



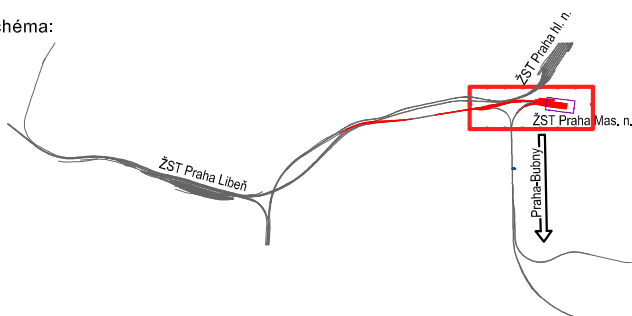
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1 Úvod

Technické řešení platformy zastřešení Masarykova nádraží vychází z architektonické studie zastřešení žst. Praha Masarykovo nádraží. Platforma zastřešení přemostňuje kolejiště železniční stanice, propojuje ulice Hybernskou, Opletalovu a křižovatku U Bulhara s ulicí na Florenci. Současně řeší přístup na jednotlivá nástupiště žst. Praha Masarykovo nádraží z východní strany. Na severní straně platforma přímo navazuje na budovu CBD1.

Tento dokument obsahuje základní předpoklady a popis vstupních údajů výpočtu. Výstupy generované programem SOFiSTiK a GEO5 jsou samostatná příloha, která je vzhledem na rozsah jenom v digitální formě.

1.1 Seznam použitých norem a předpisů

- ČSN EN 1990 – Zásady navrhování konstrukcí
- ČSN EN 1991-2 (NA, Z3) – Zatížení konstrukcí – Zatížení mostů dopravou
- ČSN EN 1991-1-1 – Obecná zatížení – Objemové tíhy, vlastní tíha a užitná zatížení pozemních staveb
- **ČSN EN 1991-1-3 – Zatížení konstrukcí – Zatížení sněhem**
- ČSN EN 1991-1-4 – Zatížení konstrukcí – Zatížení větrem
- ČSN EN 1991-1-5 – Zatížení konstrukcí – Zatížení teplotou
- ČSN EN 1991-1-7 – Zatížení konstrukcí – Mimořádná zatížení
- ČSN EN 1992 – Navrhování betonových konstrukcí
- ČSN EN 1997 – Navrhování geotechnických konstrukcí
- ČSN EN 1997 – Navrhování konstrukcí odolných proti zemětřesení

1.2 Seznam výpočetních programů

- SOFiSTiK 2021
- AutoCad v.20
- Word, Ecel
- MathCad v.7
- GEO5

1.3 Změny vůči předchozímu stupni DSP

- Zvýšení zatížení platformy vlivem změny tloušťky vrstev podlahy, která se změnila z původní tloušťky 300 mm na 450 mm, stálá zatížení vzrostla o 50%
- Byl upraven tvar příčného řezu nosníku v ose A, byl vylehčen
- Vlivem zvýšení zatížení byli změněny rozměry sloupů, původní rozměr 400x600 mm byl změněn na 500x800 mm, v oblasti šikmé hrany a v částech před a za eskalátorem byli rozměry sloupů změněny na 500x1600 mm, na těchto sloupech by jinak nevyhovělo posouzení na protlačení a posouzení místně zatížené plochy ČSN EN 1992-1-1 (6.63) a drcení diagonály ČSN EN 1992-1-1 (6.5)
- Původní elastomerová ložiska byla změněna na kalotová, kromě ložisek uložení ochozu
- Zdi výtahových šachet jsou nyní vetknuty do stropní desky (ložiska byla odstraněna), důvodem je tahaná stěna v DC6, kde by uložení na ložiscích nebylo vůbec možné, na ostatních zdích šachet se v krajních ložiscích koncentrovali síly zbylé byly nevyužity, koncentrace síly způsobovala nevyhovující posudek na smyk – drcení diagonály ČSN EN 1992-1-1 (6.5), tato změna vyvolala také zvýšení množství výztuže v stěně v napojení na základ
- Všechny zdi rámu jsou nyní vetknuté do stropní desky, tato změna vyvolala také zvýšení množství výztuže v stěně v napojení na základ

- Dilatační celky DC4 a DC5 jsou nyní propojeny ozubem na DC4, kde jsou umístěna 3 kalotová ložiska, tato změna odlehčuje zeď rámu DC5, a zmenšuje průhyb jak DC5, tak DC4
- Statický výpočet nyní uvažuje ze zesilujícími žebry, tak jak byli nakresleny ve výkresech tvaru DSP, výpočet v DSP s nimi neuvažoval. Důvodem změny je nevyhovující smyk na šikmé hráně.
- Hodnota pohyblivého zatížení lidmi byla změněna z hodnoty 5,0 na 7,5 kN/m², pro zohlednění možnosti nahromadění lidí.

1.4 Popis mostního objektu – základní údaje

Jedná se o pochůznou konstrukci zastřešení vybavenou výsadbou a mobiliárem. Rozměry obrysu konstrukce jsou 220x120m.

Obrysové rozměry dilatačních celků:

DC1	72,90 x 27,55	2 008 m ²
DC2	45,19 x 27,55	1 244 m ²
DC3	73,75 x 31,93	2 354 m ²
DC4	32,20 x 64,90	2 089 m ²
DC5	56,30 x 32,15	1 810 m ²
DC6	64,90 x 19,13	1 241 m ²

Konstrukce je tvořená hlubinnými základy, základovými patkami, základovými pásy, ocelobetonovými pilíři, stěnami výtahových šachet a deskou střešní konstrukce, která má 3 tloušťky. Konstrukce má sdílenou hranu s ochozem CBD1(DC1,2 a 3). Konstrukce schodišť a eskalátoru z ulic Na Florenci a Opletalova jsou z hlediska statiky samostatné konstrukce s vlastním založením.

Konstrukce je rozdělena na 6 dilatačních celků. Dilatační celky v úrovni desky působí samostatně s výjimkou DC4 a DC5, které jsou propojeny. Dilatační celky mají sdílené základy a pilíře na jejich rozhraních. Pro návrh těchto prvků je nutné zohlednit postup výstavby a postup ukládání vrstev podlahy. Ostatní stála zatížení představují 80 %.

Konstrukce je uvažována jako lávka pro pěší dle ČSN EN 1991-2.

1.5 Geotechnické informace

Nově provedené vrty J101, J102, J103 a J104 (zpracovatel SUDOP Praha).

Z archivních podkladů vyplývá, že dané území prodělalo značné změny. Ty se projeví na současném reliéfu. Původně mírně zvlněný terén byl postupně zarovnáván především vyplňováním starých meandrů a pravostranných přítoků Vltavy.

V polovině 17. století bylo v zájmovém území zbudováno barokní opevnění sestávající z hradební zdi, nezavodněného příkopu a bastionů. Na severním okraji barokního opevnění je pravděpodobné, že příkop byl zavodněn příční vodou z Vltavy. Konkrétně v ulici Hyberské byl umístěn bastion XXIII sv. Mikuláše. V těchto místech barokní opevnění procházelo přibližně v poloze staršího gotického opevnění, které bylo zabudováno nebo překryto kurtinami nového opevnění. V roce 1844 byla část hradebního příkopu zasypána v souvislosti s výstavbou koncového nádraží c. k. Severní státní dráhy a v hradbách byla zbudována brána pro 6 kolejí. V roce 1874 bylo rozhodnuto o zboření hradeb. Jejich bourání probíhalo pouze do úrovně terénu a materiál byl použit pravděpodobně k zasypání příkopu. Lze proto předpokládat, že na tomto místě docházelo k několikanásobnému přemísťování zemin i stavební suti, což dokládají i provedené průzkumné práce.

Geologická stavba:

Převážně se jedná o pleistocenní a holocenní terasové sedimenty Vltavy, které jsou ve svrchní části horizontu doplněny antropogenními zeminami a stavebními konstrukcemi.

Předkvartérní podklad:

Archivními vrty byly horniny skalního podkladu zastiženy v hloubkách okolo 14 až 15 m pod terénem.

Kvartérní pokryv:

Kvartérní pokryv je v zájmovém území zastoupen fluvialními terasovými sedimenty. Tyto sedimenty dosahují dle archivních sond mocností až 14 metrů, u báze jsou pak značně hrubozrnné, s valouny až do 30 cm. Ve vyšších polohách převládají hrubozrnné písky s drobnými valounky a s variabilní hlinitou příměsí.

Nejvyšší patro, náležející holocénu, je představováno především písčito-hlinitými sedimenty pouze s nevýraznou příměsí drobných valounků křemene.

Střední patro kvartérních sedimentů je tvořeno především středně zrnitými písčitymi zeminami s drobnou příměsí štěrkových zrn.

Nejnižší patro kvartérních sedimentů pak tvoří písčité štěrky, pouze se slabou hlinitou příměsí. Štěrková zrna jsou zpravidla nevytříděná, středně zrnitá, u báze až balvanitá. Jejich mocnost se pohybuje v rozmezí cca 4–5 m.

Antropogenní sedimenty – navážky

V letech 1348 až 1350 byly vybudovány hrady chránící Nové město pražské.

V letech 1650 až 1658 bylo v zájmovém území zbudováno barokní opevnění.

V roce 1844 byla v souvislosti s výstavbou koncového nádraží c. k. Severní státní dráhy (dnešní Masarykovo nádraží) vybudována v hradební kurtině brána pro 6 kolejí a přilehlá část příkopu zasypana. V roce 1874 pak bylo rozhodnuto o zbourání hradeb.

V zájmovém území tak budou zastiženy různé mocné navážky, a to konkrétně v místě západní části železniční stanice a její dvorany středně mocné navážky (cca 3–5 m), ve východní části stanice pak mocné navážky hradebních zdí a zasypaného příkopu (až 11,7 m) a ve východní části zájmového území pak především těleso železničního náspu nad údolní nivou Vltavy a přilehlých činžovních domů. Dále mohou být v území zastiženy pozůstatky historicky mladších stavebních konstrukcí, a to především skladů a hal souvisejících s provozem železniční stanice.

Tektonika území:

V zájmovém území probíhá důležitý, tzv. pražský zlom. Jeho průběh se předpokládá v jižní části plánovaného zastřešení, konkrétně u severního okraje ulice Hybernská. Jedná se o poruchové pásmo o celkové mocnosti cca 10 až 15 m. Podél pražského zlomu došlo k posunu až o 1500 m. V zájmovém území se severně od zlomu vyskytují jílovité břidlice bohdaleckých vrstev a jižně od zlomu břidlice šáreckých vrstev.

Geotechnická charakteristika zemin a hornin:

Navážky

Geotechnický typ Y

Do geotechnického typu Y řadíme navážky modelující svrchní patro celého zájmového území. V území budou zastiženy dvě odlišná prostředí. V západní polovině území se jedná o historickou modelaci terénu za využití místních překopaných zemin variabilních složení se zastoupení písčito-hlinitých až hlinitopísčitých sedimentů třídy F4-Y až S4-Y a hlinito-štěrkovitých sedimentů třídy G4-Y s proměnlivým podílem stavebních sutí (cihly, opuka, kameny, úlomky betonu apod.). Ve východní části území pak budou zastiženy stavební konstrukce původního gotického opevnění, dále barokního opevnění tvořeného zděnou kamennou a cihelnou konstrukcí a také upravenou částí opevnění v podobě hradební brány. Před barokním opevněním směrem na východ bude zastižen hluboký zasypaný hradební příkop přednostně materiálem hradební zdi a zeminového valu. Mocnost navážek v těchto místech je značná, hloubka zděných konstrukcí barokního opevnění se pohybuje v rozmezí až 10–11 m, založení gotického opevnění se předpokládá v menší hloubce pod terénem. Zděné konstrukce mohou být zastiženy i v jiných místech než původním půdorysu hradebního opevnění.

Kvartérní sedimenty

Geotechnický typ Q1

Do tohoto geotechnického typu řadíme fluvialní povodňové sedimenty třídy F3 MS (hlíny písčité) a F4 CS (jíly písčité), s převládající tuhou až pevnou konzistencí, hnědé barvy, místy s vložkami silné

zahliněných písků a místy slabě slídnatých, ojediněle s příměsí valounků křemene a oj. rostlinnými zbytky. Jedná se převážně o svrchní patro kvartérního pokryvu v místech s nejnižší mocností navážek a občasné vločky v nižších vrstvách.

Geotechnický typ Q2

Do výše uvedeného geotechnického typu řadíme písčité sedimenty třídy S2 SP (písky špatně zrněné) a S3 S-F (písky s příměsí jemnozrné zeminy) tvořící střední patro kvartérních fluvialních sedimentů. Zeminy jsou středně uhlé, u báze až uhlé, zpravidla středně zrnité, místy až hrubozrné, slídnaté, hnědé až žlutohnědé barvy, s ojedinělými hlinitými závalky a s příměsí valounků křemene a hornin vel. do 1-3 cm.

Geotechnický typ Q3

Do tohoto geotechnického typu řadíme hlinitopísčité sedimenty třídy S4 SM (písek hlinitý) tvořící čočky a prolohy v písčitém patru kvartérních sedimentů. Jedná se o středně uhlé zeminy, zpravidla jemnozrné až středně zrnité, hnědé barvy, s ojedinělými valouny křemene a horniny vel. do 1 cm.

Geotechnický typ Q4

Tento geotechnický typ je zastoupen štěrkovitými sedimenty třídy G2 GP (štěrk špatně zrněný) a G3 G-F (štěrk s příměsí jemnozrné zeminy). Tyto zeminy tvoří spodní část kvartérního fluvialního sledu. Jedná se převážně o uhlé zeminy, středně až hrubě zrnité, s valouny křemene a variabilních hornin vel. 1-5 cm, s výskytem balvanů vel. až 20 cm, s mezerní výplní tvořenou hrubozrnným pískem.

Horniny předkvartérního podkladu

Geotechnický typ O1

Do tohoto geotechnického typu řadíme zcela zvětralé ordovické břidlice nabývající charakteru písčitohlinitých až písčitojilovitých zemin třídy F3 MS, resp. F4 CS. Zeminy zachovávají strukturu matečné horniny, jsou převážně pevné konzistence, hnědé až hnědočerné barvy, s rezavými šmouhami, s hojnými měkkými střípky matečné horniny. Na plochách odlučnosti jsou patrné limonitické povlaky.

Geotechnický typ O2

Do výše uvedeného typu řadíme silně zvětralé ordovické břidlice o velmi nízké až extrémně nízké pevnosti třídy R6/R5. Horniny jsou vrstevnaté, střípkovité, místy až drobně úlomkovitě rozpadavé na ploché střípky a úlomky o střední pevnosti, tmavě hnědošedé až šedočerné barvy. Na plochách odlučnosti jsou patrné limonitické povlaky. V blízkosti zlomového pásma pak jsou na střípcích patrné tektonické ohlasy a celkově mocnost této silně zvětralé zóny narůstá.

Geotechnický typ O3

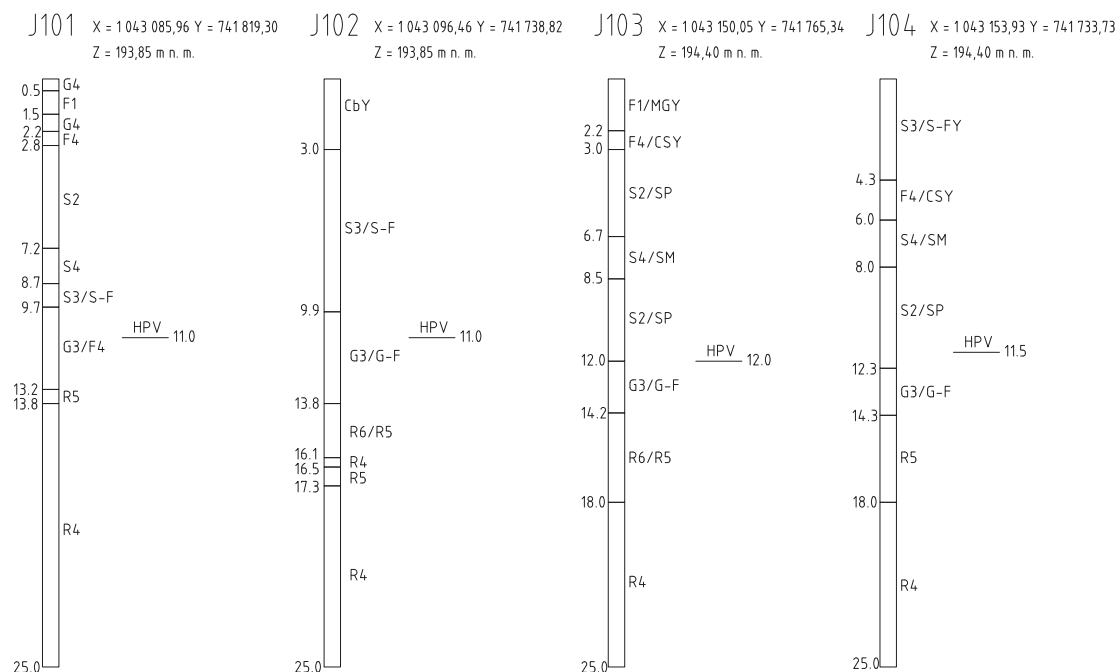
Do tohoto typu řadíme mírně zvětralé a navětralé ordovické břidlice o nízké až velmi nízké pevnosti třídy R5, resp. R4, lokálně pak s narůstajícím podílem prachové frakce pak nabývají až středních pevností třídy R3. Horniny jsou vrstevnaté, úlomkovitě až drobně kusovitě rozpadavé, na ploché úlomky o střední pevnosti, tmavě šedočerné barvy. V mírně zvětralých zónách se místy vyskytují tenké tektonicky více podrcené prolohy související s blízkým zlomovým pásmem.

Geotechnický typ	Geologické stáří	ČSN 73 1001	Edef	ϕ_{ef}	cef	Uv, tab
Y1	R	F3, F4, G4-Y				
Q1	Q	F3/MS, F4/CS	5.8	14.1	24	630
Q2	Q	S3/S-F, S2/SP	30	0	32	600
Q3	Q	S4/SM, S5/SC	18	4	28	450
Q4	Q	G2/GP, G3/G-F	90	0	35	700
O1	O	R6/MS, CS	10	16	26	1250
O2	O	R6/R5	10	30	30	1250
O3	O	R4	120	50	34	1250

Geotechnická kategorie: 2. geotechnická kategorie

geotechnické konstrukce, ve smyslu ČSN EN 1997-1 – Eurokód 7: Navrhování geotechnických konstrukcí – Část 1: Obecná pravidla

Založení je hlubinné na velkopřůměrových pilotách vetknutých do navětralé jílovité břidlice (třída R4), délka pilot se pohybuje mezi cca 18–20 m, v jižní části staveniště jsou horniny skalního podloží v blízkosti zlomového pásma více podrcené a mají celkově nižší pevnost J103, J104, délka pilot v jižní části proto bude min. 20 m. hloubení pilot musí probíhat pod ochrannou výpažnic. Při hloubení pilot je nezbytná přítomnost stálého geotechnického dozoru, přítomný geotechnik určí, zda zastižené horniny splňují požadavky projektu pro bezpečné založení objektu a zároveň určí nutná opatření při zastižení podrcených poloh hornin skalního podloží.



Seismická aktivita:

Podle ČSN EN 1998-1 (73 0036) náleží zájmové území do oblasti s malou seismicitou. Hodnoty referenčního zrychlení základové půdy a_{gr} nepřesahuje v dané oblasti 0,02*g. Typ pružné odezvy 2, typ základové půdy E.

Hydrogeologické podmínky:

Hladina podzemní vody je na kótách cca 182,4 – 182,9. Hladina je závislá od podmínek v korytě Vltavy, od kterého je území vzdáleno cca 630 m.

Stupeň agresivity podzemní vody **XA2**.

Geoelektrický průzkum:

Z hlediska geoelektrických vlastností se jedná o **Typ 4**.

Není registrováno žádné poddolované území, žádné projevy nestability území. Zájmové území neleží v průzkumném ani chráněném území.

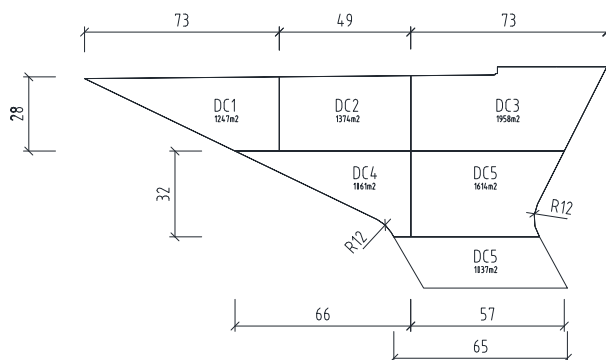
Klimatické poměry:

Průměrný počet dnů se sněhovou pokrývkou 30-40

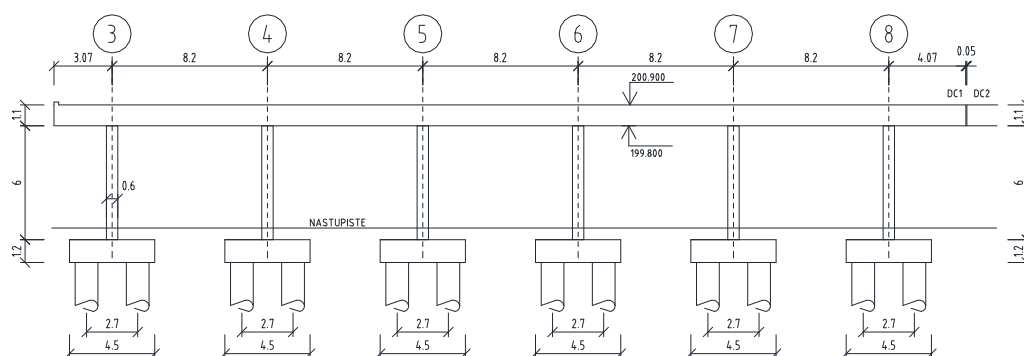
Průměrné maximum sněhové pokrývky 15 cm.

1.6 Schéma mostu – platforma zastřešení

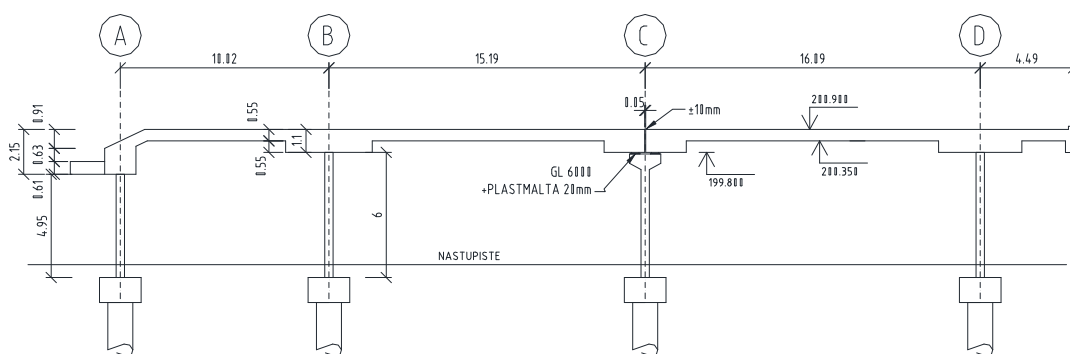
Dělení na dilatační celky



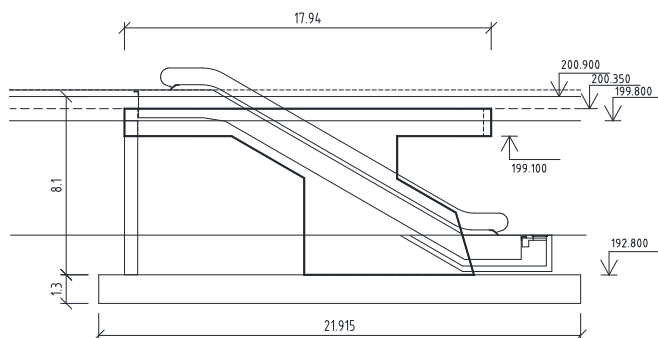
Charakteristický podélný řez DC1 , osa B



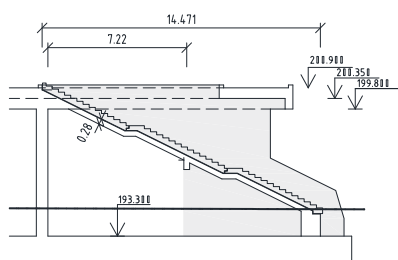
Charakteristický příčný řez DC1



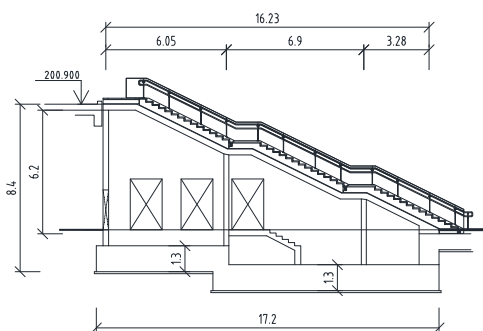
Charakteristický příčný řez stěnou rámu



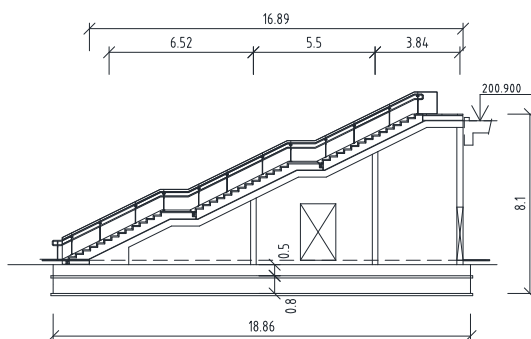
Řez schodištěm v ose E DC6



Řez schodištěm ulice na Florenci



Řez schodištěm ulice na Opletalova



1.7 Způsob statického výpočtu

Konstrukce je modelována jako prostorová za využití prostorových prvků nosníků a desko-stěnových prvků. Konstrukce je modelovaná jako celek, včetně spodní stavby a založení na pilotách. Ve výpočtu jsou zohledněny etapy výstavby (vliv na spodní stavbu). Konstrukce je rozdělena na 6 dilatačních celků. Etapovitost je zohledněna v modelu 7, co je celkový model složený ze všech dilatačních celků.

Každý dilatační celek má svůj vlastní podrobný model. Tento model je určen pro podrobné posouzení desky. Důvod pro tento postup jsou sdílené základy. V těchto modelech je zahuštěna síť elementů pro přesnější posouzení.

Stropní deska má různé tloušťky. Osa desky je uvažovaná při její horním povrchu. Deska je zarovnána k hornímu okraji, s výjimkou desky v ose A, kde jsou desky tloušťky 0,61 m a proměnné tloušťky 1,24 → 2,15 m zarovnány ke spodnímu okraji. Tyto roviny jsou propojeny tuhým propojením.

Výpočet je lineární, co umožňuje superpozici zatěžovacích stavů.

Piloty jsou modelovány jako 3D nosníky podélně podepřené pružinami. Na konci piloty je umístěna svislá pružina definující podloží. Piloty v jižní části mají odlišné délky a parametry podepření. Celková délka piloty je rozdělena na 3 stejné části, kde je uvažováno s jiným množstvím výztuže. Tyto části lze poté optimalizovat. Důvodem pro toto rozdělení je MSP posouzení programem. V tomto případě (to se týká jenom prutových prvků) program nenavrhuje potřebné množství výztuže, pouze posuzuje zadanou.

Piloty jsou vetknuté do základu, který je modelován desko-stěnovými prvky.

Do základu je vetknut ocelo-betonový pilíř. Pilíře jsou dvojího typu. První typ je na rozhraní dilatačních celků. Pilíř má tvar T. Deska je na pilíři uložena na kalotových ložiscích. Druhý typ pilíře je vetknut do desky nosné konstrukce.

Ložiska jsou modelována jako krátké nosníky, s uvolněními vazbami dle typu ložiska. Ložiska jsou jednosměrná.

Každý z modelů je v tomto dokumentu statického výpočtu stručně popsán. Podrobné vstupní a výstupní informace jsou v příloze dokumentu, separátně pro každý model. Program SOFiSTiK dimenzuje vyztuž pro MSP a MSÚ. Výpočet startuje s minimálním stupněm vyztužení. Vyztuž je programem doplňována až do 100% využití průřezu, pokud nejsou překročeny limity dané normou.

Příloha modelu obsahuje:

- Popis průřezů a materiálů
- Popis modelu
- Popis zatížení
- Popis kombinací
- Posudky, tj. návrh výztuže pro MSÚ aj MSP.

Označení modulů ve výstupech:

AQUA – norma, materiálové charakteristiky, průřezové charakteristiky, geologické profily pro výpočet bočních pružin

SOFIMSHC – konstrukční body, linie, plochy modelu.

SOFILOAD – zatížení modelu, jednotlivé zatěžovací stavy

ASE – lineární výpočet, s uvedením sumy zatížení a reakcí pro kontrolu

MAXIMA – vyhodnocení kombinací, superpozice zatěžovacích stavů pro hledané extrémy sil na prvcích na základě označení skupin zatížení pro danou sílu na prvků.

BEMESS – návrh výztuže MSÚ, MSP pro plošné prvky

AQB – návrh výztuže MSÚ, MSP pro nosníky

2 Stavební materiály

2.1 Beton

Materiály nosné konstrukce:

Prvek	Beton	C _{min} /C _{nom}
Deska NK	C35/45 – XC3 – CI0,4 -Dmax22 – S3 – max. průsak 20 mm , samohutnicí beton	30/40
Výplň pilíře	C40/50 – XC3 – CI0,4 -Dmax22 – S3 – max. průsak 20 mm	30/40
Hlavice pilíře	C40/50 – XC3 – CI0,4 -Dmax22 – S3 – max. průsak 20 mm	30/40
Stěny rámu	C35/45 – XC3, XF2 – CI0,4 -Dmax16 – S3 – max. průsak 20 mm , pohledový beton PB3, samohutnicí	45/55
Stěny schodišť Florenc, Opletalova	C35/40 – XC3, XF2 – CI0,4 -Dmax16 – S3 – max. průsak 20 mm , pohledový beton PB3, samohutnicí	45/55
Desky schodiště	C35/45 – XC3, XF2 – CI0,4 -Dmax22 – S3 – max. průsak 20 mm	30/40

Materiály zakládání a spodní stavby:

Prvek	Beton	C _{min} /C _{nom}
Pilota	C30/37 – XC3, XA2 – CI0,4 -Dmax22 – S4 – max. průsak 35 mm	90/100
Základ	C30/37 – XC3, XA2, XF1 – CI0,4 -Dmax22 – S3 – max. průsak 35 mm	45/55

Krytí dle ČSN EN 1992-2. Pro životnost 100 let, desková konstrukce. Kvalita betonu pro piloty je zvýšena s ohledem na MSP posouzení.

2.2 Výztuž

B500B

Modul pružnosti $E_s=200\text{GPa}$. Limitní přetvoření 4,5 %, meze kluzu je 500 MPa.

2.3 Rozdělení konstrukce na dilatační celky

Celková struktura platformy je rozdělena na 6 dilatačních celků. Z hlediska statiky má dělení na dilatační celky = etapy výstavby nosné konstrukce , význam jenom při posuzování pilot, základů a pilířů. Velkost namáhání těchto prvků je závislá na pořadí , ve kterém se betonují jednotlivé dilatační celky a postup budování vrstev podlah.

V stupni PDPS je uvažováno s tímto pořadím DC1,DC2,DC4,DC6,DC5,DC3. Vrstvy podlah budou osazovány ve stejném pořadí.

Mezi jednotlivými celky jsou dilatační spáry šířky 50 mm, které umožňují dilatační pohyb od normové teploty (hodnoty pro mostní konstrukce) a smršťování. Tyto posuny jsou uvedené v části zatížení. Rozhodující jsou posuny v podélném směru (podél os A až F), v tomto směru jsou natočena kalotová všesměrová ložiska, jejich větší deformace.

3 Výpočetní model

3.1 Celkový model

Model konstrukce celku včetně založení.

3.1.1 Piloty

Konstrukce je modelována jako prostorový model, a to včetně základových patek a pilot. Piloty jsou pružně podepřeny horizontálními pružinami. Tuhosti pružin byly vypočteny programem GEO5. Tuhost pružin je odvozená z geologických profilů. Je zohledněna jejich poloha v půdoryse. Průměr pilot je 1,2m.

Délka pilot je 18 m pro piloty v osách A,B,C,D a 20 m pro piloty v osách E,F (DC6). Piloty délky 18 m mají geologii definovanou vrtem J101, piloty délky 20 m mají geologii definovanou z vrtu J104. Dominantním zatížením piloty je svislá síla, jelikož vodorovné síly jsou vyvolány pouze větrem, teplotou a smršťováním nosné konstrukce.

Vzdálenost pilot je navržena tak, aby skupinové působení nesnižovalo kapacitu piloty. (1,5xD)

3.1.2 Základy

Základové patky a pásy jsou umístěny ve dvou výškových polohách. Mají dvě různé tloušťky. Patky mají rozměry 4,5x2,0x1,2 m (2 piloty) – základní rozměr, nebo 5,8x2,0x1,2 m (3 piloty) – zesílení na 2 místech, pásy mají tloušťku 1,3 m. Tvar je ve výpočtu idealizován na konstantní tloušťku.

3.1.3 Pilíře

Pilíře jsou ocelobetonové, dvou základních typů. První typ je pilíř vetknut do desky nosné konstrukce, druhý typ je pilíř v místě dilatace. Druhý typ má T tvar , s konzolami pro uložení ložisek. Výška konzoly je 1,1m, šířka dle šířky pilíře.

Dřík obou typů pilíře má výšku 500 mm , a jednou se dvou šířek 800 nebo 1600 mm.

Parametry průřezů jsou uvedena ve výstupech AQUA a to včetně výztuže a tloušťky plechu.

3.1.4 Zdi rámu

Oblast u eskalátorů , nebo schodiště DC6 jsou vymezeny rámem. Rám tvoří dvojice zdí, s tloušťkou 350 mm. Zeď je v spodní části vetknutá do základu a v horní části je vetknutá do desky nosné konstrukce. Toto uložení generuje dodatečné síly vlivem smršťování a teploty.

3.1.5 Stěny výtahové šachty

Stěny výtahové šachty jsou jenom dvě. Mají tloušťku 400 mm. Jsou ve spodní části vetknuté do základu a v horní části jsou vetknuty do desky nosné konstrukce. Původní řešení (uložení na ložiscích) se stalo nepoužitelné vzhledem na statické působení stěny v ose F DC6. Tato stěna je vlivem zatížení tahaná, co prakticky vylučuje použití ložisek. Z tohoto důvodu byli upraveny stěny všech výtahových šachet. Toto řešení vyžaduje větší množství výztuže ve spodní části stěny , v napojení na základ. Množství koresponduje s množstvím ve stěnách rámu, jelikož se jedná o stejné namáhání.

3.1.6 Deska nosné konstrukce

V oblastech nad pilířem má deska tloušťku 1100 mm, mimo těchto oblastí je tloušťka desky 550 mm, nebo 150 mm, nad eskalátorem a schodištěm.

V ose A má deska v části v napojení na ochoz tloušťku 610 mm, následuje deskový nosník s měnící se tloušťkou od 890 mm do 1620 mm, s tloušťkou nad pilířem 1250 mm. Tato geometrie je změněná vůči předchozímu stupni DSP.

Tloušťka desky ozubu mezi DC4 a DC5 je 480 mm.

3.1.7 Okrajové podmínky

Piloty jsou v patě podepřeny pružnou podpěrou. Tuhost pružin vychází z dat geotechnického průzkumu J101 a J104. Piloty jsou ve vodorovném směru podepřeny pružinami, u kterých je tuhost interpolována z vrstev podloží (výpočet je přímo zabudován ve výpočetním programu). Tuhosti byly stanoveny programem GEO5 (viz příloha).

Modelová osa základových desek, schodišťových desek, desky rampy v DC3, desky ozubu jsou uvažovány ve středu desky. Desky v ose A mají osu při spodním povrchu. Ostatní desky mají osu při horním povrchu. Program automaticky generuje odsazení elementu k těžišti.

Propojení desek zarovnaných ke spodnímu a hornímu povrchu je zabezpečeno tuhými propojeními. Stejným způsobem jsou propojena piloty se základy, zdi ráků a šachet se základy a deskou nosné konstrukce, nosníky ložisek s hlavami pilíře a deskou nosné konstrukce. Nosníkové prvky mají definovaná uvolnění na konci prvku, zabezpečující volnost, kterou umožňují ložiska.

3.1.8 Etapy výstavby

Výpočet zohledňuje etapy výstavby, počítá se změnou vlastností betonu v čase (dotvarování, smršťování).

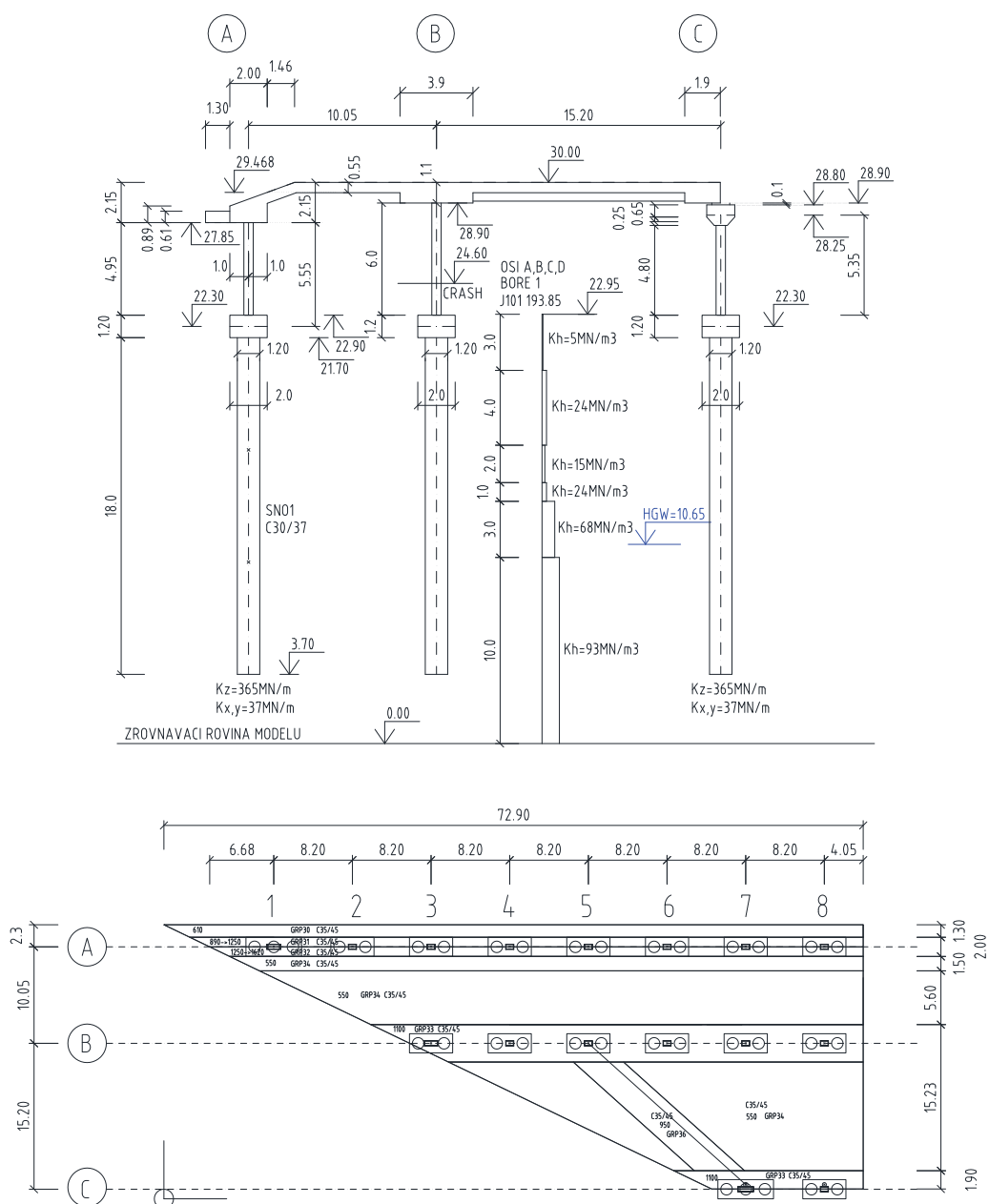
Jednotlivé etapy následují za sebou v rozmezí jednoho měsíce (28 dní). Parametry výpočtu jsou v příloze výpočtu, která je generovaná FEM softwarem.

Jednotlivé výpočty jsou realizovány postupným zapínáním části konstrukce ces aktivací skupin, a ces aktivací zatížení vlastní tíhou dle skupin. Ve výstupech jsou tyto zatěžovací stavy označeny G0-1 až G0-6.

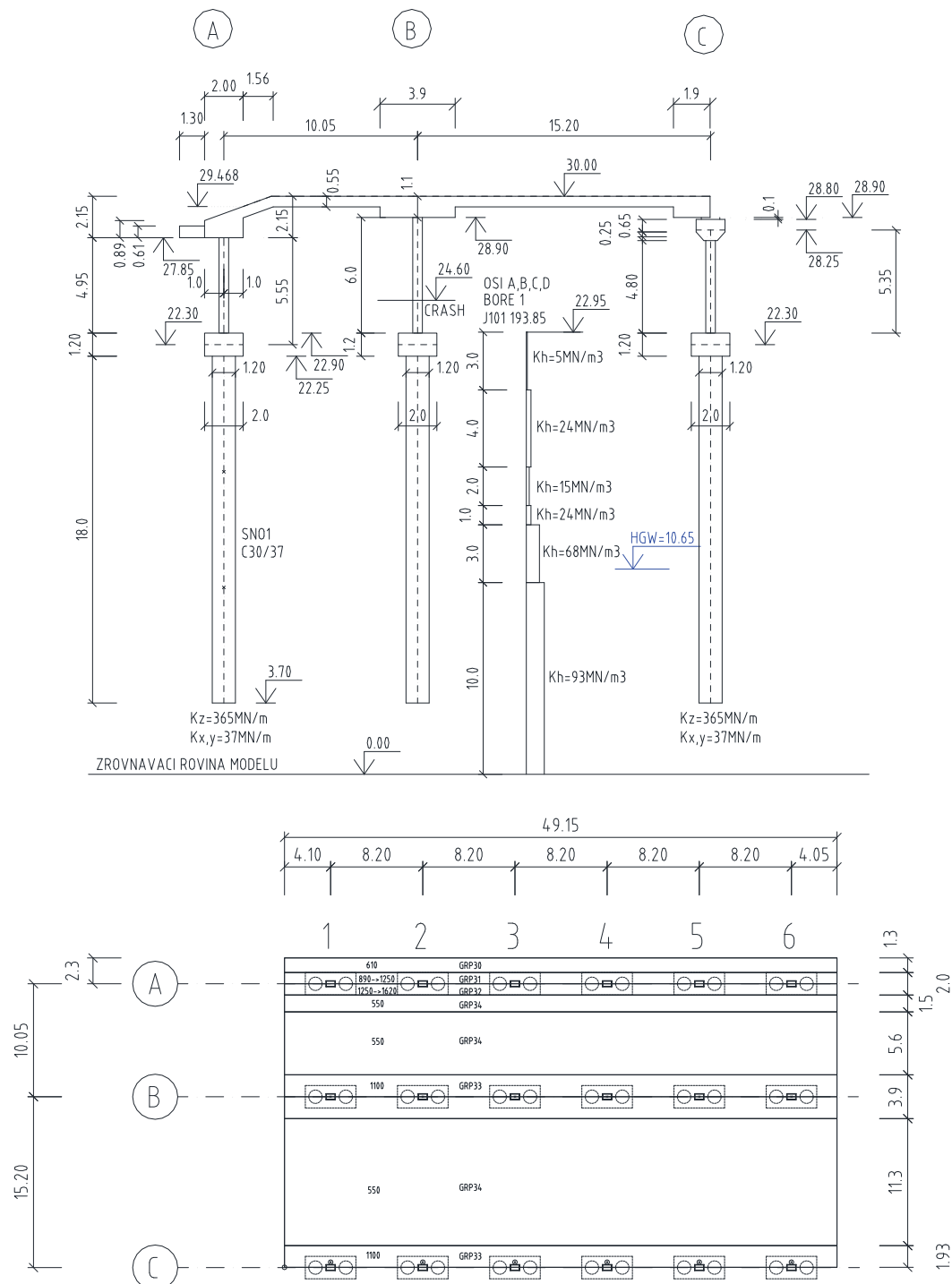
3.2 Model schodišť

Schodiště na ulicích Opletalova a Na Florenci jsou samostatné modely, jelikož jsou dilatačně odděleny od desky platformy. Mají také samostatný základ.

