146 -1.0

LOAD COMB 1105 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

ROTTERDAM SITE DEVELOPMENT NESTE

100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1106 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1107 0.9(DL+EO)+1.5(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 -1.5 141 -1.5 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
*
LOAD COMB 1108 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL+TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 1.65 145 1.0 146 1.0
LOAD COMB 1109 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL-TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 1.0 146 1.0
LOAD COMB 1110 0.9(DL+EO)+1.3(TLSX+TLSZ)+0.9VL+HL+1.65(LL-TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 1.3 141 1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 -1.0 146 -1.0
LOAD COMB 1111 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL+TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 1.65 145 1.0 146 1.0
LOAD COMB 1112 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 1.0 146 1.0
LOAD COMB 1113 0.9(DL+EO)+1.3(-TLSX-TLSZ)+0.9VL+HL+1.65(LL-TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 -1.3 141 -1.3 190 0.9 191 0.9 192 0.9 210 1.0 130 1.65 -
150 -1.65 145 -1.0 146 -1.0
*
*
* ULS STR/GEO OPE - THERMAL PIPES *****
LOAD COMB 1114 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1115 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1116 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
LOAD COMB 1117 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1118 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1119 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
*
LOAD COMB 1120 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.65 146 1.65
LOAD COMB 1121 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+TLFX+TLFZ)

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.65 146 1.65
LOAD COMB 1122 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-TLFX-TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.65 146 -1.65
LOAD COMB 1123 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.65 146 1.65
LOAD COMB 1124 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+TLFX+TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.65 146 1.65
LOAD COMB 1125 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-TLFX-TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.65 146 -1.65
*
*
* ULS STR/GEO OPE - WIND (OVERTURNING) *****
LOAD COMB 1126 0.9(DL+EO+TLSX+TLSZ+VL)+HL+1.65WLX
100 0.9 115 0.9 140 0.9 141 0.9 190 0.9 191 0.9 192 0.9 210 1.0 160 1.65
LOAD COMB 1127 0.9(DL+EO+TLSX+TLSZ+VL)+HL-1.65WLX
100 0.9 115 0.9 140 -0.9 141 -0.9 190 0.9 191 0.9 192 0.9 210 1.0 160 -1.65
LOAD COMB 1128 0.9(DL+EO+TLSX+TLSZ+VL)+HL+1.65WLZ
100 0.9 115 0.9 140 0.9 141 0.9 190 0.9 191 0.9 192 0.9 210 1.0 161 1.65
LOAD COMB 1129 0.9(DL+EO+TLSX+TLSZ+VL)+HL-1.65WLZ
100 0.9 115 0.9 140 -0.9 141 -0.9 190 0.9 191 0.9 192 0.9 210 1.0 161 -1.65
*
* ULS STR/GEO OPE - LIVE *****
LOAD COMB 1130 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0
LOAD COMB 1131 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0
*
LOAD COMB 1132 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.0
LOAD COMB 1133 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.0
*
*
* ULS STR/GEO OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****
LOAD COMB 1134 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1135 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1136 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
LOAD COMB 1137 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1138 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1139 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
*
LOAD COMB 1140 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1141 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1142 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
LOAD COMB 1143 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 1.0 145 1.0 146 1.0
LOAD COMB 1144 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 1.0 146 1.0
LOAD COMB 1145 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
150 -1.0 145 -1.0 146 -1.0
*
*
* ULS STR/GEO OPE - WIND *****
LOAD COMB 1146 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+WLX+0.6IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
160 1.65 185 1.0
LOAD COMB 1147 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-WLX+0.6IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
160 -1.65 185 1.0
LOAD COMB 1148 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+WLZ+0.6IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
161 1.65 185 1.0
LOAD COMB 1149 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL-WLZ+0.6IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
161 -1.65 185 1.0
*
* ULS STR/GEO OPE - SNOW *****
LOAD COMB 1150 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL+SL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.1 125 1.65
LOAD COMB 1151 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL+SL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.1 125 1.65
*
*
* ULS STR/GEO OPE - IMPACT *****

ROTTERDAM SITE DEVELOPMENT NESTE

LOAD COMB 1152 1.5(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 1.5 141 1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0