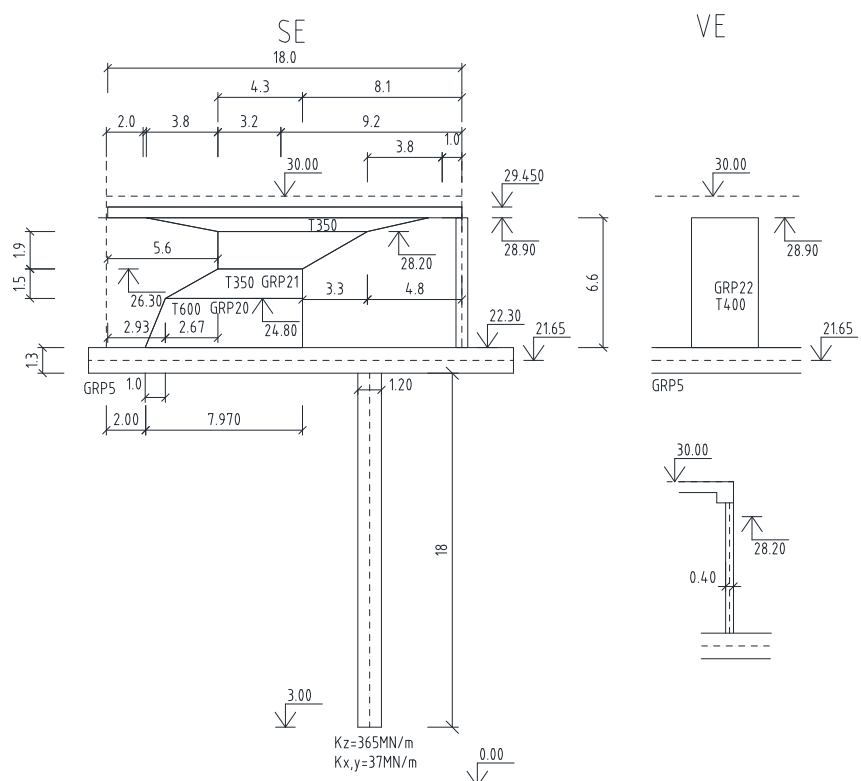
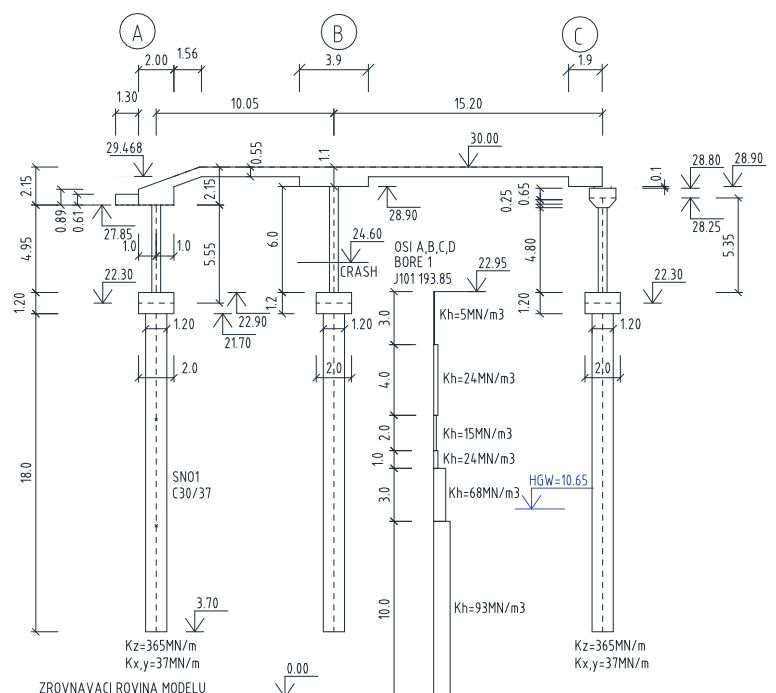
Osové schéma řezu



3.4 Osové schéma modelu DC2

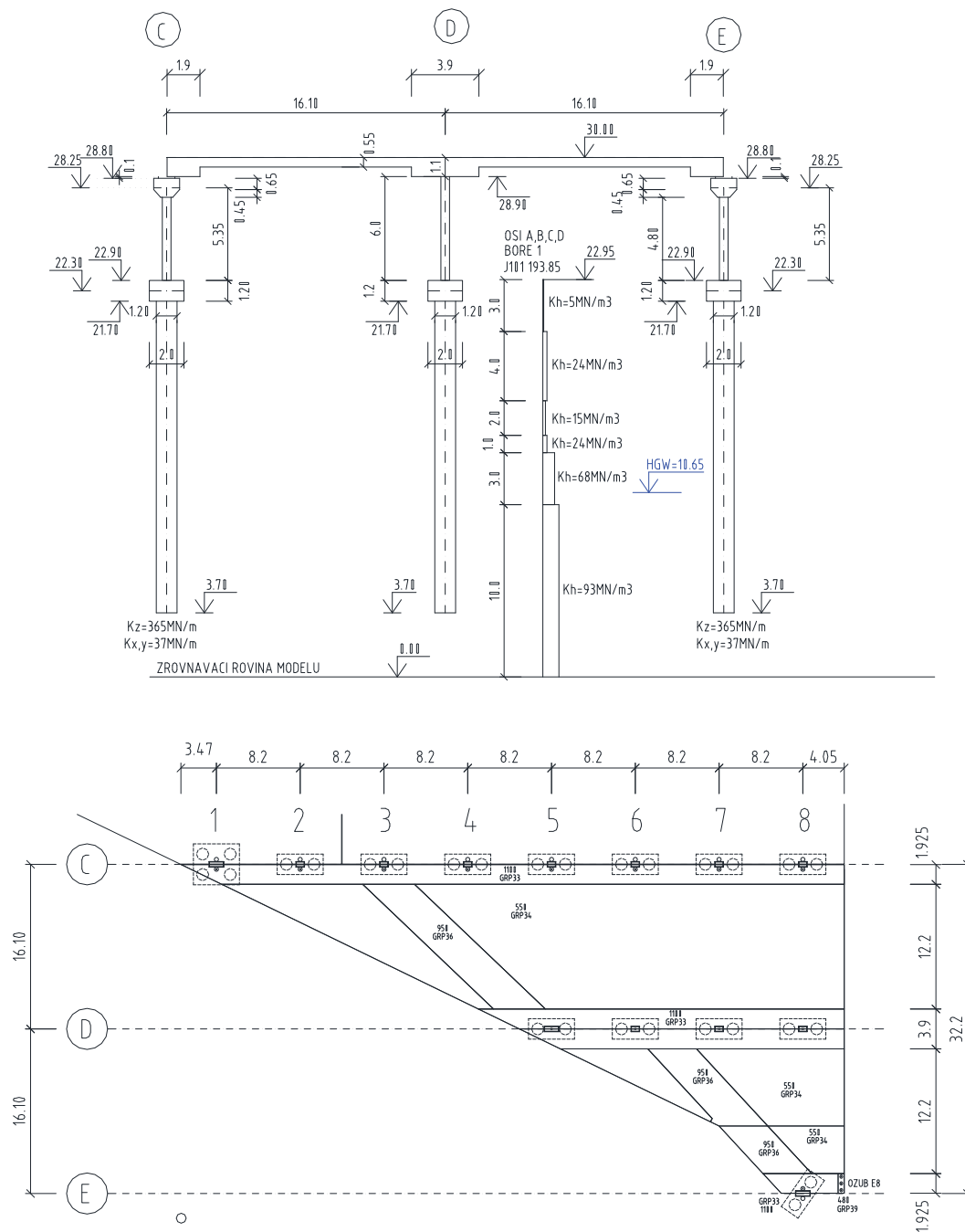


3.5 Osové schéma modelu DC3

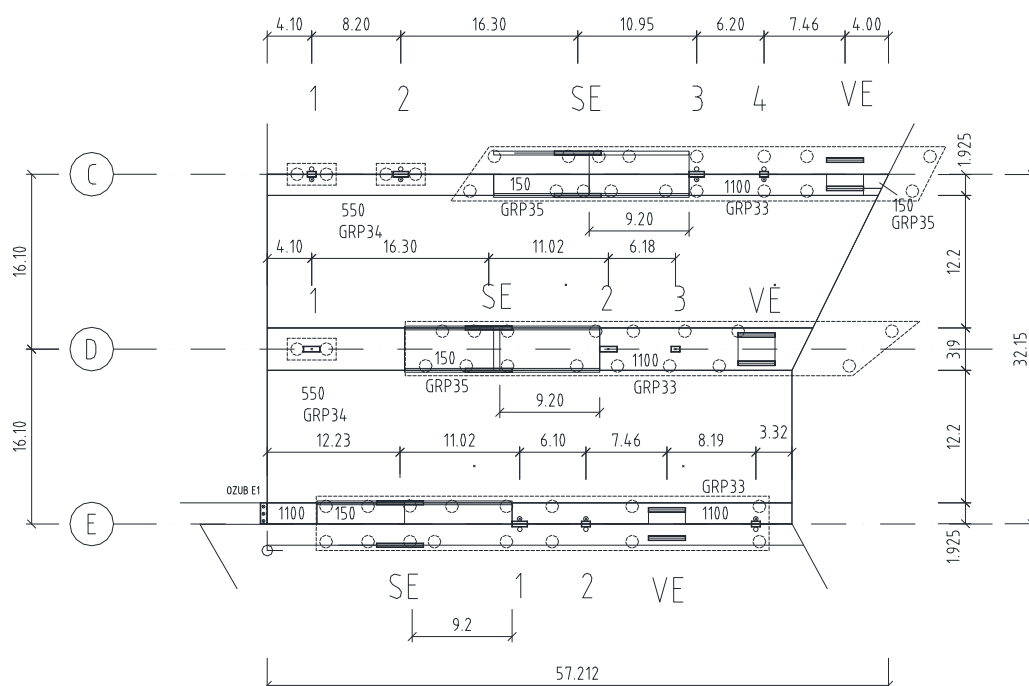




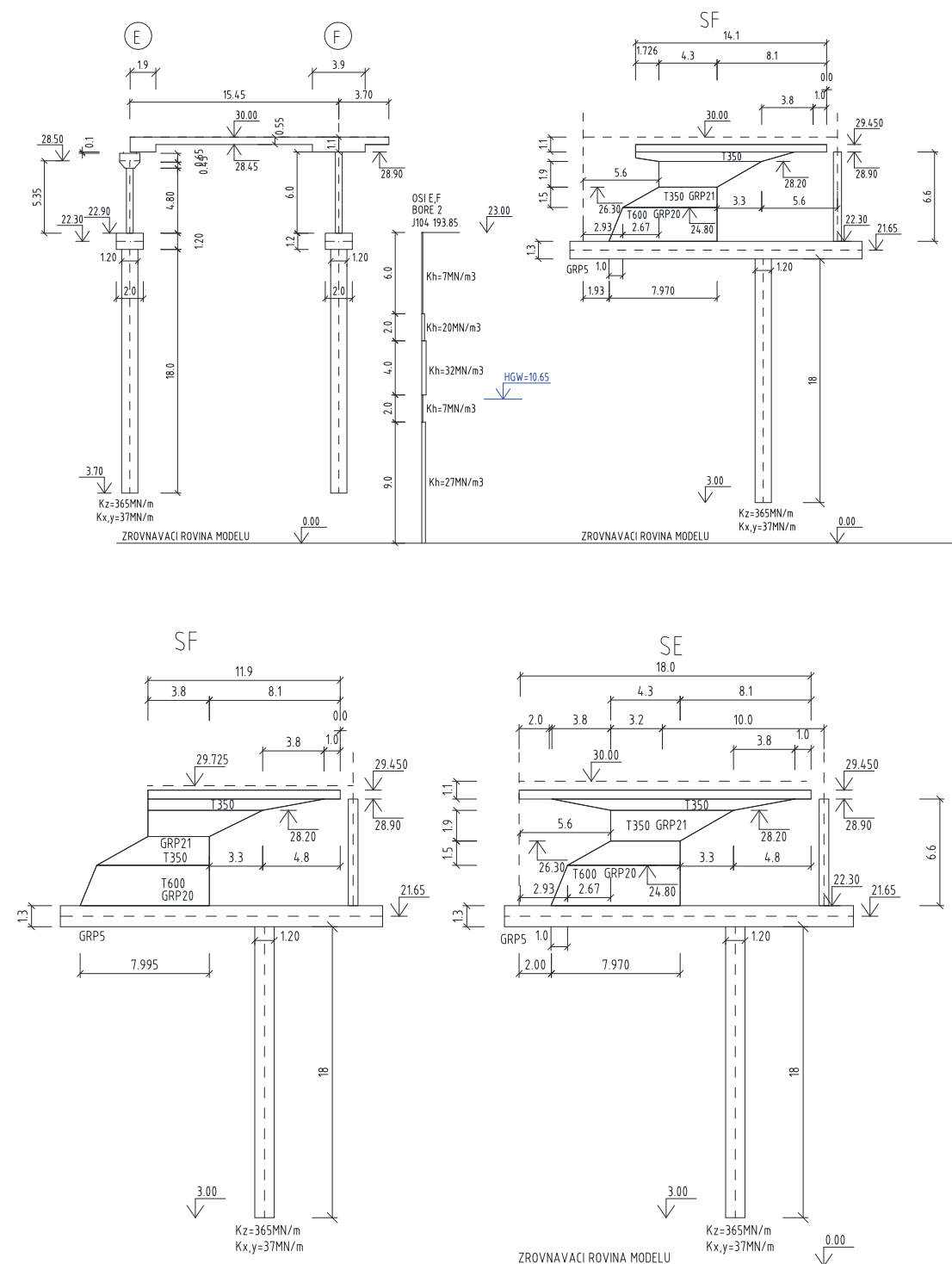
3.6 Osové schéma modelu DC4

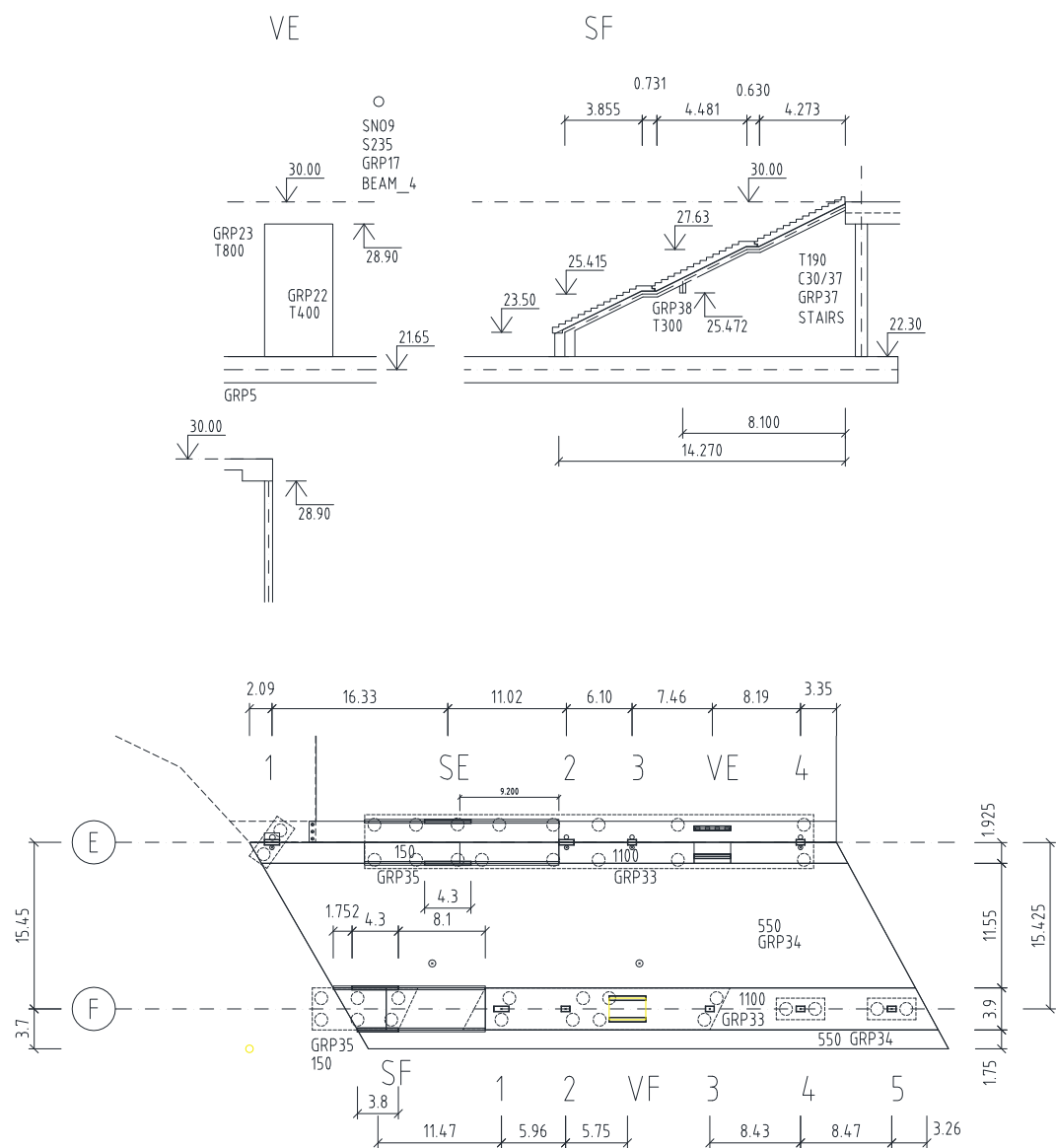


Technical drawing of a bridge cross-section showing three piers (C, D, E) and a central bore. The drawing includes dimensions for pier heights, widths, and spacings. Key dimensions include a total width of 30.00m between piers C and E, and a central bore width of 11.11m. The drawing also shows the ground level (HGW=11.65) and the water level (Kz=310MN/m, Kx,y=31MN/m).



3.8 Osové schéma modelu DC6

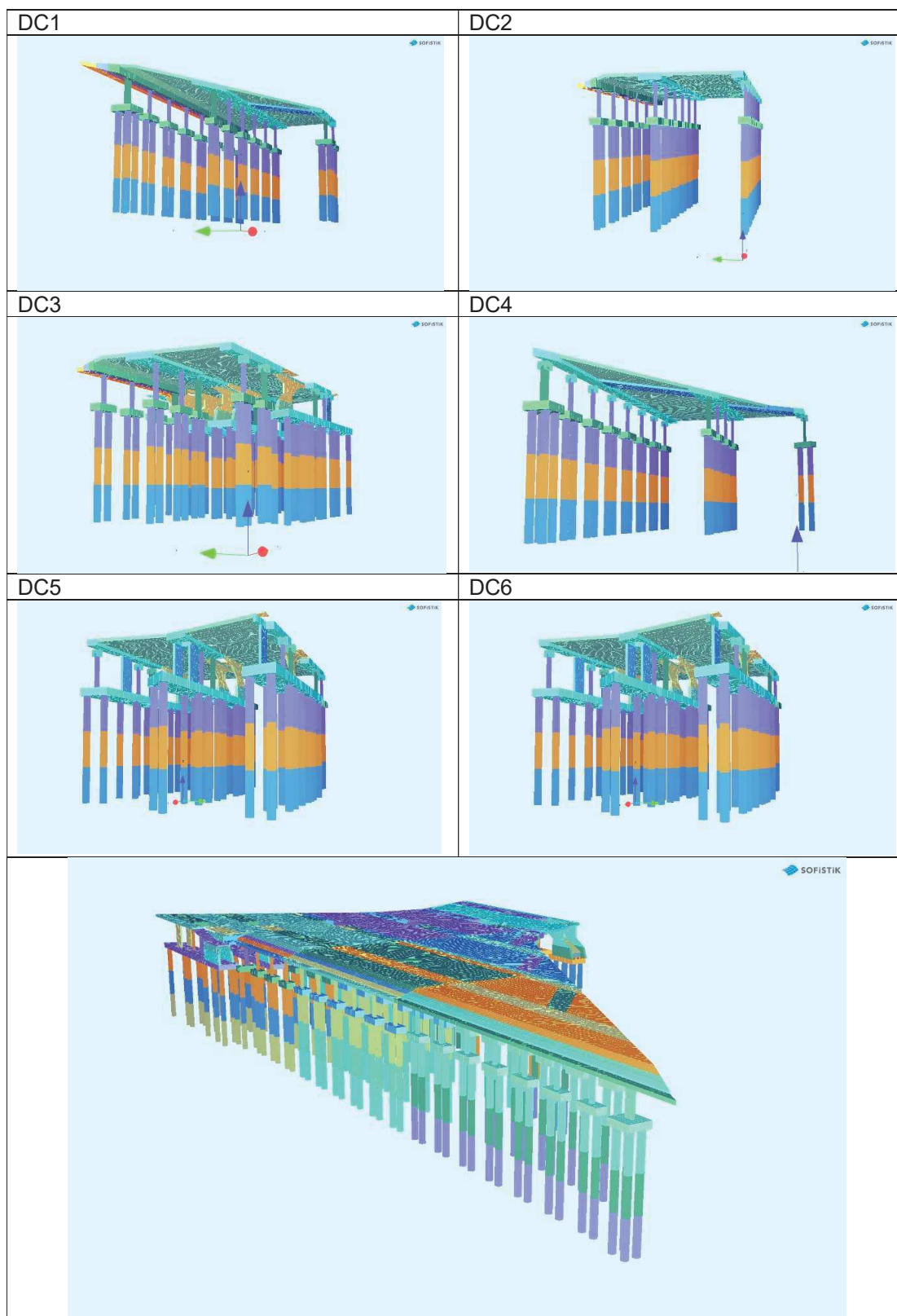




3.9 Osové schéma – všechny DC

Model je složen se všech dilatačních celků , jejichž geometrie je uvedená výše.

3.10 Vizualizace modelů



Označení prvků

Ve statické schématu jsou uvedeny čísla skupin označená jako **GRP**. Toto jsou důležitá čísla pro čtení výsledků ve výstupech programu. Číslo deskového elementu začíná číslem skupiny na prvních třech číslicích, následují 4 číslice pro číslo prvku. Z tohoto popisu lze stanovit, kde se prvek v konstrukci nachází. Na základě těchto čísel jsou také prováděné výpočty pro etapy výstavby, kde je možné vypnout části konstrukce, nebo naopak zapnout dočasné okrajové podmínky.

Čísla skupin

S1 Piles	1	S4 Piles	43
S1 Footings	2	S4 Footings	44
S1 Piers	3	S4 Piers	45
S1 Pier head	4	S4 Pier head	46
S1 Bearings	5	S4 Bearings	47
S1 Deck 610	6	S4 Deck 1100	48
S1 Deck 1100A	7	S4 Deck 550	49
S1 Deck 1100	8	S4 Deck 950	50
S1 Deck 550	9	S4 Deck 450	51
S1 Deck 950	10	S4 Footing Du=0	52
S1 Footing Du=0	11	S4 Deck Du=0	53
S1 Deck Du=0	12	S4 Deck coupling	54
S1 Deck coupling	13	S5 Piles	55
S2 Piles	14	S5 Footings	56
S2 Footings	15	S5 Footing slab	57
S2 Piers	16	S5 Piers	58
S2 Pier head	17	S5 Pier head	59
S2 Bearings	18	S5 Bearings	60
S2 Deck 610	19	S5 Frames	61
S2 Deck 1100A	20	S5 Shafts	62
S2 Deck 1100	21	S5 Deck 1100	63
S2 Deck 550	22	S5 Deck 550	64
S2 Footing Du=0	23	S5 Deck 250	65
S2 Deck Du=0	24	S5 Deck 450	66
S2 Deck coupling	25	S5 Footing Du=0	67
S3 Piles	26	S5 Deck Du=0	68
S3 Footings	27	S6 Piles	69
S3 Footing slab	28	S6 Footings	70
S3 Piers	29	S6 Footing slab	71
S3 Pier head	30	S6 Piers	72
S3 Bearings	31	S6 Bearings	73
S3 Frames	32	S6 Frames	74
S3 Shafts	33	S6 Shafts	75
S3 Deck 610	34	S6 Deck 1100	76
S3 Deck 1100A	35	S6 Deck 550	77
S3 Deck 1100	36	S6 Deck 250	78
S3 Deck 550	37	S6 Deck 150 stairs	79
S3 Deck 250	38	S6 Footing Du=0	80
S3 Deck ramp	39	S6 Deck Du=0	81
S3 Footing Du=0	40		
S3 Deck Du=0	41		
S3 Deck coupling	42		

Sloupec GRP je číslo uvedené v schématech výše. yto čísla jsou pak uvedená ve vstupech programu, pro analýzu etap výstavby (program ASE).



4.1.1 Vlastní tíha konstrukce G0

Zatížení jsou ve výstupech číslovaný od LC1 do LC6.

4.1.2 Tíha vrstev konstrukce střechy a výsadby G1

VELKOFORMÁTOVÁ KAMENNÁ (ŽULOVÁ) DLAŽBA, POVRCH	40	30	1.2
BETONOVÁ MAZANINA	50	23	1.15
BETON (+KARI SÍŤ)	240	23	5.52
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ VRSTVA - NOPOVÁ FÓLIE	20		0.004
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS celk. tl. 10mm	10		0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	90	9	0.81
	450		8.7

P2	T [mm]	Obj. Tíha	Zatížení [kN/m2]
KAMENNÁ (MRAMOROVÁ) DLAŽBA, TYP PRAŽSKÁ MOZAIKA,	60	30	1.8
LEPIDLO	10	13	0.13
BETONOVÁ MAZANINA	50	23	1.15
BETON (+KARI SÍŤ)	210	23	4.83
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ VRSTVA - NOPOVÁ FÓLIE	20		0.004
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS celk. tl. 10mm	10		0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	90	23	2.07
	450		10.0
P3	T [mm]	Obj. Tíha	Zatížení [kN/m2]
GUMOVÁ ELASTICKÁ EPDM VRSTVA/GRANULÁT	10	30	0.3
POLYURETANOVÉ POJIVO	1		
GUMOVÝ SBR GRANULÁT	50	17	0.85
MRAZUVZDORNÉ FLEXIBILNÍ LEPIDLO	1		
LEPIDLO	10	13	0.13
BETONOVÁ MAZANINA	50	23	1.15
BETON (+KARI SÍŤ)	208	23	4.784
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ VRSTVA - NOPOVÁ FÓLIE	20		0.004
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS celk. tl. 10mm	10		0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	90	23	2.07
	450		9.3
P4	T [mm]	Obj. Tíha	Zatížení [kN/m2]
DŘEVĚNÁ PALUBA (DUB, MODŘÍN)	25	7.2	0.18
NOSNÝ ROŠT	215		0.6
BETON (+KARI SÍŤ)	90	23	2.07
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ VRSTVA - NOPOVÁ FÓLIE	20		0.004
SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS celk. tl. 10mm	10		0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	90	23	2.07
	450		4.9
P5	T [mm]	Obj. Tíha	Zatížení [kN/m2]
VELKOFORMÁTOVÁ KAMENNÁ (ŽULOVÁ) DLAŽBA	70	7.2	0.504
NOSNÝ ROŠT	115		1
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS			0.005
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	40	25	1
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS			0.005
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	175	23	4.025
	400		6.5

P6	T [mm]	Obj. Tíha	Zatížení [kN/m2]
VEGETACE (TRVALKY)			0.3
EXTENZIVNÍ STŘEŠNÍ SUBSTRÁT, NASYCENÝ VODOU	50	13.5	0.675
VEGETAČNÍ SUBSTRÁT	535	13.5	7.2225
FILTRAČNÍ A SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ A VODODRŽNÁ VRSTVA	40		0.008
OCHRANNÁ ROHOŽ - SEPARAČNÍ GEOTEXTÍLIE			0.015
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS			0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	175	23	4.025
	800		12.3

P7	T [mm]	Obj. Tíha	Zatížení [kN/m2]
VEGETACE (TRVALKY)			0.3
STROM			1.5
EXTENZIVNÍ STŘEŠNÍ SUBSTRÁT, NASYCENÝ VODOU	50	13.5	0.675
VEGETAČNÍ SUBSTRÁT	1335	13.5	18.0225
FILTRAČNÍ A SEPARAČNÍ VRSTVA - GEOTEXTÍLIE			0.005
DRENÁŽNÍ A VODODRŽNÁ VRSTVA	40		0.008
OCHRANNÁ ROHOŽ - SEPARAČNÍ GEOTEXTÍLIE			0.015
HIZ. VRSTVA - 2x MODIFIKOVANÝ ASFALT. PÁS			0.01
SPÁDOVÁ VRSTVA - LEHČENÝ BETON	175	23	4.025
	1600		24.6

4.1.3 Způsob zadání

Celá plocha konstrukce je zatížena základní hodnotou 11kN/m2. Ostatní zatížení jsou aplikována jako přídatná. Ostrůvky se zelení jsou plošné zatížení 2,0 kN/m2 , které po sčítání s 11,0 kN/m2 = 13,0 kN/m2 (P6). Strom se substrátem uvnitř ostrůvku 11,0 + 2,0 + 12,0 = 25,0 kN/m2 (P7).

Polohy stromů , květníků a ostatního mobiliáře jsou převzaty z objektu SO 11-79-02.

Zatížení jsou rozdělena pro jednotlivé dilatační celky.

Základní označení zatěžovacích stavů

G1_1	Základní tíha vrstev podlahy 11kN/m ² P1
G1_2_1	Tíha stupňů schodiště, proměnná tloušťka
G1_2_2	
G1_2_3	
G1_2_4	
G1_3_1	Osa A , substrát 13kN/m ³ + strom
G1_3_2	
G1_3_3	
G1_3_4	
G1_4_1	Osa A, Zídka s lavičkou tloušťky 350 mm po obvodu, výška je proměnná
G1_4_2	
G1_5	Zídky s lavičkou po obvodu výsadby tloušťka 350 mm, výška 850 mm
G1_6	Výsadba, ostrůvky , základní výška 800 mm
G1_7	Výsadba, ostrůvky se stromem , přídatní výška 800 mm , spolu 1600 mm
G1_8	Květníky na šikmé hraně, výška 800 mm, substrát 13kN/m ³
G1_9	Zatížení z ochozu, tíha vrstev 11 kN/m ²
G1_10_1	Fasáda + obvodový nosník + prosklené zábradlí výšky 1800 mm = 8kN/m

G1_10_2	
G1_10_3	
G1_11	Stupně schodiště DC6 , prefabrikovaný prvek
G1_12_1	Tíha eskalátoru zadána na základ 12,3 kN/m, hranu desky 14,3 kN/m a bočný stěny 125 kN zadáno jako síla na koncích nosníku
G1_12_2	
G1_12_3	
G1_13	Ocelova střecha

K tomuto označení je přidáno označení dilatačního celku.

Uvedené zatížení je rozmístěno dle plánu výsadby a pohybu lidí po platformě. Rozlišují se oblasti s výsadbou, oblasti s dlažbou. Tíha výsadby je $0,5 \text{ kN/m}^2$. Tíha substrátu nasyceného vodou je 13 kN/m^3 . Tíha stromu je 5 kN . Z vodorovnými účinky na strom není uvažováno přímo, je zvětšen základní tlak větru na konstrukci.

Zatížení je zadáno se zohledněním proměnné tloušťky. Tloušťka se mění ze 450 na 300mm. Pro návrh výztuže v poli je uvažována konstantní hodnota 450mm, pro návrh protlačení tloušťka průměrná.

4.1.5 Zatížení smršťováním a dotvarováním CS

Vlhkost $H = 80 \%$. Uvažován je normálně tuhnoucí cement. Zatížení je zadáno jako teplota -24°C . $T = 100$ let, $T_s = 14$ dnů. Smršťování má jinou hodnotu pro různé tloušťky konstrukce. Tento účinek není v tomto stupni zohledněn. Kompletní výpočet je na konci výstupů v příloze.

Zatížení je aplikováno na nosnou konstrukci a také spodní stavbu.

4.2 Proměnná zatížení

4.2.1 Zatížení davem lidí LL

Dle ČSN EN 1992 je zatížení davem lidí uvažováno hodnotou $5,0\text{kN/m}^2$. Zatížení je uvažováno i v částech, kde je výsadba, dle příčinkových ploch. Zatížení je uvažováno na schodištích a eskalátorech.

4.2.1.1 Horizontální složka

Horizontální složka zatížení je 10% rovnoměrného svislého zatažení.

4.2.1.2 Dynamické účinky zatížení

Kontrola frekvenčního rozsahu mezi 0,5 až 1,5 Hz.

4.2.2 Zatížení sněhem S

Charakteristická hodnota zatížení sněhem pro oblast Prahy $s_k = 0,7\text{kN/m}^2$.

$$s = \mu_i \cdot C_e \cdot C_t \cdot s_k$$

Součinitel expozice:

$C_e = 1,2$ – typ krajiny chráněná, obklopena vyššími budovami.

Tepelný součinitel:

$C_t = 1,0$

Tvarový součinitel μ_1 (čl. 5.3.2 normy)

Pultová střecha se sklonem $\alpha = 0$, $\mu_1 = 0,8$.

Místní účinky čl. 6.2 normy – návěje na výstupky a překážky

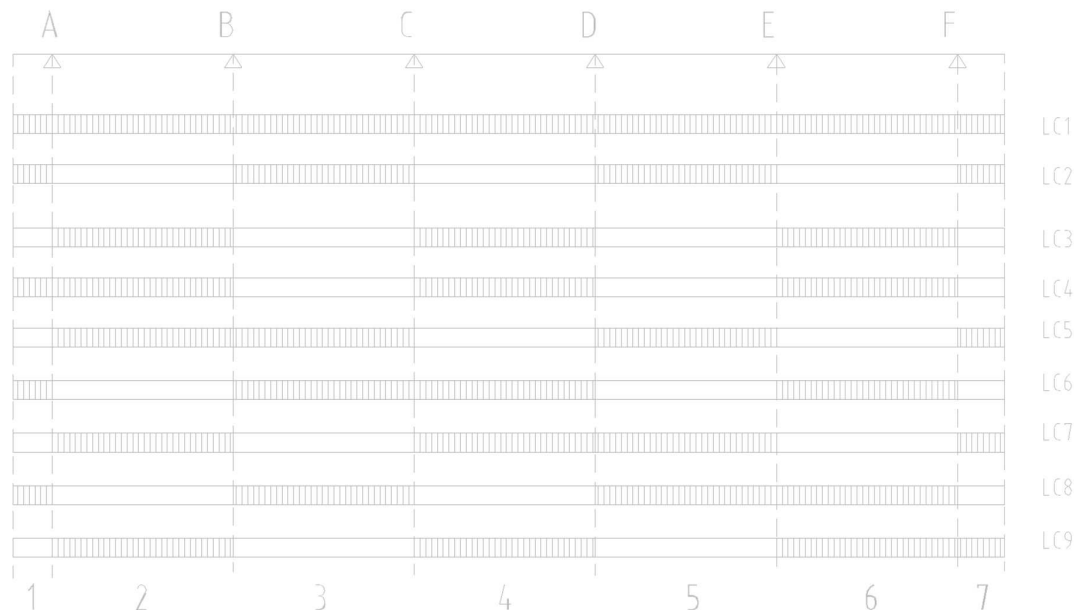
Uvažováno je s maximální hodnotou $\mu_1 = 2,0$.

Zatížení se aplikuje dle příčinkových ploch jako maximální hodnota

$s = 0,8, 1,2, 1,0, 0,7 + 2, 1,2, 1,0, 0,7 = 2,4\text{kN/m}^2$.

Zatížení je také aplikováno na části překryté zastřešením z důvodu bočního navanutí, či poruchy střechy. Zatížení je aplikováno také na vnější schodiště.

Příčinkové čáry zatížení:



Konstrukce má 6 os podepření označených A až F. Mezi těmito podpěrami je 5 polí, na kterých je umístěno zatížení v 7 polohách.

Také zatížení z ocelové střechy respektuje příčinkové čáry modelu. Charakteristická hodnota zatížení sněhem je uvažována hodnotou 240kN.

4.2.3 Dynamické zatížení chodci

Limitní hodnota horizontální frekvence je 0,5 až 1,5 Hz, dle 5.4 normy. Výsledky výpočtu jsou v příloze. Z výpočtu je zřejmé, že konstrukce není schopna kmitat tak, aby bylo zapojeno 100% hmoty. Konstrukce je masivní, a tyto výpočty proto nejsou relevantní.

4.2.4 Zatížení teplotou T

Zatížení teplotou dle ČSN EN 1991-1-5.

3. typ: betonová nosná konstrukce – betonová deska

Rovnoměrná složka teploty, izotermy NA

$$T_{mi} = -32\text{ °C}$$

$$T_{max} = 40\text{ °C}$$

$$T_0 = 10\text{ °C}$$

$$T_{e, min} = T_{min} + 8\text{ °C} = -24\text{ °C (NA 2.4.)}$$

$$T_{e, max} = T_{max} + 1,5\text{ °C} = 41,5\text{ °C (NA 2.4.)}$$

Pro výpočet zkrácení / prodloužení $T_0 = 10\text{ °C}$

$$\Delta T_{N, con} = T_0 - T_{e, min} = 10 - 24 = -34\text{ °C}$$

$$\Delta T_{N, exp} = T_{e, max} - T_0 = 41,5 - 10 = 31,5\text{ °C}$$

Pro dilatační spáry a ložiska, pokud není známa teplota při provádění

$$\Delta T_{N, con} = T_0 - T_{e, min} = -24 - 10 + 20 = -54\text{ °C}$$

$$\Delta T_{N,exp} = T_{e,max} - T_0 = 41,5 - 10 + 20 = \mathbf{51,5\text{ }^{\circ}\text{C}}$$

Rozdílová složka teploty

$$\Delta T_{M,heat} = 15 \cdot 0,5 = \mathbf{7,5\text{ }^{\circ}\text{C}}$$
 (EN 1991-1-5 str.18 tab.6.2), tloušťka mostního svršku je větší jako 150 mm.

$$\Delta T_{M,cool} = \mathbf{-8\text{ }^{\circ}\text{C}}$$
 (EN 1991-1-5 str.18 tab.6.2)

Teplota je uvažována jako gradient $\pm 8\text{ }^{\circ}\text{C}$.

Spolupůsobení teplotního zatížení – rovnoměrné a rozdílové složky:

$\Delta T_{M,heat} + \omega_N \cdot \Delta T_{N,exp}$	$\omega_M \cdot \Delta T_{M,heat} + \Delta T_{N,exp}$
$\Delta T_{M,cool} + \omega_N \cdot \Delta T_{N,exp}$	$\omega_M \cdot \Delta T_{M,cool} + \Delta T_{N,exp}$
$\Delta T_{M,heat} + \omega_N \cdot \Delta T_{N,con}$	$\omega_M \cdot \Delta T_{M,heat} + \Delta T_{N,con}$
$\Delta T_{M,cool} + \omega_N \cdot \Delta T_{N,con}$	$\omega_M \cdot \Delta T_{M,cool} + \Delta T_{N,con}$

$$\omega_N = 0,35 \quad \omega_M = 0,75$$

Teplotní gradient je závislý pouze od výšky průřezu, bez trhlin. To však v případě ŽB konstrukce není splněno. Proto je gradient uvažován poloviční hodnotou.

Poloviční hodnotou rovnoměrné složky teploty jsou zatíženy také základy. Jinak by vznikla na kontaktu základu a stěn koncentrovaná síla, z rozdílu teplot $30\text{ }^{\circ}\text{C}$. Tímto byl tento rozdíl zmírněn na polovinu.

Zatěžovací stavy jsou označeny LC40 až LC47.

4.2.5 Zatížení větrem W

Vzhledem na okolní zástavbu je uvažován jenom podélný vítr. Dle ČSN EN 1991-1-4 čl.8.3.2 je uvažováno $C=3,6$, $z_e < 20\text{ m}$.

Základní tlak větru $w = 1,4\text{ kN/m}^2$. Referenční výška je $2,0\text{ m}$, což bezpečně zohledňuje proměnnou výšku zábradlí.

4.3 Mimořádná zatížení

4.3.1 Náraz na pilíř

Při nízké rychlosti, třída konstrukce A. $F_{dx} = 4000\text{ kN}$, $F_{dy} = 1500\text{ kN}$, pro $D \geq 3\text{ m} \leq 5\text{ m}$. Umístění síly je ve výšce $1,8\text{ m}$ nad temenem koleje.

Zatížení je aplikováno pouze na pilíře v ose A, B a F a na zdi rámu ve všech osách.

Vhledem na rychlost menší než 50 km/h je možné síly **redukovat na polovinu**.

4.4 Označení skupin zatížení

Kombinace pro posouzení konstrukce jsou generována na základě zařazení do skupin. Tyto skupiny mají své označení a s ním spojený význam.

Zatěžovací stavy ve skupině **AGi** jsou stálá zatížení. Skupina se stejným indexem se kombinuje exkluzivně, ale příspěvek zatížení nemůže by nulový (G0, G1, D, CS,).

Zatěžovací stavy ve skupině **Ai** jsou proměnná zatížení. Skupina se stejným indexem se kombinuje exkluzivně, ale příspěvek zatížení může by nulový – pohyblivé zatížení (T, S, W, LL).

Zatěžovací stavy ve skupině **Xi** jsou proměnná zatížení. Skupina se stejným indexem se kombinuje exkluzivně, ale příspěvek zatížení může by nulový, přičemž se uvažuje se změnou znaménka.

5 Kombinace zatížení

Kombinace program generuje na základě skupin zatížení.

Označení kombinací ve výstupech

- Stále kombinace zatížení PERM
- Charakteristické kombinace RARE
- Skoro-stále kombinace FREQ
- Návrhové kombinace DESI

5.1 Kombinace návrhové DESI

$$E_d = E \left\{ \sum_{j \geq 1} \gamma_{G,j} \cdot G_{k,j} \oplus \gamma_P \cdot P_k \oplus \gamma_{Q,1} \cdot Q_{k,1} \oplus \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} \right\}$$

5.2 Kombinace pro posouzení použitelnosti

PERM

$$E_{d,perm} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus \sum_{i \geq 1} \psi_{2,i} \cdot Q_{k,i} \right\}$$

RARE

$$E_{d,rare} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus Q_{k,1} \oplus \sum_{i > 1} \psi_{0,i} \cdot Q_{k,i} \right\}$$

NONF

$$E_{d,infrequ} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus \psi_{1,infq} \cdot Q_{k,1} \oplus \sum_{i > 1} \psi_{1,i} \cdot Q_{k,i} \right\}$$

$$E_{d,frequ} = E \left\{ \sum_{j \geq 1} G_{k,j} \oplus P_k \oplus \psi_{1,1} \cdot Q_{k,1} \oplus \sum_{i > 1} \psi_{2,i} \cdot Q_{k,i} \right\}$$

FREQ

5.3 Kombinace pro mimořádná posouzení

ACCI

$$E_{dA} = E \left\{ \sum_{j \geq 1} \gamma_{g,A} \cdot G_k \oplus \gamma_{PA} \cdot P_k \oplus \gamma_A \cdot A_d \oplus \psi_{1,1} \cdot Q_{k,1} \oplus \sum_{i > 1} \psi_{2,i} \cdot Q_{k,i} \right\}$$

5.3.1 Redukční součinitele

Zatížení	Redukční součinitel		
	ψ_0	ψ_1	ψ_2
LL kategorie C5	0,7	0,7	0,5
S H < 1000 m	0,5	0,2	0
W	0,6	0,2	0
T	0,6	0,5	0

titl	AG1 G0-1	AG2 G0-2	AG3 G0-3	AG4 G0-4	AG5 G1_1	AG6 G1_2	AG7 G1_3	AG8 G1_4	AG9 G1_5	AG10 G1_6	AG11 CS	A1 T	A2 Q	X1 QX	X1 QY	A3 S	A4 SR	A5 WL	A5 WR	A6 WP	A6 WS	A7 ACC
PERM	1	1	1	1	1	1	1	1	1	1	1	0.5	0	0	0	0	0	0	0	0	0	0
RARE_Q	1	1	1	1	1	1	1	1	1	1	1	0.6	1	1	1	0.5	0.5	0.6	0.6	0.6	0.6	0
RARE_S	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	0.7	0.7	1	1	0.6	0.6	0.6	0.6	0
RARE_W	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	0.7	0.7	0.5	0.5	1	1	1	1	0
DESI_G1_1_sub	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESI_G1_2_sub	1.35	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESI_G1_3_sub	1.35	1.35	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESI_G1_4_sub	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESI_G1_5_sub	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0	0
DESI_G1_6_sub	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	0	0	0	0	0	0	0	0	0	0	0
DESI_Q_inf	1	1	1	1	1	1	1	1	1	1	1	0.6*1.5	1*1.5	1*1.5	1*1.5	0.5*1.5	0.5*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0
DESI_S_inf	1	1	1	1	1	1	1	1	1	1	1	0.6*1.5	0.7*1.5	0.7*1.5	0.7*1.5	1*1.5	1*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0
DESI_W_inf	1	1	1	1	1	1	1	1	1	1	1	0.6*1.5	0.7*1.5	0.7*1.5	0.7*1.5	0.5*1.5	0.5*1.5	1*1.5	1*1.5	1*1.5	1*1.5	0
DESI_Q_sup	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1	0.6*1.5	1*1.5	1*1.5	1*1.5	0.5*1.5	0.5*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0
DESI_S_sup	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1	0.6*1.5	0.7*1.5	0.7*1.5	0.7*1.5	1*1.5	1*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0.6*1.5	0
DESI_W_sup	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1	0.6*1.5	0.7*1.5	0.7*1.5	0.7*1.5	0.5*1.5	0.5*1.5	1*1.5	1*1.5	1*1.5	1*1.5	0
ACCI	1	1	1	1	1	1	1	1	1	1	0	0	0.7	0.7	0.7	0	0	0	0	0	0	1.4

6 Posouzení konstrukce

6.1 Posouzení pilot

Vnitřní síly pro posouzení jsou brány z celkového modelu S7.

Piloty jsou modelovány jako prutové prvky. Pilota je po délce rozdělena na 3 úseky, s různým množstvím výztuže. Pro návrh výztuže je použit program AQB, který pro návrhové kombinace DESI, ACCI stanoví množství výztuže, tak aby byla splněna podmínka spolehlivosti.

Toto množství výztuže je zadáno do definice průřezu v modulu AQUA. Následně je množství výztuže posouzeno nelineárním výpočtem modulu AQUA, který vypočte napětí v materiálech pro kombinaci RARE. Limitní hodnoty pro beton je f_{ck} , pro výztuž $0,8 \cdot f_{yk}$. Posouzení pro jednotlivé skupiny GRP je ve příloze.

Posouzení únosnosti pilot je samostatný posudek v GEO 5.

6.2 Posouzení základových patek, pásů a zdí

Vnitřní síly pro posouzení jsou brány z celkového modelu S7.

Pro návrh výztuže pro MSÚ a MSP je použit program BEMESS, který navrhne množství výztuže potřebné pro splnění podmínek MSÚ a MSP.

MSÚ pro návrh používá kombinace DESI, ACCI.

Program vyžaduje sekci PARAM, kde jsou stanovena parametry výztuže, tj. poloha ve vrstvách (layer1, layer2) se zohledněním krytí, úhle křížení výztuže vrstev, standardně 90°. Tyto parametry lze stanovit pro jednotlivé skupiny GRP.

V rámci MSP program navrhne výztuž z kombinace PERM, tak aby byla šířka trhliny menší než 0,3mm a z kombinace RARE tak, aby napětí ve výztuži bylo menší jako $0,8 \cdot f_{yk}$ a napětí v betonu menší jako f_{ck} .

Program používá Baumanovu metodu, která vychází z momentů a sil sestavených dle Wood & Armer rovnic. Tyto rovnice také zohledňují neortogonalitu vrstev.

Program posuzuje také protlačení a navrhuje smykovou výztuž. Program samostatně lokalizuje oblasti, kde je nutno posoudit protlačení. Tento výpočet je použit, pokud to geometrické podmínky umožňují (dají se vytvořit kritické obvody). Při návrhu se zohledňují články normy ČSN EN 1992-1-1 (6.2a), kde je možné stanovit limitní procento podélné výztuže, které se má započítat do ρ_l . Program se přidává podélnou výztuž k výztuži navržené na ohyb až po tento limit. Pak navrhne výztuž smykovou. V případě, že výztuž nelze navrhnout, program skončí s chybou, která avizuje nesplnění podmínky (6.5) a je nutno zvýšit výšku průřezu nebo kvalitu betonu nebo snížit zatížení.

Výsledná plocha výztuže je největší z uvedených hodnot.

6.3 Posouzení pilířů

Pilíře jsou ocelobetonové. Posouzeny jsou dle ČSN EN 1994-2 ed.2. Pro posouzení je nutno zohlednit výsledky v hlavě, patě a středu pilíře.

Toto je dosaženo vytvořením RSET programu SOFIMSHC. Příkaz vytvoří fiktivní koneční prvek, který spojí požadované hodnoty N , M_y , M_z , V_y , V_z pro 3 polohy do jednoho prvku. To usnadní vytváření

kombinací, jelikož v každé kombinaci se objeví kromě extrému také doprovázející hodnoty ostatních veličin.

Tyto hodnoty jsou pak posouzeny pro

- Odolnost prutů při osovém tlaku (6.44)
- Odolnost prutů při kombinaci tlaku a dvouosého ohybu (6.47)
- Odolnost prutů při smyku (6.31 a 6.32) zatížení působí pouze na ocelovou část

Efektivní osová tuhost je vypočtena dle 6.42, přičemž součinitel dotvarování je 2,0 a poměr mezi stálou a nahodilou složkou osově síly 0,8.

Prutové imperfekce β jsou uvažovány dle tab.6.4. , rozdílně pro hlavu, patu a střed pilíře.

Vzpěrná délka pro vetknuté pilíře je $1,0 \cdot L$, pro pilíře s hlavicí $2,0 \cdot L$. Vzpěrná křivka c. Imperfekce prutu $L/200$.

Deformace vlivem smršťování a teploty = 20 mm.

Ocelová část v hlavě a patě pilíře není spojena se základem, a tudíž nemůže přenášet tah mezi prvky. Proto jsou diagramy z obrázků 6.20 upraveny tak, aby nebila započtena tahová únosnost konstrukční ocele do celkové únosnosti. V mezilehlém přířezu tato hodnota započte je.

6.3.1 Posouzení hlavy pilíře

Hlavu pilíře lze považovat za krátkou konzoly dle ČSN EN 1992-1-1, příloha J.3.

Hlavní výztuž podléhá článku (2), který vyžaduje doplnění horizontálních uzavřených třmínků. Rozhodujícím posouzením krátké konzoly je posouzení dle paragrafu 6.2.2 (6.5) , tj. limitní napětí v tlačené diagonále, bez redukce β . Tento posudek byl příčinou změny rozměru pilířů na 500x1600 mm, co umožnilo zvětšit hlavici na rozměr 1600x1100 mm.

Při současné změně třídy betonu v pilíři na C40/50 , byla dosažena dostatečná kapacita pro ložisko GL 6000, co je ložisko osazeno pouze na těchto rozšířených pilířích.

6.3.1.1 Místně zatížené plochy dle ČSN EN 1992-1-1 (6.7)

Pod ložiskem se koncentruje napětí v betonu. Je nutné splnit podmínku (6.63). tato podmínka také vyžadovala změnu rozměru hlavy pilíře.

6.4 Posouzení desky NK

Vnitřní síly pro posouzení jsou brány z jednotlivých detailních modelů.

Pro návrh výztuže pro MSÚ a MSP je použit program BEMESS, který navrhne množství výztuže potřebné pro splnění podmínek MSÚ a MSP.

MSÚ pro návrh používá kombinace DESI, ACCI.

Program vyžaduje sekci PARAM , kde jsou stanoveny parametry výztuže, tj. poloha ve vrstvách (layer1, layer2) se zohledněním krytí, úhle křížení výztuže vrstev, standardně 90°. Tato hodnota je změněna pro GRP 36, tj. pro žebra . Tyto parametry lze stanovit pro jednotlivé skupiny GRP.

V rámci MSP program navrhne výztuž z kombinace PERM , tak aby byla šířka trhliny menší než 0,3mm a z kombinace RARE tak, aby napětí ve výztuži bylo menší jako $0,8 \cdot f_{yk}$ a napětí v betonu menší jako f_{ck} .

Program používá Baumanovu metodu, která vychází z momentů a sil sestavených dle Wood & Armer rovnic. Tyto rovnice také zohledňují neortogonalitu vrstev.

Program posuzuje také protlačení a navrhuje smykovou výztuž. Program samostatně lokalizuje oblasti, kde je nutno posoudit protlačení. Tento výpočet je použit, pokud to geometrické podmínky umožňují (dají se vytvořit kritické obvody). Při návrhu se zohledňují články normy ČSN EN 1992-1-1 (6.2a) , kde je možné stanovit limitní procento podélné výztuže , které se má započítat do ρ_l . Program se přidává podélnou výztuž k výztuži navržené na ohyb až po tento limit. Pak navrhne výztuž smykovou. V případě, že výztuž nelze navrhnout, program skončí s chybou, která avizuje nesplnění podmínky (6.5) a je nutno zvýšit výšku průřezu nebo kvalitu betonu nebo snížit zatížení.

Výsledná plocha výztuže je největší z uvedených hodnot.

6.5 Posouzení ložisek

Pro ložiska jsou určena maximální hodnoty zatížení dle jednotlivých kombinací. Uvažováno je s kalotovými ložisky, s podélným posunem 250 mm , a příčným posunem 25 mm. Osazené jsou tak, aby větší posun směřoval ve směru podélných os C a E.

Limitní hodnota v příčném směru :

$$L = 32,15 / 2,0 = 16,075 \text{ m.}$$

Zkrácení

$$U = (-54 - 24) * 1E-5 * L = -13 \text{ mm}$$

Prodloužení

$$U = (51) * 1E-5 * L = 8 \text{ mm}$$

Limitní posuny byly stanoveny ze zatížení teplotou, při neznáme hodnotě osazení a smršťování s redukčními součiniteli dle normy.

Limitní hodnota v podélném směru :

$$L = 73,35 / 2,0 = 36,675 \text{ m.}$$

Zkrácení

$$U = (-54 - 24) * 1E-5 * L = -29 \text{ mm}$$

Prodloužení

$$U = (51) * 1E-5 * L = 18 \text{ mm}$$

Limitní posuny byly stanoveny ze zatížení teplotou, při neznáme hodnotě osazení a smršťování s redukčními součiniteli dle normy. Požadovaný rozsah pohybu ložiska v příčném směru je $\pm 20 \text{ mm}$, v podélném směru $\pm 50 \text{ mm}$.

Maximální síla je stanovena z kombinace DESI.

6.6 Označení polohy výztuže v konstrukci

Lower - výztuž ve směru lokální osy +Z

Upper - výztuž ve směru lokální osy -Z

Poloha výztuže je navázána na lokální systém prvku.

Layer1 – vyztuž bližze k povrchu, v základním nastavení v směru osy X – podélní

Layer2 – vyztuž v druhé řadě

Tyto směry lze změnit, tato skutečnost je uvedena ve výstupech programu BEMESS jako úhel natočení výztuže. Hodnota 0 je v směru lokálních os.

7 Posouzení zakládání

Parametry pro výpočet

Pilota	Vrt	Délka	Zvislá únosnost	Sedání	Pružina	Poznámka	
mm			kN	mm	MN.m		
DN 1200	J-101	13.0	6179	9.1	679	ukončená v štrcích zle zrněných, nedoporučuji	v IGHP doporučuji piloty vetknout do navětrávaných hornin skalného podloží, t.j. piloty délky 16-20 m. Nevím, kde uvažují horní hranu piloty, já ji uvažuji od terénu a vycházejí mi kratší.
DN 1200	J-101	14.0	5544	6.5	853	ukončená v břídlíci R4, jenom mělko, nedoporučuji	
DN 1200	J-101	15.0	5907	5.5	1074	vetknutá do R4, vhodná	
DN 1200	J-104	14.0	1467	13.6	108	ukončená v hlíně/jilu písčitém, nedoporučuji	Plávající piloty ukončené v podrcených horninách v blízkosti pražského zlomu. V jižní části území je zasypán hradní příkop - antropogénní navážky až do tloušťky 11,0 m.
DN 1200	J-104	16.0	3121	7.4	422	při zlomu, plávající pilota trochu vetknutá do R6, nevhodná	
DN 1200	J-104	18.0	3471	4.9	708	při zlomu, plávající pilota, 3,5 m v R6, vhodná	
DN 1200	J-104	20.0	3720	3.8	979	při zlomu, plávající pilota, 5,5 m v R6, vhodná	
DN 1200	J-104	22.0	4170	3.0	1390	při zlomu, plávající pilota, 7,5 m v R6, vhodná	

Pilota	Vrt	Délka	Zvislá únosnost	Sedání	Pružina	Poznámka	
mm			kN	mm	MN.m		
DN 900	J-101	13.0	3477	12.2	285	ukončená v štrcích zle zrněných, nedoporučuji	v IGHP doporučuji piloty vetknout do navětrávaných hornin skalného podloží, t.j. piloty délky 16-20 m. Nevím, kde uvažují horní hranu piloty, já ji uvažuji od terénu a vycházejí mi kratší.
DN 900	J-101	14.0	3120	9.5	328	ukončená v břídlíci R4, jenom mělko, nedoporučuji	
DN 900	J-101	15.0	3324	8.3	400	vetknutá do R4, vhodná	
DN 900	J-104	14.0	827	17.7	47	ukončená v hlíně/jilu písčitém, nedoporučuji	Plávající piloty ukončené v podrcených horninách v blízkosti pražského zlomu. V jižní části území je zasypán hradní příkop - antropogénní navážky až do tloušťky 11,0 m.
DN 900	J-104	16.0	1757	10.9	161	při zlomu, plávající pilota trochu vetknutá do R6, nevhodná	
DN 900	J-104	18.0	1954	8.3	235	při zlomu, plávající pilota, 3,5 m v R6, vhodná	
DN 900	J-104	20.0	2150	6.5	331	při zlomu, plávající pilota, 5,5 m v R6, vhodná	
DN 900	J-104	22.0	2347	5.1	460	při zlomu, plávající pilota, 7,5 m v R6, vhodná	

Rozmístění pilot uvažuje s únosností 4170kN.

8 Závěr

Statickým výpočtem byla prověřena dimenzovatelnost jednotlivých prvků konstrukce pro mezní stav únosnosti a použitelnosti.

Program SOFiSTiK dimenzuje výztuž pro ULS,ACC a SLS na desko-stěnových elementech. Pokud je možné výztuž navrhnout platí podmínka

$$R_d \geq E_d \text{ - návrh vyhovuje, využití je menší než 1,0.}$$

Následně jsou ověřeny limitní napětí na prutech, nelineárním výpočtem. Tady se výztuž pouze posuzuje stanovením hodnoty využití průřezu. Hodnota musí být menší než 1,0 (aplikováno pouze na piloty).

Kritickými místy návrhu je kapacita ocelo-betonového pilíře a protlačení pilíře přes desku. Návrhové síly ze dvou modelů (výseky z konstrukce a 3D model) , plně korespondují se silami posouzeními ve stupni DÚR a DSP pro tyto 2 posudky.

Navržená konstrukce VYHOVUJE.

Množství výztuže ve schématech vyztužení jsou pouze orientační. Výslední výkresy výztuže budou doplněny o další konstrukční zásady a doplňkové posudky, včetně redistribuce sil v Ž.B. konstrukci. Tato redistribuce zmenšuje záporné momenty a zvětšuje kladné momenty v poli.

V Bratislavě, 31.12. 2022

Ing. D. Ďuriš, PhD.

9 Přílohy

Geometry definition

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ASE - ADVANCED SOLUTION ENGINE

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ASE - ADVANCED SOLUTION ENGINE

Sum of Loadings	185
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ASE - ADVANCED SOLUTION ENGINE

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TEMPLATE - GENERAL PRE- AND POSTPROCESSING COMMENTS

Geometry definition

Standard, materials, sections, bore profiles

Design Code

EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures (Europe) V 2023

EuroNorm Bridges: EN 1993-2:2006 Design of steel structures

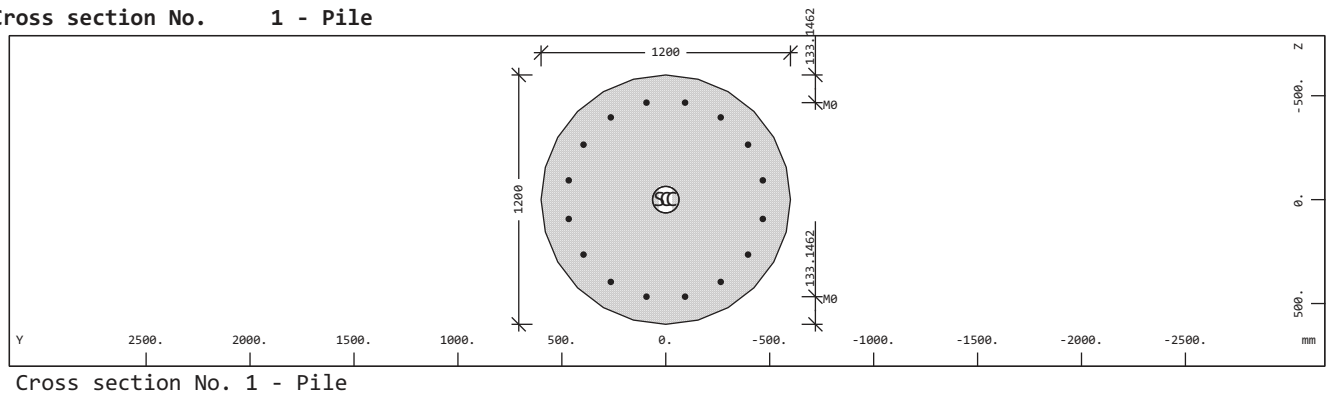
Structure: B (Road bridges)

Snow load zone : 1

Materials

Mat	Classification
1	C 30/37 (EN 1992) C30
2	C 35/45 (EN 1992) C35
3	C 40/50 (EN 1992) C40
4	B 500 B (EN 1992) B500
5	S 355 (EN 1993) S355

Cross section No. 1 - Pile



Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
1	1	1.1310E+00	9.698E-01	1.018E-01	0.0	0.0	32837	2827.4	
	4 ¹	2.036E-01	9.697E-01	1.018E-01	0.0	0.0	13682	(BEAM)	

= Pile

¹ Reinforcements are not considered in the sectional values

SNo	section number	yc[mm],zc[mm]	ordinate of elastic centroid
Mat	material number	ysc[mm],zsc[mm]	ordinate of shear centre
A[m2]	sectional area	E[N/mm2]	Young's modulus
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	g[kg/m]	mass per length
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia		
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes		
MRf	reinforcement material number		
It[m4]	torsional moment of inertia		
G[N/mm2]	Shear modulus		

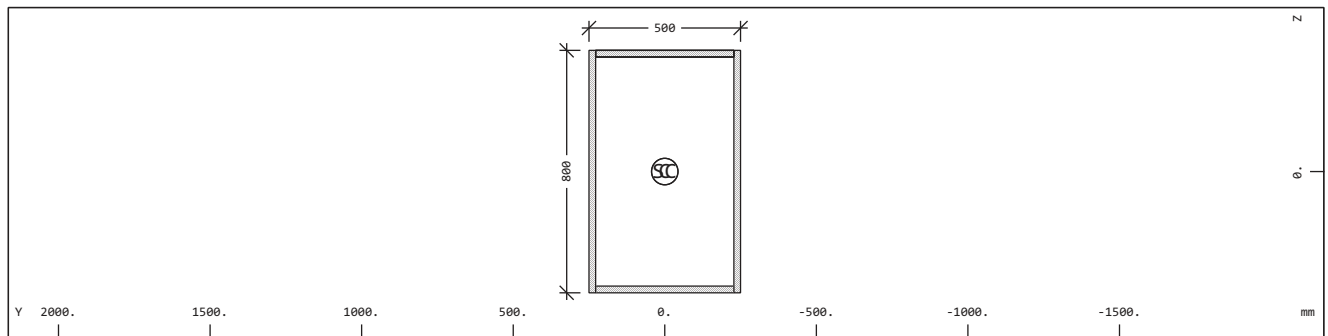
Reinforcement global values

Layer	Mref	Mat	As [cm2]	As-min [cm2]	As-max [cm2]	D [mm]	yr [mm]	zr [mm]	L-tors [mm]	N-p [kN]	My-p [kNm]	Mz-p [kNm]
M0	1	4	78.56	78.56		25	0.0	0.0				
Layer	layer of reinforcement		D	bar diameter								
Mref	embedding reference material		yr,zr	ordinate of elastic centroid								
Mat	material number		L-tors	torsional effective length								
As	reinforcement area		N-p	prestress normal force								
As-min	minimum reinforcement area		My-p,Mz-p	prestress bending moment								
As-max	maximum reinforcement area											

Cross section No. 2

Geometry definition

Standard, materials, sections, bore profiles



Cross section No. 2

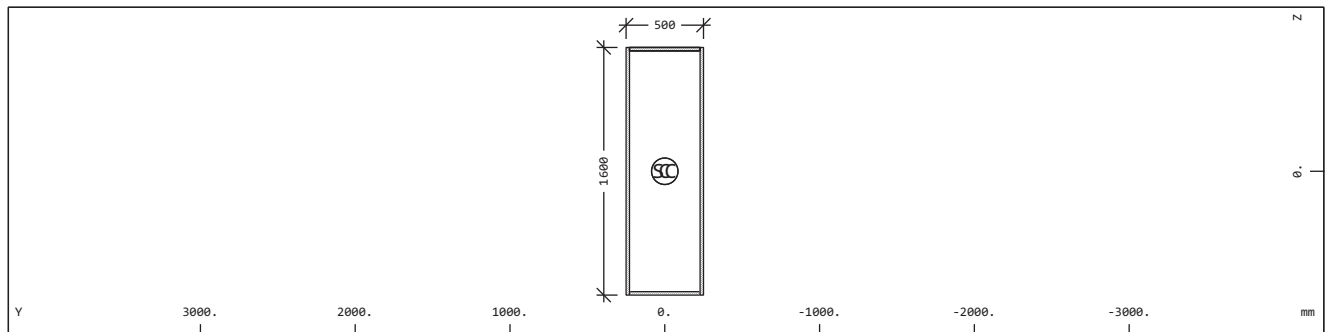
Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					$\alpha[^\circ]$
2	5	5.5264E-02	1.563E-02	4.914E-03	0.0	0.0	210000	433.8	
		4.930E-03	3.117E-02	2.360E-03	0.0	0.0	80769	(BEAM)	
= Composit with materials: 5 3									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		mass per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4], $\alpha[^\circ]$	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
P ^{1,2}	19618.7	4438.74	7139.56	3413.25	627.76	913.17	5269.94	3798.53	0.0	0.0	-, b, c
E ^{3,2}	19618.7	2224.56	4628.40	1524.09	525.55	130.15	1660.38	1398.76	0.0	0.0	
E ^{3,2}	-19618.7	2224.56	4628.40	1524.09		130.15	-4361.39	-1398.76	0.0	0.0	
¹ P = plastic design values (ultimate bearing capacity) ² Material safety γ_{M0} for structural steel = 1.00 ³ E = elastic design values (stress limit reached)											
N[kN]	normal force			Mb[kNm2]		warping moment					
Vy[kN],Vz[kN]	shear force			My[kNm],Mz[kNm]		bending moment					
Mt[kNm]	primary torsional moment			y[mm],z[mm]		ordinate of plastic centre					
Mt2[kNm]	secondary torsional moment			BUCK		buckling curve (LTB, y-y, z-z)					

Cross section No. 3



Cross section No. 3

Geometry definition

Standard, materials, sections, bore profiles

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α [°]
3	5	9.0464E-02	1.125E-02	2.751E-02	0.0	0.0	210000	710.1	
		1.231E-02	6.463E-02	4.372E-03	0.0	0.0	80769	(BEAM)	
= Composit with materials: 5 3									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		mass per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4], α [°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

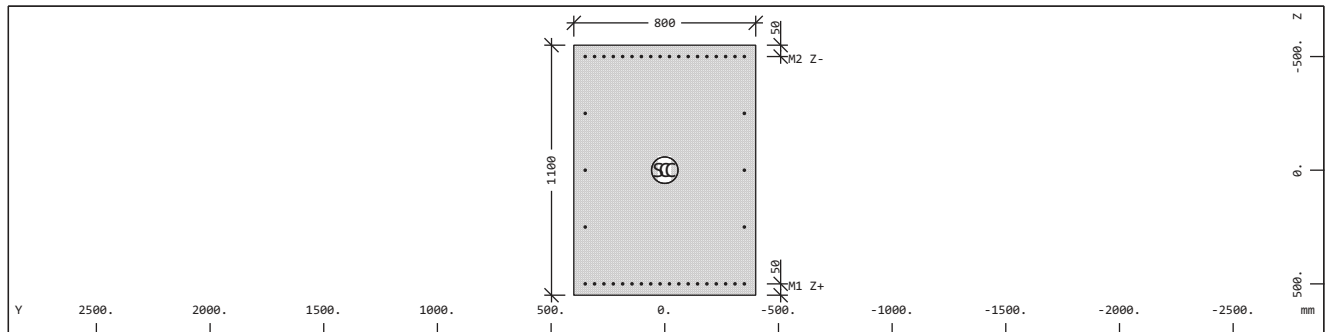
Design forces and moments

	N[kN]	Vy[kN]	Vz[kN]	Mt[kNm]	Mt2[kNm]	Mb[kNm2]	My[kNm]	Mz[kNm]	y[mm]	z[mm]	BUCK
P ¹²	32114.7	4436.90	14355.69	6901.28	2000.95	3029.89	15616.61	6785.07	0.0	0.0	- , b, c
E ³²	32114.7	2785.73	11279.45	4181.11	1985.51	1034.27	4647.38	2591.43	0.0	0.0	
E ³²	-32114.7	2785.73	11279.45	4181.11		1034.27	-12207.4	-2591.43	0.0	0.0	

¹ P = plastic design values (ultimate bearing capacity)² Material safety γ_{M0} for structural steel = 1.00³ E = elastic design values (stress limit reached)

N[kN]	normal force			Mb[kNm2]	warping moment					
Vy[kN],Vz[kN]	shear force			My[kNm],Mz[kNm]	bending moment					
Mt[kNm]	primary torsional moment			y[mm],z[mm]	ordinate of plastic centre					
Mt2[kNm]	secondary torsional moment			BUCK	buckling curve (LTB, y-y, z-z)					

Cross section No. 4 - Head80



Cross section No. 4 - Head80

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					$\alpha[^\circ]$
4	3	8.8000E-01	7.333E-01	8.873E-02	0.0	0.0	35220	2200.0	
	4 ¹	1.039E-01	7.333E-01	4.693E-02	0.0	0.0	14675	(CENTR)	
= Head80									
¹ Reinforcements are not considered in the sectional values									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		mass per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4], $\alpha[^\circ]$	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

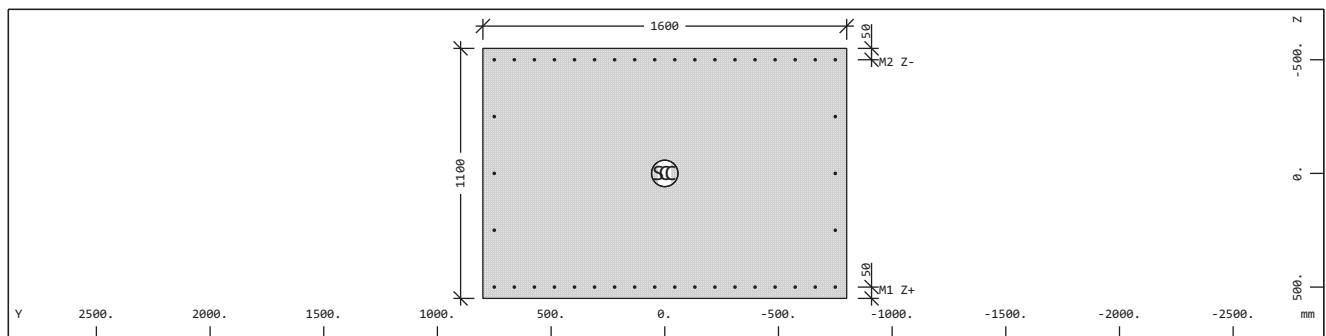
Geometry definition

Standard, materials, sections, bore profiles

Reinforcement global values

Layer	Mref	Mat	As [cm2]	As-min [cm2]	As-max [cm2]	D [mm]	yr [mm]	zr [mm]	L-tors [mm]	N-p [kN]	My-p [kNm]	Mz-p [kNm]
M1	Z+	3	4	14.22	13.65		10	0.0	500.0	700.0		
M2	Z-	3	4	14.22	13.65		10	0.0	-500.0	700.0		
M3	Y+-	3	4	4.74	4.74	4.74	10	0.0	0.0	2000.0		
Layer	layer of reinforcement			D		bar diameter						
Mref	embedding reference material			yr,zr		ordinate of elastic centroid						
Mat	material number			L-tors		torsional effective length						
As	reinforcement area			N-p		prestress normal force						
As-min	minimum reinforcement area			My-p,Mz-p		prestress bending moment						
As-max	maximum reinforcement area											

Cross section No. 5 - Head160



Cross section No. 5 - Head160

Static properties of cross section

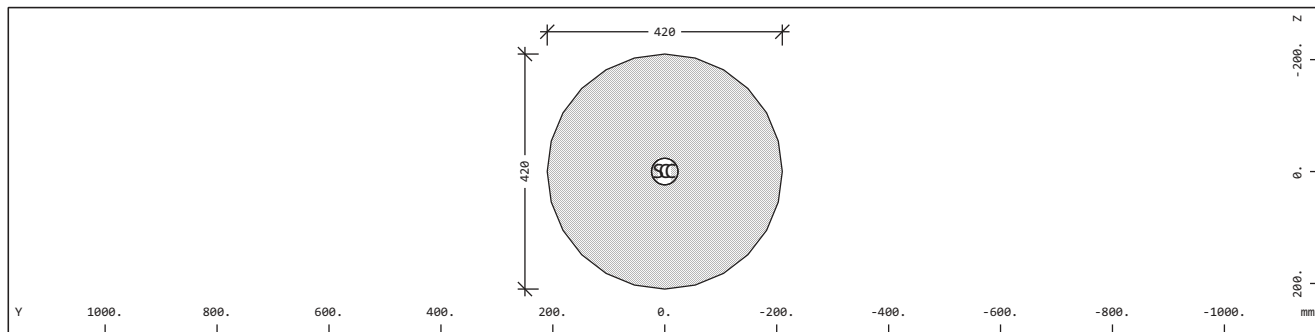
SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
5	3	1.7600E+00	1.467E+00	1.775E-01	0.0	0.0	35220	4400.0	3.755E-01
	4 ¹	4.086E-01	1.467E+00	3.755E-01	0.0	0.0	14675	(CENTR)	1.775E-01
= Head160									
¹ Reinforcements are not considered in the sectional values									
SNo	section number				yc[mm],zc[mm]		ordinate of elastic centroid		
Mat	material number				ysc[mm],zsc[mm]		ordinate of shear centre		
A[m2]	sectional area				E[N/mm2]		Young's modulus		
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area				g[kg/m]		mass per length		
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Reinforcement global values

Layer	Mref	Mat	As [cm2]	As-min [cm2]	As-max [cm2]	D [mm]	yr [mm]	zr [mm]	L-tors [mm]	N-p [kN]	My-p [kNm]	Mz-p [kNm]
M1	Z+	3	4	14.22	13.65		10	0.0	500.0	1500.0		
M2	Z-	3	4	14.22	13.65		10	0.0	-500.0	1500.0		
M3	Y+-	3	4	4.74	4.74	4.74	10	0.0	0.0	2000.0		
Layer	layer of reinforcement			D		bar diameter						
Mref	embedding reference material			yr,zr		ordinate of elastic centroid						
Mat	material number			L-tors		torsional effective length						
As	reinforcement area			N-p		prestress normal force						
As-min	minimum reinforcement area			My-p,Mz-p		prestress bending moment						
As-max	maximum reinforcement area											

Cross section No. 6 - Bearing

Standard, materials, sections, bore profiles



Cross section No. 6 - Bearing

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					$\alpha[^\circ]$
6	5	1.3854E-01	1.188E-01	1.527E-03	0.0	0.0	210000	1087.6	
		3.055E-03	1.188E-01	1.527E-03	0.0	0.0	80769	(BEAM)	
= Bearing									
SNo	section number				yc[mm],zc[mm]	ordinate of elastic centroid			
Mat	material number				ysc[mm],zsc[mm]	ordinate of shear centre			
A[m2]	sectional area				E[N/mm2]	Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area				g[kg/m]	mass per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4], $\alpha[^\circ]$	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

	N [kN]	Vy [kN]	Vz [kN]	Mt [kNm]	Mt2 [kNm]	Mb [kNm2]	My [kNm]	Mz [kNm]	y [mm]	z [mm]	BUCKLING
P ^{1,2}	49183.2	27009.73	27013.72	3975.37		345.20	4383.53	4383.53	0.0	0.0	-, c, d
E ³	49183.2	18938.13	18938.83	2885.37	10.83	0.03	2575.57	2575.57	0.0	0.0	

¹ P = plastic design values (ultimate bearing capacity)
² Material safety γ-M0 for structural steel = 1.00
³ E = elastic design values (stress limit reached)

N[kN]	normal force	Mb[kNm2]	warping moment
Vy[kN], Vz[kN]	shear force	My[kNm], Mz[kNm]	bending moment
Mt[kNm]	primary torsional moment	y[mm], z[mm]	ordinate of plastic centre
Mt2[kNm]	secondary torsional moment	BUCK	buckling curve (LTB, y-y, z-z)

[illegible][illegible]

Geometry definition

Standard, materials, sections, bore profiles

Transverse

s [m]	K0-t [kN/m2]	K1-t [kN/m2]	K2-t [kN/m2]	K3-t [kN/m2]	P0 [-]	P1 [-]	P2 [-]	P3 [-]	Pmax [kN/m]
13.000	93000.00				1.00	1.00	1.00	1.00	0.00
21.950									0.00
s ordinate of the profile axis K0-t,K1-t,K2-t,K3-t parameter of the foundation profile P0,P1,P2,P3 form factor as variation along periphery Pmax maximum foundation value									

Bore Profile NoP 2 J101

X[m]	Y[m]	Z[m]	dX[-]	dY[-]	dZ[-]	α[°]	Hgw1[m]	Hgwh[m]
0.000	0.000	21.950	0.000	0.000	0.000	0.0	10.650	10.650
X[m],Y[m],Z[m] coordinates of the start point dX[-],dY[-],dZ[-] direction of the bore profile α[°] rotation angle of the local axes Hgw1[m] lowest ground water level Hgwh[m] highest ground water level								

Transverse

s [m]	K0-t [kN/m2]	K1-t [kN/m2]	K2-t [kN/m2]	K3-t [kN/m2]	P0 [-]	P1 [-]	P2 [-]	P3 [-]	Pmax [kN/m]
0.000	7000.00				1.00	1.00	1.00	1.00	0.00
6.000									0.00
6.000	20000.00				1.00	1.00	1.00	1.00	0.00
8.000									0.00
8.000	32000.00				1.00	1.00	1.00	1.00	0.00
12.000									0.00
12.000	7000.00				1.00	1.00	1.00	1.00	0.00
14.000									0.00
14.000	27000.00				1.00	1.00	1.00	1.00	0.00
21.950									0.00
s ordinate of the profile axis K0-t,K1-t,K2-t,K3-t parameter of the foundation profile P0,P1,P2,P3 form factor as variation along periphery Pmax maximum foundation value									

Geometry definition

Groups

Grp	Number	Type	min-no	max-no	Designation
1	646	BEAM	10001	10646	
	102	SPRI	10001	10102	
	748	base	10000	19999	
2	1124	QUAD	20001	21124	
3	108	BEAM	30001	30108	
4	4	BEAM	40001	40004	
5	4	KINE	50001	50004	
	2	BEAM	50001	50002	
	6	base	50000	59999	
6	198	QUAD	60001	60198	
7	365	QUAD	70001	70365	
8	580	QUAD	80001	80580	
9	761	QUAD	90001	90761	
10	60	QUAD	100001	100060	
11	528	QUAD	110001	110528	
12	176	QUAD	120001	120176	
13	65	KINE	130001	130065	
	2	BOUN	130001	130002	
	67	base	130000	139999	
14	684	BEAM	140001	140684	
	108	SPRI	140001	140108	
	792	base	140000	149999	
15	1223	QUAD	150001	151223	
16	120	BEAM	160001	160120	
17	12	BEAM	170001	170012	
18	12	KINE	180001	180012	
	6	BEAM	180001	180006	
	18	base	180000	189999	
19	132	QUAD	190001	190132	
20	263	QUAD	200001	200263	
21	772	QUAD	210001	210772	
22	888	QUAD	220001	220888	
23	594	QUAD	230001	230594	
24	198	QUAD	240001	240198	
25	49	KINE	250001	250049	
	2	BOUN	250001	250002	
	51	base	250000	259999	
26	1216	BEAM	260001	261216	
	192	SPRI	260001	260192	
	1408	base	260000	269999	
27	620	QUAD	270001	270620	
28	2985	QUAD	280001	282985	
29	106	BEAM	290001	290106	
30	11	BEAM	300001	300011	
31	8	KINE	310001	310008	
	4	BEAM	310001	310004	
	12	base	310000	319999	
32	1309	QUAD	320001	321309	
33	224	QUAD	330001	330224	
34	97	QUAD	340001	340097	
35	151	QUAD	350001	350151	
36	736	QUAD	360001	360736	
37	1249	QUAD	370001	371249	
38	20	QUAD	380001	380020	
39	52	QUAD	390001	390052	

Geometry definition

Groups

Grp	Number	Type	min-no	max-no	Designation
40	907	QUAD	400001	400907	
41	121	QUAD	410001	410121	
42	42	KINE	420001	420042	
	8	BOUN	420001	420008	
	50	base	420000	429999	
43	247	BEAM	430001	430247	
	39	SPRI	430001	430039	
	286	base	430000	439999	
44	356	QUAD	440001	440356	
45	38	BEAM	450001	450038	
46	2	BEAM	460001	460002	
47	18	KINE	470001	470018	
	9	BEAM	470001	470009	
	27	base	470000	479999	
48	862	QUAD	480001	480862	
49	701	QUAD	490001	490701	
50	134	QUAD	500001	500134	
51	14	QUAD	510001	510014	
52	165	QUAD	520001	520165	
53	143	QUAD	530001	530143	
54	7	KINE	540001	540007	
	4	BOUN	540001	540004	
	11	base	540000	549999	
55	684	BEAM	550001	550684	
	108	SPRI	550001	550108	
	792	base	550000	559999	
56	85	QUAD	560001	560085	
57	1954	QUAD	570001	571954	
58	45	BEAM	580001	580045	
59	6	BEAM	590001	590006	
60	16	KINE	600001	600016	
	8	BEAM	600001	600008	
	24	base	600000	609999	
61	742	QUAD	610001	610742	
62	224	QUAD	620001	620224	
63	672	QUAD	630001	630672	
64	1233	QUAD	640001	641233	
65	16	QUAD	650001	650016	
66	25	QUAD	660001	660025	
67	470	QUAD	670001	670470	
68	88	QUAD	680001	680088	
69	361	BEAM	690001	690361	
	57	SPRI	690001	690057	
	418	base	690000	699999	
70	138	QUAD	700001	700138	
71	1065	QUAD	710001	711065	
72	40	BEAM	720001	720040	
73	8	KINE	730001	730008	
	4	BEAM	730001	730004	
	12	base	730000	739999	
74	722	QUAD	740001	740722	
75	224	QUAD	750001	750224	
76	444	QUAD	760001	760444	
77	821	QUAD	770001	770821	
78	8	QUAD	780001	780008	

Geometry definition

Groups

Grp	Number	Type	min-no	max-no	Designation
79	73	QUAD	790001	790073	
80	349	QUAD	800001	800349	
81	66	QUAD	810001	810066	
Grp primary group number		Type element type			
Number number of elements within group		min-no,max-no minimum/maximum element number			

Summary of beam elements

Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Surface [m2]
1	632.400	0.979	715.228	1788.069	2384.092
3	107.000	1.017	6.610	51.890	619.760
4	2.000	0.500	2.640	6.600	
5	0.400	0.200	0.055	0.435	0.528
14	669.600	0.979	757.300	1893.250	2524.333
16	118.800	1.017	6.565	51.538	617.760
17	6.000	0.500	5.280	13.200	
18	1.200	0.200	0.166	1.305	1.583
26	1192.650	0.982	1348.855	3372.139	4496.185
29	106.200	1.044	7.388	57.995	690.320
30	4.000	0.500	5.280	13.200	
31	0.800	0.200	0.111	0.870	1.056
43	241.800	0.979	273.469	683.673	911.565
45	36.800	1.000	2.516	19.750	235.200
46	1.000	0.500	1.760	4.400	
47	1.800	0.200	0.249	1.958	2.375
55	671.250	0.982	759.166	1897.915	2530.553
58	44.350	1.044	3.250	25.512	303.260
59	3.000	0.500	3.520	8.800	
60	1.600	0.200	0.222	1.740	2.111
69	354.150	0.982	400.534	1001.336	1335.114
72	40.450	1.044	2.529	19.855	237.060
73	0.800	0.200	0.111	0.870	1.056
Sum	4238.050		4302.806	10916.301	16893.909
Grp primary group number					

Summary of quadrilateral elements

Groups

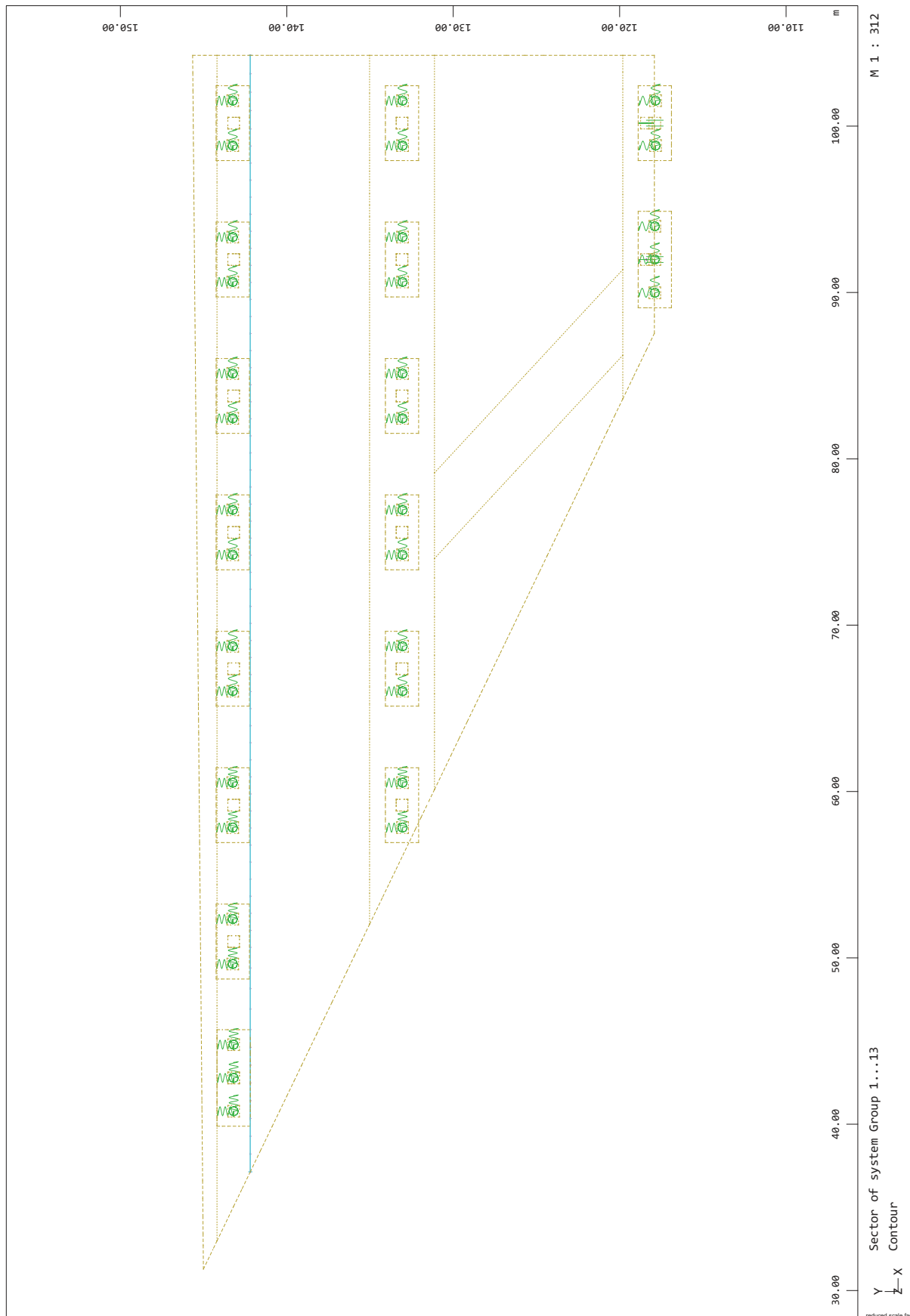
Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material
2	125.680	150.816	377.040	1
6	82.524	50.340	125.850	2
7	134.468	147.915	369.787	2
8	219.511	241.462	603.654	2
9	736.035	404.819	1012.049	2
10	58.273	55.359	138.398	2
11	23.520	28.224	70.560	1
12	7.840	8.624	21.560	2
15	135.540	162.648	406.620	1
19	82.621	50.399	125.997	2
20	95.360	104.896	262.240	2
21	279.189	307.108	767.771	2
22	908.391	499.615	1249.037	2
23	26.460	31.752	79.380	1
24	8.820	9.702	24.255	2

Geometry definition

Groups

Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material
27	70.370	84.444	211.110	1
28	600.434	780.564	1951.411	1
32	513.750	169.215	423.038	2
33	164.475	65.790	164.475	2
34	65.260	39.808	99.521	2
35	59.711	65.682	164.205	2
36	371.121	408.233	1020.582	2
37	1278.714	703.293	1758.232	2
38	9.727	2.432	6.079	2
39	50.828	20.331	50.828	2
40	38.220	48.363	120.908	1
41	5.390	5.929	14.823	2
44	40.248	48.298	120.744	1
48	253.495	278.845	697.112	2
49	675.869	371.728	929.319	2
50	125.440	119.168	297.921	2
51	1.140	0.513	1.283	2
52	7.350	8.820	22.050	1
53	6.370	7.007	17.517	2
56	10.130	12.156	30.390	1
57	422.022	548.629	1371.573	1
61	426.978	135.727	339.317	2
62	136.252	54.501	136.252	2
63	289.678	318.646	796.614	2
64	1220.344	671.189	1677.973	2
65	7.750	1.938	4.844	2
66	1.095	0.493	1.232	2
67	20.090	25.970	64.925	1
68	3.920	4.312	10.780	2
70	15.060	18.072	45.180	1
71	132.325	172.023	430.057	1
74	285.054	94.031	235.078	2
75	108.029	43.212	108.029	2
76	229.778	252.756	631.891	2
77	747.402	411.071	1027.678	2
78	4.116	1.029	2.572	2
79	33.774	5.066	12.665	2
80	11.760	14.994	37.485	1
81	2.940	3.234	8.085	2
Sum	11370.643	8271.191	20677.976	
Grp primary group number				

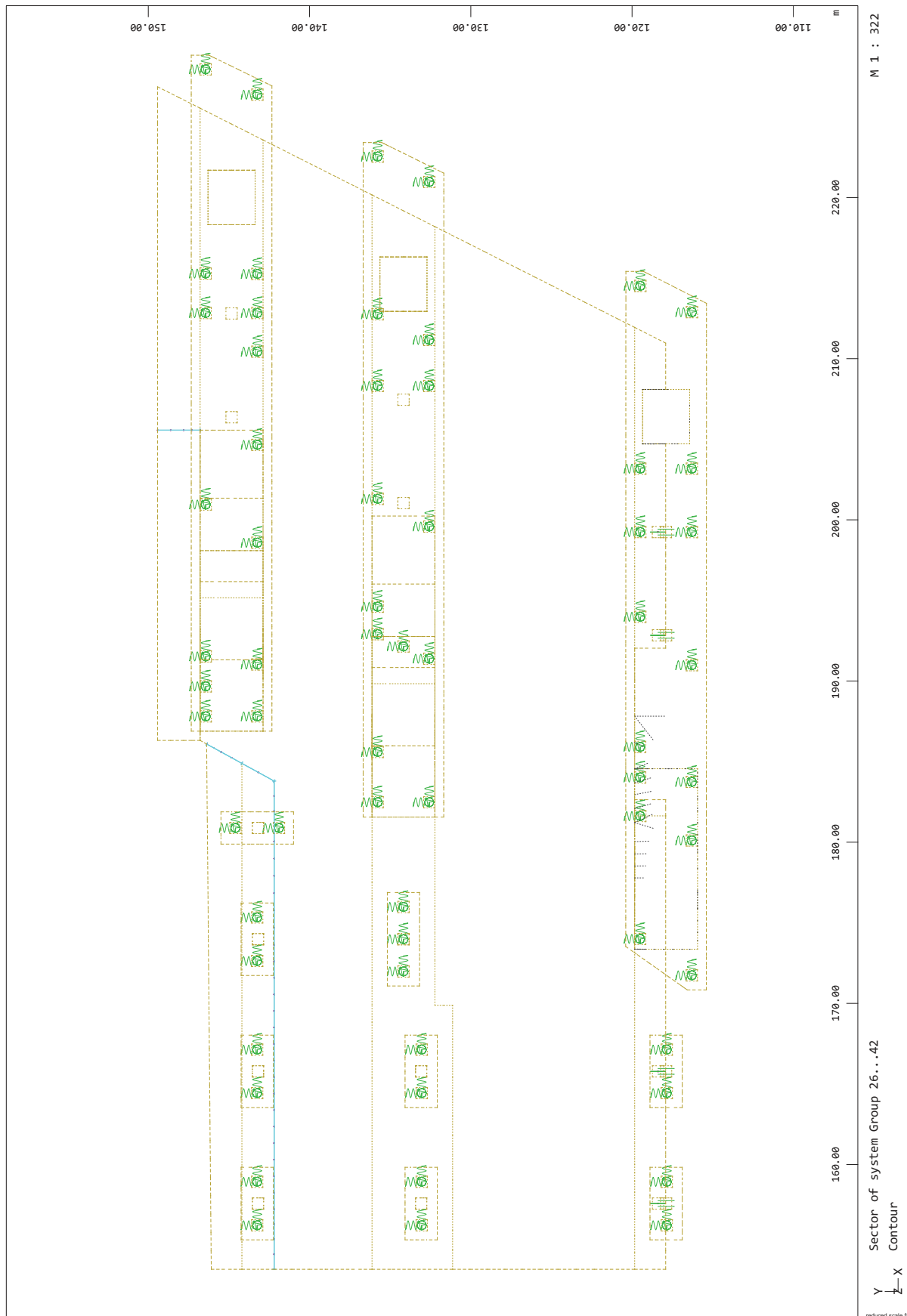
Geometry definition
 Picture



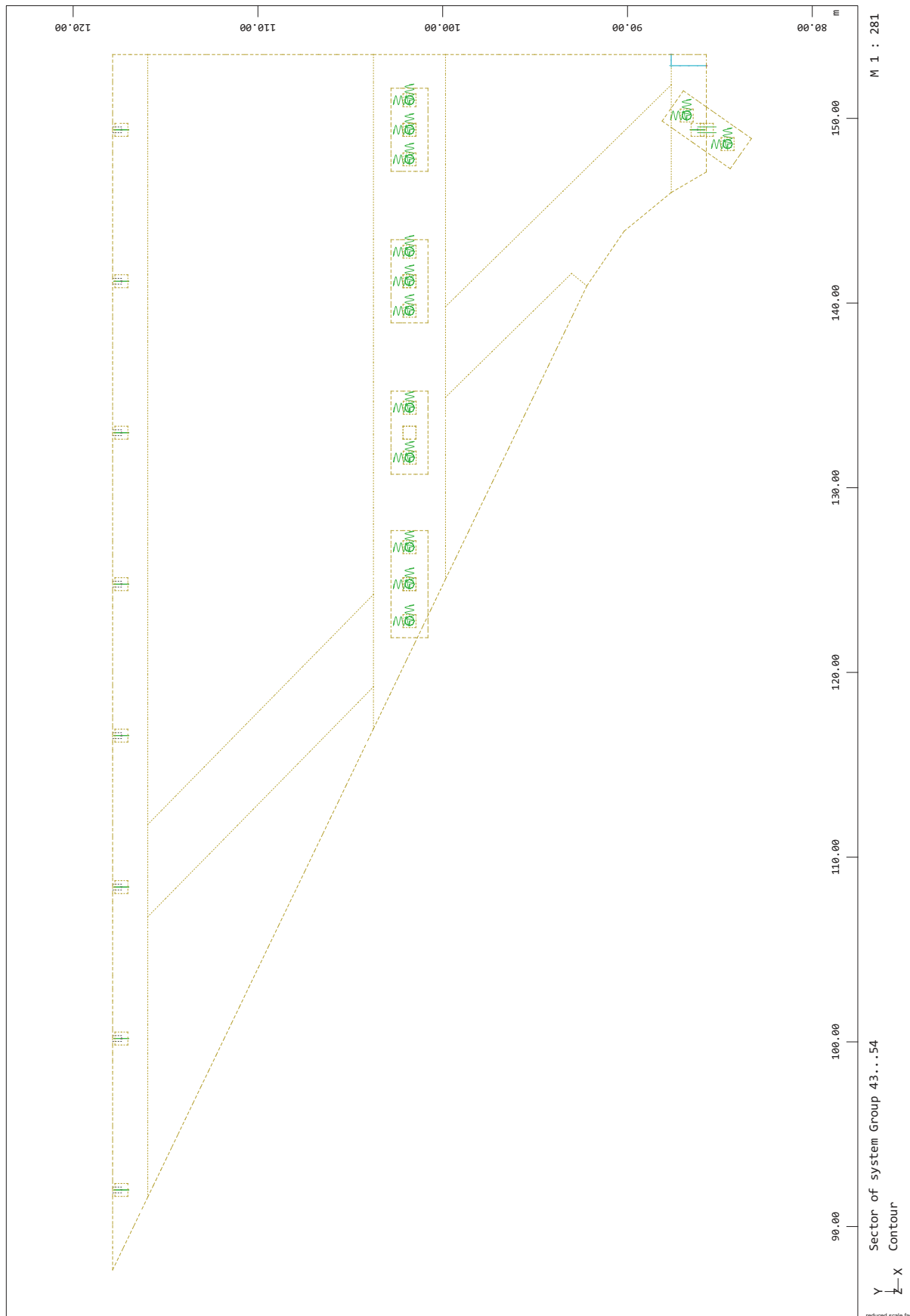
Geometry definition
Picture

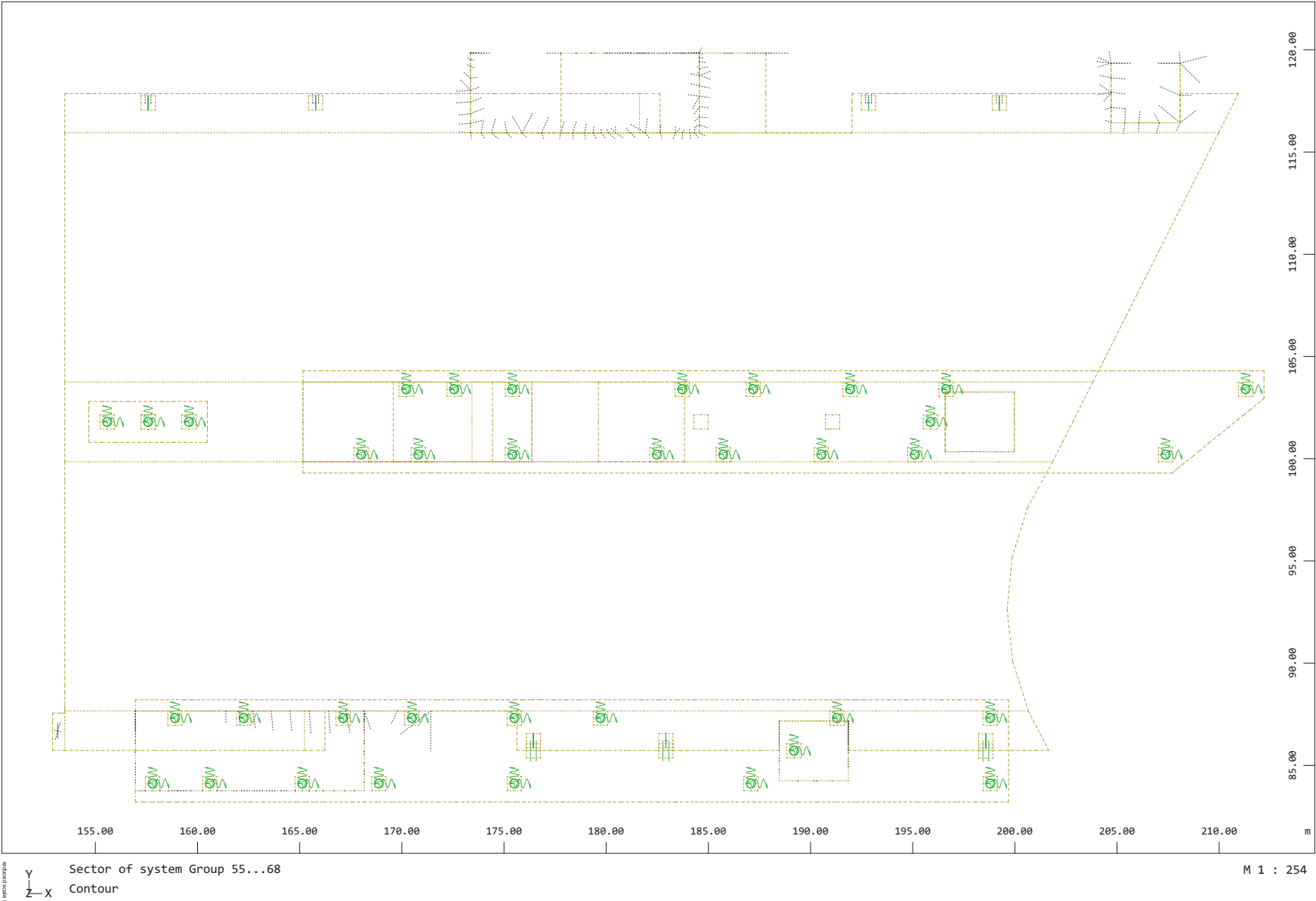


Geometry definition
 Picture



Geometry definition
Picture





Y
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Geometry definition
Picture