LOAD COMB 1153 1.5(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+0.6IL)
100 1.5 115 1.5 140 -1.5 141 -1.5 190 1.5 191 1.5 192 1.5 210 1.0 130 1.65 -
185 1.0

LOAD COMB 1154 1.3(DL+EO+TLSX+TLSZ+VL)+1.0HL+1.65(LL+IL)
100 1.3 115 1.3 140 1.3 141 1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.65

LOAD COMB 1155 1.3(DL+EO-TLSX-TLSZ+VL)+1.0HL+1.65(LL+IL)
100 1.3 115 1.3 140 -1.3 141 -1.3 190 1.3 191 1.3 192 1.3 210 1.0 130 1.65 -
185 1.65

*

*

*

***** TEST ULS STR/GEO *****

* ULS STR/GEO TEST - VERTICAL (PERMANENT) *****

LOAD COMB 1200 1.5(DL+ET)+1.0HL
100 1.5 120 1.5 210 1.0

*

LOAD COMB 1201 1.3(DL+ET)+1.0HL
100 1.3 120 1.3 210 1.0

*

*

* ULS STR/GEO TEST - WIND-REDUCED VALUE (OVERTURNING) *****

LOAD COMB 1202 0.9(DL+ET)+HL+1.65WLX50%
100 0.9 120 0.9 210 1.0 162 1.65

LOAD COMB 1203 0.9(DL+ET)+HL-1.65WLX50%
100 0.9 120 0.9 210 1.0 162 -1.65

LOAD COMB 1204 0.9(DL+ET)+HL+1.65WLZ50%
100 0.9 120 0.9 210 1.0 163 1.65

LOAD COMB 1205 0.9(DL+ET)+HL-1.65WLZ50%
100 0.9 120 0.9 210 1.0 163 -1.65

*

* ULS STR/GEO TEST - LIVE *****

LOAD COMB 1206 1.5(DL+ET)+1.0HL+1.65(LL+0.6IL)
100 1.5 120 1.5 210 1.0 130 1.65 185 1.1

*

LOAD COMB 1207 1.3(DL+ET)+1.0HL+1.65(LL+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 185 1.0

*

*

* ULS STR/GEO TEST - WIND-REDUCED VALUE *****

LOAD COMB 1208 1.3(DL+ET)+1.0HL+1.65(LL+WLX50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 162 1.65 185 1.0

LOAD COMB 1209 1.3(DL+ET)+1.0HL+1.65(LL-WLX50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 162 -1.65 185 1.0

LOAD COMB 1210 1.3(DL+ET)+1.0HL+1.65(LL+WLZ50%+0.6IL)
100 1.3 120 1.3 210 1.0 130 1.65 163 1.65 185 1.0

LOAD COMB 1211 1.3(DL+ET)+1.0HL+1.65(LL-WLZ50%+0.6IL)

ROTTERDAM SITE DEVELOPMENT NESTE

100 1.3 120 1.3 210 1.0 130 1.65 163 -1.65 185 1.0

*

* ULS STR/GEO TEST - SNOW *****

LOAD COMB 1212 1.3(DL+ET)+1.0HL+1.65(LL+0.6IL+SL)

100 1.3 120 1.3 210 1.0 130 1.65 185 1.0 125 1.65

*

*

* ULS STR/GEO TEST - IMPACT *****

LOAD COMB 1213 1.5(DL+ET)+1.0HL+1.65(LL+0.6IL)

100 1.5 120 1.5 210 1.0 130 1.65 185 1.0

*

LOAD COMB 1214 1.3(DL+ET)+1.0HL+1.65(LL+IL)

100 1.3 120 1.3 210 1.0 130 1.65 185 1.65

*

*

*

***** MAINTENANCE ULS STR/GEO *****

*

* ULS STR/GEO MAINTENANCE - MAINTENANCE (OVERTURNING) *****

LOAD COMB 1250 0.9(DL+EE)+HL+1.65(ML+BL+0.6IL)

100 0.9 110 0.9 210 1.0 180 1.65 195 1.65 185 1.0

*

*

* ULS STR/GEO MAINTENANCE - MAINTENANCE *****

LOAD COMB 1251 1.5(DL+EE)+1.0HL+1.65(LL+ML+BL+0.6IL)

100 1.5 110 1.5 210 1.0 130 1.65 180 1.65 195 1.65 185 1.0

*

LOAD COMB 1252 1.3(DL+EE)+1.0HL+1.65(LL+ML+BL+0.6IL)

100 1.3 110 1.3 210 1.0 130 1.65 180 1.65 195 1.65 185 1.0

*

*

*

*

***** COMBINATION ULS-EQU *****

*

*

*

***** EMPTY & CONSTRUCTION ULS - EQU *****

*

* ULS EQU E&C - VERTICAL (PERMANENT) *****

LOAD COMB 2000 1.1(DL+EE+HL)

100 1.1 110 1.1 210 1.1

*

* ULS EQU E&C - THERMAL AMBIENTAL *****

LOAD COMB 2001 0.9(DE+EE+HL)+1.5TLT

100 0.9 110 0.9 210 0.9 150 1.5

LOAD COMB 2002 0.9(DL+EE+HL)-1.5TLT

**ROTTERDAM SITE DEVELOPMENT
NESTE**

100 0.9 110 0.9 210 0.9 150 -1.5

*

* ULS EQU E&C - WIND (OVERTURNING) *****

LOAD COMB 2003 0.9(DL+EE+HL)+1.5WLX

100 0.9 110 0.9 210 0.9 160 1.5

LOAD COMB 2004 0.9(DL+EE+HL)-1.5WLX

100 0.9 110 0.9 210 0.9 160 -1.5

LOAD COMB 2005 0.9(DL+EE+HL)+1.5WLZ

100 0.9 110 0.9 210 0.9 161 1.5

LOAD COMB 2006 0.9(DL+EE+HL)-1.5WLZ

100 0.9 110 0.9 210 0.9 161 -1.5

*

* ULS EQU E&C - CONSTRUCTION *****

LOAD COMB 2007 1.1(DL+EE+HL)+1.5(CL)

100 1.1 110 1.1 210 1.1 200 1.5

*

* ULS EQU E&C - CONSTRUCTION (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 2008 1.1(DE+EE+HL)+1.5(0.6TLT+CL)

100 1.1 110 1.1 210 1.1 150 0.9 200 1.5

LOAD COMB 2009 1.1(DE+EE+HL)+1.5(-0.6TLT+CL)

100 1.1 110 1.1 210 1.1 150 -0.9 200 1.5

*

* ULS EQU E&C - WIND *****

LOAD COMB 2010 1.1(DL+EE+HL)+1.5(WLX+0.7CL)

100 1.1 110 1.1 210 1.1 160 1.5 200 1.05

LOAD COMB 2011 1.1(DL+EE+HL)+1.5(-WLX+0.7CL)

100 1.1 110 1.1 210 1.1 160 -1.5 200 1.05

LOAD COMB 2012 1.1(DL+EE+HL)+1.5(WLZ+0.7CL)

100 1.1 110 1.1 210 1.1 161 1.5 200 1.05

LOAD COMB 2013 1.1(DL+EE+HL)+1.5(-WLZ+0.7CL)

100 1.1 110 1.1 210 1.1 161 -1.5 200 1.05

*

* ULS EQU E&C - SNOW *****

LOAD COMB 2014 1.1(DL+EE+HL)+1.5(0.7CL+SL)

100 1.1 110 1.1 210 1.1 200 1.05 125 1.5

*

*

*

*

*

***** OPERATING ULS EQU *****

*

*

* ULS EQU OPE - VERTICAL (PERMANENT) *****

LOAD COMB 2100 1.1(DL+EO+HL+VL)

100 1.1 115 1.1 210 1.1 190 1.1 191 1.1 192 1.1

*

* ULS EQU OPE - THERMAL AMBIENTAL *****

LOAD COMB 2101 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL+TLT+0.6TLFX+0.6TLFZ)

100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -

150 1.5 145 0.9 146 0.9

LOAD COMB 2102 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL-TLT+0.6TLFX+0.6TLFZ)