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Geometry definition

Loads definition

Load Case 5 G1_1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			89.080	116.887	21.300	PG	20.00 [kN/m2]
				94.880	116.887	21.300		20.00 [kN/m2]
				94.880	118.887	21.300		20.00 [kN/m2]
				89.080	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			39.880	142.194	21.300	PG	20.00 [kN/m2]
				45.680	142.194	21.300		20.00 [kN/m2]
				45.680	144.194	21.300		20.00 [kN/m2]
				39.880	144.194	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			97.930	116.887	21.300	PG	20.00 [kN/m2]
				102.430	116.887	21.300		20.00 [kN/m2]
				102.430	118.887	21.300		20.00 [kN/m2]
				97.930	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			97.930	132.076	21.300	PG	20.00 [kN/m2]
				102.430	132.076	21.300		20.00 [kN/m2]
				102.430	134.076	21.300		20.00 [kN/m2]
				97.930	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			89.730	132.076	21.300	PG	20.00 [kN/m2]
				94.230	132.076	21.300		20.00 [kN/m2]
				94.230	134.076	21.300		20.00 [kN/m2]
				89.730	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			81.530	132.076	21.300	PG	20.00 [kN/m2]
				86.030	132.076	21.300		20.00 [kN/m2]
				86.030	134.076	21.300		20.00 [kN/m2]
				81.530	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			73.330	132.076	21.300	PG	20.00 [kN/m2]
				77.830	132.076	21.300		20.00 [kN/m2]
				77.830	134.076	21.300		20.00 [kN/m2]
				73.330	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			65.130	132.076	21.300	PG	20.00 [kN/m2]
				69.630	132.076	21.300		20.00 [kN/m2]
				69.630	134.076	21.300		20.00 [kN/m2]
				65.130	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.930	132.076	21.300	PG	20.00 [kN/m2]
				61.430	132.076	21.300		20.00 [kN/m2]
				61.430	134.076	21.300		20.00 [kN/m2]
				56.930	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			97.930	142.244	21.300	PG	20.00 [kN/m2]
				102.430	142.244	21.300		20.00 [kN/m2]
				102.430	144.244	21.300		20.00 [kN/m2]
				97.930	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			89.730	142.244	21.300	PG	20.00 [kN/m2]
				94.230	142.244	21.300		20.00 [kN/m2]
				94.230	144.244	21.300		20.00 [kN/m2]
				89.730	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			81.530	142.244	21.300	PG	20.00 [kN/m2]
				86.030	142.244	21.300		20.00 [kN/m2]
				86.030	144.244	21.300		20.00 [kN/m2]
				81.530	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			73.330	142.244	21.300	PG	20.00 [kN/m2]
				77.830	142.244	21.300		20.00 [kN/m2]
				77.830	144.244	21.300		20.00 [kN/m2]
				73.330	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			65.130	142.244	21.300	PG	20.00 [kN/m2]
				69.630	142.244	21.300		20.00 [kN/m2]
				69.630	144.244	21.300		20.00 [kN/m2]
				65.130	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.930	142.244	21.300	PG	20.00 [kN/m2]
				61.430	142.244	21.300		20.00 [kN/m2]
				61.430	144.244	21.300		20.00 [kN/m2]
				56.930	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			48.730	142.244	21.300	PG	20.00 [kN/m2]
				53.230	142.244	21.300		20.00 [kN/m2]
				53.230	144.244	21.300		20.00 [kN/m2]
				48.730	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			37.137	142.194	29.000	PG	8.00 [kN/m2]
				87.545	117.912	29.000		8.00 [kN/m2]
				104.255	117.912	29.000		8.00 [kN/m2]
				104.255	142.194	29.000		8.00 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			83.766	145.476	27.400	PG	12.00 [kN/m]
				104.255	145.657	27.400		12.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			47.313	145.154	27.400	PG	12.00 [kN/m]
				75.337	145.401	27.400		12.00 [kN/m]
				activated				100.00 percent
Line	qgrp 6			83.766	144.194	27.400	PG	16.00 [kN/m]
				104.255	144.194	27.400		16.00 [kN/m]
				activated				100.00 percent
Line	qgrp 6			47.321	144.194	27.400	PG	16.00 [kN/m]
				77.039	144.194	27.400		16.00 [kN/m]
				activated				100.00 percent
Area	sar 17			83.766	144.194	27.400	PG	20.00 [kN/m2]
				104.255	144.194	27.400		20.00 [kN/m2]
				104.255	145.657	27.400		20.00 [kN/m2]
				83.766	145.476	27.400		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			47.321	144.194	27.400	PG	20.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				77.039	144.194	27.400		20.00 [kN/m2]
				75.337	145.401	27.400		20.00 [kN/m2]
				47.313	145.154	27.400		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			83.764	142.194	27.400	PG	8.00 [kN/m2]
				104.255	142.194	27.400		8.00 [kN/m2]
				104.255	144.194	27.400		24.00 [kN/m2]
				83.766	144.194	27.400		24.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			47.339	142.194	27.400	PG	8.00 [kN/m2]
				79.859	142.194	27.400		8.00 [kN/m2]
				77.039	144.194	27.400		24.00 [kN/m2]
				47.321	144.194	27.400		24.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			77.039	144.194	27.400	PG	6.30 [kN/m2]
				83.766	144.194	27.400		6.30 [kN/m2]
				83.766	145.476	27.400		3.70 [kN/m2]
				75.337	145.401	27.400		3.70 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	6.30 [kN/m2]
				47.321	144.194	27.400		6.30 [kN/m2]
				47.313	145.154	27.400		3.70 [kN/m2]
				31.288	145.012	27.400		3.70 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			79.859	142.194	27.400	PG	3.00 [kN/m2]
				83.764	142.194	27.400		3.00 [kN/m2]
				83.747	144.194	27.400		3.00 [kN/m2]
				77.039	144.194	27.400		3.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			37.137	142.194	27.400	PG	3.00 [kN/m2]
				47.339	142.194	27.400		3.00 [kN/m2]
				47.321	144.194	27.400		3.00 [kN/m2]
				32.985	144.194	27.400		3.00 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			104.255	142.194	29.000	PG	5.00 [kN/m]
				83.764	142.194	29.000		5.00 [kN/m]
				83.766	141.998	29.000		5.00 [kN/m]
				92.261	135.974	29.000		5.00 [kN/m]
				104.255	134.716	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			96.240	117.912	29.000	PG	5.00 [kN/m]
				76.887	127.241	29.000		5.00 [kN/m]
				77.743	129.370	29.000		5.00 [kN/m]
				104.255	120.726	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			47.339	142.194	29.000	PG	5.00 [kN/m]
				47.345	141.489	29.000		5.00 [kN/m]
				102.173	123.614	29.000		5.00 [kN/m]
				103.195	125.645	29.000		5.00 [kN/m]
				79.859	142.194	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			76.887	127.241	29.000	PG	5.00 [kN/m2]
				96.240	117.912	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	120.726	29.000		5.00 [kN/m2]
				77.743	129.370	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 22			83.766	142.194	29.000	PG	5.00 [kN/m2]
				83.766	141.998	29.000		5.00 [kN/m2]
				92.261	135.974	29.000		5.00 [kN/m2]
				104.255	134.716	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			47.345	141.489	29.000	PG	5.00 [kN/m2]
				102.173	123.614	29.000		5.00 [kN/m2]
				103.195	125.645	29.000		5.00 [kN/m2]
				79.859	142.194	29.000		5.00 [kN/m2]
				47.339	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.255	119.133	29.000	PG	5.00 [kN/m2]
				95.603	123.110	29.000		5.00 [kN/m2]
				94.157	120.055	29.000		5.00 [kN/m2]
				98.672	117.912	29.000		5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			62.904	137.774	29.000	PG	5.00 [kN/m2]
				94.581	127.124	29.000		5.00 [kN/m2]
				95.543	129.966	29.000		5.00 [kN/m2]
				63.865	140.616	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 22			104.255	139.118	29.000	PG	5.00 [kN/m2]
				96.635	140.116	29.000		5.00 [kN/m2]
				96.245	137.142	29.000		5.00 [kN/m2]
				104.255	136.093	29.000		5.00 [kN/m2]
				activated				100.00 percent
Line	qgrp 6			31.288	145.012	27.400	PG	16.00 [kN/m]
				104.255	145.657	27.400		16.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			31.288	145.012	27.400	PG	8.00 [kN/m]
				37.137	142.194	27.400		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			37.137	142.194	29.000	PG	8.00 [kN/m]
				87.545	117.912	29.000		8.00 [kN/m]
				activated				100.00 percent

Load Case 6 G1_2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			147.130	116.887	21.300	PG	20.00 [kN/m2]
				151.630	116.887	21.300		20.00 [kN/m2]
				151.630	118.887	21.300		20.00 [kN/m2]
				147.130	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			138.930	116.887	21.300	PG	20.00 [kN/m2]
				143.430	116.887	21.300		20.00 [kN/m2]
				143.430	118.887	21.300		20.00 [kN/m2]
				138.930	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			130.730	116.887	21.300	PG	20.00 [kN/m2]
				135.230	116.887	21.300		20.00 [kN/m2]
				135.230	118.887	21.300		20.00 [kN/m2]
				130.730	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			122.530	116.887	21.300	PG	20.00 [kN/m2]
				127.030	116.887	21.300		20.00 [kN/m2]
				127.030	118.887	21.300		20.00 [kN/m2]
				122.530	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			114.330	116.887	21.300	PG	20.00 [kN/m2]
				118.830	116.887	21.300		20.00 [kN/m2]
				118.830	118.887	21.300		20.00 [kN/m2]
				114.330	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			106.130	116.887	21.300	PG	20.00 [kN/m2]
				110.630	116.887	21.300		20.00 [kN/m2]
				110.630	118.887	21.300		20.00 [kN/m2]
				106.130	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.130	132.076	21.300	PG	20.00 [kN/m2]
				151.630	132.076	21.300		20.00 [kN/m2]
				151.630	134.076	21.300		20.00 [kN/m2]
				147.130	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			138.930	132.076	21.300	PG	20.00 [kN/m2]
				143.430	132.076	21.300		20.00 [kN/m2]
				143.430	134.076	21.300		20.00 [kN/m2]
				138.930	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			130.730	132.076	21.300	PG	20.00 [kN/m2]
				135.230	132.076	21.300		20.00 [kN/m2]
				135.230	134.076	21.300		20.00 [kN/m2]
				130.730	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			122.530	132.076	21.300	PG	20.00 [kN/m2]
				127.030	132.076	21.300		20.00 [kN/m2]
				127.030	134.076	21.300		20.00 [kN/m2]
				122.530	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			114.330	132.076	21.300	PG	20.00 [kN/m2]
				118.830	132.076	21.300		20.00 [kN/m2]
				118.830	134.076	21.300		20.00 [kN/m2]
				114.330	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			106.130	132.076	21.300	PG	20.00 [kN/m2]
				110.630	132.076	21.300		20.00 [kN/m2]
				110.630	134.076	21.300		20.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				106.130	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.130	142.244	21.300	PG	20.00 [kN/m2]
				151.630	142.244	21.300		20.00 [kN/m2]
				151.630	144.244	21.300		20.00 [kN/m2]
				147.130	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			138.930	142.244	21.300	PG	20.00 [kN/m2]
				143.430	142.244	21.300		20.00 [kN/m2]
				143.430	144.244	21.300		20.00 [kN/m2]
				138.930	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			130.730	142.244	21.300	PG	20.00 [kN/m2]
				135.230	142.244	21.300		20.00 [kN/m2]
				135.230	144.244	21.300		20.00 [kN/m2]
				130.730	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			122.530	142.244	21.300	PG	20.00 [kN/m2]
				127.030	142.244	21.300		20.00 [kN/m2]
				127.030	144.244	21.300		20.00 [kN/m2]
				122.530	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			114.330	142.244	21.300	PG	20.00 [kN/m2]
				118.830	142.244	21.300		20.00 [kN/m2]
				118.830	144.244	21.300		20.00 [kN/m2]
				114.330	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			106.130	142.244	21.300	PG	20.00 [kN/m2]
				110.630	142.244	21.300		20.00 [kN/m2]
				110.630	144.244	21.300		20.00 [kN/m2]
				106.130	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	8.00 [kN/m2]
				153.455	117.912	29.000		8.00 [kN/m2]
				153.455	142.194	29.000		8.00 [kN/m2]
				104.305	142.194	29.000		8.00 [kN/m2]
				activated				100.00 percent
Line	qgrp 19			130.643	145.890	27.400	PG	12.00 [kN/m]
				153.455	146.092	27.400		12.00 [kN/m]
				activated				100.00 percent
Line	qgrp 19			104.305	145.658	27.400	PG	12.00 [kN/m]
				110.236	145.710	27.400		12.00 [kN/m]
				activated				100.00 percent
Line	qgrp 19			131.602	144.194	27.400	PG	16.00 [kN/m]
				153.455	144.194	27.400		16.00 [kN/m]
				activated				100.00 percent
Line	qgrp 19			104.305	144.194	27.400	PG	16.00 [kN/m]
				111.584	144.194	27.400		16.00 [kN/m]
				activated				100.00 percent
Area	sar 43			131.602	144.194	27.400	PG	20.00 [kN/m2]
				153.455	144.194	27.400		20.00 [kN/m2]
				153.455	146.092	27.400		20.00 [kN/m2]
				130.643	145.890	27.400		20.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	20.00 [kN/m2]
				111.584	144.194	27.400		20.00 [kN/m2]
				110.236	145.710	27.400		20.00 [kN/m2]
				104.305	145.658	27.400		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			132.732	142.194	27.400	PG	8.00 [kN/m2]
				153.455	142.194	27.400		8.00 [kN/m2]
				153.455	144.194	27.400		24.00 [kN/m2]
				131.602	144.194	27.400		24.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	142.194	27.400	PG	8.00 [kN/m2]
				113.362	142.194	27.400		8.00 [kN/m2]
				111.584	144.194	27.400		24.00 [kN/m2]
				104.305	144.194	27.400		24.00 [kN/m2]
				activated				100.00 percent
Area	sar 43			111.584	144.194	27.400	PG	6.30 [kN/m2]
				131.602	144.194	27.400		6.30 [kN/m2]
				130.643	145.890	27.400		3.70 [kN/m2]
				110.236	145.710	27.400		3.70 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			113.362	142.194	27.400	PG	3.00 [kN/m2]
				132.732	142.194	27.400		3.00 [kN/m2]
				131.602	144.194	27.400		3.00 [kN/m2]
				111.584	144.194	27.400		3.00 [kN/m2]
				activated				100.00 percent
Line	auto -mult-			104.305	120.710	29.000	PG	5.00 [kN/m]
				112.886	117.912	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			134.958	117.912	29.000	PG	5.00 [kN/m]
				131.839	121.419	29.000		5.00 [kN/m]
				104.305	127.704	29.000		5.00 [kN/m]
				116.077	119.081	29.000		5.00 [kN/m]
				119.660	117.912	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			153.455	142.194	29.000	PG	5.00 [kN/m]
				132.732	142.194	29.000		5.00 [kN/m]
				139.019	131.069	29.000		5.00 [kN/m]
				153.455	129.554	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			104.305	134.710	29.000	PG	5.00 [kN/m]
				121.635	132.892	29.000		5.00 [kN/m]
				113.362	142.194	29.000		5.00 [kN/m]
				104.305	142.194	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			132.732	142.194	29.000	PG	5.00 [kN/m2]
				139.019	131.069	29.000		5.00 [kN/m2]
				153.455	129.554	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	127.704	29.000	PG	5.00 [kN/m2]
				116.077	119.081	29.000		5.00 [kN/m2]
				119.660	117.912	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				134.958	117.912	29.000		5.00 [kN/m2]
				131.839	121.419	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	120.710	29.000	PG	5.00 [kN/m2]
				104.305	117.912	29.000		5.00 [kN/m2]
				112.886	117.912	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	134.710	29.000	PG	5.00 [kN/m2]
				121.635	132.892	29.000		5.00 [kN/m2]
				113.362	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 45			104.305	117.912	29.000	PG	5.00 [kN/m2]
				106.909	117.912	29.000		5.00 [kN/m2]
				104.305	119.110	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	136.086	29.000	PG	5.00 [kN/m2]
				114.594	134.739	29.000		5.00 [kN/m2]
				114.983	137.714	29.000		5.00 [kN/m2]
				104.305	139.112	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			130.068	117.912	29.000	PG	5.00 [kN/m2]
				130.668	119.855	29.000		5.00 [kN/m2]
				113.926	125.022	29.000		5.00 [kN/m2]
				113.042	122.156	29.000		5.00 [kN/m2]
				126.790	117.912	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.455	134.666	29.000	PG	5.00 [kN/m2]
				141.220	135.380	29.000		5.00 [kN/m2]
				140.998	131.565	29.000		5.00 [kN/m2]
				153.455	130.838	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 7 G1_3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			171.730	133.144	21.300	PG	20.00 [kN/m2]
				176.230	133.144	21.300		20.00 [kN/m2]
				176.230	135.144	21.300		20.00 [kN/m2]
				171.730	135.144	21.300		20.00 [kN/m2]
				activated (--)				98.50 percent
Area	sar -mult-			181.880	140.994	21.300	PG	20.00 [kN/m2]
				181.880	145.494	21.300		20.00 [kN/m2]
				179.880	145.494	21.300		20.00 [kN/m2]
				179.880	140.994	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			163.530	116.887	21.300	PG	20.00 [kN/m2]
				168.030	116.887	21.300		20.00 [kN/m2]
				168.030	118.887	21.300		20.00 [kN/m2]
				163.530	118.887	21.300		20.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			155.330	116.887	21.300	PG	20.00 [kN/m2]
				159.830	116.887	21.300		20.00 [kN/m2]
				159.830	118.887	21.300		20.00 [kN/m2]
				155.330	118.887	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			163.530	132.076	21.300	PG	20.00 [kN/m2]
				168.030	132.076	21.300		20.00 [kN/m2]
				168.030	134.076	21.300		20.00 [kN/m2]
				163.530	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			155.330	132.076	21.300	PG	20.00 [kN/m2]
				159.830	132.076	21.300		20.00 [kN/m2]
				159.830	134.076	21.300		20.00 [kN/m2]
				155.330	134.076	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			171.730	142.244	21.300	PG	20.00 [kN/m2]
				176.230	142.244	21.300		20.00 [kN/m2]
				176.230	144.244	21.300		20.00 [kN/m2]
				171.730	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			163.530	142.244	21.300	PG	20.00 [kN/m2]
				168.030	142.244	21.300		20.00 [kN/m2]
				168.030	144.244	21.300		20.00 [kN/m2]
				163.530	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			155.330	142.244	21.300	PG	20.00 [kN/m2]
				159.830	142.244	21.300		20.00 [kN/m2]
				159.830	144.244	21.300		20.00 [kN/m2]
				155.330	144.244	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 60			204.711	115.388	20.650	PG	20.00 [kN/m2]
				208.091	115.388	20.650		20.00 [kN/m2]
				208.091	117.912	20.650		20.00 [kN/m2]
				204.711	117.912	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			208.091	115.384	20.650	PG	20.00 [kN/m2]
				213.435	115.383	20.650		20.00 [kN/m2]
				215.414	119.293	20.650		20.00 [kN/m2]
				215.415	120.383	20.650		20.00 [kN/m2]
				208.091	120.383	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 60			192.035	115.388	20.650	PG	20.00 [kN/m2]
				204.711	115.388	20.650		20.00 [kN/m2]
				204.711	120.385	20.650		20.00 [kN/m2]
				192.035	120.385	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			216.311	131.674	20.650	PG	20.00 [kN/m2]
				221.510	131.674	20.650		20.00 [kN/m2]
				223.410	135.524	20.650		20.00 [kN/m2]
				223.410	136.674	20.650		20.00 [kN/m2]
				216.311	136.674	20.650		20.00 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 58			200.235	131.674	20.650	PG	20.00 [kN/m2]
				212.931	131.674	20.650		20.00 [kN/m2]
				212.931	136.674	20.650		20.00 [kN/m2]
				200.235	136.674	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			221.691	142.334	20.650	PG	20.00 [kN/m2]
				226.925	142.334	20.650		20.00 [kN/m2]
				228.825	146.234	20.650		20.00 [kN/m2]
				228.825	147.333	20.650		20.00 [kN/m2]
				221.691	147.333	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 59			205.565	142.884	20.650	PG	20.00 [kN/m2]
				205.565	142.334	20.650		20.00 [kN/m2]
				218.311	142.334	20.650		20.00 [kN/m2]
				218.311	147.334	20.650		20.00 [kN/m2]
				205.566	147.334	20.650		20.00 [kN/m2]
				activated				99.99 percent
Area	sar 59			218.311	142.334	20.650	PG	20.00 [kN/m2]
				221.691	142.334	20.650		20.00 [kN/m2]
				221.691	143.374	20.650		20.00 [kN/m2]
				218.311	143.374	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 59			218.311	146.294	20.650	PG	20.00 [kN/m2]
				221.691	146.294	20.650		20.00 [kN/m2]
				221.691	147.333	20.650		20.00 [kN/m2]
				218.311	147.334	20.650		20.00 [kN/m2]
				activated				99.99 percent
Area	sar -mult-			212.931	135.634	20.650	PG	20.00 [kN/m2]
				216.311	135.634	20.650		20.00 [kN/m2]
				216.311	136.674	20.650		20.00 [kN/m2]
				212.931	136.674	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 58			212.931	131.674	20.650	PG	20.00 [kN/m2]
				216.311	131.674	20.650		20.00 [kN/m2]
				216.311	132.714	20.650		20.00 [kN/m2]
				212.931	132.714	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 60			204.711	119.347	20.650	PG	20.00 [kN/m2]
				208.091	119.347	20.650		20.00 [kN/m2]
				208.091	120.383	20.650		20.00 [kN/m2]
				204.711	120.385	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 91			212.931	132.225	29.000	PG	8.00 [kN/m2]
				218.190	132.225	29.000		8.00 [kN/m2]
				220.159	136.125	29.000		8.00 [kN/m2]
				212.931	136.125	29.000		8.00 [kN/m2]
				212.931	135.634	29.000		8.00 [kN/m2]
				216.311	135.634	29.000		8.00 [kN/m2]
				216.311	132.714	29.000		8.00 [kN/m2]
				212.931	132.714	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 91			200.235	132.225	29.000	PG	8.00 [kN/m2]
				212.931	132.225	29.000		8.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				212.931	136.125	29.000		8.00 [kN/m2]
				200.235	136.125	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	131.126	29.000	PG	8.00 [kN/m2]
				169.880	131.126	29.000		8.00 [kN/m2]
				169.880	132.225	29.000		8.00 [kN/m2]
				190.835	132.225	29.000		8.00 [kN/m2]
				190.835	136.126	29.000		8.00 [kN/m2]
				153.505	136.125	29.000		8.00 [kN/m2]
				activated				100.01 percent
Area	sar 95			205.566	146.784	29.000	PG	8.00 [kN/m2]
				225.538	146.784	29.000		8.00 [kN/m2]
				226.869	149.420	29.000		8.00 [kN/m2]
				205.566	149.420	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 93			218.311	142.884	29.000	PG	8.00 [kN/m2]
				223.570	142.884	29.000		8.00 [kN/m2]
				225.538	146.784	29.000		8.00 [kN/m2]
				218.311	146.784	29.000		8.00 [kN/m2]
				218.311	146.294	29.000		8.00 [kN/m2]
				221.691	146.294	29.000		8.00 [kN/m2]
				221.691	143.374	29.000		8.00 [kN/m2]
				218.311	143.374	29.000		8.00 [kN/m2]
				218.311	142.884	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	142.884	29.000	PG	8.00 [kN/m2]
				218.311	142.884	29.000		8.00 [kN/m2]
				218.311	146.784	29.000		8.00 [kN/m2]
				205.566	146.784	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 96			153.505	136.125	29.000	PG	8.00 [kN/m2]
				220.159	136.125	29.000		8.00 [kN/m2]
				223.570	142.884	29.000		8.00 [kN/m2]
				196.165	142.885	29.000		8.00 [kN/m2]
				196.166	146.784	29.000		8.00 [kN/m2]
				186.312	146.784	29.000		8.00 [kN/m2]
				183.791	142.194	29.000		8.00 [kN/m2]
				153.505	142.194	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	8.00 [kN/m2]
				182.635	117.912	29.000		8.00 [kN/m2]
				182.635	119.837	29.000		8.00 [kN/m2]
				192.035	119.837	29.000		8.00 [kN/m2]
				192.035	117.912	29.000		8.00 [kN/m2]
				204.711	117.912	29.000		8.00 [kN/m2]
				204.711	119.347	29.000		8.00 [kN/m2]
				208.091	119.347	29.000		8.00 [kN/m2]
				208.091	117.912	29.000		8.00 [kN/m2]
				210.967	117.912	29.000		8.00 [kN/m2]
				218.190	132.225	29.000		8.00 [kN/m2]
				169.880	132.225	29.000		8.00 [kN/m2]
				169.880	131.126	29.000		8.00 [kN/m2]
				153.505	131.126	29.000		8.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
						activated		100.00 percent
Line	qgrp 34			163.279	146.179	27.400	PG	12.00 [kN/m]
				186.091	146.381	27.400		12.00 [kN/m]
						activated		100.00 percent
Line	qgrp -mult-			153.505	146.093	27.400	PG	12.00 [kN/m]
				161.179	146.161	27.400		12.00 [kN/m]
						activated		100.00 percent
Line	qgrp 34			163.318	144.194	27.400	PG	16.00 [kN/m]
				184.890	144.194	27.400		16.00 [kN/m]
						activated		100.00 percent
Line	qgrp 34			153.505	144.194	27.400	PG	16.00 [kN/m]
				161.217	144.194	27.400		16.00 [kN/m]
						activated		100.00 percent
Area	sar 87			163.318	144.194	27.400	PG	20.00 [kN/m2]
				184.890	144.194	27.400		20.00 [kN/m2]
				186.091	146.381	27.400		20.00 [kN/m2]
				163.279	146.179	27.400		20.00 [kN/m2]
						activated		100.00 percent
Area	sar 87			153.505	144.194	27.400	PG	20.00 [kN/m2]
				161.217	144.194	27.400		20.00 [kN/m2]
				161.179	146.161	27.400		20.00 [kN/m2]
				153.505	146.093	27.400		20.00 [kN/m2]
						activated		100.00 percent
Area	sar -mult-			163.356	142.194	27.400	PG	8.00 [kN/m2]
				183.791	142.194	27.400		8.00 [kN/m2]
				184.890	144.194	27.400		24.00 [kN/m2]
				163.318	144.194	27.400		24.00 [kN/m2]
						activated		100.00 percent
Area	sar -mult-			153.505	142.194	27.400	PG	8.00 [kN/m2]
				161.256	142.194	27.400		8.00 [kN/m2]
				161.217	144.195	27.400		24.00 [kN/m2]
				153.505	144.194	27.400		24.00 [kN/m2]
						activated		100.01 percent
Area	sar 87			161.217	144.195	27.400	PG	6.30 [kN/m2]
				163.318	144.194	27.400		6.30 [kN/m2]
				163.279	146.179	27.400		3.70 [kN/m2]
				161.179	146.161	27.400		3.70 [kN/m2]
						activated		100.01 percent
Area	sar 88			161.256	142.194	27.400	PG	3.00 [kN/m2]
				163.356	142.194	27.400		3.00 [kN/m2]
				163.318	144.194	27.400		3.00 [kN/m2]
				161.217	144.194	27.400		3.00 [kN/m2]
						activated		100.00 percent
Line	qgrp -mult-			185.005	144.405	29.000	PG	5.00 [kN/m]
				193.192	144.405	29.000		5.00 [kN/m]
						activated		100.00 percent
Line	qgrp -mult-			163.356	142.194	29.000	PG	5.00 [kN/m]
				163.622	128.488	29.000		5.00 [kN/m]
				184.075	126.342	29.000		5.00 [kN/m]
				194.392	146.784	29.000		5.00 [kN/m]
				186.312	146.784	29.000		5.00 [kN/m]
				183.791	142.194	29.000		5.00 [kN/m]
						activated		100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp -mult-			153.505	129.549	29.000	PG	5.00 [kN/m]
				161.517	128.709	29.000		5.00 [kN/m]
				161.256	142.194	29.000		5.00 [kN/m]
				153.505	142.194	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			163.622	128.488	29.000	PG	5.00 [kN/m2]
				184.075	126.342	29.000		5.00 [kN/m2]
				194.392	146.784	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				163.356	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	129.549	29.000	PG	5.00 [kN/m2]
				161.517	128.709	29.000		5.00 [kN/m2]
				161.256	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	130.835	29.000	PG	5.00 [kN/m2]
				160.267	130.441	29.000		5.00 [kN/m2]
				160.490	134.256	29.000		5.00 [kN/m2]
				153.505	134.664	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			165.123	133.473	29.000	PG	5.00 [kN/m2]
				164.633	129.759	29.000		5.00 [kN/m2]
				183.820	127.228	29.000		5.00 [kN/m2]
				184.310	130.941	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated				100.00 percent
Point	sar 60			174.485	115.937	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 60			174.485	119.837	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 58			182.685	132.225	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 58			182.685	136.125	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 59			188.016	142.884	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 59			188.016	146.784	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 122			192.035	115.937	29.000	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 61			192.035	119.837	29.000	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 62			200.235	132.225	29.000	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 63			200.235	136.125	29.000	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 64			205.565	142.884	29.000	PG	29.3 [kN]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Point	sar 93			205.566	146.784	29.000	PG	29.3 [kN]
							activated	100.00 percent
Point	sar 122			179.885	115.937	24.000	PG	58.5 [kN]
							activated	100.00 percent
Point	sar 61			179.885	119.837	24.000	PG	58.5 [kN]
							activated	100.00 percent
Point	sar 62			188.085	132.225	24.000	PG	58.5 [kN]
							activated	100.00 percent
Point	sar 63			188.085	136.125	24.000	PG	58.5 [kN]
							activated	100.00 percent
Point	sar 64			193.416	142.884	24.000	PG	58.5 [kN]
							activated	100.00 percent
Point	sar 70			193.416	146.784	24.000	PG	58.5 [kN]
							activated	100.00 percent

Load Case 8 G1_4

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			148.909	83.291	21.300	PG	20.00 [kN/m2]
				151.490	86.977	21.300		20.00 [kN/m2]
				149.852	88.124	21.300		20.00 [kN/m2]
				147.271	84.438	21.300		20.00 [kN/m2]
							activated	100.00 percent
Area	sar -mult-			147.130	100.797	21.300	PG	20.00 [kN/m2]
				151.630	100.797	21.300		20.00 [kN/m2]
				151.630	102.797	21.300		20.00 [kN/m2]
				147.130	102.797	21.300		20.00 [kN/m2]
							activated	100.00 percent
Area	sar -mult-			138.930	100.797	21.300	PG	20.00 [kN/m2]
				143.430	100.797	21.300		20.00 [kN/m2]
				143.430	102.797	21.300		20.00 [kN/m2]
				138.930	102.797	21.300		20.00 [kN/m2]
							activated	100.00 percent
Area	sar -mult-			130.730	100.797	21.300	PG	20.00 [kN/m2]
				135.230	100.797	21.300		20.00 [kN/m2]
				135.230	102.797	21.300		20.00 [kN/m2]
				130.730	102.797	21.300		20.00 [kN/m2]
							activated	100.00 percent
Area	sar -mult-			122.530	100.797	21.300	PG	20.00 [kN/m2]
				127.030	100.797	21.300		20.00 [kN/m2]
				127.030	102.797	21.300		20.00 [kN/m2]
				122.530	102.797	21.300		20.00 [kN/m2]
							activated	100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	8.00 [kN/m2]
				152.855	85.732	29.000		8.00 [kN/m2]
				152.855	87.632	29.000		8.00 [kN/m2]
				153.455	87.632	29.000		8.00 [kN/m2]
				153.455	117.862	29.000		8.00 [kN/m2]
				87.649	117.862	29.000		8.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				140.929	92.197	29.000		8.00 [kN/m2]
				143.890	90.182	29.000		8.00 [kN/m2]
				145.984	87.632	29.000		8.00 [kN/m2]
				activated				100.00 percent
Line	qgrp 48			151.113	85.732	29.000	PG	5.00 [kN/m]
				152.435	87.162	29.000		5.00 [kN/m]
				152.855	86.936	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			153.455	116.485	29.000	PG	5.00 [kN/m]
				148.879	117.530	29.000		5.00 [kN/m]
				147.622	115.843	29.000		5.00 [kN/m]
				152.503	107.205	29.000		5.00 [kN/m]
				153.455	106.895	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			153.455	92.576	29.000	PG	5.00 [kN/m]
				128.021	110.614	29.000		5.00 [kN/m]
				129.042	112.645	29.000		5.00 [kN/m]
				143.971	107.778	29.000		5.00 [kN/m]
				153.455	97.115	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			96.343	117.862	29.000	PG	5.00 [kN/m]
				139.665	96.981	29.000		5.00 [kN/m]
				140.830	98.955	29.000		5.00 [kN/m]
				115.130	117.181	29.000		5.00 [kN/m]
				113.039	117.862	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			119.814	117.862	29.000	PG	5.00 [kN/m]
				137.166	112.205	29.000		5.00 [kN/m]
				138.382	114.063	29.000		5.00 [kN/m]
				135.002	117.862	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			147.622	115.843	29.000	PG	5.00 [kN/m2]
				152.503	107.205	29.000		5.00 [kN/m2]
				153.455	106.895	29.000		5.00 [kN/m2]
				153.455	116.485	29.000		5.00 [kN/m2]
				148.879	117.530	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 106			151.113	85.732	29.000	PG	5.00 [kN/m2]
				152.855	85.732	29.000		5.00 [kN/m2]
				152.855	86.936	29.000		5.00 [kN/m2]
				152.435	87.162	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			128.021	110.614	29.000	PG	5.00 [kN/m2]
				153.455	92.576	29.000		5.00 [kN/m2]
				153.455	97.115	29.000		5.00 [kN/m2]
				143.971	107.778	29.000		5.00 [kN/m2]
				129.042	112.645	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			119.814	117.862	29.000	PG	5.00 [kN/m2]
				137.166	112.205	29.000		5.00 [kN/m2]
				138.382	114.063	29.000		5.00 [kN/m2]
				135.002	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			96.343	117.862	29.000	PG	5.00 [kN/m2]
				139.665	96.981	29.000		5.00 [kN/m2]
				140.830	98.955	29.000		5.00 [kN/m2]
				115.130	117.181	29.000		5.00 [kN/m2]
				113.039	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			98.778	117.862	29.000	PG	5.00 [kN/m2]
				123.918	105.934	29.000		5.00 [kN/m2]
				125.532	109.351	29.000		5.00 [kN/m2]
				107.018	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 109			153.455	115.511	29.000	PG	5.00 [kN/m2]
				151.903	115.943	29.000		5.00 [kN/m2]
				150.947	112.506	29.000		5.00 [kN/m2]
				153.455	111.808	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 9 G1_5

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			155.330	100.797	21.300	PG	20.00 [kN/m2]
				159.830	100.797	21.300		20.00 [kN/m2]
				159.830	102.797	21.300		20.00 [kN/m2]
				155.330	102.797	21.300		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			191.850	83.207	20.650	PG	20.00 [kN/m2]
				199.696	83.207	20.650		20.00 [kN/m2]
				199.696	88.207	20.650		20.00 [kN/m2]
				191.850	88.207	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 117			175.635	83.207	20.650	PG	20.00 [kN/m2]
				188.470	83.207	20.650		20.00 [kN/m2]
				188.470	88.207	20.650		20.00 [kN/m2]
				175.635	88.207	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 118			199.971	99.297	20.650	PG	20.00 [kN/m2]
				207.695	99.297	20.650		20.00 [kN/m2]
				212.195	102.948	20.650		20.00 [kN/m2]
				212.195	104.297	20.650		20.00 [kN/m2]
				199.971	104.297	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 118			183.835	99.297	20.650	PG	20.00 [kN/m2]
				196.591	99.297	20.650		20.00 [kN/m2]
				196.591	104.297	20.650		20.00 [kN/m2]
				183.835	104.297	20.650		20.00 [kN/m2]
				activated				99.99 percent
Area	sar -mult-			196.591	103.257	20.650	PG	20.00 [kN/m2]
				199.971	103.257	20.650		20.00 [kN/m2]
				199.971	104.297	20.650		20.00 [kN/m2]
				196.591	104.297	20.650		20.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			188.470	87.167	20.650	PG	20.00 [kN/m2]
				191.850	87.167	20.650		20.00 [kN/m2]
				191.850	88.207	20.650		20.00 [kN/m2]
				188.470	88.207	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar 118			196.591	99.297	20.650	PG	20.00 [kN/m2]
				199.971	99.297	20.650		20.00 [kN/m2]
				199.971	100.337	20.650		20.00 [kN/m2]
				196.591	100.337	20.650		20.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	8.00 [kN/m2]
				166.235	85.732	29.000		8.00 [kN/m2]
				166.235	87.658	29.000		8.00 [kN/m2]
				175.635	87.658	29.000		8.00 [kN/m2]
				175.635	85.732	29.000		8.00 [kN/m2]
				188.470	85.732	29.000		8.00 [kN/m2]
				188.470	87.167	29.000		8.00 [kN/m2]
				191.850	87.167	29.000		8.00 [kN/m2]
				191.850	85.732	29.000		8.00 [kN/m2]
				201.663	85.732	29.000		8.00 [kN/m2]
				200.662	87.658	29.000		8.00 [kN/m2]
				199.890	90.091	29.000		8.00 [kN/m2]
				199.623	92.629	29.000		8.00 [kN/m2]
				199.870	95.170	29.000		8.00 [kN/m2]
				200.623	97.609	29.000		8.00 [kN/m2]
				201.850	99.848	29.000		8.00 [kN/m2]
				153.505	99.847	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 143			196.591	99.848	29.000	PG	8.00 [kN/m2]
				201.850	99.848	29.000		8.00 [kN/m2]
				203.818	103.748	29.000		8.00 [kN/m2]
				196.591	103.748	29.000		8.00 [kN/m2]
				196.591	103.257	29.000		8.00 [kN/m2]
				199.971	103.257	29.000		8.00 [kN/m2]
				199.971	100.337	29.000		8.00 [kN/m2]
				196.591	100.337	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar 143			183.835	99.848	29.000	PG	8.00 [kN/m2]
				196.591	99.848	29.000		8.00 [kN/m2]
				196.591	103.748	29.000		8.00 [kN/m2]
				183.835	103.748	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	99.847	29.000	PG	8.00 [kN/m2]
				174.435	99.847	29.000		8.00 [kN/m2]
				174.435	103.748	29.000		8.00 [kN/m2]
				153.505	103.748	29.000		8.00 [kN/m2]
				activated				100.01 percent
Area	sar -mult-			153.505	103.748	29.000	PG	8.00 [kN/m2]
				203.818	103.748	29.000		8.00 [kN/m2]
				210.942	117.862	29.000		8.00 [kN/m2]
				208.091	117.862	29.000		8.00 [kN/m2]
				208.091	116.427	29.000		8.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				204.711	116.427	29.000		8.00 [kN/m2]
				204.711	117.862	29.000		8.00 [kN/m2]
				192.035	117.862	29.000		8.00 [kN/m2]
				192.035	115.938	29.000		8.00 [kN/m2]
				182.635	115.938	29.000		8.00 [kN/m2]
				182.635	117.862	29.000		8.00 [kN/m2]
				153.505	117.862	29.000		8.00 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			164.107	103.422	29.000	PG	5.00 [kN/m]
				171.321	101.070	29.000		5.00 [kN/m]
				176.452	111.236	29.000		5.00 [kN/m]
				163.900	114.101	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			164.327	92.021	29.000	PG	5.00 [kN/m]
				166.504	91.525	29.000		5.00 [kN/m]
				169.760	97.977	29.000		5.00 [kN/m]
				169.090	99.588	29.000		5.00 [kN/m]
				165.687	100.698	29.000		5.00 [kN/m]
				164.181	99.582	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			155.489	101.921	29.000	PG	5.00 [kN/m]
				160.028	93.887	29.000		5.00 [kN/m]
				162.179	94.475	29.000		5.00 [kN/m]
				162.036	101.888	29.000		5.00 [kN/m]
				156.847	103.580	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			153.505	106.878	29.000	PG	5.00 [kN/m]
				160.455	104.612	29.000		5.00 [kN/m]
				161.962	105.728	29.000		5.00 [kN/m]
				161.808	113.684	29.000		5.00 [kN/m]
				160.914	114.783	29.000		5.00 [kN/m]
				153.505	116.474	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			153.505	92.540	29.000	PG	5.00 [kN/m]
				156.157	90.659	29.000		5.00 [kN/m]
				157.682	92.361	29.000		5.00 [kN/m]
				153.505	97.058	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			164.327	92.021	29.000	PG	5.00 [kN/m2]
				166.504	91.525	29.000		5.00 [kN/m2]
				169.760	97.977	29.000		5.00 [kN/m2]
				169.090	99.588	29.000		5.00 [kN/m2]
				165.687	100.698	29.000		5.00 [kN/m2]
				164.181	99.582	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 147			153.505	92.540	29.000	PG	5.00 [kN/m2]
				156.157	90.659	29.000		5.00 [kN/m2]
				157.682	92.361	29.000		5.00 [kN/m2]
				153.505	97.058	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			155.489	101.921	29.000	PG	5.00 [kN/m2]
				160.028	93.887	29.000		5.00 [kN/m2]
				162.179	94.475	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				162.036	101.888	29.000		5.00 [kN/m2]
				156.847	103.580	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			164.107	103.422	29.000	PG	5.00 [kN/m2]
				171.321	101.070	29.000		5.00 [kN/m2]
				176.452	111.236	29.000		5.00 [kN/m2]
				163.900	114.101	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 148			153.505	106.878	29.000	PG	5.00 [kN/m2]
				160.455	104.612	29.000		5.00 [kN/m2]
				161.962	105.728	29.000		5.00 [kN/m2]
				161.808	113.684	29.000		5.00 [kN/m2]
				160.914	114.783	29.000		5.00 [kN/m2]
				153.505	116.474	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 148			153.505	111.794	29.000	PG	5.00 [kN/m2]
				160.510	109.844	29.000		5.00 [kN/m2]
				161.467	113.280	29.000		5.00 [kN/m2]
				153.505	115.497	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 148			166.354	108.784	29.000	PG	5.00 [kN/m2]
				171.582	107.148	29.000		5.00 [kN/m2]
				172.767	110.803	29.000		5.00 [kN/m2]
				167.539	112.439	29.000		5.00 [kN/m2]
				activated				100.00 percent
Line	auto -mult-			200.623	97.609	29.000	PG	8.00 [kN/m]
				201.850	99.848	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.870	95.170	29.000	PG	8.00 [kN/m]
				200.623	97.609	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.623	92.629	29.000	PG	8.00 [kN/m]
				199.870	95.170	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.890	90.091	29.000	PG	8.00 [kN/m]
				199.623	92.629	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			200.662	87.658	29.000	PG	8.00 [kN/m]
				199.890	90.091	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 63			201.663	85.732	29.000	PG	8.00 [kN/m]
				200.662	87.658	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp 63			201.850	99.848	29.000	PG	8.00 [kN/m]
				203.818	103.748	29.000		8.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			203.818	103.748	29.000	PG	8.00 [kN/m]
				210.942	117.862	29.000		8.00 [kN/m]
				activated				100.00 percent
Point	sar 157			158.085	83.758	20.650	PG	29.3 [kN]
				activated				100.00 percent
Point	sar 117			158.085	87.658	20.650	PG	29.3 [kN]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 118			166.285	99.848	20.650	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 118			166.285	103.748	20.650	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 157			175.635	83.758	29.000	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 121			175.635	87.658	29.000	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 119			183.835	99.848	29.000	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 120			183.835	103.748	29.000	PG	29.3 [kN]
						activated		100.00 percent
Point	sar 157			163.485	83.758	24.000	PG	58.5 [kN]
						activated		100.00 percent
Point	sar 121			163.485	87.658	24.000	PG	58.5 [kN]
						activated		100.00 percent
Point	sar 119			171.685	99.848	24.000	PG	58.5 [kN]
						activated		100.00 percent
Point	sar 120			171.685	103.748	24.000	PG	58.5 [kN]
						activated		100.00 percent

Load Case 10 G1_6

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			204.623	69.257	21.300	PG	20.00 [kN/m2]
				209.123	69.257	21.300		20.00 [kN/m2]
				209.123	71.257	21.300		20.00 [kN/m2]
				204.623	71.257	21.300		20.00 [kN/m2]
						activated		100.00 percent
Area	sar -mult-			196.183	69.257	21.300	PG	20.00 [kN/m2]
				200.683	69.257	21.300		20.00 [kN/m2]
				200.683	71.257	21.300		20.00 [kN/m2]
				196.183	71.257	21.300		20.00 [kN/m2]
						activated		100.00 percent
Area	sar -mult-			183.871	68.057	20.650	PG	20.00 [kN/m2]
				189.971	68.057	20.650		20.00 [kN/m2]
				191.415	71.057	20.650		20.00 [kN/m2]
				191.415	72.157	20.650		20.00 [kN/m2]
				183.871	72.157	20.650		20.00 [kN/m2]
						activated		100.00 percent
Area	sar -mult-			169.173	68.057	20.650	PG	20.00 [kN/m2]
				180.491	68.057	20.650		20.00 [kN/m2]
				180.491	72.157	20.650		20.00 [kN/m2]
				169.173	72.157	20.650		20.00 [kN/m2]
						activated		100.00 percent
Area	sar 175			169.173	68.237	29.000	PG	8.00 [kN/m2]
				180.491	68.237	29.000		8.00 [kN/m2]
				180.491	71.157	29.000		8.00 [kN/m2]
				183.871	71.157	29.000		8.00 [kN/m2]
				183.871	68.237	29.000		8.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				211.180	68.237	29.000		8.00 [kN/m2]
				209.020	72.207	29.000		8.00 [kN/m2]
				169.173	72.207	29.000		8.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	8.00 [kN/m2]
				212.106	66.536	29.000		8.00 [kN/m2]
				211.180	68.237	29.000		8.00 [kN/m2]
				169.173	68.237	29.000		8.00 [kN/m2]
				169.173	69.163	29.000		8.00 [kN/m2]
				159.773	69.162	29.000		8.00 [kN/m2]
				159.773	71.352	29.000		8.00 [kN/m2]
				169.173	71.352	29.000		8.00 [kN/m2]
				169.173	72.207	29.000		8.00 [kN/m2]
				209.020	72.207	29.000		8.00 [kN/m2]
				201.691	85.682	29.000		8.00 [kN/m2]
				191.850	85.682	29.000		8.00 [kN/m2]
				191.850	84.247	29.000		8.00 [kN/m2]
				188.470	84.247	29.000		8.00 [kN/m2]
				188.470	85.682	29.000		8.00 [kN/m2]
				175.635	85.682	29.000		8.00 [kN/m2]
				175.635	83.758	29.000		8.00 [kN/m2]
				166.235	83.758	29.000		8.00 [kN/m2]
				166.235	85.683	29.000		8.00 [kN/m2]
				147.124	85.682	29.000		8.00 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			187.518	71.907	29.000	PG	5.00 [kN/m]
				203.141	71.907	29.000		5.00 [kN/m]
				195.648	85.682	29.000		5.00 [kN/m]
				194.471	85.682	29.000		5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			155.505	85.682	29.000	PG	5.00 [kN/m]
				160.925	83.070	29.000		5.00 [kN/m]
				161.452	81.516	29.000		5.00 [kN/m]
				158.618	75.840	29.000		5.00 [kN/m]
				156.598	75.840	29.000		5.00 [kN/m]
				150.942	85.548	29.000		5.00 [kN/m]
				151.066	85.682	29.000		5.00 [kN/m]
				activated				100.00 percent
Area	sar -mult-			187.518	71.907	29.000	PG	5.00 [kN/m2]
				203.141	71.907	29.000		5.00 [kN/m2]
				195.648	85.682	29.000		5.00 [kN/m2]
				194.471	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			151.066	85.682	29.000	PG	5.00 [kN/m2]
				150.942	85.548	29.000		5.00 [kN/m2]
				156.598	75.840	29.000		5.00 [kN/m2]
				158.618	75.840	29.000		5.00 [kN/m2]
				161.452	81.516	29.000		5.00 [kN/m2]
				160.925	83.070	29.000		5.00 [kN/m2]
				155.505	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			212.106	66.536	29.000	PG	8.00 [kN/m]
				201.691	85.682	29.000		8.00 [kN/m]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Area	sar 181			153.673	69.163	21.000	PG	8.50 [kN/m2]
				167.473	69.162	27.900		8.50 [kN/m2]
				167.473	71.352	27.900		8.50 [kN/m2]
				153.673	71.352	21.000		8.50 [kN/m2]
							activated	100.00 percent

Load Case 11 G1_7

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 178			164.130	74.480	29.000	PZZ	461.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	PXX	103.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	PYY	21.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	MXX	-1.00 [kNm]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	MYX	196.00 [kNm]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PZZ	472.0 [kN]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PXX	-126.0 [kN]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PYY	51.0 [kN]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	MXX	135.00 [kNm]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	MYX	193.00 [kNm]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PZZ	413.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PXX	120.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PYY	7.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	MXX	35.00 [kNm]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	MYX	218.00 [kNm]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PZZ	427.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PXX	-108.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PYY	85.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	MXX	184.00 [kNm]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	MYX	218.00 [kNm]
							activated	100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to		Projection Designation	W[m]	Coordinates			Type	Load value
					X[m]	Y[m]	Z[m]		
Point	sar	148			180.840	107.720	29.000	PZZ	439.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PXX	119.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PYY	36.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MXX	-72.00 [kNm]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MYX	216.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PZZ	436.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PXX	-117.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PYY	39.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MXX	74.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MYX	216.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PZZ	423.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PXX	109.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PYY	82.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MXX	-71.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MYX	210.00 [kNm]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PZZ	415.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PXX	-121.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PYY	27.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	MXX	8.00 [kNm]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	MYX	210.00 [kNm]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	PZZ	473.0 [kN]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	PXX	126.0 [kN]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	PYY	42.0 [kN]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	MXX	-85.00 [kNm]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	MYX	223.00 [kNm]
							activated		100.00 percent
Point	sar	96			216.850	140.980	29.000	PZZ	461.0 [kN]
							activated		100.00 percent
Point	sar	96			216.850	140.980	29.000	PXX	-103.0 [kN]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PYY	21.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MXX	-31.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MYX	223.00 [kNm]
							activated	100.00 percent

Load Case 12 CS

Factor forces and moments 1.000

Loads acting on QUAD elements

Element			Type	Remark	Load value	Unit	Variation		
from	to	inc		Prim-LC/CC			dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-6.00	[°C]			
60001	69999	grp 6	dTxy		-24.00	[°C]			
70001	79999	grp 7	dTxy		-24.00	[°C]			
80001	89999	grp 8	dTxy		-24.00	[°C]			
90001	99999	grp 9	dTxy		-24.00	[°C]			
100001	109999	grp 10	dTxy		-24.00	[°C]			
110001	119999	grp 11	dTxy		-6.00	[°C]			
120001	129999	grp 12	dTxy		-24.00	[°C]			
150001	159999	grp 15	dTxy		-6.00	[°C]			
190001	199999	grp 19	dTxy		-24.00	[°C]			
200001	209999	grp 20	dTxy		-24.00	[°C]			
210001	219999	grp 21	dTxy		-24.00	[°C]			
220001	229999	grp 22	dTxy		-24.00	[°C]			
230001	239999	grp 23	dTxy		-6.00	[°C]			
240001	249999	grp 24	dTxy		-24.00	[°C]			
270001	279999	grp 27	dTxy		-6.00	[°C]			
280001	289999	grp 28	PG		-6.00	[kN/m2]			
320001	329999	grp 32	dTxy		-12.00	[°C]			
330001	339999	grp 33	dTxy		-12.00	[°C]			
340001	349999	grp 34	dTxy		-24.00	[°C]			
350001	359999	grp 35	dTxy		-24.00	[°C]			
360001	369999	grp 36	dTxy		-24.00	[°C]			
370001	379999	grp 37	dTxy		-24.00	[°C]			
380001	389999	grp 38	dTxy		-24.00	[°C]			
390001	399999	grp 39	dTxy		-24.00	[°C]			
400001	409999	grp 40	dTxy		-6.00	[°C]			
410001	419999	grp 41	dTxy		-24.00	[°C]			
440001	449999	grp 44	dTxy		-6.00	[°C]			
480001	489999	grp 48	dTxy		-24.00	[°C]			
490001	499999	grp 49	dTxy		-24.00	[°C]			
500001	509999	grp 50	dTxy		-24.00	[°C]			
510001	519999	grp 51	dTxy		-24.00	[°C]			
520001	529999	grp 52	dTxy		-6.00	[°C]			
530001	539999	grp 53	dTxy		-24.00	[°C]			
560001	569999	grp 56	dTxy		-6.00	[°C]			
570001	579999	grp 57	PG		-6.00	[kN/m2]			
610001	619999	grp 61	dTxy		-12.00	[°C]			
620001	629999	grp 62	dTxy		-12.00	[°C]			
630001	639999	grp 63	dTxy		-24.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
640001	649999	grp 64	dTxy		-24.00	[°C]			
650001	659999	grp 65	dTxy		-24.00	[°C]			
660001	669999	grp 66	dTxy		-24.00	[°C]			
670001	679999	grp 67	dTxy		-6.00	[°C]			
680001	689999	grp 68	dTxy		-24.00	[°C]			
700001	709999	grp 70	dTxy		-6.00	[°C]			
710001	719999	grp 71	PG		-6.00	[kN/m2]			
740001	749999	grp 74	dTxy		-12.00	[°C]			
750001	759999	grp 75	dTxy		-12.00	[°C]			
760001	769999	grp 76	dTxy		-24.00	[°C]			
770001	779999	grp 77	dTxy		-24.00	[°C]			
780001	789999	grp 78	dTxy		-24.00	[°C]			
790001	799999	grp 79	dTxy		-24.00	[°C]			
800001	809999	grp 80	dTxy		-6.00	[°C]			
810001	819999	grp 81	dTxy		-24.00	[°C]			

Load Case 13 TExp+0.75*THeat

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		7.88	[°C]			
60001	69999	grp 6	dTxy		31.50	[°C]			
60001	69999	grp 6	dTz		6.00	[°C]			
70001	79999	grp 7	dTxy		31.50	[°C]			
70001	79999	grp 7	dTz		6.00	[°C]			
80001	89999	grp 8	dTxy		31.50	[°C]			
80001	89999	grp 8	dTz		6.00	[°C]			
90001	99999	grp 9	dTxy		31.50	[°C]			
90001	99999	grp 9	dTz		6.00	[°C]			
100001	109999	grp 10	dTxy		31.50	[°C]			
100001	109999	grp 10	dTz		6.00	[°C]			
110001	119999	grp 11	dTxy		7.88	[°C]			
120001	129999	grp 12	dTxy		31.50	[°C]			
120001	129999	grp 12	dTz		6.00	[°C]			
150001	159999	grp 15	dTxy		7.88	[°C]			
190001	199999	grp 19	dTxy		31.50	[°C]			
190001	199999	grp 19	dTz		6.00	[°C]			
200001	209999	grp 20	dTxy		31.50	[°C]			
200001	209999	grp 20	dTz		6.00	[°C]			
210001	219999	grp 21	dTxy		31.50	[°C]			
210001	219999	grp 21	dTz		6.00	[°C]			
220001	229999	grp 22	dTxy		31.50	[°C]			
220001	229999	grp 22	dTz		6.00	[°C]			
230001	239999	grp 23	dTxy		7.88	[°C]			
240001	249999	grp 24	dTxy		31.50	[°C]			
240001	249999	grp 24	dTz		6.00	[°C]			
270001	279999	grp 27	dTxy		7.88	[°C]			
280001	289999	grp 28	PG		7.88	[kN/m2]			
320001	329999	grp 32	dTxy		15.75	[°C]			
330001	339999	grp 33	dTxy		15.75	[°C]			
340001	349999	grp 34	dTxy		31.50	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
340001	349999	grp 34	dTz		6.00	[°C]			
350001	359999	grp 35	dTxy		31.50	[°C]			
350001	359999	grp 35	dTz		6.00	[°C]			
360001	369999	grp 36	dTxy		31.50	[°C]			
360001	369999	grp 36	dTz		6.00	[°C]			
370001	379999	grp 37	dTxy		31.50	[°C]			
370001	379999	grp 37	dTz		6.00	[°C]			
380001	389999	grp 38	dTxy		31.50	[°C]			
380001	389999	grp 38	dTz		6.00	[°C]			
390001	399999	grp 39	dTxy		31.50	[°C]			
390001	399999	grp 39	dTz		6.00	[°C]			
400001	409999	grp 40	dTxy		7.88	[°C]			
410001	419999	grp 41	dTxy		31.50	[°C]			
410001	419999	grp 41	dTz		6.00	[°C]			
440001	449999	grp 44	dTxy		7.88	[°C]			
480001	489999	grp 48	dTxy		31.50	[°C]			
480001	489999	grp 48	dTz		6.00	[°C]			
490001	499999	grp 49	dTxy		31.50	[°C]			
490001	499999	grp 49	dTz		6.00	[°C]			
500001	509999	grp 50	dTxy		31.50	[°C]			
500001	509999	grp 50	dTz		6.00	[°C]			
510001	519999	grp 51	dTxy		31.50	[°C]			
510001	519999	grp 51	dTz		6.00	[°C]			
520001	529999	grp 52	dTxy		7.88	[°C]			
530001	539999	grp 53	dTxy		31.50	[°C]			
530001	539999	grp 53	dTz		6.00	[°C]			
560001	569999	grp 56	dTxy		7.88	[°C]			
570001	579999	grp 57	PG		7.88	[kN/m2]			
610001	619999	grp 61	dTxy		15.75	[°C]			
620001	629999	grp 62	dTxy		15.75	[°C]			
630001	639999	grp 63	dTxy		31.50	[°C]			
630001	639999	grp 63	dTz		6.00	[°C]			
640001	649999	grp 64	dTxy		31.50	[°C]			
640001	649999	grp 64	dTz		6.00	[°C]			
650001	659999	grp 65	dTxy		31.50	[°C]			
650001	659999	grp 65	dTz		6.00	[°C]			
660001	669999	grp 66	dTxy		31.50	[°C]			
660001	669999	grp 66	dTz		6.00	[°C]			
670001	679999	grp 67	dTxy		7.88	[°C]			
680001	689999	grp 68	dTxy		31.50	[°C]			
680001	689999	grp 68	dTz		6.00	[°C]			
700001	709999	grp 70	dTxy		7.88	[°C]			
710001	719999	grp 71	PG		7.88	[kN/m2]			
740001	749999	grp 74	dTxy		15.75	[°C]			
750001	759999	grp 75	dTxy		15.75	[°C]			
760001	769999	grp 76	dTxy		31.50	[°C]			
760001	769999	grp 76	dTz		6.00	[°C]			
770001	779999	grp 77	dTxy		31.50	[°C]			
770001	779999	grp 77	dTz		6.00	[°C]			
780001	789999	grp 78	dTxy		31.50	[°C]			
780001	789999	grp 78	dTz		6.00	[°C]			
790001	799999	grp 79	dTxy		31.50	[°C]			
790001	799999	grp 79	dTz		6.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
800001	809999	grp 80	dTxy		7.88	[°C]			
810001	819999	grp 81	dTxy		31.50	[°C]			
810001	819999	grp 81	dTz		6.00	[°C]			

Load Case 14 TCon+0.75*THeat

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-8.00	[°C]			
60001	69999	grp 6	dTxy		-32.00	[°C]			
60001	69999	grp 6	dTz		6.00	[°C]			
70001	79999	grp 7	dTxy		-32.00	[°C]			
70001	79999	grp 7	dTz		6.00	[°C]			
80001	89999	grp 8	dTxy		-32.00	[°C]			
80001	89999	grp 8	dTz		6.00	[°C]			
90001	99999	grp 9	dTxy		-32.00	[°C]			
90001	99999	grp 9	dTz		6.00	[°C]			
100001	109999	grp 10	dTxy		-32.00	[°C]			
100001	109999	grp 10	dTz		6.00	[°C]			
110001	119999	grp 11	dTxy		-8.00	[°C]			
120001	129999	grp 12	dTxy		-32.00	[°C]			
120001	129999	grp 12	dTz		6.00	[°C]			
150001	159999	grp 15	dTxy		-8.00	[°C]			
190001	199999	grp 19	dTxy		-32.00	[°C]			
190001	199999	grp 19	dTz		6.00	[°C]			
200001	209999	grp 20	dTxy		-32.00	[°C]			
200001	209999	grp 20	dTz		6.00	[°C]			
210001	219999	grp 21	dTxy		-32.00	[°C]			
210001	219999	grp 21	dTz		6.00	[°C]			
220001	229999	grp 22	dTxy		-32.00	[°C]			
220001	229999	grp 22	dTz		6.00	[°C]			
230001	239999	grp 23	dTxy		-8.00	[°C]			
240001	249999	grp 24	dTxy		-32.00	[°C]			
240001	249999	grp 24	dTz		6.00	[°C]			
270001	279999	grp 27	dTxy		-8.00	[°C]			
280001	289999	grp 28	PG		-8.00	[kN/m2]			
320001	329999	grp 32	dTxy		-16.00	[°C]			
330001	339999	grp 33	dTxy		-16.00	[°C]			
340001	349999	grp 34	dTxy		-32.00	[°C]			
340001	349999	grp 34	dTz		6.00	[°C]			
350001	359999	grp 35	dTxy		-32.00	[°C]			
350001	359999	grp 35	dTz		6.00	[°C]			
360001	369999	grp 36	dTxy		-32.00	[°C]			
360001	369999	grp 36	dTz		6.00	[°C]			
370001	379999	grp 37	dTxy		-32.00	[°C]			
370001	379999	grp 37	dTz		6.00	[°C]			
380001	389999	grp 38	dTxy		-32.00	[°C]			
380001	389999	grp 38	dTz		6.00	[°C]			
390001	399999	grp 39	dTxy		-32.00	[°C]			
390001	399999	grp 39	dTz		6.00	[°C]			
400001	409999	grp 40	dTxy		-8.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
410001	419999	grp 41	dTxy		-32.00	[°C]			
410001	419999	grp 41	dTz		6.00	[°C]			
440001	449999	grp 44	dTxy		-8.00	[°C]			
480001	489999	grp 48	dTxy		-32.00	[°C]			
480001	489999	grp 48	dTz		6.00	[°C]			
490001	499999	grp 49	dTxy		-32.00	[°C]			
490001	499999	grp 49	dTz		6.00	[°C]			
500001	509999	grp 50	dTxy		-32.00	[°C]			
500001	509999	grp 50	dTz		6.00	[°C]			
510001	519999	grp 51	dTxy		-32.00	[°C]			
510001	519999	grp 51	dTz		6.00	[°C]			
520001	529999	grp 52	dTxy		-8.00	[°C]			
530001	539999	grp 53	dTxy		-32.00	[°C]			
530001	539999	grp 53	dTz		6.00	[°C]			
560001	569999	grp 56	dTxy		-8.00	[°C]			
570001	579999	grp 57	PG		-8.00	[kN/m2]			
610001	619999	grp 61	dTxy		-16.00	[°C]			
620001	629999	grp 62	dTxy		-16.00	[°C]			
630001	639999	grp 63	dTxy		-32.00	[°C]			
630001	639999	grp 63	dTz		6.00	[°C]			
640001	649999	grp 64	dTxy		-32.00	[°C]			
640001	649999	grp 64	dTz		6.00	[°C]			
650001	659999	grp 65	dTxy		-32.00	[°C]			
650001	659999	grp 65	dTz		6.00	[°C]			
660001	669999	grp 66	dTxy		-32.00	[°C]			
660001	669999	grp 66	dTz		6.00	[°C]			
670001	679999	grp 67	dTxy		-8.00	[°C]			
680001	689999	grp 68	dTxy		-32.00	[°C]			
680001	689999	grp 68	dTz		6.00	[°C]			
700001	709999	grp 70	dTxy		-8.00	[°C]			
710001	719999	grp 71	PG		-8.00	[kN/m2]			
740001	749999	grp 74	dTxy		-16.00	[°C]			
750001	759999	grp 75	dTxy		-16.00	[°C]			
760001	769999	grp 76	dTxy		-32.00	[°C]			
760001	769999	grp 76	dTz		6.00	[°C]			
770001	779999	grp 77	dTxy		-32.00	[°C]			
770001	779999	grp 77	dTz		6.00	[°C]			
780001	789999	grp 78	dTxy		-32.00	[°C]			
780001	789999	grp 78	dTz		6.00	[°C]			
790001	799999	grp 79	dTxy		-32.00	[°C]			
790001	799999	grp 79	dTz		6.00	[°C]			
800001	809999	grp 80	dTxy		-8.00	[°C]			
810001	819999	grp 81	dTxy		-32.00	[°C]			
810001	819999	grp 81	dTz		6.00	[°C]			

Load Case 15 TCon+0.75*TCool

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-8.00	[°C]			
60001	69999	grp 6	dTxy		-32.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element				Type	Remark	Load value	Unit	Variation		
from	to	inc			Prim-LC/CC			dP/dX	dP/dY	dP/dZ
60001	69999	grp	6	dTz		-6.00	[°C]			
70001	79999	grp	7	dTxy		-32.00	[°C]			
70001	79999	grp	7	dTz		-6.00	[°C]			
80001	89999	grp	8	dTxy		-32.00	[°C]			
80001	89999	grp	8	dTz		-6.00	[°C]			
90001	99999	grp	9	dTxy		-32.00	[°C]			
90001	99999	grp	9	dTz		-6.00	[°C]			
100001	109999	grp	10	dTxy		-32.00	[°C]			
100001	109999	grp	10	dTz		-6.00	[°C]			
110001	119999	grp	11	dTxy		-8.00	[°C]			
120001	129999	grp	12	dTxy		-32.00	[°C]			
120001	129999	grp	12	dTz		-6.00	[°C]			
150001	159999	grp	15	dTxy		-8.00	[°C]			
190001	199999	grp	19	dTxy		-32.00	[°C]			
190001	199999	grp	19	dTz		-6.00	[°C]			
200001	209999	grp	20	dTxy		-32.00	[°C]			
200001	209999	grp	20	dTz		-6.00	[°C]			
210001	219999	grp	21	dTxy		-32.00	[°C]			
210001	219999	grp	21	dTz		-6.00	[°C]			
220001	229999	grp	22	dTxy		-32.00	[°C]			
220001	229999	grp	22	dTz		-6.00	[°C]			
230001	239999	grp	23	dTxy		-8.00	[°C]			
240001	249999	grp	24	dTxy		-32.00	[°C]			
240001	249999	grp	24	dTz		-6.00	[°C]			
270001	279999	grp	27	dTxy		-8.00	[°C]			
280001	289999	grp	28	PG		-8.00	[kN/m2]			
320001	329999	grp	32	dTxy		-16.00	[°C]			
330001	339999	grp	33	dTxy		-16.00	[°C]			
340001	349999	grp	34	dTxy		-32.00	[°C]			
340001	349999	grp	34	dTz		-6.00	[°C]			
350001	359999	grp	35	dTxy		-32.00	[°C]			
350001	359999	grp	35	dTz		-6.00	[°C]			
360001	369999	grp	36	dTxy		-32.00	[°C]			
360001	369999	grp	36	dTz		-6.00	[°C]			
370001	379999	grp	37	dTxy		-32.00	[°C]			
370001	379999	grp	37	dTz		-6.00	[°C]			
380001	389999	grp	38	dTxy		-32.00	[°C]			
380001	389999	grp	38	dTz		-6.00	[°C]			
390001	399999	grp	39	dTxy		-32.00	[°C]			
390001	399999	grp	39	dTz		-6.00	[°C]			
400001	409999	grp	40	dTxy		-8.00	[°C]			
410001	419999	grp	41	dTxy		-32.00	[°C]			
410001	419999	grp	41	dTz		-6.00	[°C]			
440001	449999	grp	44	dTxy		-8.00	[°C]			
480001	489999	grp	48	dTxy		-32.00	[°C]			
480001	489999	grp	48	dTz		-6.00	[°C]			
490001	499999	grp	49	dTxy		-32.00	[°C]			
490001	499999	grp	49	dTz		-6.00	[°C]			
500001	509999	grp	50	dTxy		-32.00	[°C]			
500001	509999	grp	50	dTz		-6.00	[°C]			
510001	519999	grp	51	dTxy		-32.00	[°C]			
510001	519999	grp	51	dTz		-6.00	[°C]			
520001	529999	grp	52	dTxy		-8.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
530001	539999	grp 53	dTxy		-32.00	[°C]			
530001	539999	grp 53	dTz		-6.00	[°C]			
560001	569999	grp 56	dTxy		-8.00	[°C]			
570001	579999	grp 57	PG		-8.00	[kN/m2]			
610001	619999	grp 61	dTxy		-16.00	[°C]			
620001	629999	grp 62	dTxy		-16.00	[°C]			
630001	639999	grp 63	dTxy		-32.00	[°C]			
630001	639999	grp 63	dTz		-6.00	[°C]			
640001	649999	grp 64	dTxy		-32.00	[°C]			
640001	649999	grp 64	dTz		-6.00	[°C]			
650001	659999	grp 65	dTxy		-32.00	[°C]			
650001	659999	grp 65	dTz		-6.00	[°C]			
660001	669999	grp 66	dTxy		-32.00	[°C]			
660001	669999	grp 66	dTz		-6.00	[°C]			
670001	679999	grp 67	dTxy		-8.00	[°C]			
680001	689999	grp 68	dTxy		-32.00	[°C]			
680001	689999	grp 68	dTz		-6.00	[°C]			
700001	709999	grp 70	dTxy		-8.00	[°C]			
710001	719999	grp 71	PG		-8.00	[kN/m2]			
740001	749999	grp 74	dTxy		-16.00	[°C]			
750001	759999	grp 75	dTxy		-16.00	[°C]			
760001	769999	grp 76	dTxy		-32.00	[°C]			
760001	769999	grp 76	dTz		-6.00	[°C]			
770001	779999	grp 77	dTxy		-32.00	[°C]			
770001	779999	grp 77	dTz		-6.00	[°C]			
780001	789999	grp 78	dTxy		-32.00	[°C]			
780001	789999	grp 78	dTz		-6.00	[°C]			
790001	799999	grp 79	dTxy		-32.00	[°C]			
790001	799999	grp 79	dTz		-6.00	[°C]			
800001	809999	grp 80	dTxy		-8.00	[°C]			
810001	819999	grp 81	dTxy		-32.00	[°C]			
810001	819999	grp 81	dTz		-6.00	[°C]			

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Load Case 16 TCon+0.75*TCool

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-8.00	[°C]			
60001	69999	grp 6	dTxy		-32.00	[°C]			
60001	69999	grp 6	dTz		-6.00	[°C]			
70001	79999	grp 7	dTxy		-32.00	[°C]			
70001	79999	grp 7	dTz		-6.00	[°C]			
80001	89999	grp 8	dTxy		-32.00	[°C]			
80001	89999	grp 8	dTz		-6.00	[°C]			
90001	99999	grp 9	dTxy		-32.00	[°C]			
90001	99999	grp 9	dTz		-6.00	[°C]			
100001	109999	grp 10	dTxy		-32.00	[°C]			
100001	109999	grp 10	dTz		-6.00	[°C]			
110001	119999	grp 11	dTxy		-8.00	[°C]			
120001	129999	grp 12	dTxy		-32.00	[°C]			
120001	129999	grp 12	dTz		-6.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
150001	159999	grp 15	dTxy		-8.00	[°C]			
190001	199999	grp 19	dTxy		-32.00	[°C]			
190001	199999	grp 19	dTz		-6.00	[°C]			
200001	209999	grp 20	dTxy		-32.00	[°C]			
200001	209999	grp 20	dTz		-6.00	[°C]			
210001	219999	grp 21	dTxy		-32.00	[°C]			
210001	219999	grp 21	dTz		-6.00	[°C]			
220001	229999	grp 22	dTxy		-32.00	[°C]			
220001	229999	grp 22	dTz		-6.00	[°C]			
230001	239999	grp 23	dTxy		-8.00	[°C]			
240001	249999	grp 24	dTxy		-32.00	[°C]			
240001	249999	grp 24	dTz		-6.00	[°C]			
270001	279999	grp 27	dTxy		-8.00	[°C]			
280001	289999	grp 28	PG		-8.00	[kN/m2]			
320001	329999	grp 32	dTxy		-16.00	[°C]			
330001	339999	grp 33	dTxy		-16.00	[°C]			
340001	349999	grp 34	dTxy		-32.00	[°C]			
340001	349999	grp 34	dTz		-6.00	[°C]			
350001	359999	grp 35	dTxy		-32.00	[°C]			
350001	359999	grp 35	dTz		-6.00	[°C]			
360001	369999	grp 36	dTxy		-32.00	[°C]			
360001	369999	grp 36	dTz		-6.00	[°C]			
370001	379999	grp 37	dTxy		-32.00	[°C]			
370001	379999	grp 37	dTz		-6.00	[°C]			
380001	389999	grp 38	dTxy		-32.00	[°C]			
380001	389999	grp 38	dTz		-6.00	[°C]			
390001	399999	grp 39	dTxy		-32.00	[°C]			
390001	399999	grp 39	dTz		-6.00	[°C]			
400001	409999	grp 40	dTxy		-8.00	[°C]			
410001	419999	grp 41	dTxy		-32.00	[°C]			
410001	419999	grp 41	dTz		-6.00	[°C]			
440001	449999	grp 44	dTxy		-8.00	[°C]			
480001	489999	grp 48	dTxy		-32.00	[°C]			
480001	489999	grp 48	dTz		-6.00	[°C]			
490001	499999	grp 49	dTxy		-32.00	[°C]			
490001	499999	grp 49	dTz		-6.00	[°C]			
500001	509999	grp 50	dTxy		-32.00	[°C]			
500001	509999	grp 50	dTz		-6.00	[°C]			
510001	519999	grp 51	dTxy		-32.00	[°C]			
510001	519999	grp 51	dTz		-6.00	[°C]			
520001	529999	grp 52	dTxy		-8.00	[°C]			
530001	539999	grp 53	dTxy		-32.00	[°C]			
530001	539999	grp 53	dTz		-6.00	[°C]			
560001	569999	grp 56	dTxy		-8.00	[°C]			
570001	579999	grp 57	PG		-8.00	[kN/m2]			
610001	619999	grp 61	dTxy		-16.00	[°C]			
620001	629999	grp 62	dTxy		-16.00	[°C]			
630001	639999	grp 63	dTxy		-32.00	[°C]			
630001	639999	grp 63	dTz		-6.00	[°C]			
640001	649999	grp 64	dTxy		-32.00	[°C]			
640001	649999	grp 64	dTz		-6.00	[°C]			
650001	659999	grp 65	dTxy		-32.00	[°C]			
650001	659999	grp 65	dTz		-6.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
660001	669999	grp 66	dTxy		-32.00	[°C]			
660001	669999	grp 66	dTz		-6.00	[°C]			
670001	679999	grp 67	dTxy		-8.00	[°C]			
680001	689999	grp 68	dTxy		-32.00	[°C]			
680001	689999	grp 68	dTz		-6.00	[°C]			
700001	709999	grp 70	dTxy		-8.00	[°C]			
710001	719999	grp 71	PG		-8.00	[kN/m2]			
740001	749999	grp 74	dTxy		-16.00	[°C]			
750001	759999	grp 75	dTxy		-16.00	[°C]			
760001	769999	grp 76	dTxy		-32.00	[°C]			
760001	769999	grp 76	dTz		-6.00	[°C]			
770001	779999	grp 77	dTxy		-32.00	[°C]			
770001	779999	grp 77	dTz		-6.00	[°C]			
780001	789999	grp 78	dTxy		-32.00	[°C]			
780001	789999	grp 78	dTz		-6.00	[°C]			
790001	799999	grp 79	dTxy		-32.00	[°C]			
790001	799999	grp 79	dTz		-6.00	[°C]			
800001	809999	grp 80	dTxy		-8.00	[°C]			
810001	819999	grp 81	dTxy		-32.00	[°C]			
810001	819999	grp 81	dTz		-6.00	[°C]			

Load Case 17 TExp*0.35+THeat

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		2.76	[°C]			
60001	69999	grp 6	dTxy		11.02	[°C]			
60001	69999	grp 6	dTz		8.00	[°C]			
70001	79999	grp 7	dTxy		11.02	[°C]			
70001	79999	grp 7	dTz		8.00	[°C]			
80001	89999	grp 8	dTxy		11.02	[°C]			
80001	89999	grp 8	dTz		8.00	[°C]			
90001	99999	grp 9	dTxy		11.02	[°C]			
90001	99999	grp 9	dTz		8.00	[°C]			
100001	109999	grp 10	dTxy		11.02	[°C]			
100001	109999	grp 10	dTz		8.00	[°C]			
110001	119999	grp 11	dTxy		2.76	[°C]			
120001	129999	grp 12	dTxy		11.02	[°C]			
120001	129999	grp 12	dTz		8.00	[°C]			
150001	159999	grp 15	dTxy		2.76	[°C]			
190001	199999	grp 19	dTxy		11.02	[°C]			
190001	199999	grp 19	dTz		8.00	[°C]			
200001	209999	grp 20	dTxy		11.02	[°C]			
200001	209999	grp 20	dTz		8.00	[°C]			
210001	219999	grp 21	dTxy		11.02	[°C]			
210001	219999	grp 21	dTz		8.00	[°C]			
220001	229999	grp 22	dTxy		11.02	[°C]			
220001	229999	grp 22	dTz		8.00	[°C]			
230001	239999	grp 23	dTxy		2.76	[°C]			
240001	249999	grp 24	dTxy		11.02	[°C]			
240001	249999	grp 24	dTz		8.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
270001	279999	grp 27	dTxy		2.76	[°C]			
280001	289999	grp 28	PG		2.76	[kN/m2]			
320001	329999	grp 32	dTxy		5.51	[°C]			
330001	339999	grp 33	dTxy		5.51	[°C]			
340001	349999	grp 34	dTxy		11.02	[°C]			
340001	349999	grp 34	dTz		8.00	[°C]			
350001	359999	grp 35	dTxy		11.02	[°C]			
350001	359999	grp 35	dTz		8.00	[°C]			
360001	369999	grp 36	dTxy		11.02	[°C]			
360001	369999	grp 36	dTz		8.00	[°C]			
370001	379999	grp 37	dTxy		11.02	[°C]			
370001	379999	grp 37	dTz		8.00	[°C]			
380001	389999	grp 38	dTxy		11.02	[°C]			
380001	389999	grp 38	dTz		8.00	[°C]			
390001	399999	grp 39	dTxy		11.02	[°C]			
390001	399999	grp 39	dTz		8.00	[°C]			
400001	409999	grp 40	dTxy		2.76	[°C]			
410001	419999	grp 41	dTxy		11.02	[°C]			
410001	419999	grp 41	dTz		8.00	[°C]			
440001	449999	grp 44	dTxy		2.76	[°C]			
480001	489999	grp 48	dTxy		11.02	[°C]			
480001	489999	grp 48	dTz		8.00	[°C]			
490001	499999	grp 49	dTxy		11.02	[°C]			
490001	499999	grp 49	dTz		8.00	[°C]			
500001	509999	grp 50	dTxy		11.02	[°C]			
500001	509999	grp 50	dTz		8.00	[°C]			
510001	519999	grp 51	dTxy		11.02	[°C]			
510001	519999	grp 51	dTz		8.00	[°C]			
520001	529999	grp 52	dTxy		2.76	[°C]			
530001	539999	grp 53	dTxy		11.02	[°C]			
530001	539999	grp 53	dTz		8.00	[°C]			
560001	569999	grp 56	dTxy		2.76	[°C]			
570001	579999	grp 57	PG		2.76	[kN/m2]			
610001	619999	grp 61	dTxy		5.51	[°C]			
620001	629999	grp 62	dTxy		5.51	[°C]			
630001	639999	grp 63	dTxy		11.02	[°C]			
630001	639999	grp 63	dTz		8.00	[°C]			
640001	649999	grp 64	dTxy		11.02	[°C]			
640001	649999	grp 64	dTz		8.00	[°C]			
650001	659999	grp 65	dTxy		11.02	[°C]			
650001	659999	grp 65	dTz		8.00	[°C]			
660001	669999	grp 66	dTxy		11.02	[°C]			
660001	669999	grp 66	dTz		8.00	[°C]			
670001	679999	grp 67	dTxy		2.76	[°C]			
680001	689999	grp 68	dTxy		11.02	[°C]			
680001	689999	grp 68	dTz		8.00	[°C]			
700001	709999	grp 70	dTxy		2.76	[°C]			
710001	719999	grp 71	PG		2.76	[kN/m2]			
740001	749999	grp 74	dTxy		5.51	[°C]			
750001	759999	grp 75	dTxy		5.51	[°C]			
760001	769999	grp 76	dTxy		11.02	[°C]			
760001	769999	grp 76	dTz		8.00	[°C]			
770001	779999	grp 77	dTxy		11.02	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
770001	779999	grp 77	dTz		8.00	[°C]			
780001	789999	grp 78	dTxy		11.02	[°C]			
780001	789999	grp 78	dTz		8.00	[°C]			
790001	799999	grp 79	dTxy		11.02	[°C]			
790001	799999	grp 79	dTz		8.00	[°C]			
800001	809999	grp 80	dTxy		2.76	[°C]			
810001	819999	grp 81	dTxy		11.02	[°C]			
810001	819999	grp 81	dTz		8.00	[°C]			

Load Case 18 TCon*0.35+Theat

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-2.80	[°C]			
60001	69999	grp 6	dTxy		-11.20	[°C]			
60001	69999	grp 6	dTz		8.00	[°C]			
70001	79999	grp 7	dTxy		-11.20	[°C]			
70001	79999	grp 7	dTz		8.00	[°C]			
80001	89999	grp 8	dTxy		-11.20	[°C]			
80001	89999	grp 8	dTz		8.00	[°C]			
90001	99999	grp 9	dTxy		-11.20	[°C]			
90001	99999	grp 9	dTz		8.00	[°C]			
100001	109999	grp 10	dTxy		-11.20	[°C]			
100001	109999	grp 10	dTz		8.00	[°C]			
110001	119999	grp 11	dTxy		-2.80	[°C]			
120001	129999	grp 12	dTxy		-11.20	[°C]			
120001	129999	grp 12	dTz		8.00	[°C]			
150001	159999	grp 15	dTxy		-2.80	[°C]			
190001	199999	grp 19	dTxy		-11.20	[°C]			
190001	199999	grp 19	dTz		8.00	[°C]			
200001	209999	grp 20	dTxy		-11.20	[°C]			
200001	209999	grp 20	dTz		8.00	[°C]			
210001	219999	grp 21	dTxy		-11.20	[°C]			
210001	219999	grp 21	dTz		8.00	[°C]			
220001	229999	grp 22	dTxy		-11.20	[°C]			
220001	229999	grp 22	dTz		8.00	[°C]			
230001	239999	grp 23	dTxy		-2.80	[°C]			
240001	249999	grp 24	dTxy		-11.20	[°C]			
240001	249999	grp 24	dTz		8.00	[°C]			
270001	279999	grp 27	dTxy		-2.80	[°C]			
280001	289999	grp 28	PG		-2.80	[kN/m2]			
320001	329999	grp 32	dTxy		-5.60	[°C]			
330001	339999	grp 33	dTxy		-5.60	[°C]			
340001	349999	grp 34	dTxy		-11.20	[°C]			
340001	349999	grp 34	dTz		8.00	[°C]			
350001	359999	grp 35	dTxy		-11.20	[°C]			
350001	359999	grp 35	dTz		8.00	[°C]			
360001	369999	grp 36	dTxy		-11.20	[°C]			
360001	369999	grp 36	dTz		8.00	[°C]			
370001	379999	grp 37	dTxy		-11.20	[°C]			
370001	379999	grp 37	dTz		8.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
380001	389999	grp 38	dTxy		-11.20	[°C]			
380001	389999	grp 38	dTz		8.00	[°C]			
390001	399999	grp 39	dTxy		-11.20	[°C]			
390001	399999	grp 39	dTz		8.00	[°C]			
400001	409999	grp 40	dTxy		-2.80	[°C]			
410001	419999	grp 41	dTxy		-11.20	[°C]			
410001	419999	grp 41	dTz		8.00	[°C]			
440001	449999	grp 44	dTxy		-2.80	[°C]			
480001	489999	grp 48	dTxy		-11.20	[°C]			
480001	489999	grp 48	dTz		8.00	[°C]			
490001	499999	grp 49	dTxy		-11.20	[°C]			
490001	499999	grp 49	dTz		8.00	[°C]			
500001	509999	grp 50	dTxy		-11.20	[°C]			
500001	509999	grp 50	dTz		8.00	[°C]			
510001	519999	grp 51	dTxy		-11.20	[°C]			
510001	519999	grp 51	dTz		8.00	[°C]			
520001	529999	grp 52	dTxy		-2.80	[°C]			
530001	539999	grp 53	dTxy		-11.20	[°C]			
530001	539999	grp 53	dTz		8.00	[°C]			
560001	569999	grp 56	dTxy		-2.80	[°C]			
570001	579999	grp 57	PG		-2.80	[kN/m2]			
610001	619999	grp 61	dTxy		-5.60	[°C]			
620001	629999	grp 62	dTxy		-5.60	[°C]			
630001	639999	grp 63	dTxy		-11.20	[°C]			
630001	639999	grp 63	dTz		8.00	[°C]			
640001	649999	grp 64	dTxy		-11.20	[°C]			
640001	649999	grp 64	dTz		8.00	[°C]			
650001	659999	grp 65	dTxy		-11.20	[°C]			
650001	659999	grp 65	dTz		8.00	[°C]			
660001	669999	grp 66	dTxy		-11.20	[°C]			
660001	669999	grp 66	dTz		8.00	[°C]			
670001	679999	grp 67	dTxy		-2.80	[°C]			
680001	689999	grp 68	dTxy		-11.20	[°C]			
680001	689999	grp 68	dTz		8.00	[°C]			
700001	709999	grp 70	dTxy		-2.80	[°C]			
710001	719999	grp 71	PG		-2.80	[kN/m2]			
740001	749999	grp 74	dTxy		-5.60	[°C]			
750001	759999	grp 75	dTxy		-5.60	[°C]			
760001	769999	grp 76	dTxy		-11.20	[°C]			
760001	769999	grp 76	dTz		8.00	[°C]			
770001	779999	grp 77	dTxy		-11.20	[°C]			
770001	779999	grp 77	dTz		8.00	[°C]			
780001	789999	grp 78	dTxy		-11.20	[°C]			
780001	789999	grp 78	dTz		8.00	[°C]			
790001	799999	grp 79	dTxy		-11.20	[°C]			
790001	799999	grp 79	dTz		8.00	[°C]			
800001	809999	grp 80	dTxy		-2.80	[°C]			
810001	819999	grp 81	dTxy		-11.20	[°C]			
810001	819999	grp 81	dTz		8.00	[°C]			

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Load Case 19 TExp*0.35+TCool

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads acting on QUAD elements

Element				Type	Remark	Load value	Unit	Variation		
from	to	inc			Prim-LC/CC			dP/dX	dP/dY	dP/dZ
20001	29999	grp	2	dTxy		2.76	[°C]			
60001	69999	grp	6	dTxy		11.02	[°C]			
60001	69999	grp	6	dTz		-8.00	[°C]			
70001	79999	grp	7	dTxy		11.02	[°C]			
70001	79999	grp	7	dTz		-8.00	[°C]			
80001	89999	grp	8	dTxy		11.02	[°C]			
80001	89999	grp	8	dTz		-8.00	[°C]			
90001	99999	grp	9	dTxy		11.02	[°C]			
90001	99999	grp	9	dTz		-8.00	[°C]			
100001	109999	grp	10	dTxy		11.02	[°C]			
100001	109999	grp	10	dTz		-8.00	[°C]			
110001	119999	grp	11	dTxy		2.76	[°C]			
120001	129999	grp	12	dTxy		11.02	[°C]			
120001	129999	grp	12	dTz		-8.00	[°C]			
150001	159999	grp	15	dTxy		2.76	[°C]			
190001	199999	grp	19	dTxy		11.02	[°C]			
190001	199999	grp	19	dTz		-8.00	[°C]			
200001	209999	grp	20	dTxy		11.02	[°C]			
200001	209999	grp	20	dTz		-8.00	[°C]			
210001	219999	grp	21	dTxy		11.02	[°C]			
210001	219999	grp	21	dTz		-8.00	[°C]			
220001	229999	grp	22	dTxy		11.02	[°C]			
220001	229999	grp	22	dTz		-8.00	[°C]			
230001	239999	grp	23	dTxy		2.76	[°C]			
240001	249999	grp	24	dTxy		11.02	[°C]			
240001	249999	grp	24	dTz		-8.00	[°C]			
270001	279999	grp	27	dTxy		2.76	[°C]			
280001	289999	grp	28	PG		2.76	[kN/m2]			
320001	329999	grp	32	dTxy		5.51	[°C]			
330001	339999	grp	33	dTxy		5.51	[°C]			
340001	349999	grp	34	dTxy		11.02	[°C]			
340001	349999	grp	34	dTz		-8.00	[°C]			
350001	359999	grp	35	dTxy		11.02	[°C]			
350001	359999	grp	35	dTz		-8.00	[°C]			
360001	369999	grp	36	dTxy		11.02	[°C]			
360001	369999	grp	36	dTz		-8.00	[°C]			
370001	379999	grp	37	dTxy		11.02	[°C]			
370001	379999	grp	37	dTz		-8.00	[°C]			
380001	389999	grp	38	dTxy		11.02	[°C]			
380001	389999	grp	38	dTz		-8.00	[°C]			
390001	399999	grp	39	dTxy		11.02	[°C]			
390001	399999	grp	39	dTz		-8.00	[°C]			
400001	409999	grp	40	dTxy		2.76	[°C]			
410001	419999	grp	41	dTxy		11.02	[°C]			
410001	419999	grp	41	dTz		-8.00	[°C]			
440001	449999	grp	44	dTxy		2.76	[°C]			
480001	489999	grp	48	dTxy		11.02	[°C]			
480001	489999	grp	48	dTz		-8.00	[°C]			
490001	499999	grp	49	dTxy		11.02	[°C]			
490001	499999	grp	49	dTz		-8.00	[°C]			
500001	509999	grp	50	dTxy		11.02	[°C]			
500001	509999	grp	50	dTz		-8.00	[°C]			
510001	519999	grp	51	dTxy		11.02	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
510001	519999	grp 51	dTz		-8.00	[°C]			
520001	529999	grp 52	dTxy		2.76	[°C]			
530001	539999	grp 53	dTxy		11.02	[°C]			
530001	539999	grp 53	dTz		-8.00	[°C]			
560001	569999	grp 56	dTxy		2.76	[°C]			
570001	579999	grp 57	PG		2.76	[kN/m2]			
610001	619999	grp 61	dTxy		5.51	[°C]			
620001	629999	grp 62	dTxy		5.51	[°C]			
630001	639999	grp 63	dTxy		11.02	[°C]			
630001	639999	grp 63	dTz		-8.00	[°C]			
640001	649999	grp 64	dTxy		11.02	[°C]			
640001	649999	grp 64	dTz		-8.00	[°C]			
650001	659999	grp 65	dTxy		11.02	[°C]			
650001	659999	grp 65	dTz		-8.00	[°C]			
660001	669999	grp 66	dTxy		11.02	[°C]			
660001	669999	grp 66	dTz		-8.00	[°C]			
670001	679999	grp 67	dTxy		2.76	[°C]			
680001	689999	grp 68	dTxy		11.02	[°C]			
680001	689999	grp 68	dTz		-8.00	[°C]			
700001	709999	grp 70	dTxy		2.76	[°C]			
710001	719999	grp 71	PG		2.76	[kN/m2]			
740001	749999	grp 74	dTxy		5.51	[°C]			
750001	759999	grp 75	dTxy		5.51	[°C]			
760001	769999	grp 76	dTxy		11.02	[°C]			
760001	769999	grp 76	dTz		-8.00	[°C]			
770001	779999	grp 77	dTxy		11.02	[°C]			
770001	779999	grp 77	dTz		-8.00	[°C]			
780001	789999	grp 78	dTxy		11.02	[°C]			
780001	789999	grp 78	dTz		-8.00	[°C]			
790001	799999	grp 79	dTxy		11.02	[°C]			
790001	799999	grp 79	dTz		-8.00	[°C]			
800001	809999	grp 80	dTxy		2.76	[°C]			
810001	819999	grp 81	dTxy		11.02	[°C]			
810001	819999	grp 81	dTz		-8.00	[°C]			

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Load Case 20 TCon*0.35+TCool

Factor forces and moments 1.000

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
20001	29999	grp 2	dTxy		-2.80	[°C]			
60001	69999	grp 6	dTxy		-11.20	[°C]			
60001	69999	grp 6	dTz		-8.00	[°C]			
70001	79999	grp 7	dTxy		-11.20	[°C]			
70001	79999	grp 7	dTz		-8.00	[°C]			
80001	89999	grp 8	dTxy		-11.20	[°C]			
80001	89999	grp 8	dTz		-8.00	[°C]			
90001	99999	grp 9	dTxy		-11.20	[°C]			
90001	99999	grp 9	dTz		-8.00	[°C]			
100001	109999	grp 10	dTxy		-11.20	[°C]			
100001	109999	grp 10	dTz		-8.00	[°C]			
110001	119999	grp 11	dTxy		-2.80	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element				Type	Remark Prim-LC/CC	Load value	Unit	Variation		
from	to	inc						dP/dX	dP/dY	dP/dZ
120001	129999	grp 12	dTxy			-11.20	[°C]			
120001	129999	grp 12	dTz			-8.00	[°C]			
150001	159999	grp 15	dTxy			-2.80	[°C]			
190001	199999	grp 19	dTxy			-11.20	[°C]			
190001	199999	grp 19	dTz			-8.00	[°C]			
200001	209999	grp 20	dTxy			-11.20	[°C]			
200001	209999	grp 20	dTz			-8.00	[°C]			
210001	219999	grp 21	dTxy			-11.20	[°C]			
210001	219999	grp 21	dTz			-8.00	[°C]			
220001	229999	grp 22	dTxy			-11.20	[°C]			
220001	229999	grp 22	dTz			-8.00	[°C]			
230001	239999	grp 23	dTxy			-2.80	[°C]			
240001	249999	grp 24	dTxy			-11.20	[°C]			
240001	249999	grp 24	dTz			-8.00	[°C]			
270001	279999	grp 27	dTxy			-2.80	[°C]			
280001	289999	grp 28	PG			-2.80	[kN/m2]			
320001	329999	grp 32	dTxy			-5.60	[°C]			
330001	339999	grp 33	dTxy			-5.60	[°C]			
340001	349999	grp 34	dTxy			-11.20	[°C]			
340001	349999	grp 34	dTz			-8.00	[°C]			
350001	359999	grp 35	dTxy			-11.20	[°C]			
350001	359999	grp 35	dTz			-8.00	[°C]			
360001	369999	grp 36	dTxy			-11.20	[°C]			
360001	369999	grp 36	dTz			-8.00	[°C]			
370001	379999	grp 37	dTxy			-11.20	[°C]			
370001	379999	grp 37	dTz			-8.00	[°C]			
380001	389999	grp 38	dTxy			-11.20	[°C]			
380001	389999	grp 38	dTz			-8.00	[°C]			
390001	399999	grp 39	dTxy			-11.20	[°C]			
390001	399999	grp 39	dTz			-8.00	[°C]			
400001	409999	grp 40	dTxy			-2.80	[°C]			
410001	419999	grp 41	dTxy			-11.20	[°C]			
410001	419999	grp 41	dTz			-8.00	[°C]			
440001	449999	grp 44	dTxy			-2.80	[°C]			
480001	489999	grp 48	dTxy			-11.20	[°C]			
480001	489999	grp 48	dTz			-8.00	[°C]			
490001	499999	grp 49	dTxy			-11.20	[°C]			
490001	499999	grp 49	dTz			-8.00	[°C]			
500001	509999	grp 50	dTxy			-11.20	[°C]			
500001	509999	grp 50	dTz			-8.00	[°C]			
510001	519999	grp 51	dTxy			-11.20	[°C]			
510001	519999	grp 51	dTz			-8.00	[°C]			
520001	529999	grp 52	dTxy			-2.80	[°C]			
530001	539999	grp 53	dTxy			-11.20	[°C]			
530001	539999	grp 53	dTz			-8.00	[°C]			
560001	569999	grp 56	dTxy			-2.80	[°C]			
570001	579999	grp 57	PG			-2.80	[kN/m2]			
610001	619999	grp 61	dTxy			-5.60	[°C]			
620001	629999	grp 62	dTxy			-5.60	[°C]			
630001	639999	grp 63	dTxy			-11.20	[°C]			
630001	639999	grp 63	dTz			-8.00	[°C]			
640001	649999	grp 64	dTxy			-11.20	[°C]			
640001	649999	grp 64	dTz			-8.00	[°C]			

Geometry definition

Loads definition

Loads acting on QUAD elements

Element from	to	inc	Type	Remark Prim-LC/CC	Load value	Unit	Variation dP/dX	dP/dY	dP/dZ
650001	659999	grp 65	dTxy		-11.20	[°C]			
650001	659999	grp 65	dTz		-8.00	[°C]			
660001	669999	grp 66	dTxy		-11.20	[°C]			
660001	669999	grp 66	dTz		-8.00	[°C]			
670001	679999	grp 67	dTxy		-2.80	[°C]			
680001	689999	grp 68	dTxy		-11.20	[°C]			
680001	689999	grp 68	dTz		-8.00	[°C]			
700001	709999	grp 70	dTxy		-2.80	[°C]			
710001	719999	grp 71	PG		-2.80	[kN/m2]			
740001	749999	grp 74	dTxy		-5.60	[°C]			
750001	759999	grp 75	dTxy		-5.60	[°C]			
760001	769999	grp 76	dTxy		-11.20	[°C]			
760001	769999	grp 76	dTz		-8.00	[°C]			
770001	779999	grp 77	dTxy		-11.20	[°C]			
770001	779999	grp 77	dTz		-8.00	[°C]			
780001	789999	grp 78	dTxy		-11.20	[°C]			
780001	789999	grp 78	dTz		-8.00	[°C]			
790001	799999	grp 79	dTxy		-11.20	[°C]			
790001	799999	grp 79	dTz		-8.00	[°C]			
800001	809999	grp 80	dTxy		-2.80	[°C]			
810001	819999	grp 81	dTxy		-11.20	[°C]			
810001	819999	grp 81	dTz		-8.00	[°C]			

Load Case 21 Q1

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				32.985	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				104.255	145.657	27.400		5.00 [kN/m2]
				31.288	145.012	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				104.305	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				153.455	146.092	27.400		5.00 [kN/m2]
				104.305	145.658	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				226.869	149.420	29.000		5.00 [kN/m2]
				205.566	149.420	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				218.311	146.294	29.000		5.00 [kN/m2]
				221.691	146.294	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				205.565	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				196.165	142.884	29.000		5.00 [kN/m2]
				196.165	146.785	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				186.091	146.381	27.400		5.00 [kN/m2]
				153.505	146.093	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				56.066	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	5.00 [kN/m2]
				153.455	117.912	29.000		5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				104.305	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	5.00 [kN/m2]
				182.635	117.912	29.000		5.00 [kN/m2]
				182.635	119.838	29.000		5.00 [kN/m2]
				192.035	119.837	29.000		5.00 [kN/m2]
				192.035	117.912	29.000		5.00 [kN/m2]
				204.711	117.912	29.000		5.00 [kN/m2]
				204.711	119.347	29.000		5.00 [kN/m2]
				208.091	119.347	29.000		5.00 [kN/m2]
				208.091	117.912	29.000		5.00 [kN/m2]
				210.967	117.912	29.000		5.00 [kN/m2]
				219.174	134.175	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				216.311	132.714	29.000		5.00 [kN/m2]
				212.931	132.714	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				200.235	132.225	29.000		5.00 [kN/m2]
				190.835	132.225	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				153.505	133.076	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]
				182.635	117.864	29.000		5.00 [kN/m2]
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	5.00 [kN/m2]
				152.855	85.732	29.000		5.00 [kN/m2]
				152.855	87.632	29.000		5.00 [kN/m2]
				153.455	87.632	29.000		5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				120.999	101.797	29.000		5.00 [kN/m2]
				140.929	92.197	29.000		5.00 [kN/m2]
				143.890	90.182	29.000		5.00 [kN/m2]
				145.984	87.632	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	5.00 [kN/m2]
				166.235	85.732	29.000		5.00 [kN/m2]
				166.235	87.657	29.000		5.00 [kN/m2]
				175.635	87.657	29.000		5.00 [kN/m2]
				175.635	85.732	29.000		5.00 [kN/m2]
				188.470	85.732	29.000		5.00 [kN/m2]
				188.470	87.167	29.000		5.00 [kN/m2]
				191.850	87.167	29.000		5.00 [kN/m2]
				191.850	85.732	29.000		5.00 [kN/m2]
				201.663	85.732	29.000		5.00 [kN/m2]
				200.662	87.658	29.000		5.00 [kN/m2]
				199.890	90.091	29.000		5.00 [kN/m2]
				199.623	92.629	29.000		5.00 [kN/m2]
				199.870	95.170	29.000		5.00 [kN/m2]
				200.623	97.609	29.000		5.00 [kN/m2]
				201.850	99.847	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				202.834	101.797	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				199.971	100.337	29.000		5.00 [kN/m2]
				196.591	100.337	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				183.835	99.848	29.000		5.00 [kN/m2]
				174.435	99.848	29.000		5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				153.505	101.798	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	5.00 [kN/m2]
				212.106	66.536	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				183.871	68.237	29.000		5.00 [kN/m2]
				180.491	68.237	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				169.173	69.163	29.000		5.00 [kN/m2]
				159.773	69.162	29.000		5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				156.112	70.257	29.000		5.00 [kN/m2]
				activated				100.00 percent