ROTTERDAM SITE DEVELOPMENT NESTE

100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -
150 -1.5 145 0.9 146 0.9
LOAD COMB 2103 0.9(DL+EO)+1.1(TLSX+TLSZ)+0.9(HL+VL)+1.5(LL-TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 1.1 141 1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -
150 -1.5 145 -0.9 146 -0.9
LOAD COMB 2104 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL+TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -
150 1.5 145 0.9 146 0.9
LOAD COMB 2105 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL-TLT+0.6TLFX+0.6TLFZ)
100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -
150 -1.5 145 0.9 146 0.9
LOAD COMB 2106 0.9(DL+EO)+1.1(-TLSX-TLSZ)+0.9(HL+VL)+1.5(LL-TLT-0.6TLFX-0.6TLFZ)
100 0.9 115 0.9 140 -1.1 141 -1.1 210 0.9 190 0.9 191 0.9 192 0.9 130 1.5 -
150 -1.5 145 -0.9 146 -0.9

* ULS EQU OPE - THERMAL PIPES *****
LOAD COMB 2107 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 1.5 146 1.5
LOAD COMB 2108 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 1.5 146 1.5
LOAD COMB 2109 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT-TLFX-TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -1.5 146 -1.5
LOAD COMB 2110 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 1.5 146 1.5
LOAD COMB 2111 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT+TLFX+TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 1.5 146 1.5
LOAD COMB 2112 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT-TLFX-TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -1.5 146 -1.5

* ULS EQU OPE - WIND (OVERTURNING) *****
LOAD COMB 2113 0.9(DL+EO+TLSX+TLSZ+HL+VL)+1.5WLX
100 0.9 115 0.9 140 0.9 141 0.9 210 0.9 190 0.9 191 0.9 192 0.9 160 1.5
LOAD COMB 2114 0.9(DL+EO-TLSX-TLSZ+HL+VL)-1.5WLX
100 0.9 115 0.9 140 -0.9 141 -0.9 210 0.9 190 0.9 191 0.9 192 0.9 160 -1.5
LOAD COMB 2115 0.9(DL+EO+TLSX+TLSZ+HL+VL)+1.5WLZ
100 0.9 115 0.9 140 0.9 141 0.9 210 0.9 190 0.9 191 0.9 192 0.9 161 1.5
LOAD COMB 2116 0.9(DL+EO-TLSX-TLSZ+HL+VL)-1.5WLZ
100 0.9 115 0.9 140 -0.9 141 -0.9 210 0.9 190 0.9 191 0.9 192 0.9 161 -1.5

* ULS EQU OPE - LIVE *****
LOAD COMB 2117 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9
LOAD COMB 2118 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6IL)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9

ROTTERDAM SITE DEVELOPMENT NESTE

* ULS EQU OPE - LIVE (NO INSTANTANEOUS ACTIONS) *****

LOAD COMB 2119 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 0.9 146 0.9

LOAD COMB 2120 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 0.9 146 0.9

LOAD COMB 2121 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -0.9 146 -0.9

LOAD COMB 2122 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 0.9 145 0.9 146 0.9

LOAD COMB 2123 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT+0.6TLFX+0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 0.9 146 0.9

LOAD COMB 2124 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-0.6TLT-0.6TLFX-0.6TLFZ)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
150 -0.9 145 -0.9 146 -0.9

* ULS EQU OPE - WIND *****

LOAD COMB 2125 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+WLX+0.6IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
160 1.5 185 0.9

LOAD COMB 2126 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL-WLX+0.6IL)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
160 -1.5 185 0.9

LOAD COMB 2127 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+WLZ+0.6IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
161 1.5 185 0.9

LOAD COMB 2128 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL-WLZ+0.6IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
161 -1.5 185 0.9

* ULS EQU OPE - SNOW *****

LOAD COMB 2129 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+0.6IL+SL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9 125 1.5

LOAD COMB 2130 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+0.6IL+SL)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 0.9 125 1.5

* ULS EQU OPE - IMPACT *****

LOAD COMB 2131 1.1(DL+EO+TLSX+TLSZ+HL+VL)+1.5(LL+IL)
100 1.1 115 1.1 140 1.1 141 1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 1.5