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Load Case 22 Q2

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				32.985	144.194	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 17			32.985	144.194	27.400	PG	5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				104.255	145.657	27.400		5.00 [kN/m2]
				31.288	145.012	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 44			104.305	143.194	27.400	PG	5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				104.305	144.194	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 43			104.305	144.194	27.400	PG	5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				153.455	146.092	27.400		5.00 [kN/m2]
				104.305	145.658	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 95			205.566	146.784	29.000	PG	5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				226.869	149.420	29.000		5.00 [kN/m2]
				205.566	149.420	29.000		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 93			205.565	144.834	29.000	PG	5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				218.311	146.294	29.000		5.00 [kN/m2]
				221.691	146.294	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				205.565	146.784	29.000		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			183.791	142.194	29.000	PG	5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				196.165	142.884	29.000		5.00 [kN/m2]
				196.165	146.785	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			153.505	143.194	27.400	PG	5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				186.091	146.381	27.400		5.00 [kN/m2]
				153.505	146.093	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			87.545	117.912	29.000	PG	5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				56.066	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	5.00 [kN/m2]
				153.455	117.912	29.000		5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				104.305	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	5.00 [kN/m2]
				182.635	117.912	29.000		5.00 [kN/m2]
				182.635	119.838	29.000		5.00 [kN/m2]
				192.035	119.837	29.000		5.00 [kN/m2]
				192.035	117.912	29.000		5.00 [kN/m2]
				204.711	117.912	29.000		5.00 [kN/m2]
				204.711	119.347	29.000		5.00 [kN/m2]
				208.091	119.347	29.000		5.00 [kN/m2]
				208.091	117.912	29.000		5.00 [kN/m2]
				210.967	117.912	29.000		5.00 [kN/m2]
				219.174	134.175	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				216.311	132.714	29.000		5.00 [kN/m2]
				212.931	132.714	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				200.235	132.225	29.000		5.00 [kN/m2]
				190.835	132.225	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				153.505	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	5.00 [kN/m2]
				152.855	85.732	29.000		5.00 [kN/m2]
				152.855	87.632	29.000		5.00 [kN/m2]
				153.455	87.632	29.000		5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				120.999	101.797	29.000		5.00 [kN/m2]
				140.929	92.197	29.000		5.00 [kN/m2]
				143.890	90.182	29.000		5.00 [kN/m2]
				145.984	87.632	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	5.00 [kN/m2]
				166.235	85.732	29.000		5.00 [kN/m2]
				166.235	87.657	29.000		5.00 [kN/m2]
				175.635	87.657	29.000		5.00 [kN/m2]
				175.635	85.732	29.000		5.00 [kN/m2]
				188.470	85.732	29.000		5.00 [kN/m2]
				188.470	87.167	29.000		5.00 [kN/m2]
				191.850	87.167	29.000		5.00 [kN/m2]
				191.850	85.732	29.000		5.00 [kN/m2]
				201.663	85.732	29.000		5.00 [kN/m2]
				200.662	87.658	29.000		5.00 [kN/m2]
				199.890	90.091	29.000		5.00 [kN/m2]
				199.623	92.629	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				199.870	95.170	29.000		5.00 [kN/m2]
				200.623	97.609	29.000		5.00 [kN/m2]
				201.850	99.847	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				199.971	100.337	29.000		5.00 [kN/m2]
				196.591	100.337	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				183.835	99.848	29.000		5.00 [kN/m2]
				174.435	99.848	29.000		5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				153.505	101.798	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	5.00 [kN/m2]
				212.106	66.536	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				183.871	68.237	29.000		5.00 [kN/m2]
				180.491	68.237	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				169.173	69.163	29.000		5.00 [kN/m2]
				159.773	69.162	29.000		5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				156.112	70.257	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 23 Q3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]
				182.635	117.864	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 24 Q4

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				32.985	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				104.255	145.657	27.400		5.00 [kN/m2]
				31.288	145.012	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				104.305	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				153.455	146.092	27.400		5.00 [kN/m2]
				104.305	145.658	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				226.869	149.420	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				205.566	149.420	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				218.311	146.294	29.000		5.00 [kN/m2]
				221.691	146.294	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				205.565	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				196.165	142.884	29.000		5.00 [kN/m2]
				196.165	146.785	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				186.091	146.381	27.400		5.00 [kN/m2]
				153.505	146.093	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				200.235	134.174	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]
				182.635	117.864	29.000		5.00 [kN/m2]
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
activated								100.00 percent

Load Case 25 Q5

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
activated								100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
activated								100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
activated								100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]
activated								100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				56.066	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	5.00 [kN/m2]
				153.455	117.912	29.000		5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				104.305	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	5.00 [kN/m2]
				182.635	117.912	29.000		5.00 [kN/m2]
				182.635	119.838	29.000		5.00 [kN/m2]
				192.035	119.837	29.000		5.00 [kN/m2]
				192.035	117.912	29.000		5.00 [kN/m2]
				204.711	117.912	29.000		5.00 [kN/m2]
				204.711	119.347	29.000		5.00 [kN/m2]
				208.091	119.347	29.000		5.00 [kN/m2]
				208.091	117.912	29.000		5.00 [kN/m2]
				210.967	117.912	29.000		5.00 [kN/m2]
				219.174	134.175	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				216.311	132.714	29.000		5.00 [kN/m2]
				212.931	132.714	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				200.235	132.225	29.000		5.00 [kN/m2]
				190.835	132.225	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				153.505	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	5.00 [kN/m2]
				152.855	85.732	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				152.855	87.632	29.000		5.00 [kN/m2]
				153.455	87.632	29.000		5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				120.999	101.797	29.000		5.00 [kN/m2]
				140.929	92.197	29.000		5.00 [kN/m2]
				143.890	90.182	29.000		5.00 [kN/m2]
				145.984	87.632	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	5.00 [kN/m2]
				166.235	85.732	29.000		5.00 [kN/m2]
				166.235	87.657	29.000		5.00 [kN/m2]
				175.635	87.657	29.000		5.00 [kN/m2]
				175.635	85.732	29.000		5.00 [kN/m2]
				188.470	85.732	29.000		5.00 [kN/m2]
				188.470	87.167	29.000		5.00 [kN/m2]
				191.850	87.167	29.000		5.00 [kN/m2]
				191.850	85.732	29.000		5.00 [kN/m2]
				201.663	85.732	29.000		5.00 [kN/m2]
				200.662	87.658	29.000		5.00 [kN/m2]
				199.890	90.091	29.000		5.00 [kN/m2]
				199.623	92.629	29.000		5.00 [kN/m2]
				199.870	95.170	29.000		5.00 [kN/m2]
				200.623	97.609	29.000		5.00 [kN/m2]
				201.850	99.847	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				199.971	100.337	29.000		5.00 [kN/m2]
				196.591	100.337	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				183.835	99.848	29.000		5.00 [kN/m2]
				174.435	99.848	29.000		5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				153.505	101.798	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	5.00 [kN/m2]
				212.106	66.536	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				183.871	68.237	29.000		5.00 [kN/m2]
				180.491	68.237	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				169.173	69.163	29.000		5.00 [kN/m2]
				159.773	69.162	29.000		5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				156.112	70.257	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 26 Q6

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				32.985	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				104.255	145.657	27.400		5.00 [kN/m2]
				31.288	145.012	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				104.305	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				153.455	146.092	27.400		5.00 [kN/m2]
				104.305	145.658	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				226.869	149.420	29.000		5.00 [kN/m2]
				205.566	149.420	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				218.311	146.294	29.000		5.00 [kN/m2]
				221.691	146.294	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				205.565	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				196.165	142.884	29.000		5.00 [kN/m2]
				196.165	146.785	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				186.091	146.381	27.400		5.00 [kN/m2]
				153.505	146.093	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				56.066	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	5.00 [kN/m2]
				153.455	117.912	29.000		5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				104.305	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	5.00 [kN/m2]
				182.635	117.912	29.000		5.00 [kN/m2]
				182.635	119.838	29.000		5.00 [kN/m2]
				192.035	119.837	29.000		5.00 [kN/m2]
				192.035	117.912	29.000		5.00 [kN/m2]
				204.711	117.912	29.000		5.00 [kN/m2]
				204.711	119.347	29.000		5.00 [kN/m2]
				208.091	119.347	29.000		5.00 [kN/m2]
				208.091	117.912	29.000		5.00 [kN/m2]
				210.967	117.912	29.000		5.00 [kN/m2]
				219.174	134.175	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				216.311	132.714	29.000		5.00 [kN/m2]
				212.931	132.714	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				200.235	132.225	29.000		5.00 [kN/m2]
				190.835	132.225	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				153.505	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				182.635	117.864	29.000		5.00 [kN/m2]
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 27 Q7

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar	88		153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]
				182.635	117.864	29.000		5.00 [kN/m2]
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		147.095	85.732	29.000	PG	5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				152.855	85.732	29.000		5.00 [kN/m2]
				152.855	87.632	29.000		5.00 [kN/m2]
				153.455	87.632	29.000		5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				120.999	101.797	29.000		5.00 [kN/m2]
				140.929	92.197	29.000		5.00 [kN/m2]
				143.890	90.182	29.000		5.00 [kN/m2]
				145.984	87.632	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	5.00 [kN/m2]
				166.235	85.732	29.000		5.00 [kN/m2]
				166.235	87.657	29.000		5.00 [kN/m2]
				175.635	87.657	29.000		5.00 [kN/m2]
				175.635	85.732	29.000		5.00 [kN/m2]
				188.470	85.732	29.000		5.00 [kN/m2]
				188.470	87.167	29.000		5.00 [kN/m2]
				191.850	87.167	29.000		5.00 [kN/m2]
				191.850	85.732	29.000		5.00 [kN/m2]
				201.663	85.732	29.000		5.00 [kN/m2]
				200.662	87.658	29.000		5.00 [kN/m2]
				199.890	90.091	29.000		5.00 [kN/m2]
				199.623	92.629	29.000		5.00 [kN/m2]
				199.870	95.170	29.000		5.00 [kN/m2]
				200.623	97.609	29.000		5.00 [kN/m2]
				201.850	99.847	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				199.971	100.337	29.000		5.00 [kN/m2]
				196.591	100.337	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				183.835	99.848	29.000		5.00 [kN/m2]
				174.435	99.848	29.000		5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				153.505	101.798	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	5.00 [kN/m2]
				212.106	66.536	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				183.871	68.237	29.000		5.00 [kN/m2]
				180.491	68.237	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				169.173	69.163	29.000		5.00 [kN/m2]
				159.773	69.162	29.000		5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				156.112	70.257	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 28 Q8

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				32.985	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	5.00 [kN/m2]
				104.255	144.194	27.400		5.00 [kN/m2]
				104.255	145.657	27.400		5.00 [kN/m2]
				31.288	145.012	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				104.305	144.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	5.00 [kN/m2]
				153.455	144.194	27.400		5.00 [kN/m2]
				153.455	146.092	27.400		5.00 [kN/m2]
				104.305	145.658	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				226.869	149.420	29.000		5.00 [kN/m2]
				205.566	149.420	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				218.311	146.294	29.000		5.00 [kN/m2]
				221.691	146.294	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				225.538	146.784	29.000		5.00 [kN/m2]
				205.565	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				196.165	142.884	29.000		5.00 [kN/m2]
				196.165	146.785	29.000		5.00 [kN/m2]
				186.312	146.784	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				186.091	146.381	27.400		5.00 [kN/m2]
				153.505	146.093	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	5.00 [kN/m2]
				205.566	146.784	28.450		5.00 [kN/m2]
				205.566	149.420	28.450		5.00 [kN/m2]
				186.312	149.420	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	5.00 [kN/m2]
				104.255	117.912	29.000		5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				56.066	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	5.00 [kN/m2]
				153.455	117.912	29.000		5.00 [kN/m2]
				153.455	133.076	29.000		5.00 [kN/m2]
				104.305	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	5.00 [kN/m2]
				182.635	117.912	29.000		5.00 [kN/m2]
				182.635	119.838	29.000		5.00 [kN/m2]
				192.035	119.837	29.000		5.00 [kN/m2]
				192.035	117.912	29.000		5.00 [kN/m2]
				204.711	117.912	29.000		5.00 [kN/m2]
				204.711	119.347	29.000		5.00 [kN/m2]
				208.091	119.347	29.000		5.00 [kN/m2]
				208.091	117.912	29.000		5.00 [kN/m2]
				210.967	117.912	29.000		5.00 [kN/m2]
				219.174	134.175	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				216.311	132.714	29.000		5.00 [kN/m2]
				212.931	132.714	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				200.235	132.225	29.000		5.00 [kN/m2]
				190.835	132.225	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				153.505	133.076	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	5.00 [kN/m2]
				152.855	85.732	29.000		5.00 [kN/m2]
				152.855	87.632	29.000		5.00 [kN/m2]
				153.455	87.632	29.000		5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				120.999	101.797	29.000		5.00 [kN/m2]
				140.929	92.197	29.000		5.00 [kN/m2]
				143.890	90.182	29.000		5.00 [kN/m2]
				145.984	87.632	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	5.00 [kN/m2]
				166.235	85.732	29.000		5.00 [kN/m2]
				166.235	87.657	29.000		5.00 [kN/m2]
				175.635	87.657	29.000		5.00 [kN/m2]
				175.635	85.732	29.000		5.00 [kN/m2]
				188.470	85.732	29.000		5.00 [kN/m2]
				188.470	87.167	29.000		5.00 [kN/m2]
				191.850	87.167	29.000		5.00 [kN/m2]
				191.850	85.732	29.000		5.00 [kN/m2]
				201.663	85.732	29.000		5.00 [kN/m2]
				200.662	87.658	29.000		5.00 [kN/m2]
				199.890	90.091	29.000		5.00 [kN/m2]
				199.623	92.629	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				199.870	95.170	29.000		5.00 [kN/m2]
				200.623	97.609	29.000		5.00 [kN/m2]
				201.850	99.847	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				199.971	100.337	29.000		5.00 [kN/m2]
				196.591	100.337	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				183.835	99.848	29.000		5.00 [kN/m2]
				174.435	99.848	29.000		5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				153.505	101.798	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 29 Q9

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	5.00 [kN/m2]
				104.255	133.076	29.000		5.00 [kN/m2]
				104.255	142.194	29.000		5.00 [kN/m2]
				37.137	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	5.00 [kN/m2]
				104.255	142.194	27.400		5.00 [kN/m2]
				104.255	143.194	27.400		5.00 [kN/m2]
				35.061	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	133.076	29.000		5.00 [kN/m2]
				153.455	142.194	29.000		5.00 [kN/m2]
				104.305	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	5.00 [kN/m2]
				153.455	142.194	27.400		5.00 [kN/m2]
				153.455	143.194	27.400		5.00 [kN/m2]
				104.305	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	5.00 [kN/m2]
				169.880	133.076	29.000		5.00 [kN/m2]
				169.880	134.174	29.000		5.00 [kN/m2]
				190.835	134.174	29.000		5.00 [kN/m2]
				190.835	136.126	29.000		5.00 [kN/m2]
				200.235	136.125	29.000		5.00 [kN/m2]
				200.235	134.174	29.000		5.00 [kN/m2]
				212.931	134.174	29.000		5.00 [kN/m2]
				212.931	135.634	29.000		5.00 [kN/m2]
				216.311	135.634	29.000		5.00 [kN/m2]
				216.311	134.174	29.000		5.00 [kN/m2]
				219.174	134.174	29.000		5.00 [kN/m2]
				224.554	144.834	29.000		5.00 [kN/m2]
				221.691	144.834	29.000		5.00 [kN/m2]
				221.691	143.374	29.000		5.00 [kN/m2]
				218.311	143.374	29.000		5.00 [kN/m2]
				218.311	144.834	29.000		5.00 [kN/m2]
				205.565	144.834	29.000		5.00 [kN/m2]
				205.565	142.884	29.000		5.00 [kN/m2]
				184.170	142.884	29.000		5.00 [kN/m2]
				183.791	142.194	29.000		5.00 [kN/m2]
				153.505	142.194	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	5.00 [kN/m2]
				183.791	142.194	27.400		5.00 [kN/m2]
				184.341	143.194	27.400		5.00 [kN/m2]
				153.505	143.194	27.400		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	5.00 [kN/m2]
				153.455	101.797	29.000		5.00 [kN/m2]
				153.455	117.862	29.000		5.00 [kN/m2]
				87.649	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	5.00 [kN/m2]
				174.435	101.798	29.000		5.00 [kN/m2]
				174.435	103.748	29.000		5.00 [kN/m2]
				183.835	103.748	29.000		5.00 [kN/m2]
				183.835	101.797	29.000		5.00 [kN/m2]
				196.591	101.797	29.000		5.00 [kN/m2]
				196.591	103.748	29.000		5.00 [kN/m2]
				199.971	103.748	29.000		5.00 [kN/m2]
				199.971	101.797	29.000		5.00 [kN/m2]
				202.834	101.797	29.000		5.00 [kN/m2]
				210.942	117.862	29.000		5.00 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				208.091	117.862	29.000		5.00 [kN/m2]
				208.091	116.427	29.000		5.00 [kN/m2]
				204.711	116.427	29.000		5.00 [kN/m2]
				204.711	117.862	29.000		5.00 [kN/m2]
				192.035	117.862	29.000		5.00 [kN/m2]
				192.035	115.938	29.000		5.00 [kN/m2]
				182.635	115.938	29.000		5.00 [kN/m2]
				182.635	117.864	29.000		5.00 [kN/m2]
				153.505	117.862	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				159.773	71.352	29.000		5.00 [kN/m2]
				169.173	71.352	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				180.491	71.157	29.000		5.00 [kN/m2]
				183.871	71.157	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				201.691	85.682	29.000		5.00 [kN/m2]
				191.850	85.682	29.000		5.00 [kN/m2]
				191.850	84.247	29.000		5.00 [kN/m2]
				188.470	84.247	29.000		5.00 [kN/m2]
				188.470	85.682	29.000		5.00 [kN/m2]
				175.635	85.682	29.000		5.00 [kN/m2]
				175.635	83.758	29.000		5.00 [kN/m2]
				166.235	83.758	29.000		5.00 [kN/m2]
				166.235	85.683	29.000		5.00 [kN/m2]
				147.124	85.682	29.000		5.00 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	5.00 [kN/m2]
				212.106	66.536	29.000		5.00 [kN/m2]
				210.100	70.222	29.000		5.00 [kN/m2]
				183.871	70.222	29.000		5.00 [kN/m2]
				183.871	68.237	29.000		5.00 [kN/m2]
				180.491	68.237	29.000		5.00 [kN/m2]
				180.491	70.222	29.000		5.00 [kN/m2]
				169.173	70.222	29.000		5.00 [kN/m2]
				169.173	69.163	29.000		5.00 [kN/m2]
				159.773	69.162	29.000		5.00 [kN/m2]
				159.773	70.257	29.000		5.00 [kN/m2]
				156.112	70.257	29.000		5.00 [kN/m2]
				activated				100.00 percent

Load Case 30 S1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				104.255	144.194	27.400		2.50 [kN/m2]
				32.985	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				104.255	145.657	27.400		2.50 [kN/m2]
				31.288	145.012	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				104.305	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				153.455	146.092	27.400		2.50 [kN/m2]
				104.305	145.658	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				226.869	149.420	29.000		2.50 [kN/m2]
				205.566	149.420	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				218.311	146.294	29.000		2.50 [kN/m2]
				221.691	146.294	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				205.565	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				196.165	142.884	29.000		2.50 [kN/m2]
				196.165	146.785	29.000		2.50 [kN/m2]
				186.312	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				186.091	146.381	27.400		2.50 [kN/m2]
				153.505	146.093	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	2.50 [kN/m2]
				205.566	146.784	28.450		2.50 [kN/m2]
				205.566	149.420	28.450		2.50 [kN/m2]
				186.312	149.420	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	2.50 [kN/m2]
				104.255	117.912	29.000		2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				56.066	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	2.50 [kN/m2]
				153.455	117.912	29.000		2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				104.305	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	117.912	29.000	PG	2.50 [kN/m2]
				182.635	117.912	29.000		2.50 [kN/m2]
				182.635	119.838	29.000		2.50 [kN/m2]
				192.035	119.837	29.000		2.50 [kN/m2]
				192.035	117.912	29.000		2.50 [kN/m2]
				204.711	117.912	29.000		2.50 [kN/m2]
				204.711	119.347	29.000		2.50 [kN/m2]
				208.091	119.347	29.000		2.50 [kN/m2]
				208.091	117.912	29.000		2.50 [kN/m2]
				210.967	117.912	29.000		2.50 [kN/m2]
				219.174	134.175	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				216.311	132.714	29.000		2.50 [kN/m2]
				212.931	132.714	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				200.235	132.225	29.000		2.50 [kN/m2]
				190.835	132.225	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				153.505	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	2.50 [kN/m2]
				152.855	85.732	29.000		2.50 [kN/m2]
				152.855	87.632	29.000		2.50 [kN/m2]
				153.455	87.632	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	101.797	29.000		2.50 [kN/m2]
				120.999	101.797	29.000		2.50 [kN/m2]
				140.929	92.197	29.000		2.50 [kN/m2]
				143.890	90.182	29.000		2.50 [kN/m2]
				145.984	87.632	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	2.50 [kN/m2]
				166.235	85.732	29.000		2.50 [kN/m2]
				166.235	87.657	29.000		2.50 [kN/m2]
				175.635	87.657	29.000		2.50 [kN/m2]
				175.635	85.732	29.000		2.50 [kN/m2]
				188.470	85.732	29.000		2.50 [kN/m2]
				188.470	87.167	29.000		2.50 [kN/m2]
				191.850	87.167	29.000		2.50 [kN/m2]
				191.850	85.732	29.000		2.50 [kN/m2]
				201.663	85.732	29.000		2.50 [kN/m2]
				200.662	87.658	29.000		2.50 [kN/m2]
				199.890	90.091	29.000		2.50 [kN/m2]
				199.623	92.629	29.000		2.50 [kN/m2]
				199.870	95.170	29.000		2.50 [kN/m2]
				200.623	97.609	29.000		2.50 [kN/m2]
				201.850	99.847	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				199.971	100.337	29.000		2.50 [kN/m2]
				196.591	100.337	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				183.835	99.848	29.000		2.50 [kN/m2]
				174.435	99.848	29.000		2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				153.505	101.798	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	2.50 [kN/m2]
				212.106	66.536	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				183.871	68.237	29.000		2.50 [kN/m2]
				180.491	68.237	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				169.173	69.163	29.000		2.50 [kN/m2]
				159.773	69.162	29.000		2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				156.112	70.257	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 31 S2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				32.985	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				104.255	145.657	27.400		2.50 [kN/m2]
				31.288	145.012	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				104.305	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				153.455	146.092	27.400		2.50 [kN/m2]
				104.305	145.658	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				226.869	149.420	29.000		2.50 [kN/m2]
				205.566	149.420	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				218.311	146.294	29.000		2.50 [kN/m2]
				221.691	146.294	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				205.565	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				196.165	142.884	29.000		2.50 [kN/m2]
				196.165	146.785	29.000		2.50 [kN/m2]
				186.312	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				186.091	146.381	27.400		2.50 [kN/m2]
				153.505	146.093	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	2.50 [kN/m2]
				205.566	146.784	28.450		2.50 [kN/m2]
				205.566	149.420	28.450		2.50 [kN/m2]
				186.312	149.420	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	2.50 [kN/m2]
				104.255	117.912	29.000		2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				56.066	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	2.50 [kN/m2]
				153.455	117.912	29.000		2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				104.305	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	2.50 [kN/m2]
				182.635	117.912	29.000		2.50 [kN/m2]
				182.635	119.838	29.000		2.50 [kN/m2]
				192.035	119.837	29.000		2.50 [kN/m2]
				192.035	117.912	29.000		2.50 [kN/m2]
				204.711	117.912	29.000		2.50 [kN/m2]
				204.711	119.347	29.000		2.50 [kN/m2]
				208.091	119.347	29.000		2.50 [kN/m2]
				208.091	117.912	29.000		2.50 [kN/m2]
				210.967	117.912	29.000		2.50 [kN/m2]
				219.174	134.175	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				216.311	132.714	29.000		2.50 [kN/m2]
				212.931	132.714	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				200.235	132.225	29.000		2.50 [kN/m2]
				190.835	132.225	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				153.505	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	2.50 [kN/m2]
				152.855	85.732	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				152.855	87.632	29.000		2.50 [kN/m2]
				153.455	87.632	29.000		2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				120.999	101.797	29.000		2.50 [kN/m2]
				140.929	92.197	29.000		2.50 [kN/m2]
				143.890	90.182	29.000		2.50 [kN/m2]
				145.984	87.632	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	2.50 [kN/m2]
				166.235	85.732	29.000		2.50 [kN/m2]
				166.235	87.657	29.000		2.50 [kN/m2]
				175.635	87.657	29.000		2.50 [kN/m2]
				175.635	85.732	29.000		2.50 [kN/m2]
				188.470	85.732	29.000		2.50 [kN/m2]
				188.470	87.167	29.000		2.50 [kN/m2]
				191.850	87.167	29.000		2.50 [kN/m2]
				191.850	85.732	29.000		2.50 [kN/m2]
				201.663	85.732	29.000		2.50 [kN/m2]
				200.662	87.658	29.000		2.50 [kN/m2]
				199.890	90.091	29.000		2.50 [kN/m2]
				199.623	92.629	29.000		2.50 [kN/m2]
				199.870	95.170	29.000		2.50 [kN/m2]
				200.623	97.609	29.000		2.50 [kN/m2]
				201.850	99.847	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				199.971	100.337	29.000		2.50 [kN/m2]
				196.591	100.337	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				183.835	99.848	29.000		2.50 [kN/m2]
				174.435	99.848	29.000		2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				153.505	101.798	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	2.50 [kN/m2]
				212.106	66.536	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				183.871	68.237	29.000		2.50 [kN/m2]
				180.491	68.237	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				169.173	69.163	29.000		2.50 [kN/m2]
				159.773	69.162	29.000		2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				156.112	70.257	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 32 S3

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 33 S4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				32.985	144.194	27.400		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				104.255	145.657	27.400		2.50 [kN/m2]
				31.288	145.012	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				104.305	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				153.455	146.092	27.400		2.50 [kN/m2]
				104.305	145.658	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				226.869	149.420	29.000		2.50 [kN/m2]
				205.566	149.420	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				218.311	146.294	29.000		2.50 [kN/m2]
				221.691	146.294	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				205.565	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				196.165	142.884	29.000		2.50 [kN/m2]
				196.165	146.785	29.000		2.50 [kN/m2]
				186.312	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				186.091	146.381	27.400		2.50 [kN/m2]
				153.505	146.093	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	2.50 [kN/m2]
				205.566	146.784	28.450		2.50 [kN/m2]
				205.566	149.420	28.450		2.50 [kN/m2]
				186.312	149.420	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 34 S5

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	2.50 [kN/m2]
				104.255	117.912	29.000		2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				56.066	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	2.50 [kN/m2]
				153.455	117.912	29.000		2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				104.305	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	2.50 [kN/m2]
				182.635	117.912	29.000		2.50 [kN/m2]
				182.635	119.838	29.000		2.50 [kN/m2]
				192.035	119.837	29.000		2.50 [kN/m2]
				192.035	117.912	29.000		2.50 [kN/m2]
				204.711	117.912	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				204.711	119.347	29.000		2.50 [kN/m2]
				208.091	119.347	29.000		2.50 [kN/m2]
				208.091	117.912	29.000		2.50 [kN/m2]
				210.967	117.912	29.000		2.50 [kN/m2]
				219.174	134.175	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				216.311	132.714	29.000		2.50 [kN/m2]
				212.931	132.714	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				200.235	132.225	29.000		2.50 [kN/m2]
				190.835	132.225	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				153.505	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	2.50 [kN/m2]
				152.855	85.732	29.000		2.50 [kN/m2]
				152.855	87.632	29.000		2.50 [kN/m2]
				153.455	87.632	29.000		2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				120.999	101.797	29.000		2.50 [kN/m2]
				140.929	92.197	29.000		2.50 [kN/m2]
				143.890	90.182	29.000		2.50 [kN/m2]
				145.984	87.632	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	2.50 [kN/m2]
				166.235	85.732	29.000		2.50 [kN/m2]
				166.235	87.657	29.000		2.50 [kN/m2]
				175.635	87.657	29.000		2.50 [kN/m2]
				175.635	85.732	29.000		2.50 [kN/m2]
				188.470	85.732	29.000		2.50 [kN/m2]
				188.470	87.167	29.000		2.50 [kN/m2]
				191.850	87.167	29.000		2.50 [kN/m2]
				191.850	85.732	29.000		2.50 [kN/m2]
				201.663	85.732	29.000		2.50 [kN/m2]
				200.662	87.658	29.000		2.50 [kN/m2]
				199.890	90.091	29.000		2.50 [kN/m2]
				199.623	92.629	29.000		2.50 [kN/m2]
				199.870	95.170	29.000		2.50 [kN/m2]
				200.623	97.609	29.000		2.50 [kN/m2]
				201.850	99.847	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				199.971	100.337	29.000		2.50 [kN/m2]
				196.591	100.337	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				183.835	99.848	29.000		2.50 [kN/m2]
				174.435	99.848	29.000		2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				153.505	101.798	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	2.50 [kN/m2]
				212.106	66.536	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				183.871	68.237	29.000		2.50 [kN/m2]
				180.491	68.237	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				169.173	69.163	29.000		2.50 [kN/m2]
				159.773	69.162	29.000		2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				156.112	70.257	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 35 S6

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				32.985	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				104.255	145.657	27.400		2.50 [kN/m2]
				31.288	145.012	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				104.305	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				153.455	146.092	27.400		2.50 [kN/m2]
				104.305	145.658	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				226.869	149.420	29.000		2.50 [kN/m2]
				205.566	149.420	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				218.311	146.294	29.000		2.50 [kN/m2]
				221.691	146.294	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				205.565	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				196.165	142.884	29.000		2.50 [kN/m2]
				196.165	146.785	29.000		2.50 [kN/m2]
				186.312	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				186.091	146.381	27.400		2.50 [kN/m2]
				153.505	146.093	27.400		2.50 [kN/m2]
				activated			100.00 percent	
Area	sar 100			186.312	146.784	27.400	PG	2.50 [kN/m2]
				205.566	146.784	28.450		2.50 [kN/m2]
				205.566	149.420	28.450		2.50 [kN/m2]
				186.312	149.420	27.400		2.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			87.545	117.912	29.000	PG	2.50 [kN/m2]
				104.255	117.912	29.000		2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				56.066	133.076	29.000		2.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			104.305	117.912	29.000	PG	2.50 [kN/m2]
				153.455	117.912	29.000		2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				104.305	133.076	29.000		2.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			153.505	117.912	29.000	PG	2.50 [kN/m2]
				182.635	117.912	29.000		2.50 [kN/m2]
				182.635	119.838	29.000		2.50 [kN/m2]
				192.035	119.837	29.000		2.50 [kN/m2]
				192.035	117.912	29.000		2.50 [kN/m2]
				204.711	117.912	29.000		2.50 [kN/m2]
				204.711	119.347	29.000		2.50 [kN/m2]
				208.091	119.347	29.000		2.50 [kN/m2]
				208.091	117.912	29.000		2.50 [kN/m2]
				210.967	117.912	29.000		2.50 [kN/m2]
				219.174	134.175	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				216.311	132.714	29.000		2.50 [kN/m2]
				212.931	132.714	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				200.235	132.225	29.000		2.50 [kN/m2]
				190.835	132.225	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				153.505	133.076	29.000		2.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 36 S7

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	2.50 [kN/m2]
				152.855	85.732	29.000		2.50 [kN/m2]
				152.855	87.632	29.000		2.50 [kN/m2]
				153.455	87.632	29.000		2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				120.999	101.797	29.000		2.50 [kN/m2]
				140.929	92.197	29.000		2.50 [kN/m2]
				143.890	90.182	29.000		2.50 [kN/m2]
				145.984	87.632	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	2.50 [kN/m2]
				166.235	85.732	29.000		2.50 [kN/m2]
				166.235	87.657	29.000		2.50 [kN/m2]
				175.635	87.657	29.000		2.50 [kN/m2]
				175.635	85.732	29.000		2.50 [kN/m2]
				188.470	85.732	29.000		2.50 [kN/m2]
				188.470	87.167	29.000		2.50 [kN/m2]
				191.850	87.167	29.000		2.50 [kN/m2]
				191.850	85.732	29.000		2.50 [kN/m2]
				201.663	85.732	29.000		2.50 [kN/m2]
				200.662	87.658	29.000		2.50 [kN/m2]
				199.890	90.091	29.000		2.50 [kN/m2]
				199.623	92.629	29.000		2.50 [kN/m2]
				199.870	95.170	29.000		2.50 [kN/m2]
				200.623	97.609	29.000		2.50 [kN/m2]
				201.850	99.847	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				199.971	100.337	29.000		2.50 [kN/m2]
				196.591	100.337	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				183.835	99.848	29.000		2.50 [kN/m2]
				174.435	99.848	29.000		2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				153.505	101.798	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	2.50 [kN/m2]
				212.106	66.536	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				183.871	68.237	29.000		2.50 [kN/m2]
				180.491	68.237	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				169.173	69.163	29.000		2.50 [kN/m2]
				159.773	69.162	29.000		2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				156.112	70.257	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 37 S8

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PG	2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				32.985	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PG	2.50 [kN/m2]
				104.255	144.194	27.400		2.50 [kN/m2]
				104.255	145.657	27.400		2.50 [kN/m2]
				31.288	145.012	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PG	2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				104.305	144.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PG	2.50 [kN/m2]
				153.455	144.194	27.400		2.50 [kN/m2]
				153.455	146.092	27.400		2.50 [kN/m2]
				104.305	145.658	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PG	2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				226.869	149.420	29.000		2.50 [kN/m2]
				205.566	149.420	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PG	2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				218.311	146.294	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				221.691	146.294	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				225.538	146.784	29.000		2.50 [kN/m2]
				205.565	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PG	2.50 [kN/m2]
				184.170	142.884	29.000		2.50 [kN/m2]
				196.165	142.884	29.000		2.50 [kN/m2]
				196.165	146.785	29.000		2.50 [kN/m2]
				186.312	146.784	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PG	2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				186.091	146.381	27.400		2.50 [kN/m2]
				153.505	146.093	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PG	2.50 [kN/m2]
				205.566	146.784	28.450		2.50 [kN/m2]
				205.566	149.420	28.450		2.50 [kN/m2]
				186.312	149.420	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PG	2.50 [kN/m2]
				104.255	117.912	29.000		2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				56.066	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PG	2.50 [kN/m2]
				153.455	117.912	29.000		2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				104.305	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PG	2.50 [kN/m2]
				182.635	117.912	29.000		2.50 [kN/m2]
				182.635	119.838	29.000		2.50 [kN/m2]
				192.035	119.837	29.000		2.50 [kN/m2]
				192.035	117.912	29.000		2.50 [kN/m2]
				204.711	117.912	29.000		2.50 [kN/m2]
				204.711	119.347	29.000		2.50 [kN/m2]
				208.091	119.347	29.000		2.50 [kN/m2]
				208.091	117.912	29.000		2.50 [kN/m2]
				210.967	117.912	29.000		2.50 [kN/m2]
				219.174	134.175	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				216.311	132.714	29.000		2.50 [kN/m2]
				212.931	132.714	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				200.235	132.225	29.000		2.50 [kN/m2]
				190.835	132.225	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.505	133.076	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PG	2.50 [kN/m2]
				152.855	85.732	29.000		2.50 [kN/m2]
				152.855	87.632	29.000		2.50 [kN/m2]
				153.455	87.632	29.000		2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				120.999	101.797	29.000		2.50 [kN/m2]
				140.929	92.197	29.000		2.50 [kN/m2]
				143.890	90.182	29.000		2.50 [kN/m2]
				145.984	87.632	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PG	2.50 [kN/m2]
				166.235	85.732	29.000		2.50 [kN/m2]
				166.235	87.657	29.000		2.50 [kN/m2]
				175.635	87.657	29.000		2.50 [kN/m2]
				175.635	85.732	29.000		2.50 [kN/m2]
				188.470	85.732	29.000		2.50 [kN/m2]
				188.470	87.167	29.000		2.50 [kN/m2]
				191.850	87.167	29.000		2.50 [kN/m2]
				191.850	85.732	29.000		2.50 [kN/m2]
				201.663	85.732	29.000		2.50 [kN/m2]
				200.662	87.658	29.000		2.50 [kN/m2]
				199.890	90.091	29.000		2.50 [kN/m2]
				199.623	92.629	29.000		2.50 [kN/m2]
				199.870	95.170	29.000		2.50 [kN/m2]
				200.623	97.609	29.000		2.50 [kN/m2]
				201.850	99.847	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				199.971	100.337	29.000		2.50 [kN/m2]
				196.591	100.337	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				183.835	99.848	29.000		2.50 [kN/m2]
				174.435	99.848	29.000		2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				153.505	101.798	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 38 S9

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PG	2.50 [kN/m2]
				104.255	133.076	29.000		2.50 [kN/m2]
				104.255	142.194	29.000		2.50 [kN/m2]
				37.137	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PG	2.50 [kN/m2]
				104.255	142.194	27.400		2.50 [kN/m2]
				104.255	143.194	27.400		2.50 [kN/m2]
				35.061	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PG	2.50 [kN/m2]
				153.455	133.076	29.000		2.50 [kN/m2]
				153.455	142.194	29.000		2.50 [kN/m2]
				104.305	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PG	2.50 [kN/m2]
				153.455	142.194	27.400		2.50 [kN/m2]
				153.455	143.194	27.400		2.50 [kN/m2]
				104.305	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PG	2.50 [kN/m2]
				169.880	133.076	29.000		2.50 [kN/m2]
				169.880	134.174	29.000		2.50 [kN/m2]
				190.835	134.174	29.000		2.50 [kN/m2]
				190.835	136.126	29.000		2.50 [kN/m2]
				200.235	136.125	29.000		2.50 [kN/m2]
				200.235	134.174	29.000		2.50 [kN/m2]
				212.931	134.174	29.000		2.50 [kN/m2]
				212.931	135.634	29.000		2.50 [kN/m2]
				216.311	135.634	29.000		2.50 [kN/m2]
				216.311	134.174	29.000		2.50 [kN/m2]
				219.174	134.174	29.000		2.50 [kN/m2]
				224.554	144.834	29.000		2.50 [kN/m2]
				221.691	144.834	29.000		2.50 [kN/m2]
				221.691	143.374	29.000		2.50 [kN/m2]
				218.311	143.374	29.000		2.50 [kN/m2]
				218.311	144.834	29.000		2.50 [kN/m2]
				205.565	144.834	29.000		2.50 [kN/m2]
				205.565	142.884	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				184.170	142.884	29.000		2.50 [kN/m2]
				183.791	142.194	29.000		2.50 [kN/m2]
				153.505	142.194	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PG	2.50 [kN/m2]
				183.791	142.194	27.400		2.50 [kN/m2]
				184.341	143.194	27.400		2.50 [kN/m2]
				153.505	143.194	27.400		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PG	2.50 [kN/m2]
				153.455	101.797	29.000		2.50 [kN/m2]
				153.455	117.862	29.000		2.50 [kN/m2]
				87.649	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PG	2.50 [kN/m2]
				174.435	101.798	29.000		2.50 [kN/m2]
				174.435	103.748	29.000		2.50 [kN/m2]
				183.835	103.748	29.000		2.50 [kN/m2]
				183.835	101.797	29.000		2.50 [kN/m2]
				196.591	101.797	29.000		2.50 [kN/m2]
				196.591	103.748	29.000		2.50 [kN/m2]
				199.971	103.748	29.000		2.50 [kN/m2]
				199.971	101.797	29.000		2.50 [kN/m2]
				202.834	101.797	29.000		2.50 [kN/m2]
				210.942	117.862	29.000		2.50 [kN/m2]
				208.091	117.862	29.000		2.50 [kN/m2]
				208.091	116.427	29.000		2.50 [kN/m2]
				204.711	116.427	29.000		2.50 [kN/m2]
				204.711	117.862	29.000		2.50 [kN/m2]
				192.035	117.862	29.000		2.50 [kN/m2]
				192.035	115.938	29.000		2.50 [kN/m2]
				182.635	115.938	29.000		2.50 [kN/m2]
				182.635	117.864	29.000		2.50 [kN/m2]
				153.505	117.862	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PG	2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				159.773	71.352	29.000		2.50 [kN/m2]
				169.173	71.352	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				180.491	71.157	29.000		2.50 [kN/m2]
				183.871	71.157	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				201.691	85.682	29.000		2.50 [kN/m2]
				191.850	85.682	29.000		2.50 [kN/m2]
				191.850	84.247	29.000		2.50 [kN/m2]
				188.470	84.247	29.000		2.50 [kN/m2]
				188.470	85.682	29.000		2.50 [kN/m2]
				175.635	85.682	29.000		2.50 [kN/m2]
				175.635	83.758	29.000		2.50 [kN/m2]
				166.235	83.758	29.000		2.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				166.235	85.683	29.000		2.50 [kN/m2]
				147.124	85.682	29.000		2.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PG	2.50 [kN/m2]
				212.106	66.536	29.000		2.50 [kN/m2]
				210.100	70.222	29.000		2.50 [kN/m2]
				183.871	70.222	29.000		2.50 [kN/m2]
				183.871	68.237	29.000		2.50 [kN/m2]
				180.491	68.237	29.000		2.50 [kN/m2]
				180.491	70.222	29.000		2.50 [kN/m2]
				169.173	70.222	29.000		2.50 [kN/m2]
				169.173	69.163	29.000		2.50 [kN/m2]
				159.773	69.162	29.000		2.50 [kN/m2]
				159.773	70.257	29.000		2.50 [kN/m2]
				156.112	70.257	29.000		2.50 [kN/m2]
				activated				100.00 percent

Load Case 39 SR

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 178			164.130	74.480	29.000	PZZ	225.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	PXX	61.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	PYY	6.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	MXX	19.00 [kNm]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	MYX	108.00 [kNm]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PZZ	234.0 [kN]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PXX	-70.0 [kN]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PYY	30.0 [kN]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	MXX	88.00 [kNm]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	MYX	108.00 [kNm]
				activated				100.00 percent
Point	sar 147			172.420	91.040	29.000	PZZ	209.0 [kN]
				activated				100.00 percent
Point	sar 147			172.420	91.040	29.000	PXX	69.0 [kN]
				activated				100.00 percent
Point	sar 147			172.420	91.040	29.000	PYY	47.0 [kN]
				activated				100.00 percent
Point	sar 147			172.420	91.040	29.000	MXX	11.00 [kNm]
				activated				100.00 percent
Point	sar 147			172.420	91.040	29.000	MYX	126.00 [kNm]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to		Projection Designation	W[m]	Coordinates			Type	Load value
					X[m]	Y[m]	Z[m]		
Point	sar	147			191.660	91.030	29.000	PZZ	215.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	PXX	-62.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	PYY	47.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	MXX	103.00 [kNm]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	MYY	126.00 [kNm]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PZZ	220.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PXX	67.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PYY	22.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MXX	-44.00 [kNm]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MYY	125.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PZZ	219.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PXX	-67.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PYY	23.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MXX	45.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MYY	125.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PZZ	213.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PXX	63.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PYY	46.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MXX	-101.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MYY	119.00 [kNm]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PZZ	210.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PXX	-70.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	PYY	46.0 [kN]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	MXX	-13.00 [kNm]
							activated		100.00 percent
Point	sar	94			208.640	124.290	29.000	MYY	119.00 [kNm]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	PZZ	235.0 [kN]
							activated		100.00 percent
Point	sar	96			197.680	140.990	29.000	PXX	70.0 [kN]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PYY	31.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MXX	-90.00 [kNm]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MYX	130.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PZZ	224.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PXX	-61.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PYY	5.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MXX	-20.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MYX	130.00 [kNm]
							activated	100.00 percent

Load Case 40 WL

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp -mult-			31.288	145.012	27.400	PXX	5.00 [kN/m]
				37.137	142.194	27.400		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp -mult-			37.137	142.194	29.000	PXX	5.00 [kN/m]
				87.545	117.912	29.000		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp 48			145.984	87.632	29.000	PXX	5.00 [kN/m]
				147.095	85.732	29.000		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp 50			143.890	90.182	29.000	PXX	5.00 [kN/m]
				145.984	87.632	29.000		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp 50			140.929	92.197	29.000	PXX	5.00 [kN/m]
				143.890	90.182	29.000		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp -mult-			87.649	117.862	29.000	PXX	5.00 [kN/m]
				140.929	92.197	29.000		5.00 [kN/m]
							activated	100.00 percent
Line	qgrp -mult-			147.124	85.682	29.000	PXX	5.00 [kN/m]
				158.281	66.536	29.000		5.00 [kN/m]
							activated	100.00 percent

Load Case 41 WR

Factor forces and moments

1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp -mult-			210.967	117.912	29.000	PXX	-5.00 [kN/m]
				226.869	149.420	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	auto -mult-			200.623	97.609	29.000	PXX	-5.00 [kN/m]
				201.850	99.848	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.870	95.170	29.000	PXX	-5.00 [kN/m]
				200.623	97.609	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.623	92.629	29.000	PXX	-5.00 [kN/m]
				199.870	95.170	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			199.890	90.091	29.000	PXX	-5.00 [kN/m]
				199.623	92.629	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 64			200.662	87.658	29.000	PXX	-5.00 [kN/m]
				199.890	90.091	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 63			201.663	85.732	29.000	PXX	-5.00 [kN/m]
				200.662	87.658	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp 63			201.850	99.848	29.000	PXX	-5.00 [kN/m]
				203.818	103.748	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			203.818	103.748	29.000	PXX	-5.00 [kN/m]
				210.942	117.862	29.000		-5.00 [kN/m]
				activated				100.00 percent
Line	qgrp -mult-			201.691	85.682	29.000	PXX	-5.00 [kN/m]
				212.106	66.536	29.000		-5.00 [kN/m]
				activated				100.00 percent

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Load Case 42 WP

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 178			164.130	74.480	29.000	PZZ	69.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	PXX	19.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	PYY	2.0 [kN]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	MXX	6.00 [kNm]
				activated				100.00 percent
Point	sar 178			164.130	74.480	29.000	MYX	33.00 [kNm]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PZZ	72.0 [kN]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PXX	-21.0 [kN]
				activated				100.00 percent
Point	sar 178			183.380	74.480	29.000	PYY	9.0 [kN]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to		Projection Designation	W[m]	Coordinates			Type	Load value
					X[m]	Y[m]	Z[m]		
Point	sar	178			183.380	74.480	29.000	MXX	27.00 [kNm]
							activated		100.00 percent
Point	sar	178			183.380	74.480	29.000	MYY	33.00 [kNm]
							activated		100.00 percent
Point	sar	147			172.420	91.040	29.000	PZZ	64.0 [kN]
							activated		100.00 percent
Point	sar	147			172.420	91.040	29.000	PXX	21.0 [kN]
							activated		100.00 percent
Point	sar	147			172.420	91.040	29.000	PYY	15.0 [kN]
							activated		100.00 percent
Point	sar	147			172.420	91.040	29.000	MXX	3.00 [kNm]
							activated		100.00 percent
Point	sar	147			172.420	91.040	29.000	MYY	39.00 [kNm]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	PZZ	66.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	PXX	-19.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	PYY	15.0 [kN]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	MXX	32.00 [kNm]
							activated		100.00 percent
Point	sar	147			191.660	91.030	29.000	MYY	39.00 [kNm]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PZZ	67.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PXX	21.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	PYY	7.0 [kN]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MXX	-13.00 [kNm]
							activated		100.00 percent
Point	sar	148			180.840	107.720	29.000	MYY	38.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PZZ	67.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PXX	-21.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	PYY	7.0 [kN]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MXX	14.00 [kNm]
							activated		100.00 percent
Point	sar	148			200.090	107.720	29.000	MYY	38.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PZZ	65.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PXX	19.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	PYY	14.0 [kN]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MXX	-31.00 [kNm]
							activated		100.00 percent
Point	sar	94			189.260	124.290	29.000	MYY	36.00 [kNm]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PZZ	64.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PXX	-21.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PYY	14.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	MXX	4.00 [kNm]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	MYX	36.00 [kNm]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PZZ	72.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PXX	21.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PYY	9.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MXX	-28.00 [kNm]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MYX	40.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PZZ	68.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PXX	-19.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PYY	9.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MXX	7.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MYX	40.00 [kNm]
							activated	100.00 percent

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Load Case 43 WS

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 178			164.130	74.480	29.000	PZZ	-242.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	PXX	-65.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	PYY	6.0 [kN]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	MXX	-20.00 [kNm]
							activated	100.00 percent
Point	sar 178			164.130	74.480	29.000	MYX	117.00 [kNm]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PZZ	-251.0 [kN]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PXX	75.0 [kN]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	PYY	6.0 [kN]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	MXX	-95.00 [kNm]
							activated	100.00 percent
Point	sar 178			183.380	74.480	29.000	MYX	139.00 [kNm]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PZZ	-224.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PXX	-74.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	PYY	13.0 [kN]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	MXX	-12.00 [kNm]
							activated	100.00 percent
Point	sar 147			172.420	91.040	29.000	MYX	135.00 [kNm]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PZZ	-230.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PXX	67.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	PYY	51.0 [kN]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	MXX	-111.00 [kNm]
							activated	100.00 percent
Point	sar 147			191.660	91.030	29.000	MYX	126.00 [kNm]
							activated	100.00 percent
Point	sar 148			180.840	107.720	29.000	PZZ	-236.0 [kN]
							activated	100.00 percent
Point	sar 148			180.840	107.720	29.000	PXX	-72.0 [kN]
							activated	100.00 percent
Point	sar 148			180.840	107.720	29.000	PYY	23.0 [kN]
							activated	100.00 percent
Point	sar 148			180.840	107.720	29.000	MXX	46.00 [kNm]
							activated	100.00 percent
Point	sar 148			180.840	107.720	29.000	MYX	133.00 [kNm]
							activated	100.00 percent
Point	sar 148			200.090	107.720	29.000	PZZ	-234.0 [kN]
							activated	100.00 percent
Point	sar 148			200.090	107.720	29.000	PXX	72.0 [kN]
							activated	100.00 percent
Point	sar 148			200.090	107.720	29.000	PYY	25.0 [kN]
							activated	100.00 percent
Point	sar 148			200.090	107.720	29.000	MXX	49.00 [kNm]
							activated	100.00 percent
Point	sar 148			200.090	107.720	29.000	MYX	133.00 [kNm]
							activated	100.00 percent
Point	sar 94			189.260	124.290	29.000	PZZ	-228.0 [kN]
							activated	100.00 percent
Point	sar 94			189.260	124.290	29.000	PXX	-68.0 [kN]
							activated	100.00 percent
Point	sar 94			189.260	124.290	29.000	PYY	49.0 [kN]
							activated	100.00 percent
Point	sar 94			189.260	124.290	29.000	MXX	108.00 [kNm]
							activated	100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 94			189.260	124.290	29.000	MYX	128.00 [kNm]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PZZ	-225.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PXX	75.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	PYY	49.0 [kN]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	MYX	13.00 [kNm]
							activated	100.00 percent
Point	sar 94			208.640	124.290	29.000	MYX	135.00 [kNm]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PZZ	-252.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PXX	-75.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	PYY	33.0 [kN]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MYX	97.00 [kNm]
							activated	100.00 percent
Point	sar 96			197.680	140.990	29.000	MYX	109.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PZZ	-237.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PXX	66.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	PYY	33.0 [kN]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MYX	24.00 [kNm]
							activated	100.00 percent
Point	sar 96			216.850	140.980	29.000	MYX	118.00 [kNm]
							activated	100.00 percent

Load Case 44 ACC 42.78,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			42.780	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			42.780	143.194	23.600	PYY	750.0 [kN]
							activated	100.00 percent

Load Case 45 ACC 100.18,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			100.180	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			100.180	143.194	23.600	PYY	750.0 [kN]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent

Load Case 46 ACC 91.98,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			91.980	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			91.980	143.194	23.600	PYY	750.0 [kN]
							activated	100.00 percent

Load Case 47 ACC 83.78,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			83.780	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			83.780	143.194	23.600	PYY	750.0 [kN]
							activated	100.00 percent

Load Case 48 ACC 75.58,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			75.580	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			75.580	143.194	23.600	PYY	750.0 [kN]
							activated	100.00 percent

Load Case 49 ACC 67.38,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			67.380	143.194	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 3			67.380	143.194	23.600	PYY	750.0 [kN]
							activated	100.00 percent

Load Case 50 ACC 59.18,143.19

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			59.180	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			59.180	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 51 ACC 50.98,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			50.980	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			50.980	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 52 ACC 67.38,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			67.380	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			67.380	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 53 ACC 75.58,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			75.580	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			75.580	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 54 ACC 83.78,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			83.780	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			83.780	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 55 ACC 91.98,133.08

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			91.980	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			91.980	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 56 ACC 100.18,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			100.180	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			100.180	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 57 ACC 59.18,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 3			59.180	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 3			59.180	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 58 ACC 149.38,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			149.380	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			149.380	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 59 ACC 141.18,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			141.180	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			141.180	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 60 ACC 132.98,143.19

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			132.980	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			132.980	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 61 ACC 124.78,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			124.780	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			124.780	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 62 ACC 116.58,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			116.580	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			116.580	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 63 ACC 108.38,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			108.380	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			108.380	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 64 ACC 108.38,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			108.380	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			108.380	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 65 ACC 116.58,133.08

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			116.580	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			116.580	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 66 ACC 124.78,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			124.780	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			124.780	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 67 ACC 132.98,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			132.980	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			132.980	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 68 ACC 141.18,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			141.180	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			141.180	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 69 ACC 149.38,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 16			149.380	133.076	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 16			149.380	133.076	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 70 ACC 173.98,143.19

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			173.980	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 29			173.980	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 71 ACC 165.78,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			165.780	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 29			165.780	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 72 ACC 157.58,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			157.580	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 29			157.580	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 73 ACC 180.88,143.19

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			180.880	143.194	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 29			180.880	143.194	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 74 ACC 189.37,132.22

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	sar 62			189.373	132.225	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	sar 62			189.373	132.225	23.600	PYY	750.0 [kN]
				activated				100.00 percent

Load Case 75 ACC 157.58,133.08

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			157.580	133.076	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 29			157.580	133.076	23.600	PYY	-750.0 [kN]
							activated	100.00 percent

Load Case 76 ACC 165.78,133.08

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			165.780	133.076	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 29			165.780	133.076	23.600	PYY	-750.0 [kN]
							activated	100.00 percent

Load Case 77 ACC 173.98,134.17

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 29			173.980	134.174	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 29			173.980	134.174	23.600	PYY	-750.0 [kN]
							activated	100.00 percent

Load Case 78 ACC 212.93,132.71

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 33			212.931	132.714	23.600	PXX	591.72 [kN/m]
				216.311	132.714	23.600		591.72 [kN/m]
							activated	100.00 percent
Line	qgrp 33			212.931	132.714	23.600	PYY	221.89 [kN/m]
				216.311	132.714	23.600		221.89 [kN/m]
							activated	100.00 percent

Load Case 79 ACC 218.31,143.37

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 33			218.311	143.374	23.600	PXX	591.72 [kN/m]
				221.691	143.374	23.600		591.72 [kN/m]
							activated	100.00 percent
Line	qgrp 33			218.311	143.374	23.600	PYY	221.89 [kN/m]
				221.691	143.374	23.600		221.89 [kN/m]
							activated	100.00 percent

Geometry definition

Loads definition

Load Case 80 ACC 191.31,142.88

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 32			191.315	142.884	23.600	PXX	295.20 [kN/m]
				198.090	142.884	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 32			191.315	142.884	23.600	PYY	110.70 [kN/m]
				198.090	142.884	23.600		110.70 [kN/m]
				activated				100.00 percent

Load Case 81 ACC 204.71,119.35

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 33			204.711	119.347	23.600	PXX	591.72 [kN/m]
				208.091	119.347	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 33			204.711	119.347	23.600	PYY	-221.89 [kN/m]
				208.091	119.347	23.600		-221.89 [kN/m]
				activated				100.00 percent

Load Case 82 ACC 212.93,135.63

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 33			212.931	135.634	23.600	PXX	591.72 [kN/m]
				216.311	135.634	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 33			212.931	135.634	23.600	PYY	-221.89 [kN/m]
				216.311	135.634	23.600		-221.89 [kN/m]
				activated				100.00 percent

Load Case 83 ACC 177.78,119.84

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 32			177.785	119.838	23.600	PXX	295.20 [kN/m]
				184.560	119.838	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 32			177.785	119.838	23.600	PYY	-110.70 [kN/m]
				184.560	119.838	23.600		-110.70 [kN/m]
				activated				100.00 percent

Load Case 84 ACC 185.99,136.12

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 32			185.985	136.125	23.600	PXX	295.20 [kN/m]
				192.760	136.125	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 32			185.985	136.125	23.600	PYY	-110.70 [kN/m]
				192.760	136.125	23.600		-110.70 [kN/m]
				activated				100.00 percent

Load Case 85 ACC 196.59,100.34

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 62			196.591	100.337	23.600	PXX	591.72 [kN/m]
				199.971	100.337	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 62			196.591	100.337	23.600	PYY	221.89 [kN/m]
				199.971	100.337	23.600		221.89 [kN/m]
				activated				100.00 percent

Load Case 86 ACC 204.71,116.43

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 62			204.711	116.427	23.600	PXX	591.72 [kN/m]
				208.091	116.427	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 62			204.711	116.427	23.600	PYY	221.89 [kN/m]
				208.091	116.427	23.600		221.89 [kN/m]
				activated				100.00 percent

Load Case 87 ACC 169.59,99.85

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 61			169.585	99.848	23.600	PXX	295.20 [kN/m]
				176.360	99.848	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 61			169.585	99.848	23.600	PYY	110.70 [kN/m]
				176.360	99.848	23.600		110.70 [kN/m]
				activated				100.00 percent

Load Case 88 ACC 177.78,115.94

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 61			177.785	115.938	23.600	PXX	295.20 [kN/m]
				184.560	115.938	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 61			177.785	115.938	23.600	PYY	110.70 [kN/m]
				184.560	115.938	23.600		110.70 [kN/m]
				activated				100.00 percent

Load Case 89 ACC 188.47,87.17

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 62			188.470	87.167	23.600	PXX	591.72 [kN/m]
				191.850	87.167	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 62			188.470	87.167	23.600	PYY	-221.89 [kN/m]
				191.850	87.167	23.600		-221.89 [kN/m]
				activated				100.00 percent

Load Case 90 ACC 196.59,103.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 62			196.591	103.257	23.600	PXX	591.72 [kN/m]
				199.971	103.257	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 62			196.591	103.257	23.600	PYY	-221.89 [kN/m]
				199.971	103.257	23.600		-221.89 [kN/m]
				activated				100.00 percent

Load Case 91 ACC 161.38,87.66

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 61			161.385	87.658	23.600	PXX	295.20 [kN/m]
				168.160	87.658	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 61			161.385	87.658	23.600	PYY	-110.70 [kN/m]
				168.160	87.658	23.600		-110.70 [kN/m]
				activated				100.00 percent

Load Case 92 ACC 169.59,103.75

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 61			169.585	103.748	23.600	PXX	295.20 [kN/m]
				176.360	103.748	23.600		295.20 [kN/m]
				activated				100.00 percent
Line	qgrp 61			169.585	103.748	23.600	PYY	-110.70 [kN/m]
				176.360	103.748	23.600		-110.70 [kN/m]
				activated				100.00 percent

Load Case 93 ACC 189.99,70.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 72			189.993	70.257	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 72			189.993	70.257	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 94 ACC 198.43,70.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 72			198.433	70.257	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 72			198.433	70.257	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 95 ACC 206.87,70.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 72			206.873	70.257	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 72			206.873	70.257	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Load Case 96 ACC 175.11,70.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 72			175.111	70.257	23.600	PXX	2000.0 [kN]
				activated				100.00 percent
Point	bgrp 72			175.111	70.257	23.600	PYY	-750.0 [kN]
				activated				100.00 percent

Geometry definition

Loads definition

Load Case 97 ACC 170.45,70.26

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Point	bgrp 72			170.453	70.257	23.600	PXX	2000.0 [kN]
							activated	100.00 percent
Point	bgrp 72			170.453	70.257	23.600	PYY	-750.0 [kN]
							activated	100.00 percent

Load Case 98 ACC 188.47,84.25

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 75			188.470	84.247	23.600	PXX	591.72 [kN/m]
				191.850	84.247	23.600		591.72 [kN/m]
							activated	100.00 percent
Line	qgrp 75			188.470	84.247	23.600	PYY	221.89 [kN/m]
				191.850	84.247	23.600		221.89 [kN/m]
							activated	100.00 percent

Load Case 99 ACC 161.38,83.76

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 74			161.385	83.758	23.600	PXX	295.20 [kN/m]
				168.160	83.758	23.600		295.20 [kN/m]
							activated	100.00 percent
Line	qgrp 74			161.385	83.758	23.600	PYY	110.70 [kN/m]
				168.160	83.758	23.600		110.70 [kN/m]
							activated	100.00 percent

Load Case 100 ACC 162.11,71.35

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 74			162.106	71.352	23.600	PXX	238.10 [kN/m]
				153.706	71.352	23.600		238.10 [kN/m]
							activated	100.00 percent
Line	qgrp 74			162.106	71.352	23.600	PYY	-89.29 [kN/m]
				153.706	71.352	23.600		-89.29 [kN/m]
							activated	100.00 percent

Load Case 101 ACC 180.49,71.16

Factor forces and moments 1.000

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 75			180.491	71.157	23.600	PXX	591.72 [kN/m]
				183.871	71.157	23.600		591.72 [kN/m]
				activated				100.00 percent
Line	qgrp 75			180.491	71.157	23.600	PYY	-221.89 [kN/m]
				183.871	71.157	23.600		-221.89 [kN/m]
				activated				100.00 percent

Load Case 102 QX1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PXX	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PXX	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PXX	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PXX	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PXX	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PXX	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PXX	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	143.194	27.400	PXX	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PXX	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PXX	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PXX	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PXX	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PXX	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PXX	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PXX	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PXX	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 103 QX2

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PXX	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PXX	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PXX	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PXX	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PXX	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PXX	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PXX	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PXX	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PXX	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PXX	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PXX	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PXX	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PXX	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PXX	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PXX	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
activated								100.00 percent

Load Case 104 QX3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
activated								100.00 percent
Area	sar 18			37.137	142.194	27.400	PXX	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
activated								100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
activated								100.00 percent
Area	sar 44			104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
activated								100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 105 QX4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PXX	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PXX	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PXX	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PXX	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PXX	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PXX	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PXX	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	143.194	27.400	PXX	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
Area	sar 100			activated				100.00 percent
				186.312	146.784	27.400	PXX	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
Area	sar -mult-			186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
				56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
Area	sar 18			104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
				37.137	142.194	27.400	PXX	0.50 [kN/m2]
Area	sar -mult-			104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
Area	sar -mult-			activated				100.00 percent
				104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
Area	sar -mult-			104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
				153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
Area	sar -mult-			169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
Area	sar -mult-			200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
Area	sar -mult-			216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
Area	sar -mult-			221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
Area	sar -mult-			205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
Area	sar -mult-			activated				100.00 percent
				activated				100.00 percent
				activated				100.00 percent
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Load Case 106 QX5

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PXX	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PXX	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PXX	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PXX	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PXX	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PXX	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PXX	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 107 QX6

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PXX	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PXX	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PXX	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PXX	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PXX	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PXX	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PXX	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PXX	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PXX	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PXX	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PXX	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PXX	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 108 QX7

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PXX	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PXX	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PXX	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PXX	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 109 QX8

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PXX	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PXX	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PXX	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 43			104.305	144.194	27.400	PXX	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PXX	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PXX	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PXX	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PXX	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PXX	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PXX	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PXX	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PXX	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PXX	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PXX	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
activated								100.00 percent

Load Case 110 QX9

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PXX	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
activated								100.00 percent
Area	sar 18			37.137	142.194	27.400	PXX	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
activated								100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PXX	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
activated								100.00 percent
Area	sar 44			104.305	142.194	27.400	PXX	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
activated								100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PXX	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PXX	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PXX	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PXX	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PXX	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PXX	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 111 QY1

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PYY	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PYY	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PYY	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PYY	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PYY	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PYY	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PYY	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PYY	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PYY	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PYY	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PYY	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PYY	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PYY	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PYY	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PYY	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Load Case 112 QY2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PYY	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PYY	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PYY	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PYY	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PYY	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PYY	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PYY	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PYY	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PYY	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			87.545	117.912	29.000	PYY	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PYY	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PYY	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PYY	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PYY	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PYY	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 113 QY3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 114 QY4

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PYY	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PYY	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PYY	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PYY	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 95			205.566	146.784	29.000	PYY	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PYY	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PYY	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PYY	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PYY	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar	88		153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar	-mult-		156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 115 QY5

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			87.545	117.912	29.000	PYY	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PYY	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PYY	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PYY	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PYY	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PYY	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Load Case 116 QY6

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PYY	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PYY	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PYY	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PYY	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PYY	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PYY	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PYY	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PYY	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PYY	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			87.545	117.912	29.000	PYY	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			104.305	117.912	29.000	PYY	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			153.505	117.912	29.000	PYY	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
		169.880	133.076	29.000		0.50 [kN/m2]		
		153.505	133.076	29.000		0.50 [kN/m2]		
				activated			100.00 percent	
Area	sar -mult-			120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated			100.00 percent	
Area	sar -mult-			153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
		204.711	117.862	29.000		0.50 [kN/m2]		

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 117 QY7

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PYY	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PYY	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PYY	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Load Case 118 QY8

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 18			35.061	143.194	27.400	PYY	0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				32.985	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 17			32.985	144.194	27.400	PYY	0.50 [kN/m2]
				104.255	144.194	27.400		0.50 [kN/m2]
				104.255	145.657	27.400		0.50 [kN/m2]
				31.288	145.012	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	143.194	27.400	PYY	0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				104.305	144.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 43			104.305	144.194	27.400	PYY	0.50 [kN/m2]
				153.455	144.194	27.400		0.50 [kN/m2]
				153.455	146.092	27.400		0.50 [kN/m2]
				104.305	145.658	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 95			205.566	146.784	29.000	PYY	0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				226.869	149.420	29.000		0.50 [kN/m2]
				205.566	149.420	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 93			205.565	144.834	29.000	PYY	0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				218.311	146.294	29.000		0.50 [kN/m2]
				221.691	146.294	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				225.538	146.784	29.000		0.50 [kN/m2]
				205.565	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			183.791	142.194	29.000	PYY	0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				196.165	142.884	29.000		0.50 [kN/m2]
				196.165	146.785	29.000		0.50 [kN/m2]
				186.312	146.784	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	143.194	27.400	PYY	0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				186.091	146.381	27.400		0.50 [kN/m2]
				153.505	146.093	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 100			186.312	146.784	27.400	PYY	0.50 [kN/m2]
				205.566	146.784	28.450		0.50 [kN/m2]
				205.566	149.420	28.450		0.50 [kN/m2]
				186.312	149.420	27.400		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			87.545	117.912	29.000	PYY	0.50 [kN/m2]
				104.255	117.912	29.000		0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				56.066	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	117.912	29.000	PYY	0.50 [kN/m2]
				153.455	117.912	29.000		0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				104.305	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	117.912	29.000	PYY	0.50 [kN/m2]
				182.635	117.912	29.000		0.50 [kN/m2]
				182.635	119.838	29.000		0.50 [kN/m2]
				192.035	119.837	29.000		0.50 [kN/m2]
				192.035	117.912	29.000		0.50 [kN/m2]
				204.711	117.912	29.000		0.50 [kN/m2]
				204.711	119.347	29.000		0.50 [kN/m2]
				208.091	119.347	29.000		0.50 [kN/m2]
				208.091	117.912	29.000		0.50 [kN/m2]
				210.967	117.912	29.000		0.50 [kN/m2]
				219.174	134.175	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				216.311	132.714	29.000		0.50 [kN/m2]
				212.931	132.714	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				200.235	132.225	29.000		0.50 [kN/m2]
				190.835	132.225	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				153.505	133.076	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			147.095	85.732	29.000	PYY	0.50 [kN/m2]
				152.855	85.732	29.000		0.50 [kN/m2]
				152.855	87.632	29.000		0.50 [kN/m2]
				153.455	87.632	29.000		0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				120.999	101.797	29.000		0.50 [kN/m2]
				140.929	92.197	29.000		0.50 [kN/m2]
				143.890	90.182	29.000		0.50 [kN/m2]
				145.984	87.632	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	85.732	29.000	PYY	0.50 [kN/m2]
				166.235	85.732	29.000		0.50 [kN/m2]
				166.235	87.657	29.000		0.50 [kN/m2]
				175.635	87.657	29.000		0.50 [kN/m2]
				175.635	85.732	29.000		0.50 [kN/m2]
				188.470	85.732	29.000		0.50 [kN/m2]
				188.470	87.167	29.000		0.50 [kN/m2]
				191.850	87.167	29.000		0.50 [kN/m2]
				191.850	85.732	29.000		0.50 [kN/m2]
				201.663	85.732	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				200.662	87.658	29.000		0.50 [kN/m2]
				199.890	90.091	29.000		0.50 [kN/m2]
				199.623	92.629	29.000		0.50 [kN/m2]
				199.870	95.170	29.000		0.50 [kN/m2]
				200.623	97.609	29.000		0.50 [kN/m2]
				201.850	99.847	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				199.971	101.797	29.000		0.50 [kN/m2]
				199.971	100.337	29.000		0.50 [kN/m2]
				196.591	100.337	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				183.835	99.848	29.000		0.50 [kN/m2]
				174.435	99.848	29.000		0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				153.505	101.798	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent

Load Case 119 QY9

Factor forces and moments

1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar -mult-			56.066	133.076	29.000	PYY	0.50 [kN/m2]
				104.255	133.076	29.000		0.50 [kN/m2]
				104.255	142.194	29.000		0.50 [kN/m2]
				37.137	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 18			37.137	142.194	27.400	PYY	0.50 [kN/m2]
				104.255	142.194	27.400		0.50 [kN/m2]
				104.255	143.194	27.400		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				35.061	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			104.305	133.076	29.000	PYY	0.50 [kN/m2]
				153.455	133.076	29.000		0.50 [kN/m2]
				153.455	142.194	29.000		0.50 [kN/m2]
				104.305	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 44			104.305	142.194	27.400	PYY	0.50 [kN/m2]
				153.455	142.194	27.400		0.50 [kN/m2]
				153.455	143.194	27.400		0.50 [kN/m2]
				104.305	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	133.076	29.000	PYY	0.50 [kN/m2]
				169.880	133.076	29.000		0.50 [kN/m2]
				169.880	134.174	29.000		0.50 [kN/m2]
				190.835	134.174	29.000		0.50 [kN/m2]
				190.835	136.126	29.000		0.50 [kN/m2]
				200.235	136.125	29.000		0.50 [kN/m2]
				200.235	134.174	29.000		0.50 [kN/m2]
				212.931	134.174	29.000		0.50 [kN/m2]
				212.931	135.634	29.000		0.50 [kN/m2]
				216.311	135.634	29.000		0.50 [kN/m2]
				216.311	134.174	29.000		0.50 [kN/m2]
				219.174	134.174	29.000		0.50 [kN/m2]
				224.554	144.834	29.000		0.50 [kN/m2]
				221.691	144.834	29.000		0.50 [kN/m2]
				221.691	143.374	29.000		0.50 [kN/m2]
				218.311	143.374	29.000		0.50 [kN/m2]
				218.311	144.834	29.000		0.50 [kN/m2]
				205.565	144.834	29.000		0.50 [kN/m2]
				205.565	142.884	29.000		0.50 [kN/m2]
				184.170	142.884	29.000		0.50 [kN/m2]
				183.791	142.194	29.000		0.50 [kN/m2]
				153.505	142.194	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar 88			153.505	142.194	27.400	PYY	0.50 [kN/m2]
				183.791	142.194	27.400		0.50 [kN/m2]
				184.341	143.194	27.400		0.50 [kN/m2]
				153.505	143.194	27.400		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			120.999	101.797	29.000	PYY	0.50 [kN/m2]
				153.455	101.797	29.000		0.50 [kN/m2]
				153.455	117.862	29.000		0.50 [kN/m2]
				87.649	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			153.505	101.798	29.000	PYY	0.50 [kN/m2]
				174.435	101.798	29.000		0.50 [kN/m2]
				174.435	103.748	29.000		0.50 [kN/m2]
				183.835	103.748	29.000		0.50 [kN/m2]
				183.835	101.797	29.000		0.50 [kN/m2]
				196.591	101.797	29.000		0.50 [kN/m2]
				196.591	103.748	29.000		0.50 [kN/m2]
				199.971	103.748	29.000		0.50 [kN/m2]

Geometry definition

Loads definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				199.971	101.797	29.000		0.50 [kN/m2]
				202.834	101.797	29.000		0.50 [kN/m2]
				210.942	117.862	29.000		0.50 [kN/m2]
				208.091	117.862	29.000		0.50 [kN/m2]
				208.091	116.427	29.000		0.50 [kN/m2]
				204.711	116.427	29.000		0.50 [kN/m2]
				204.711	117.862	29.000		0.50 [kN/m2]
				192.035	117.862	29.000		0.50 [kN/m2]
				192.035	115.938	29.000		0.50 [kN/m2]
				182.635	115.938	29.000		0.50 [kN/m2]
				182.635	117.864	29.000		0.50 [kN/m2]
				153.505	117.862	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			156.112	70.257	29.000	PYY	0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				159.773	71.352	29.000		0.50 [kN/m2]
				169.173	71.352	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				180.491	71.157	29.000		0.50 [kN/m2]
				183.871	71.157	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				201.691	85.682	29.000		0.50 [kN/m2]
				191.850	85.682	29.000		0.50 [kN/m2]
				191.850	84.247	29.000		0.50 [kN/m2]
				188.470	84.247	29.000		0.50 [kN/m2]
				188.470	85.682	29.000		0.50 [kN/m2]
				175.635	85.682	29.000		0.50 [kN/m2]
				175.635	83.758	29.000		0.50 [kN/m2]
				166.235	83.758	29.000		0.50 [kN/m2]
				166.235	85.683	29.000		0.50 [kN/m2]
				147.124	85.682	29.000		0.50 [kN/m2]
				activated				100.00 percent
Area	sar -mult-			158.281	66.536	29.000	PYY	0.50 [kN/m2]
				212.106	66.536	29.000		0.50 [kN/m2]
				210.100	70.222	29.000		0.50 [kN/m2]
				183.871	70.222	29.000		0.50 [kN/m2]
				183.871	68.237	29.000		0.50 [kN/m2]
				180.491	68.237	29.000		0.50 [kN/m2]
				180.491	70.222	29.000		0.50 [kN/m2]
				169.173	70.222	29.000		0.50 [kN/m2]
				169.173	69.163	29.000		0.50 [kN/m2]
				159.773	69.162	29.000		0.50 [kN/m2]
				159.773	70.257	29.000		0.50 [kN/m2]
				156.112	70.257	29.000		0.50 [kN/m2]
				activated				100.00 percent

Geometry definition

Analyzes of load case G0-1

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
1	0.0	0.0	-188699.2	G0-1

Geometry definition

Analyzes of load case G0-2

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
2	0.0	0.0	-27957.3	G0-2

Geometry definition

Analyzes of load case G0-3

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
3	0.0	0.0	-63678.7	G0-3

Geometry definition

Analyzes of load case G0-4

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
4	0.0	0.0	-35607.8	G0-4

Geometry definition

Load case analyzes

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
5	0.0	0.0	-21767.2	G1_1
6	0.0	0.0	-19452.7	G1_2
7	0.0	0.0	-28727.6	G1_3
8	0.0	0.0	-13110.0	G1_4
9	0.0	0.0	-19913.3	G1_5
10	0.0	0.0	-11372.2	G1_6
11	2.0	411.0	4420.0	G1_7
12	0.0	0.0	6928.7	CS
13	0.0	0.0	-9099.7	TExp+0.75*THeat
14	0.0	0.0	9238.3	TCon+0.75*THeat
15	0.0	0.0	9238.3	TCon+0.75*TCool
16	0.0	0.0	9238.3	TCon+0.75*TCool
17	0.0	0.0	-3187.2	TExp*0.35+THeat
18	0.0	0.0	3233.4	TCon*0.35+THeat
19	0.0	0.0	-3187.2	TExp*0.35+TCool
20	0.0	0.0	3233.4	TCon*0.35+TCool
21	0.0	0.0	-40095.9	Q1
22	0.0	0.0	-19502.3	Q2
23	0.0	0.0	-20593.5	Q3
24	0.0	0.0	-23402.4	Q4
25	0.0	0.0	-25281.5	Q5
26	0.0	0.0	-25686.1	Q6
27	0.0	0.0	-22404.7	Q7
28	0.0	0.0	-22602.3	Q8
29	0.0	0.0	-21504.1	Q9
30	0.0	0.0	-20047.8	S1
31	0.0	0.0	-9751.1	S2
32	0.0	0.0	-10296.7	S3
33	0.0	0.0	-11701.1	S4
34	0.0	0.0	-12640.7	S5
35	0.0	0.0	-12843.0	S6
36	0.0	0.0	-11202.3	S7
37	0.0	0.0	-11301.1	S8
38	0.0	0.0	-10752.0	S9
39	0.0	303.0	2204.0	SR
40	764.1	0.0	0.0	WL
41	-461.0	0.0	0.0	WR
42	0.0	101.0	674.0	WP
43	1.0	288.0	-2359.0	WS
44	2000.0	750.0	0.0	ACC 42.78,143.19
45	2000.0	750.0	0.0	ACC 100.18,143.19
46	2000.0	750.0	0.0	ACC 91.98,143.19
47	2000.0	750.0	0.0	ACC 83.78,143.19
48	2000.0	750.0	0.0	ACC 75.58,143.19
49	2000.0	750.0	0.0	ACC 67.38,143.19
50	2000.0	750.0	0.0	ACC 59.18,143.19
51	2000.0	750.0	0.0	ACC 50.98,143.19
52	2000.0	-750.0	0.0	ACC 67.38,133.08
53	2000.0	-750.0	0.0	ACC 75.58,133.08
54	2000.0	-750.0	0.0	ACC 83.78,133.08
55	2000.0	-750.0	0.0	ACC 91.98,133.08
56	2000.0	-750.0	0.0	ACC 100.18,133.08
57	2000.0	-750.0	0.0	ACC 59.18,133.08

Geometry definition

Load case analyzes

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
58	2000.0	750.0	0.0	ACC 149.38,143.19
59	2000.0	750.0	0.0	ACC 141.18,143.19
60	2000.0	750.0	0.0	ACC 132.98,143.19
61	2000.0	750.0	0.0	ACC 124.78,143.19
62	2000.0	750.0	0.0	ACC 116.58,143.19
63	2000.0	750.0	0.0	ACC 108.38,143.19
64	2000.0	-750.0	0.0	ACC 108.38,133.08
65	2000.0	-750.0	0.0	ACC 116.58,133.08
66	2000.0	-750.0	0.0	ACC 124.78,133.08
67	2000.0	-750.0	0.0	ACC 132.98,133.08
68	2000.0	-750.0	0.0	ACC 141.18,133.08
69	2000.0	-750.0	0.0	ACC 149.38,133.08
70	2000.0	750.0	0.0	ACC 173.98,143.19
71	2000.0	750.0	0.0	ACC 165.78,143.19
72	2000.0	750.0	0.0	ACC 157.58,143.19
73	2000.0	750.0	0.0	ACC 180.88,143.19
74	2000.0	750.0	0.0	ACC 189.37,132.22
75	2000.0	-750.0	0.0	ACC 157.58,133.08
76	2000.0	-750.0	0.0	ACC 165.78,133.08
77	2000.0	-750.0	0.0	ACC 173.98,134.17
78	2000.0	750.0	0.0	ACC 212.93,132.71
79	2000.0	750.0	0.0	ACC 218.31,143.37
80	2000.0	750.0	0.0	ACC 191.31,142.88
81	2000.0	-750.0	0.0	ACC 204.71,119.35
82	2000.0	-750.0	0.0	ACC 212.93,135.63
83	2000.0	-750.0	0.0	ACC 177.78,119.84
84	2000.0	-750.0	0.0	ACC 185.99,136.12
85	2000.0	750.0	0.0	ACC 196.59,100.34
86	2000.0	750.0	0.0	ACC 204.71,116.43
87	2000.0	750.0	0.0	ACC 169.59,99.85
88	2000.0	750.0	0.0	ACC 177.78,115.94
89	2000.0	-750.0	0.0	ACC 188.47,87.17
90	2000.0	-750.0	0.0	ACC 196.59,103.26
91	2000.0	-750.0	0.0	ACC 161.38,87.66
92	2000.0	-750.0	0.0	ACC 169.59,103.75
93	2000.0	-750.0	0.0	ACC 189.99,70.26
94	2000.0	-750.0	0.0	ACC 198.43,70.26
95	2000.0	-750.0	0.0	ACC 206.87,70.26
96	2000.0	-750.0	0.0	ACC 175.11,70.26
97	2000.0	-750.0	0.0	ACC 170.45,70.26
98	2000.0	750.0	0.0	ACC 188.47,84.25
99	2000.0	750.0	0.0	ACC 161.38,83.76
100	2000.0	-750.0	0.0	ACC 162.11,71.35
101	2000.0	-750.0	0.0	ACC 180.49,71.16
102	4009.2	0.0	0.0	QX1
103	1950.0	0.0	0.0	QX2
104	2059.2	0.0	0.0	QX3
105	2340.0	0.0	0.0	QX4
106	2527.9	0.0	0.0	QX5
107	2568.4	0.0	0.0	QX6
108	2240.3	0.0	0.0	QX7
109	2260.0	0.0	0.0	QX8
110	2150.3	0.0	0.0	QX9

Geometry definition

Load case analyzes

Sum of Loadings

Loadcase	$\Sigma(\text{Loads})$			Designation
	X[kN]	Y[kN]	Z[kN]	
111	0.0	4009.2	0.0	QY1
112	0.0	1950.0	0.0	QY2
113	0.0	2059.2	0.0	QY3
114	0.0	2340.0	0.0	QY4
115	0.0	2527.9	0.0	QY5
116	0.0	2568.4	0.0	QY6
117	0.0	2240.3	0.0	QY7
118	0.0	2260.0	0.0	QY8
119	0.0	2150.3	0.0	QY9

Geometry definition
Superposition of loads

Design Code

EuroNorm Bridges: EN 1990:2002 Basis of structural design (Europe) V 2023

Combination rule Number 1

C1-PERM

Resulting Load Cases type SLS quasi-permanent combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.50	A1	TExp+0.75*THeat
14	0.50	A1	TCon+0.75*THeat
15	0.50	A1	TCon+0.75*TCool
16	0.50	A1	TCon+0.75*TCool
17	0.50	A1	TExp*0.35+THeat
18	0.50	A1	TCon*0.35+THeat
19	0.50	A1	TExp*0.35+TCool
20	0.50	A1	TCon*0.35+TCool

Fact factor for load case
Type type of the load case
AG exclusive load permanent
A exclusive load

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Combination rule Number 2

C2-RARE_Q

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.60	A1	TExp+0.75*THeat
14	0.60	A1	TCon+0.75*THeat
15	0.60	A1	TCon+0.75*TCool
16	0.60	A1	TCon+0.75*TCool
17	0.60	A1	TExp*0.35+THeat
18	0.60	A1	TCon*0.35+THeat
19	0.60	A1	TExp*0.35+TCool

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
20	0.60	A1	TCon*0.35+TCool
21	1.00	A2	Q1
22	1.00	A2	Q2
23	1.00	A2	Q3
24	1.00	A2	Q4
25	1.00	A2	Q5
26	1.00	A2	Q6
27	1.00	A2	Q7
28	1.00	A2	Q8
29	1.00	A2	Q9
102	1.00	X1	QX1
103	1.00	X1	QX2
104	1.00	X1	QX3
105	1.00	X1	QX4
106	1.00	X1	QX5
107	1.00	X1	QX6
108	1.00	X1	QX7
109	1.00	X1	QX8
110	1.00	X1	QX9
111	1.00	X1	QY1
112	1.00	X1	QY2
113	1.00	X1	QY3
114	1.00	X1	QY4
115	1.00	X1	QY5
116	1.00	X1	QY6
117	1.00	X1	QY7
118	1.00	X1	QY8
119	1.00	X1	QY9
30	0.50	A3	S1
31	0.50	A3	S2
32	0.50	A3	S3
33	0.50	A3	S4
34	0.50	A3	S5
35	0.50	A3	S6
36	0.50	A3	S7
37	0.50	A3	S8
38	0.50	A3	S9
39	0.50	A4	SR
40	0.60	A5	WL
41	0.60	A5	WR
42	0.60	A6	WP
43	0.60	A6	WS
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			
X exclusive load with changing sign			

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Combination rule Number 3

C3-RARE_S

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.60	A1	TExp+0.75*THeat
14	0.60	A1	TCon+0.75*THeat
15	0.60	A1	TCon+0.75*TCool
16	0.60	A1	TCon+0.75*TCool
17	0.60	A1	TExp*0.35+THeat
18	0.60	A1	TCon*0.35+THeat
19	0.60	A1	TExp*0.35+TCool
20	0.60	A1	TCon*0.35+TCool
21	0.70	A2	Q1
22	0.70	A2	Q2
23	0.70	A2	Q3
24	0.70	A2	Q4
25	0.70	A2	Q5
26	0.70	A2	Q6
27	0.70	A2	Q7
28	0.70	A2	Q8
29	0.70	A2	Q9
102	0.70	X1	QX1
103	0.70	X1	QX2
104	0.70	X1	QX3
105	0.70	X1	QX4
106	0.70	X1	QX5
107	0.70	X1	QX6
108	0.70	X1	QX7
109	0.70	X1	QX8
110	0.70	X1	QX9
111	0.70	X1	QY1
112	0.70	X1	QY2
113	0.70	X1	QY3
114	0.70	X1	QY4
115	0.70	X1	QY5
116	0.70	X1	QY6
117	0.70	X1	QY7
118	0.70	X1	QY8
119	0.70	X1	QY9
30	1.00	A3	S1
31	1.00	A3	S2
32	1.00	A3	S3
33	1.00	A3	S4
34	1.00	A3	S5
35	1.00	A3	S6
36	1.00	A3	S7
37	1.00	A3	S8
38	1.00	A3	S9
39	1.00	A4	SR

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
40	0.60	A5	WL
41	0.60	A5	WR
42	0.60	A6	WP
43	0.60	A6	WS
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			
X exclusive load with changing sign			

Combination rule Number 4

C4-RARE_W

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.60	A1	TExp+0.75*THeat
14	0.60	A1	TCon+0.75*THeat
15	0.60	A1	TCon+0.75*TCool
16	0.60	A1	TCon+0.75*TCool
17	0.60	A1	TExp*0.35+THeat
18	0.60	A1	TCon*0.35+THeat
19	0.60	A1	TExp*0.35+TCool
20	0.60	A1	TCon*0.35+TCool
21	0.70	A2	Q1
22	0.70	A2	Q2
23	0.70	A2	Q3
24	0.70	A2	Q4
25	0.70	A2	Q5
26	0.70	A2	Q6
27	0.70	A2	Q7
28	0.70	A2	Q8
29	0.70	A2	Q9
102	0.70	X1	QX1
103	0.70	X1	QX2
104	0.70	X1	QX3
105	0.70	X1	QX4
106	0.70	X1	QX5
107	0.70	X1	QX6
108	0.70	X1	QX7
109	0.70	X1	QX8
110	0.70	X1	QX9
111	0.70	X1	QY1
112	0.70	X1	QY2
113	0.70	X1	QY3

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
114	0.70	X1	QY4
115	0.70	X1	QY5
116	0.70	X1	QY6
117	0.70	X1	QY7
118	0.70	X1	QY8
119	0.70	X1	QY9
30	0.50	A3	S1
31	0.50	A3	S2
32	0.50	A3	S3
33	0.50	A3	S4
34	0.50	A3	S5
35	0.50	A3	S6
36	0.50	A3	S7
37	0.50	A3	S8
38	0.50	A3	S9
39	0.50	A4	SR
40	1.00	A5	WL
41	1.00	A5	WR
42	1.00	A6	WP
43	1.00	A6	WS

Fact factor for load case
Type type of the load case
AG exclusive load permanent
A exclusive load
X exclusive load with changing sign

Combination rule Number 5

C5-DESI_G1_1_sub

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1

Fact factor for load case
Type type of the load case
AG exclusive load permanent

Combination rule Number 6

C6-DESI_G1_2_sub

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2

Fact factor for load case
Type type of the load case
AG exclusive load permanent

Geometry definition

Superposition of loads

Combination rule Number 7

C7-DESI_G1_3_sub

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Combination rule Number 8

C8-DESI_G1_4_sub

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Combination rule Number 9

C9-DESI_G1_5_sub

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
9	1.35	AG9	G1_5
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Combination rule Number 10

C10-DESI_G1_6_sub

Resulting Load Cases type ULS fundamental combination

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
9	1.35	AG9	G1_5
10	1.35	AG10	G1_6
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Combination rule Number 11

C11-DESI_Q_inf

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*THeat
14	0.90	A1	TCon+0.75*THeat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+THeat
18	0.90	A1	TCon*0.35+THeat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool
21	1.50	A2	Q1
22	1.50	A2	Q2
23	1.50	A2	Q3
24	1.50	A2	Q4
25	1.50	A2	Q5
26	1.50	A2	Q6
27	1.50	A2	Q7
28	1.50	A2	Q8
29	1.50	A2	Q9
102	1.50	X1	QX1
103	1.50	X1	QX2
104	1.50	X1	QX3
105	1.50	X1	QX4
106	1.50	X1	QX5
107	1.50	X1	QX6
108	1.50	X1	QX7

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
109	1.50	X1	QX8
110	1.50	X1	QX9
111	1.50	X1	QY1
112	1.50	X1	QY2
113	1.50	X1	QY3
114	1.50	X1	QY4
115	1.50	X1	QY5
116	1.50	X1	QY6
117	1.50	X1	QY7
118	1.50	X1	QY8
119	1.50	X1	QY9
30	0.75	A3	S1
31	0.75	A3	S2
32	0.75	A3	S3
33	0.75	A3	S4
34	0.75	A3	S5
35	0.75	A3	S6
36	0.75	A3	S7
37	0.75	A3	S8
38	0.75	A3	S9
39	0.75	A4	SR
40	0.90	A5	WL
41	0.90	A5	WR
42	0.90	A6	WP
43	0.90	A6	WS
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load X exclusive load with changing sign			

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Combination rule Number 12

C12-DESI_S_inf

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*THeat
14	0.90	A1	TCon+0.75*THeat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+THeat
18	0.90	A1	TCon*0.35+THeat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
21	1.05	A2	Q1
22	1.05	A2	Q2
23	1.05	A2	Q3
24	1.05	A2	Q4
25	1.05	A2	Q5
26	1.05	A2	Q6
27	1.05	A2	Q7
28	1.05	A2	Q8
29	1.05	A2	Q9
102	1.05	X1	QX1
103	1.05	X1	QX2
104	1.05	X1	QX3
105	1.05	X1	QX4
106	1.05	X1	QX5
107	1.05	X1	QX6
108	1.05	X1	QX7
109	1.05	X1	QX8
110	1.05	X1	QX9
111	1.05	X1	QY1
112	1.05	X1	QY2
113	1.05	X1	QY3
114	1.05	X1	QY4
115	1.05	X1	QY5
116	1.05	X1	QY6
117	1.05	X1	QY7
118	1.05	X1	QY8
119	1.05	X1	QY9
30	1.50	A3	S1
31	1.50	A3	S2
32	1.50	A3	S3
33	1.50	A3	S4
34	1.50	A3	S5
35	1.50	A3	S6
36	1.50	A3	S7
37	1.50	A3	S8
38	1.50	A3	S9
39	1.50	A4	SR
40	0.90	A5	WL
41	0.90	A5	WR
42	0.90	A6	WP
43	0.90	A6	WS
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load X exclusive load with changing sign			

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Combination rule Number 13

C13-DESI_W_inf

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*THeat
14	0.90	A1	TCon+0.75*THeat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+THeat
18	0.90	A1	TCon*0.35+THeat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool
21	1.05	A2	Q1
22	1.05	A2	Q2
23	1.05	A2	Q3
24	1.05	A2	Q4
25	1.05	A2	Q5
26	1.05	A2	Q6
27	1.05	A2	Q7
28	1.05	A2	Q8
29	1.05	A2	Q9
102	1.05	X1	QX1
103	1.05	X1	QX2
104	1.05	X1	QX3
105	1.05	X1	QX4
106	1.05	X1	QX5
107	1.05	X1	QX6
108	1.05	X1	QX7
109	1.05	X1	QX8
110	1.05	X1	QX9
111	1.05	X1	QY1
112	1.05	X1	QY2
113	1.05	X1	QY3
114	1.05	X1	QY4
115	1.05	X1	QY5
116	1.05	X1	QY6
117	1.05	X1	QY7
118	1.05	X1	QY8
119	1.05	X1	QY9
30	0.75	A3	S1
31	0.75	A3	S2
32	0.75	A3	S3
33	0.75	A3	S4
34	0.75	A3	S5
35	0.75	A3	S6
36	0.75	A3	S7
37	0.75	A3	S8
38	0.75	A3	S9
39	0.75	A4	SR
40	1.50	A5	WL

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
41	1.50	A5	WR
42	1.50	A6	WP
43	1.50	A6	WS
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			
X exclusive load with changing sign			

Combination rule Number 14

C14-DESI_Q_sup

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
9	1.35	AG9	G1_5
10	1.35	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*THeat
14	0.90	A1	TCon+0.75*THeat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+THeat
18	0.90	A1	TCon*0.35+THeat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool
21	1.50	A2	Q1
22	1.50	A2	Q2
23	1.50	A2	Q3
24	1.50	A2	Q4
25	1.50	A2	Q5
26	1.50	A2	Q6
27	1.50	A2	Q7
28	1.50	A2	Q8
29	1.50	A2	Q9
102	1.50	X1	QX1
103	1.50	X1	QX2
104	1.50	X1	QX3
105	1.50	X1	QX4
106	1.50	X1	QX5
107	1.50	X1	QX6
108	1.50	X1	QX7
109	1.50	X1	QX8
110	1.50	X1	QX9
111	1.50	X1	QY1
112	1.50	X1	QY2
113	1.50	X1	QY3
114	1.50	X1	QY4

Geometry definition

Superposition of loads

Load Case selection

Number	Fact	Type	Designation
115	1.50	X1	QY5
116	1.50	X1	QY6
117	1.50	X1	QY7
118	1.50	X1	QY8
119	1.50	X1	QY9
30	0.75	A3	S1
31	0.75	A3	S2
32	0.75	A3	S3
33	0.75	A3	S4
34	0.75	A3	S5
35	0.75	A3	S6
36	0.75	A3	S7
37	0.75	A3	S8
38	0.75	A3	S9
39	0.75	A4	SR
40	0.90	A5	WL
41	0.90	A5	WR
42	0.90	A6	WP
43	0.90	A6	WS
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load X exclusive load with changing sign			

Combination rule Number 15

C15-DESI_S_sup

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
9	1.35	AG9	G1_5
10	1.35	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*Theat
14	0.90	A1	TCon+0.75*Theat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+Theat
18	0.90	A1	TCon*0.35+Theat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool
21	1.05	A2	Q1
22	1.05	A2	Q2
23	1.05	A2	Q3
24	1.05	A2	Q4
25	1.05	A2	Q5
26	1.05	A2	Q6

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
27	1.05	A2	Q7
28	1.05	A2	Q8
29	1.05	A2	Q9
102	1.05	X1	QX1
103	1.05	X1	QX2
104	1.05	X1	QX3
105	1.05	X1	QX4
106	1.05	X1	QX5
107	1.05	X1	QX6
108	1.05	X1	QX7
109	1.05	X1	QX8
110	1.05	X1	QX9
111	1.05	X1	QY1
112	1.05	X1	QY2
113	1.05	X1	QY3
114	1.05	X1	QY4
115	1.05	X1	QY5
116	1.05	X1	QY6
117	1.05	X1	QY7
118	1.05	X1	QY8
119	1.05	X1	QY9
30	1.50	A3	S1
31	1.50	A3	S2
32	1.50	A3	S3
33	1.50	A3	S4
34	1.50	A3	S5
35	1.50	A3	S6
36	1.50	A3	S7
37	1.50	A3	S8
38	1.50	A3	S9
39	1.50	A4	SR
40	0.90	A5	WL
41	0.90	A5	WR
42	0.90	A6	WP
43	0.90	A6	WS

Fact factor for load case
Type type of the load case
AG exclusive load permanent
A exclusive load
X exclusive load with changing sign

Combination rule Number 16

C16-DESI_W_sup

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	G0-1
2	1.35	AG2	G0-2
3	1.35	AG3	G0-3
4	1.35	AG4	G0-4
5	1.35	AG5	G1_1
6	1.35	AG6	G1_2
7	1.35	AG7	G1_3
8	1.35	AG8	G1_4
9	1.35	AG9	G1_5

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
10	1.35	AG10	G1_6
12	1.00	AG12	CS
13	0.90	A1	TExp+0.75*THeat
14	0.90	A1	TCon+0.75*THeat
15	0.90	A1	TCon+0.75*TCool
16	0.90	A1	TCon+0.75*TCool
17	0.90	A1	TExp*0.35+THeat
18	0.90	A1	TCon*0.35+THeat
19	0.90	A1	TExp*0.35+TCool
20	0.90	A1	TCon*0.35+TCool
21	1.05	A2	Q1
22	1.05	A2	Q2
23	1.05	A2	Q3
24	1.05	A2	Q4
25	1.05	A2	Q5
26	1.05	A2	Q6
27	1.05	A2	Q7
28	1.05	A2	Q8
29	1.05	A2	Q9
102	1.05	X1	QX1
103	1.05	X1	QX2
104	1.05	X1	QX3
105	1.05	X1	QX4
106	1.05	X1	QX5
107	1.05	X1	QX6
108	1.05	X1	QX7
109	1.05	X1	QX8
110	1.05	X1	QX9
111	1.05	X1	QY1
112	1.05	X1	QY2
113	1.05	X1	QY3
114	1.05	X1	QY4
115	1.05	X1	QY5
116	1.05	X1	QY6
117	1.05	X1	QY7
118	1.05	X1	QY8
119	1.05	X1	QY9
30	0.75	A3	S1
31	0.75	A3	S2
32	0.75	A3	S3
33	0.75	A3	S4
34	0.75	A3	S5
35	0.75	A3	S6
36	0.75	A3	S7
37	0.75	A3	S8
38	0.75	A3	S9
39	0.75	A4	SR
40	1.50	A5	WL
41	1.50	A5	WR
42	1.50	A6	WP
43	1.50	A6	WS
Fact	factor for load case		
Type	type of the load case		
AG	exclusive load permanent		
A	exclusive load		

Geometry definition
Superposition of loads

X exclusive load with changing sign

Combination rule Number 17

C17-ACCI

Resulting Load Cases type ULS accidental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	G0-1
2	1.00	AG2	G0-2
3	1.00	AG3	G0-3
4	1.00	AG4	G0-4
5	1.00	AG5	G1_1
6	1.00	AG6	G1_2
7	1.00	AG7	G1_3
8	1.00	AG8	G1_4
9	1.00	AG9	G1_5
10	1.00	AG10	G1_6
21	0.70	A2	Q1
22	0.70	A2	Q2
23	0.70	A2	Q3
24	0.70	A2	Q4
25	0.70	A2	Q5
26	0.70	A2	Q6
27	0.70	A2	Q7
28	0.70	A2	Q8
29	0.70	A2	Q9
102	0.70	X1	QX1
103	0.70	X1	QX2
104	0.70	X1	QX3
105	0.70	X1	QX4
106	0.70	X1	QX5
107	0.70	X1	QX6
108	0.70	X1	QX7
109	0.70	X1	QX8
110	0.70	X1	QX9
111	0.70	X1	QY1
112	0.70	X1	QY2
113	0.70	X1	QY3
114	0.70	X1	QY4
115	0.70	X1	QY5
116	0.70	X1	QY6
117	0.70	X1	QY7
118	0.70	X1	QY8
119	0.70	X1	QY9
44	1.40	A7	ACC 42.78,143.19
45	1.40	A7	ACC 100.18,143.19
46	1.40	A7	ACC 91.98,143.19
47	1.40	A7	ACC 83.78,143.19
48	1.40	A7	ACC 75.58,143.19
49	1.40	A7	ACC 67.38,143.19
50	1.40	A7	ACC 59.18,143.19
51	1.40	A7	ACC 50.98,143.19
52	1.40	A7	ACC 67.38,133.08
53	1.40	A7	ACC 75.58,133.08
54	1.40	A7	ACC 83.78,133.08
55	1.40	A7	ACC 91.98,133.08