LOAD COMB 2132 1.1(DL+EO-TLSX-TLSZ+HL+VL)+1.5(LL+IL)
100 1.1 115 1.1 140 -1.1 141 -1.1 210 1.1 190 1.1 191 1.1 192 1.1 130 1.5 -
185 1.5

ROTTERDAM SITE DEVELOPMENT NESTE

***** TEST ULS EQU *****

* ULS EQU TEST - VERTICAL (PERMANENT) *****

LOAD COMB 2200 1.1(DL+ET+HL)

100 1.1 120 1.1 210 1.1

*

* ULS EQU TEST - WIND-REDUCED VALUE (OVERTURNING) *****

LOAD COMB 2201 0.9(DL+ET+HL)+1.5WLX50%

100 0.9 120 0.9 210 0.9 162 1.5

LOAD COMB 2202 0.9(DL+ET+HL)-1.5WLX50%

100 0.9 120 0.9 210 0.9 162 -1.5

LOAD COMB 2203 0.9(DL+ET+HL)+1.5WLZ50%

100 0.9 120 0.9 210 0.9 163 1.5

LOAD COMB 2204 0.9(DL+ET+HL)-1.5WLZ50%

100 0.9 120 0.9 210 0.9 163 -1.5

*

* ULS EQU TEST - LIVE *****

LOAD COMB 2205 1.1(DL+ET+HL)+1.5(LL+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 185 0.9

*

* ULS EQU TEST - WIND-REDUCED VALUE *****

LOAD COMB 2206 1.1(DL+ET+HL)+1.5(LL+WLX50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 162 1.5 185 0.9

LOAD COMB 2207 1.1(DL+ET+HL)+1.5(LL-WLX50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 162 -1.5 185 0.9

LOAD COMB 2208 1.1(DL+ET+HL)+1.5(LL+WLZ50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 163 1.5 185 0.9

LOAD COMB 2209 1.1(DL+ET+HL)+1.5(LL-WLZ50%+0.6IL)

100 1.1 120 1.1 210 1.1 130 1.5 163 -1.5 185 0.9

*

* ULS EQU TEST - SNOW *****

LOAD COMB 2210 1.1(DL+ET+HL)+1.5(LL+0.6IL+SL)

100 1.1 120 1.1 210 1.1 130 1.5 185 0.9 125 1.5

*

* ULS EQU TEST - IMPACT *****

LOAD COMB 2211 1.1(DL+ET+HL)+1.5(LL+IL)

100 1.1 120 1.1 210 1.1 130 1.5 185 1.5

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***** MAINTENANCE ULS EQU *****

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* ULS EQU MAINTENANCE - MAINTENANCE (OVERTURNING) *****

LOAD COMB 2250 0.9(DL+EE+HL)+1.5(LL+ML+BL+0.6IL)

100 0.9 110 0.9 210 0.9 130 1.5 180 1.5 195 1.5 185 0.9

*

* ULS EQU MAINTENANCE - MAINTENANCE *****

LOAD COMB 2251 1.1(DL+EE+HL)+1.5(LL+ML+BL+0.6IL)

100 1.1 110 1.1 210 1.1 130 1.5 180 1.5 195 1.5 185 0.9

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**ROTTERDAM SITE DEVELOPMENT
NESTE**

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*****
PERFORM ANALYSIS PRINT ALL
*
*****
LOAD LIST 300 TO 314 400 TO 432 500 TO 511 550
PRINT STORY DRIFT
*
*****
*
*
*****
***** ENVELOPES *****
*****
DEFINE ENVELOPE
*ENVELOPE 1 FOR SERVICEABILITY CHECKS
300 TO 314 400 TO 432 500 TO 511 550 ENVELOPE 1 TYPE SERVICEABILITY
*ENVELOPE 2 FOR STR/GEO CHECKS
1000 TO 1020 1100 TO 1155 1200 TO 1214 1250 TO 1252 ENVELOPE 2 TYPE STRENGTH
*ENVELOPE 3 FOR EQU CHECKS
2000 TO 2014 2100 TO 2132 2200 TO 2211 2250 2251 ENVELOPE 3 TYPE STRENGTH
END DEFINE ENVELOPE
*
FINISH

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