Geometry definition
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
56	1.40	A7	ACC 100.18,133.08
57	1.40	A7	ACC 59.18,133.08
58	1.40	A7	ACC 149.38,143.19
59	1.40	A7	ACC 141.18,143.19
60	1.40	A7	ACC 132.98,143.19
61	1.40	A7	ACC 124.78,143.19
62	1.40	A7	ACC 116.58,143.19
63	1.40	A7	ACC 108.38,143.19
64	1.40	A7	ACC 108.38,133.08
65	1.40	A7	ACC 116.58,133.08
66	1.40	A7	ACC 124.78,133.08
67	1.40	A7	ACC 132.98,133.08
68	1.40	A7	ACC 141.18,133.08
69	1.40	A7	ACC 149.38,133.08
70	1.40	A7	ACC 173.98,143.19
71	1.40	A7	ACC 165.78,143.19
72	1.40	A7	ACC 157.58,143.19
73	1.40	A7	ACC 180.88,143.19
74	1.40	A7	ACC 189.37,132.22
75	1.40	A7	ACC 157.58,133.08
76	1.40	A7	ACC 165.78,133.08
77	1.40	A7	ACC 173.98,134.17
78	1.40	A7	ACC 212.93,132.71
79	1.40	A7	ACC 218.31,143.37
80	1.40	A7	ACC 191.31,142.88
81	1.40	A7	ACC 204.71,119.35
82	1.40	A7	ACC 212.93,135.63
83	1.40	A7	ACC 177.78,119.84
84	1.40	A7	ACC 185.99,136.12
85	1.40	A7	ACC 196.59,100.34
86	1.40	A7	ACC 204.71,116.43
87	1.40	A7	ACC 169.59,99.85
88	1.40	A7	ACC 177.78,115.94
89	1.40	A7	ACC 188.47,87.17
90	1.40	A7	ACC 196.59,103.26
91	1.40	A7	ACC 161.38,87.66
92	1.40	A7	ACC 169.59,103.75
93	1.40	A7	ACC 189.99,70.26
94	1.40	A7	ACC 198.43,70.26
95	1.40	A7	ACC 206.87,70.26
96	1.40	A7	ACC 175.11,70.26
97	1.40	A7	ACC 170.45,70.26
98	1.40	A7	ACC 188.47,84.25
99	1.40	A7	ACC 161.38,83.76
100	1.40	A7	ACC 162.11,71.35
101	1.40	A7	ACC 180.49,71.16

Fact factor for load case
Type type of the load case
AG exclusive load permanent
A exclusive load
X exclusive load with changing sign

Generated Load Cases

Number	Combination	Designation
1000	1	MAXP-MXX QUAD C1-Perm
1001	1	MINP-MXX QUAD C1-Perm

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1002	1	MAXP-MYY QUAD C1-Perm
1003	1	MINP-MYY QUAD C1-Perm
1004	1	MAXP-MXY QUAD C1-Perm
1005	1	MINP-MXY QUAD C1-Perm
1006	1	MAXP-NXX QUAD C1-Perm
1007	1	MINP-NXX QUAD C1-Perm
1008	1	MAXP-NYY QUAD C1-Perm
1009	1	MINP-NYY QUAD C1-Perm
1006	1	MAXP-NXX QUAD C1-Perm
1007	1	MINP-NXX QUAD C1-Perm
1010	1	MAXP-VX QUAD C1-Perm
1011	1	MINP-VX QUAD C1-Perm
1012	1	MAXP-VY QUAD C1-Perm
1013	1	MINP-VY QUAD C1-Perm
1016	1	MAXP-N BEAM C1-Perm
1017	1	MINP-N BEAM C1-Perm
1018	1	MAXP-MY BEAM C1-Perm
1019	1	MINP-MY BEAM C1-Perm
1020	1	MAXP-MZ BEAM C1-Perm
1021	1	MINP-MZ BEAM C1-Perm
1022	1	MAXP-MT BEAM C1-Perm
1023	1	MINP-MT BEAM C1-Perm
1024	1	MAXP-VY BEAM C1-Perm
1025	1	MINP-VY BEAM C1-Perm
1026	1	MAXP-VZ BEAM C1-Perm
1027	1	MINP-VZ BEAM C1-Perm
1028	2	MAXR-MXX QUAD C2-Rare
1029	2	MINR-MXX QUAD C2-Rare
1030	2	MAXR-MYY QUAD C2-Rare
1031	2	MINR-MYY QUAD C2-Rare
1032	2	MAXR-MXY QUAD C2-Rare
1033	2	MINR-MXY QUAD C2-Rare
1034	2	MAXR-NXX QUAD C2-Rare
1035	2	MINR-NXX QUAD C2-Rare
1036	2	MAXR-NYY QUAD C2-Rare
1037	2	MINR-NYY QUAD C2-Rare
1034	2	MAXR-NXX QUAD C2-Rare
1035	2	MINR-NXX QUAD C2-Rare
1038	2	MAXR-VX QUAD C2-Rare
1039	2	MINR-VX QUAD C2-Rare
1040	2	MAXR-VY QUAD C2-Rare
1041	2	MINR-VY QUAD C2-Rare
1044	2	MAXR-N BEAM C2-Rare
1045	2	MINR-N BEAM C2-Rare
1046	2	MAXR-MY BEAM C2-Rare
1047	2	MINR-MY BEAM C2-Rare
1048	2	MAXR-MZ BEAM C2-Rare
1049	2	MINR-MZ BEAM C2-Rare
1050	2	MAXR-MT BEAM C2-Rare
1051	2	MINR-MT BEAM C2-Rare
1052	2	MAXR-VY BEAM C2-Rare
1053	2	MINR-VY BEAM C2-Rare
1054	2	MAXR-VZ BEAM C2-Rare
1055	2	MINR-VZ BEAM C2-Rare

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1056	3	MAXR-MXX QUAD C3-Rare
1057	3	MINR-MXX QUAD C3-Rare
1058	3	MAXR-MYY QUAD C3-Rare
1059	3	MINR-MYY QUAD C3-Rare
1060	3	MAXR-MXY QUAD C3-Rare
1061	3	MINR-MXY QUAD C3-Rare
1062	3	MAXR-NXX QUAD C3-Rare
1063	3	MINR-NXX QUAD C3-Rare
1064	3	MAXR-NYY QUAD C3-Rare
1065	3	MINR-NYY QUAD C3-Rare
1062	3	MAXR-NXX QUAD C3-Rare
1063	3	MINR-NXX QUAD C3-Rare
1066	3	MAXR-VX QUAD C3-Rare
1067	3	MINR-VX QUAD C3-Rare
1068	3	MAXR-VY QUAD C3-Rare
1069	3	MINR-VY QUAD C3-Rare
1072	3	MAXR-N BEAM C3-Rare
1073	3	MINR-N BEAM C3-Rare
1074	3	MAXR-MY BEAM C3-Rare
1075	3	MINR-MY BEAM C3-Rare
1076	3	MAXR-MZ BEAM C3-Rare
1077	3	MINR-MZ BEAM C3-Rare
1078	3	MAXR-MT BEAM C3-Rare
1079	3	MINR-MT BEAM C3-Rare
1080	3	MAXR-VY BEAM C3-Rare
1081	3	MINR-VY BEAM C3-Rare
1082	3	MAXR-VZ BEAM C3-Rare
1083	3	MINR-VZ BEAM C3-Rare
1084	4	MAXR-MXX QUAD C4-Rare
1085	4	MINR-MXX QUAD C4-Rare
1086	4	MAXR-MYY QUAD C4-Rare
1087	4	MINR-MYY QUAD C4-Rare
1088	4	MAXR-MXY QUAD C4-Rare
1089	4	MINR-MXY QUAD C4-Rare
1090	4	MAXR-NXX QUAD C4-Rare
1091	4	MINR-NXX QUAD C4-Rare
1092	4	MAXR-NYY QUAD C4-Rare
1093	4	MINR-NYY QUAD C4-Rare
1090	4	MAXR-NXX QUAD C4-Rare
1091	4	MINR-NXX QUAD C4-Rare
1094	4	MAXR-VX QUAD C4-Rare
1095	4	MINR-VX QUAD C4-Rare
1096	4	MAXR-VY QUAD C4-Rare
1097	4	MINR-VY QUAD C4-Rare
1100	4	MAXR-N BEAM C4-Rare
1101	4	MINR-N BEAM C4-Rare
1102	4	MAXR-MY BEAM C4-Rare
1103	4	MINR-MY BEAM C4-Rare
1104	4	MAXR-MZ BEAM C4-Rare
1105	4	MINR-MZ BEAM C4-Rare
1106	4	MAXR-MT BEAM C4-Rare
1107	4	MINR-MT BEAM C4-Rare
1108	4	MAXR-VY BEAM C4-Rare
1109	4	MINR-VY BEAM C4-Rare

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1110	4	MAXR-VZ BEAM C4-Rare
1111	4	MINR-VZ BEAM C4-Rare
1112	5	MAX-MXX QUAD C5-Desi
1113	5	MIN-MXX QUAD C5-Desi
1114	5	MAX-MYY QUAD C5-Desi
1115	5	MIN-MYY QUAD C5-Desi
1116	5	MAX-MXY QUAD C5-Desi
1117	5	MIN-MXY QUAD C5-Desi
1118	5	MAX-NXX QUAD C5-Desi
1119	5	MIN-NXX QUAD C5-Desi
1120	5	MAX-NYY QUAD C5-Desi
1121	5	MIN-NYY QUAD C5-Desi
1118	5	MAX-NXX QUAD C5-Desi
1119	5	MIN-NXX QUAD C5-Desi
1122	5	MAX-VX QUAD C5-Desi
1123	5	MIN-VX QUAD C5-Desi
1124	5	MAX-VY QUAD C5-Desi
1125	5	MIN-VY QUAD C5-Desi
1128	5	MAX-N BEAM C5-Desi
1129	5	MIN-N BEAM C5-Desi
1130	5	MAX-MY BEAM C5-Desi
1131	5	MIN-MY BEAM C5-Desi
1132	5	MAX-MZ BEAM C5-Desi
1133	5	MIN-MZ BEAM C5-Desi
1134	5	MAX-MT BEAM C5-Desi
1135	5	MIN-MT BEAM C5-Desi
1136	5	MAX-VY BEAM C5-Desi
1137	5	MIN-VY BEAM C5-Desi
1138	5	MAX-VZ BEAM C5-Desi
1139	5	MIN-VZ BEAM C5-Desi
1140	6	MAX-MXX QUAD C6-Desi
1141	6	MIN-MXX QUAD C6-Desi
1142	6	MAX-MYY QUAD C6-Desi
1143	6	MIN-MYY QUAD C6-Desi
1144	6	MAX-MXY QUAD C6-Desi
1145	6	MIN-MXY QUAD C6-Desi
1146	6	MAX-NXX QUAD C6-Desi
1147	6	MIN-NXX QUAD C6-Desi
1148	6	MAX-NYY QUAD C6-Desi
1149	6	MIN-NYY QUAD C6-Desi
1146	6	MAX-NXX QUAD C6-Desi
1147	6	MIN-NXX QUAD C6-Desi
1150	6	MAX-VX QUAD C6-Desi
1151	6	MIN-VX QUAD C6-Desi
1152	6	MAX-VY QUAD C6-Desi
1153	6	MIN-VY QUAD C6-Desi
1156	6	MAX-N BEAM C6-Desi
1157	6	MIN-N BEAM C6-Desi
1158	6	MAX-MY BEAM C6-Desi
1159	6	MIN-MY BEAM C6-Desi
1160	6	MAX-MZ BEAM C6-Desi
1161	6	MIN-MZ BEAM C6-Desi
1162	6	MAX-MT BEAM C6-Desi
1163	6	MIN-MT BEAM C6-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1164	6	MAX-VY BEAM C6-Desi
1165	6	MIN-VY BEAM C6-Desi
1166	6	MAX-VZ BEAM C6-Desi
1167	6	MIN-VZ BEAM C6-Desi
1168	7	MAX-MXX QUAD C7-Desi
1169	7	MIN-MXX QUAD C7-Desi
1170	7	MAX-MYY QUAD C7-Desi
1171	7	MIN-MYY QUAD C7-Desi
1172	7	MAX-MXY QUAD C7-Desi
1173	7	MIN-MXY QUAD C7-Desi
1174	7	MAX-NXX QUAD C7-Desi
1175	7	MIN-NXX QUAD C7-Desi
1176	7	MAX-NYY QUAD C7-Desi
1177	7	MIN-NYY QUAD C7-Desi
1174	7	MAX-NXX QUAD C7-Desi
1175	7	MIN-NXX QUAD C7-Desi
1178	7	MAX-VX QUAD C7-Desi
1179	7	MIN-VX QUAD C7-Desi
1180	7	MAX-VY QUAD C7-Desi
1181	7	MIN-VY QUAD C7-Desi
1184	7	MAX-N BEAM C7-Desi
1185	7	MIN-N BEAM C7-Desi
1186	7	MAX-MY BEAM C7-Desi
1187	7	MIN-MY BEAM C7-Desi
1188	7	MAX-MZ BEAM C7-Desi
1189	7	MIN-MZ BEAM C7-Desi
1190	7	MAX-MT BEAM C7-Desi
1191	7	MIN-MT BEAM C7-Desi
1192	7	MAX-VY BEAM C7-Desi
1193	7	MIN-VY BEAM C7-Desi
1194	7	MAX-VZ BEAM C7-Desi
1195	7	MIN-VZ BEAM C7-Desi
1196	8	MAX-MXX QUAD C8-Desi
1197	8	MIN-MXX QUAD C8-Desi
1198	8	MAX-MYY QUAD C8-Desi
1199	8	MIN-MYY QUAD C8-Desi
1200	8	MAX-MXY QUAD C8-Desi
1201	8	MIN-MXY QUAD C8-Desi
1202	8	MAX-NXX QUAD C8-Desi
1203	8	MIN-NXX QUAD C8-Desi
1204	8	MAX-NYY QUAD C8-Desi
1205	8	MIN-NYY QUAD C8-Desi
1202	8	MAX-NXX QUAD C8-Desi
1203	8	MIN-NXX QUAD C8-Desi
1206	8	MAX-VX QUAD C8-Desi
1207	8	MIN-VX QUAD C8-Desi
1208	8	MAX-VY QUAD C8-Desi
1209	8	MIN-VY QUAD C8-Desi
1212	8	MAX-N BEAM C8-Desi
1213	8	MIN-N BEAM C8-Desi
1214	8	MAX-MY BEAM C8-Desi
1215	8	MIN-MY BEAM C8-Desi
1216	8	MAX-MZ BEAM C8-Desi
1217	8	MIN-MZ BEAM C8-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1218	8	MAX-MT BEAM C8-Desi
1219	8	MIN-MT BEAM C8-Desi
1220	8	MAX-VY BEAM C8-Desi
1221	8	MIN-VY BEAM C8-Desi
1222	8	MAX-VZ BEAM C8-Desi
1223	8	MIN-VZ BEAM C8-Desi
1224	9	MAX-MXX QUAD C9-Desi
1225	9	MIN-MXX QUAD C9-Desi
1226	9	MAX-MYY QUAD C9-Desi
1227	9	MIN-MYY QUAD C9-Desi
1228	9	MAX-MXY QUAD C9-Desi
1229	9	MIN-MXY QUAD C9-Desi
1230	9	MAX-NXX QUAD C9-Desi
1231	9	MIN-NXX QUAD C9-Desi
1232	9	MAX-NYY QUAD C9-Desi
1233	9	MIN-NYY QUAD C9-Desi
1230	9	MAX-NXX QUAD C9-Desi
1231	9	MIN-NXX QUAD C9-Desi
1234	9	MAX-VX QUAD C9-Desi
1235	9	MIN-VX QUAD C9-Desi
1236	9	MAX-VY QUAD C9-Desi
1237	9	MIN-VY QUAD C9-Desi
1240	9	MAX-N BEAM C9-Desi
1241	9	MIN-N BEAM C9-Desi
1242	9	MAX-MY BEAM C9-Desi
1243	9	MIN-MY BEAM C9-Desi
1244	9	MAX-MZ BEAM C9-Desi
1245	9	MIN-MZ BEAM C9-Desi
1246	9	MAX-MT BEAM C9-Desi
1247	9	MIN-MT BEAM C9-Desi
1248	9	MAX-VY BEAM C9-Desi
1249	9	MIN-VY BEAM C9-Desi
1250	9	MAX-VZ BEAM C9-Desi
1251	9	MIN-VZ BEAM C9-Desi
1252	10	MAX-MXX QUAD C10-Desi
1253	10	MIN-MXX QUAD C10-Desi
1254	10	MAX-MYY QUAD C10-Desi
1255	10	MIN-MYY QUAD C10-Desi
1256	10	MAX-MXY QUAD C10-Desi
1257	10	MIN-MXY QUAD C10-Desi
1258	10	MAX-NXX QUAD C10-Desi
1259	10	MIN-NXX QUAD C10-Desi
1260	10	MAX-NYY QUAD C10-Desi
1261	10	MIN-NYY QUAD C10-Desi
1258	10	MAX-NXX QUAD C10-Desi
1259	10	MIN-NXX QUAD C10-Desi
1262	10	MAX-VX QUAD C10-Desi
1263	10	MIN-VX QUAD C10-Desi
1264	10	MAX-VY QUAD C10-Desi
1265	10	MIN-VY QUAD C10-Desi
1268	10	MAX-N BEAM C10-Desi
1269	10	MIN-N BEAM C10-Desi
1270	10	MAX-MY BEAM C10-Desi
1271	10	MIN-MY BEAM C10-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1272	10	MAX-MZ BEAM C10-Desi
1273	10	MIN-MZ BEAM C10-Desi
1274	10	MAX-MT BEAM C10-Desi
1275	10	MIN-MT BEAM C10-Desi
1276	10	MAX-VY BEAM C10-Desi
1277	10	MIN-VY BEAM C10-Desi
1278	10	MAX-VZ BEAM C10-Desi
1279	10	MIN-VZ BEAM C10-Desi
1280	11	MAX-MXX QUAD C11-Desi
1281	11	MIN-MXX QUAD C11-Desi
1282	11	MAX-MYY QUAD C11-Desi
1283	11	MIN-MYY QUAD C11-Desi
1284	11	MAX-MXY QUAD C11-Desi
1285	11	MIN-MXY QUAD C11-Desi
1286	11	MAX-NXX QUAD C11-Desi
1287	11	MIN-NXX QUAD C11-Desi
1288	11	MAX-NYY QUAD C11-Desi
1289	11	MIN-NYY QUAD C11-Desi
1286	11	MAX-NXX QUAD C11-Desi
1287	11	MIN-NXX QUAD C11-Desi
1290	11	MAX-VX QUAD C11-Desi
1291	11	MIN-VX QUAD C11-Desi
1292	11	MAX-VY QUAD C11-Desi
1293	11	MIN-VY QUAD C11-Desi
1296	11	MAX-N BEAM C11-Desi
1297	11	MIN-N BEAM C11-Desi
1298	11	MAX-MY BEAM C11-Desi
1299	11	MIN-MY BEAM C11-Desi
1300	11	MAX-MZ BEAM C11-Desi
1301	11	MIN-MZ BEAM C11-Desi
1302	11	MAX-MT BEAM C11-Desi
1303	11	MIN-MT BEAM C11-Desi
1304	11	MAX-VY BEAM C11-Desi
1305	11	MIN-VY BEAM C11-Desi
1306	11	MAX-VZ BEAM C11-Desi
1307	11	MIN-VZ BEAM C11-Desi
1308	12	MAX-MXX QUAD C12-Desi
1309	12	MIN-MXX QUAD C12-Desi
1310	12	MAX-MYY QUAD C12-Desi
1311	12	MIN-MYY QUAD C12-Desi
1312	12	MAX-MXY QUAD C12-Desi
1313	12	MIN-MXY QUAD C12-Desi
1314	12	MAX-NXX QUAD C12-Desi
1315	12	MIN-NXX QUAD C12-Desi
1316	12	MAX-NYY QUAD C12-Desi
1317	12	MIN-NYY QUAD C12-Desi
1314	12	MAX-NXX QUAD C12-Desi
1315	12	MIN-NXX QUAD C12-Desi
1318	12	MAX-VX QUAD C12-Desi
1319	12	MIN-VX QUAD C12-Desi
1320	12	MAX-VY QUAD C12-Desi
1321	12	MIN-VY QUAD C12-Desi
1324	12	MAX-N BEAM C12-Desi
1325	12	MIN-N BEAM C12-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1326	12	MAX-MY BEAM C12-Desi
1327	12	MIN-MY BEAM C12-Desi
1328	12	MAX-MZ BEAM C12-Desi
1329	12	MIN-MZ BEAM C12-Desi
1330	12	MAX-MT BEAM C12-Desi
1331	12	MIN-MT BEAM C12-Desi
1332	12	MAX-VY BEAM C12-Desi
1333	12	MIN-VY BEAM C12-Desi
1334	12	MAX-VZ BEAM C12-Desi
1335	12	MIN-VZ BEAM C12-Desi
1336	13	MAX-MXX QUAD C13-Desi
1337	13	MIN-MXX QUAD C13-Desi
1338	13	MAX-MYY QUAD C13-Desi
1339	13	MIN-MYY QUAD C13-Desi
1340	13	MAX-MXY QUAD C13-Desi
1341	13	MIN-MXY QUAD C13-Desi
1342	13	MAX-NXX QUAD C13-Desi
1343	13	MIN-NXX QUAD C13-Desi
1344	13	MAX-NYY QUAD C13-Desi
1345	13	MIN-NYY QUAD C13-Desi
1342	13	MAX-NXX QUAD C13-Desi
1343	13	MIN-NXX QUAD C13-Desi
1346	13	MAX-VX QUAD C13-Desi
1347	13	MIN-VX QUAD C13-Desi
1348	13	MAX-VY QUAD C13-Desi
1349	13	MIN-VY QUAD C13-Desi
1352	13	MAX-N BEAM C13-Desi
1353	13	MIN-N BEAM C13-Desi
1354	13	MAX-MY BEAM C13-Desi
1355	13	MIN-MY BEAM C13-Desi
1356	13	MAX-MZ BEAM C13-Desi
1357	13	MIN-MZ BEAM C13-Desi
1358	13	MAX-MT BEAM C13-Desi
1359	13	MIN-MT BEAM C13-Desi
1360	13	MAX-VY BEAM C13-Desi
1361	13	MIN-VY BEAM C13-Desi
1362	13	MAX-VZ BEAM C13-Desi
1363	13	MIN-VZ BEAM C13-Desi
1364	14	MAX-MXX QUAD C14-Desi
1365	14	MIN-MXX QUAD C14-Desi
1366	14	MAX-MYY QUAD C14-Desi
1367	14	MIN-MYY QUAD C14-Desi
1368	14	MAX-MXY QUAD C14-Desi
1369	14	MIN-MXY QUAD C14-Desi
1370	14	MAX-NXX QUAD C14-Desi
1371	14	MIN-NXX QUAD C14-Desi
1372	14	MAX-NYY QUAD C14-Desi
1373	14	MIN-NYY QUAD C14-Desi
1370	14	MAX-NXX QUAD C14-Desi
1371	14	MIN-NXX QUAD C14-Desi
1374	14	MAX-VX QUAD C14-Desi
1375	14	MIN-VX QUAD C14-Desi
1376	14	MAX-VY QUAD C14-Desi
1377	14	MIN-VY QUAD C14-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1380	14	MAX-N BEAM C14-Desi
1381	14	MIN-N BEAM C14-Desi
1382	14	MAX-MY BEAM C14-Desi
1383	14	MIN-MY BEAM C14-Desi
1384	14	MAX-MZ BEAM C14-Desi
1385	14	MIN-MZ BEAM C14-Desi
1386	14	MAX-MT BEAM C14-Desi
1387	14	MIN-MT BEAM C14-Desi
1388	14	MAX-VY BEAM C14-Desi
1389	14	MIN-VY BEAM C14-Desi
1390	14	MAX-VZ BEAM C14-Desi
1391	14	MIN-VZ BEAM C14-Desi
1392	15	MAX-MXX QUAD C15-Desi
1393	15	MIN-MXX QUAD C15-Desi
1394	15	MAX-MYY QUAD C15-Desi
1395	15	MIN-MYY QUAD C15-Desi
1396	15	MAX-MXY QUAD C15-Desi
1397	15	MIN-MXY QUAD C15-Desi
1398	15	MAX-NXX QUAD C15-Desi
1399	15	MIN-NXX QUAD C15-Desi
1400	15	MAX-NYY QUAD C15-Desi
1401	15	MIN-NYY QUAD C15-Desi
1398	15	MAX-NXX QUAD C15-Desi
1399	15	MIN-NXX QUAD C15-Desi
1402	15	MAX-VX QUAD C15-Desi
1403	15	MIN-VX QUAD C15-Desi
1404	15	MAX-VY QUAD C15-Desi
1405	15	MIN-VY QUAD C15-Desi
1408	15	MAX-N BEAM C15-Desi
1409	15	MIN-N BEAM C15-Desi
1410	15	MAX-MY BEAM C15-Desi
1411	15	MIN-MY BEAM C15-Desi
1412	15	MAX-MZ BEAM C15-Desi
1413	15	MIN-MZ BEAM C15-Desi
1414	15	MAX-MT BEAM C15-Desi
1415	15	MIN-MT BEAM C15-Desi
1416	15	MAX-VY BEAM C15-Desi
1417	15	MIN-VY BEAM C15-Desi
1418	15	MAX-VZ BEAM C15-Desi
1419	15	MIN-VZ BEAM C15-Desi
1420	16	MAX-MXX QUAD C16-Desi
1421	16	MIN-MXX QUAD C16-Desi
1422	16	MAX-MYY QUAD C16-Desi
1423	16	MIN-MYY QUAD C16-Desi
1424	16	MAX-MXY QUAD C16-Desi
1425	16	MIN-MXY QUAD C16-Desi
1426	16	MAX-NXX QUAD C16-Desi
1427	16	MIN-NXX QUAD C16-Desi
1428	16	MAX-NYY QUAD C16-Desi
1429	16	MIN-NYY QUAD C16-Desi
1426	16	MAX-NXX QUAD C16-Desi
1427	16	MIN-NXX QUAD C16-Desi
1430	16	MAX-VX QUAD C16-Desi
1431	16	MIN-VX QUAD C16-Desi

Geometry definition
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1432	16	MAX-VY QUAD C16-Desi
1433	16	MIN-VY QUAD C16-Desi
1436	16	MAX-N BEAM C16-Desi
1437	16	MIN-N BEAM C16-Desi
1438	16	MAX-MY BEAM C16-Desi
1439	16	MIN-MY BEAM C16-Desi
1440	16	MAX-MZ BEAM C16-Desi
1441	16	MIN-MZ BEAM C16-Desi
1442	16	MAX-MT BEAM C16-Desi
1443	16	MIN-MT BEAM C16-Desi
1444	16	MAX-VY BEAM C16-Desi
1445	16	MIN-VY BEAM C16-Desi
1446	16	MAX-VZ BEAM C16-Desi
1447	16	MIN-VZ BEAM C16-Desi
1448	17	MAXA-MXX QUAD C17-Acci
1449	17	MINA-MXX QUAD C17-Acci
1450	17	MAXA-MYY QUAD C17-Acci
1451	17	MINA-MYY QUAD C17-Acci
1452	17	MAXA-MXY QUAD C17-Acci
1453	17	MINA-MXY QUAD C17-Acci
1454	17	MAXA-NXX QUAD C17-Acci
1455	17	MINA-NXX QUAD C17-Acci
1456	17	MAXA-NYY QUAD C17-Acci
1457	17	MINA-NYY QUAD C17-Acci
1454	17	MAXA-NXX QUAD C17-Acci
1455	17	MINA-NXX QUAD C17-Acci
1458	17	MAXA-VX QUAD C17-Acci
1459	17	MINA-VX QUAD C17-Acci
1460	17	MAXA-VY QUAD C17-Acci
1461	17	MINA-VY QUAD C17-Acci
1464	17	MAXA-N BEAM C17-Acci
1465	17	MINA-N BEAM C17-Acci
1466	17	MAXA-MY BEAM C17-Acci
1467	17	MINA-MY BEAM C17-Acci
1468	17	MAXA-MZ BEAM C17-Acci
1469	17	MINA-MZ BEAM C17-Acci
1470	17	MAXA-MT BEAM C17-Acci
1471	17	MINA-MT BEAM C17-Acci
1472	17	MAXA-VY BEAM C17-Acci
1473	17	MINA-VY BEAM C17-Acci
1474	17	MAXA-VZ BEAM C17-Acci
1475	17	MINA-VZ BEAM C17-Acci

Geometry definition
Pile ULS design

Design Code

EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures (Europe) V 2023
EuroNorm Bridges: EN 1993-2:2006 Design of steel structures
Structure: B (Road bridges)

Materials

Mat	Classification
1	C 30/37 (EN 1992) C30
2	C 35/45 (EN 1992) C35
3	C 40/50 (EN 1992) C40
4	B 500 B (EN 1992) B500
5	S 355 (EN 1993) S355

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
Grp 1	10001			
Grp 14	140001			
Grp 26	260001			
Grp 43	430001			
Grp 55	550001			
Grp 69	690001			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Biaxial bending, uniaxial stress calculated in y-z axis
Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Considered Load Cases

LC	ACT	REF	CS	Designation
1128	(D)			MAX-N BEAM C5-Desi
1129	(D)			MIN-N BEAM C5-Desi
1130	(D)			MAX-MY BEAM C5-Desi
1131	(D)			MIN-MY BEAM C5-Desi
1132	(D)			MAX-MZ BEAM C5-Desi
1133	(D)			MIN-MZ BEAM C5-Desi
1134	(D)			MAX-MT BEAM C5-Desi
1135	(D)			MIN-MT BEAM C5-Desi
1136	(D)			MAX-VY BEAM C5-Desi
1137	(D)			MIN-VY BEAM C5-Desi
1138	(D)			MAX-VZ BEAM C5-Desi
1139	(D)			MIN-VZ BEAM C5-Desi
1156	(D)			MAX-N BEAM C6-Desi
1157	(D)			MIN-N BEAM C6-Desi
1158	(D)			MAX-MY BEAM C6-Desi
1159	(D)			MIN-MY BEAM C6-Desi
1160	(D)			MAX-MZ BEAM C6-Desi
1161	(D)			MIN-MZ BEAM C6-Desi
1162	(D)			MAX-MT BEAM C6-Desi
1163	(D)			MIN-MT BEAM C6-Desi
1164	(D)			MAX-VY BEAM C6-Desi
1165	(D)			MIN-VY BEAM C6-Desi
1166	(D)			MAX-VZ BEAM C6-Desi
1167	(D)			MIN-VZ BEAM C6-Desi
1184	(D)			MAX-N BEAM C7-Desi
1185	(D)			MIN-N BEAM C7-Desi

Geometry definition
Pile ULS design

Considered Load Cases

LC	ACT	REF	CS	Designation
1186	(D)			MAX-MY BEAM C7-Desi
1187	(D)			MIN-MY BEAM C7-Desi
1188	(D)			MAX-MZ BEAM C7-Desi
1189	(D)			MIN-MZ BEAM C7-Desi
1190	(D)			MAX-MT BEAM C7-Desi
1191	(D)			MIN-MT BEAM C7-Desi
1192	(D)			MAX-VY BEAM C7-Desi
1193	(D)			MIN-VY BEAM C7-Desi
1194	(D)			MAX-VZ BEAM C7-Desi
1195	(D)			MIN-VZ BEAM C7-Desi
1212	(D)			MAX-N BEAM C8-Desi
1213	(D)			MIN-N BEAM C8-Desi
1214	(D)			MAX-MY BEAM C8-Desi
1215	(D)			MIN-MY BEAM C8-Desi
1216	(D)			MAX-MZ BEAM C8-Desi
1217	(D)			MIN-MZ BEAM C8-Desi
1218	(D)			MAX-MT BEAM C8-Desi
1219	(D)			MIN-MT BEAM C8-Desi
1220	(D)			MAX-VY BEAM C8-Desi
1221	(D)			MIN-VY BEAM C8-Desi
1222	(D)			MAX-VZ BEAM C8-Desi
1223	(D)			MIN-VZ BEAM C8-Desi
1240	(D)			MAX-N BEAM C9-Desi
1241	(D)			MIN-N BEAM C9-Desi
1242	(D)			MAX-MY BEAM C9-Desi
1243	(D)			MIN-MY BEAM C9-Desi
1244	(D)			MAX-MZ BEAM C9-Desi
1245	(D)			MIN-MZ BEAM C9-Desi
1246	(D)			MAX-MT BEAM C9-Desi
1247	(D)			MIN-MT BEAM C9-Desi
1248	(D)			MAX-VY BEAM C9-Desi
1249	(D)			MIN-VY BEAM C9-Desi
1250	(D)			MAX-VZ BEAM C9-Desi
1251	(D)			MIN-VZ BEAM C9-Desi
1268	(D)			MAX-N BEAM C10-Desi
1269	(D)			MIN-N BEAM C10-Desi
1270	(D)			MAX-MY BEAM C10-Desi
1271	(D)			MIN-MY BEAM C10-Desi
1272	(D)			MAX-MZ BEAM C10-Desi
1273	(D)			MIN-MZ BEAM C10-Desi
1274	(D)			MAX-MT BEAM C10-Desi
1275	(D)			MIN-MT BEAM C10-Desi
1276	(D)			MAX-VY BEAM C10-Desi
1277	(D)			MIN-VY BEAM C10-Desi
1278	(D)			MAX-VZ BEAM C10-Desi
1279	(D)			MIN-VZ BEAM C10-Desi
1296	(D)			MAX-N BEAM C11-Desi
1297	(D)			MIN-N BEAM C11-Desi
1298	(D)			MAX-MY BEAM C11-Desi
1299	(D)			MIN-MY BEAM C11-Desi
1300	(D)			MAX-MZ BEAM C11-Desi
1301	(D)			MIN-MZ BEAM C11-Desi
1302	(D)			MAX-MT BEAM C11-Desi
1303	(D)			MIN-MT BEAM C11-Desi

Geometry definition
Pile ULS design

Considered Load Cases

LC	ACT	REF	CS	Designation
1304	(D)			MAX-VY BEAM C11-Desi
1305	(D)			MIN-VY BEAM C11-Desi
1306	(D)			MAX-VZ BEAM C11-Desi
1307	(D)			MIN-VZ BEAM C11-Desi
1324	(D)			MAX-N BEAM C12-Desi
1325	(D)			MIN-N BEAM C12-Desi
1326	(D)			MAX-MY BEAM C12-Desi
1327	(D)			MIN-MY BEAM C12-Desi
1328	(D)			MAX-MZ BEAM C12-Desi
1329	(D)			MIN-MZ BEAM C12-Desi
1330	(D)			MAX-MT BEAM C12-Desi
1331	(D)			MIN-MT BEAM C12-Desi
1332	(D)			MAX-VY BEAM C12-Desi
1333	(D)			MIN-VY BEAM C12-Desi
1334	(D)			MAX-VZ BEAM C12-Desi
1335	(D)			MIN-VZ BEAM C12-Desi
1352	(D)			MAX-N BEAM C13-Desi
1353	(D)			MIN-N BEAM C13-Desi
1354	(D)			MAX-MY BEAM C13-Desi
1355	(D)			MIN-MY BEAM C13-Desi
1356	(D)			MAX-MZ BEAM C13-Desi
1357	(D)			MIN-MZ BEAM C13-Desi
1358	(D)			MAX-MT BEAM C13-Desi
1359	(D)			MIN-MT BEAM C13-Desi
1360	(D)			MAX-VY BEAM C13-Desi
1361	(D)			MIN-VY BEAM C13-Desi
1362	(D)			MAX-VZ BEAM C13-Desi
1363	(D)			MIN-VZ BEAM C13-Desi
1380	(D)			MAX-N BEAM C14-Desi
1381	(D)			MIN-N BEAM C14-Desi
1382	(D)			MAX-MY BEAM C14-Desi
1383	(D)			MIN-MY BEAM C14-Desi
1384	(D)			MAX-MZ BEAM C14-Desi
1385	(D)			MIN-MZ BEAM C14-Desi
1386	(D)			MAX-MT BEAM C14-Desi
1387	(D)			MIN-MT BEAM C14-Desi
1388	(D)			MAX-VY BEAM C14-Desi
1389	(D)			MIN-VY BEAM C14-Desi
1390	(D)			MAX-VZ BEAM C14-Desi
1391	(D)			MIN-VZ BEAM C14-Desi
1408	(D)			MAX-N BEAM C15-Desi
1409	(D)			MIN-N BEAM C15-Desi
1410	(D)			MAX-MY BEAM C15-Desi
1411	(D)			MIN-MY BEAM C15-Desi
1412	(D)			MAX-MZ BEAM C15-Desi
1413	(D)			MIN-MZ BEAM C15-Desi
1414	(D)			MAX-MT BEAM C15-Desi
1415	(D)			MIN-MT BEAM C15-Desi
1416	(D)			MAX-VY BEAM C15-Desi
1417	(D)			MIN-VY BEAM C15-Desi
1418	(D)			MAX-VZ BEAM C15-Desi
1419	(D)			MIN-VZ BEAM C15-Desi
1436	(D)			MAX-N BEAM C16-Desi
1437	(D)			MIN-N BEAM C16-Desi

Geometry definition

Pile ULS design

Considered Load Cases

LC	ACT	REF	CS	Designation
1438	(D)			MAX-MY BEAM C16-Desi
1439	(D)			MIN-MY BEAM C16-Desi
1440	(D)			MAX-MZ BEAM C16-Desi
1441	(D)			MIN-MZ BEAM C16-Desi
1442	(D)			MAX-MT BEAM C16-Desi
1443	(D)			MIN-MT BEAM C16-Desi
1444	(D)			MAX-VY BEAM C16-Desi
1445	(D)			MIN-VY BEAM C16-Desi
1446	(D)			MAX-VZ BEAM C16-Desi
1447	(D)			MIN-VZ BEAM C16-Desi
LC load case REF reference point for forces and moments ACT action CS section the load case is acting on				

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	-	-	0.767
Pile	0.000	0.000	0.000	0.000	-	-	0.767	-	-	-	
Total	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	-	-	0.767
	0.000	0.000	0.000	0.000	-	-	0.767	-	-	-	
N normal force τ shear stress Vy,Vz shear force $\sigma-v$ principal or von Mises stress My,Mz bending $\sigma-s$ stress in reinforcements Mtp,Mts torsion (p)primary and (s)secondary $\sigma-dyn$ stress range Mb warping moment As-l longitudinal reinforcements Ncr flexural buckling As-v transverse reinforcements or concrete shear strength SCL cross-section class crack crack width $\sigma-x$ longitud. compressive stress c/t stress dependant utilisation level (see AQB Manual 2.3.2) $\sigma+x$ longitud. tensile stress Total most unfavorable utilisation for all checks											

Geometry definition
Piles SLS stresses

Design Code

EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures (Europe) V 2023
EuroNorm Bridges: EN 1993-2:2006 Design of steel structures
Structure: B (Road bridges)

Materials

Mat	Classification
1	C 30/37 (EN 1992) C30
2	C 35/45 (EN 1992) C35
3	C 40/50 (EN 1992) C40
4	B 500 B (EN 1992) B500
5	S 355 (EN 1993) S355

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
Grp 1	10001			
Grp 14	140001			
Grp 26	260001			
Grp 43	430001			
Grp 55	550001			
Grp 69	690001			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Biaxial bending, uniaxial stress calculated in y-z axis
Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Considered Load Cases

LC	ACT	REF	CS	Designation
1044	(R)			MAXR-N BEAM C2-Rare
1045	(R)			MINR-N BEAM C2-Rare
1046	(R)			MAXR-MY BEAM C2-Rare
1047	(R)			MINR-MY BEAM C2-Rare
1048	(R)			MAXR-MZ BEAM C2-Rare
1049	(R)			MINR-MZ BEAM C2-Rare
1050	(R)			MAXR-MT BEAM C2-Rare
1051	(R)			MINR-MT BEAM C2-Rare
1052	(R)			MAXR-VY BEAM C2-Rare
1053	(R)			MINR-VY BEAM C2-Rare
1054	(R)			MAXR-VZ BEAM C2-Rare
1055	(R)			MINR-VZ BEAM C2-Rare
1072	(R)			MAXR-N BEAM C3-Rare
1073	(R)			MINR-N BEAM C3-Rare
1074	(R)			MAXR-MY BEAM C3-Rare
1075	(R)			MINR-MY BEAM C3-Rare
1076	(R)			MAXR-MZ BEAM C3-Rare
1077	(R)			MINR-MZ BEAM C3-Rare
1078	(R)			MAXR-MT BEAM C3-Rare
1079	(R)			MINR-MT BEAM C3-Rare
1080	(R)			MAXR-VY BEAM C3-Rare
1081	(R)			MINR-VY BEAM C3-Rare
1082	(R)			MAXR-VZ BEAM C3-Rare
1083	(R)			MINR-VZ BEAM C3-Rare
1100	(R)			MAXR-N BEAM C4-Rare
1101	(R)			MINR-N BEAM C4-Rare

Geometry definition
Piles SLS stresses

Considered Load Cases

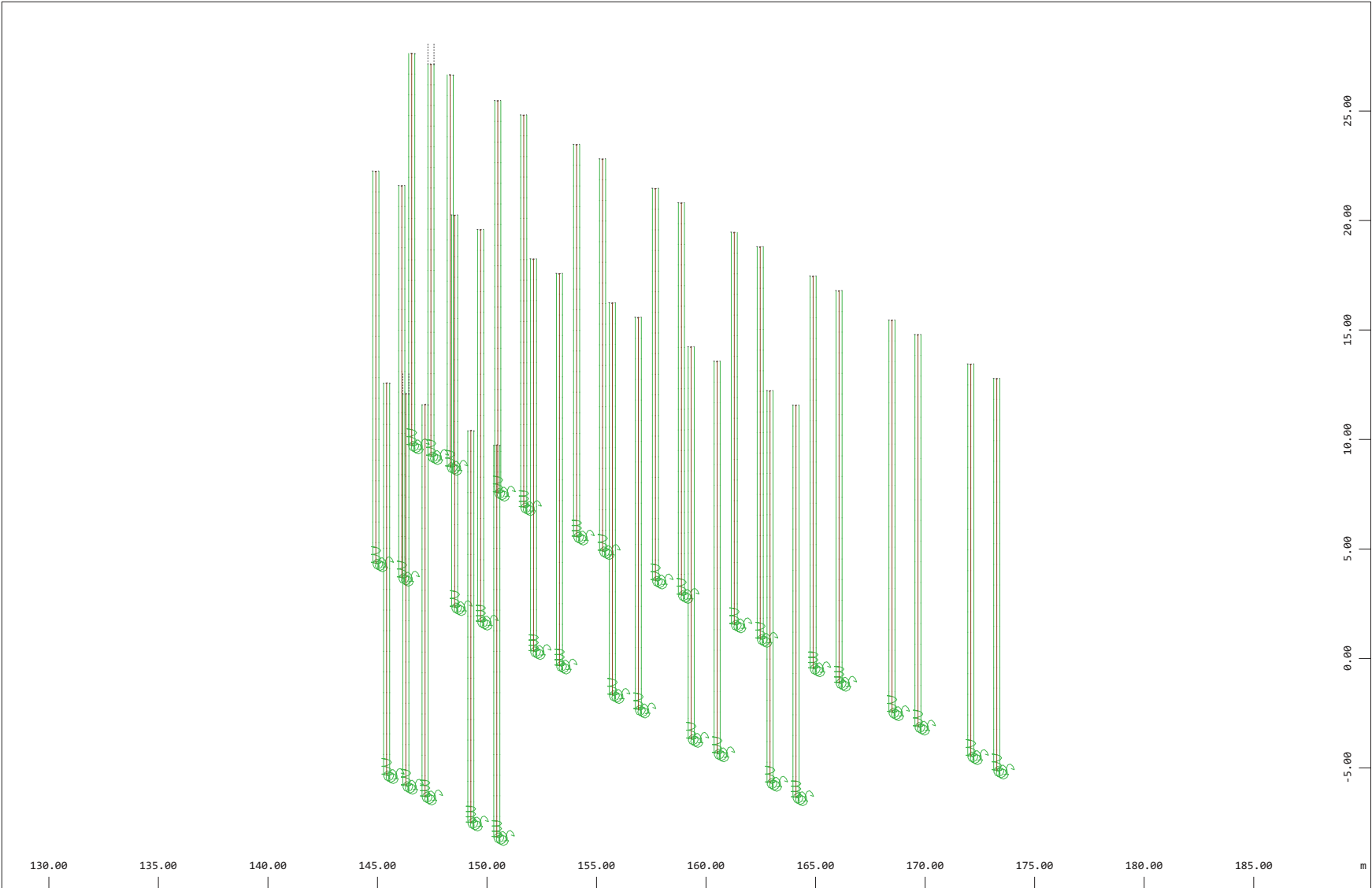
LC	ACT	REF	CS	Designation
1102	(R)			MAXR-MY BEAM C4-Rare
1103	(R)			MINR-MY BEAM C4-Rare
1104	(R)			MAXR-MZ BEAM C4-Rare
1105	(R)			MINR-MZ BEAM C4-Rare
1106	(R)			MAXR-MT BEAM C4-Rare
1107	(R)			MINR-MT BEAM C4-Rare
1108	(R)			MAXR-VY BEAM C4-Rare
1109	(R)			MINR-VY BEAM C4-Rare
1110	(R)			MAXR-VZ BEAM C4-Rare
1111	(R)			MINR-VZ BEAM C4-Rare
LC load case REF reference point for forces and moments ACT action CS section the load case is acting on				

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Longitud. compressive stress $\sigma-x$		-15.56	-30.00	MPa	0.519	1047	260950	0.982
	Longitud. tensile stress $\sigma+x$		0.00	30.00	MPa				
4	Longitud. compressive stress $\sigma-x$		-60.55	-400.00	MPa	0.151	1045	260437	0.982
	Longitud. tensile stress $\sigma+x$		356.04	400.00	MPa	0.890	1047	261178	0.982
Check for stress limits passed✓									

Maximum Utilisation Level

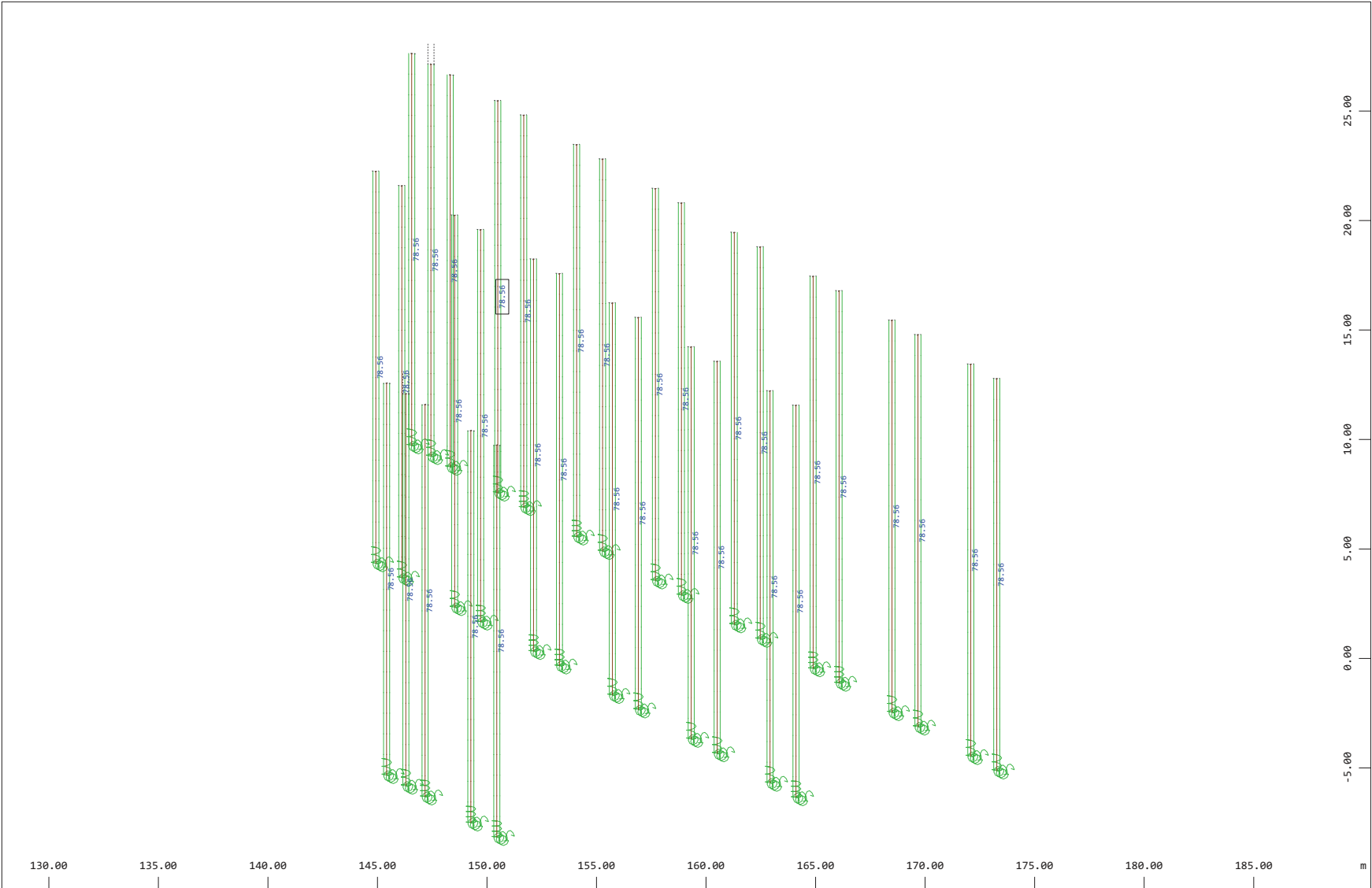
	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.000
Pile	0.519	0.890	0.000	0.000	-	-	-	-	-	-	
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.000
	0.519	0.890	0.000	0.000	-	-	-	-	-	-	
N normal force τ shear stress Vy,Vz shear force $\sigma-v$ principal or von Mises stress My,Mz bending $\sigma-s$ stress in reinforcements Mtp,Mts torsion (p)primary and (s)econdary $\sigma-dyn$ stress range Mb warping moment As-l longitudinal reinforcements Ncr flexural buckling As-v transverse reinforcements or concrete shear strength SCL cross-section class crack crack width $\sigma-x$ longitud. compressive stress c/t stress dependant utilisation level (see AQB Manual 2.3.2) $\sigma+x$ longitud. tensile stress Total most unfavorable utilisation for all checks											



M 1 : 247
X * 0.582
Y * 0.986
Z * 0.962

Sector of system Group 1
Beam Elements , Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

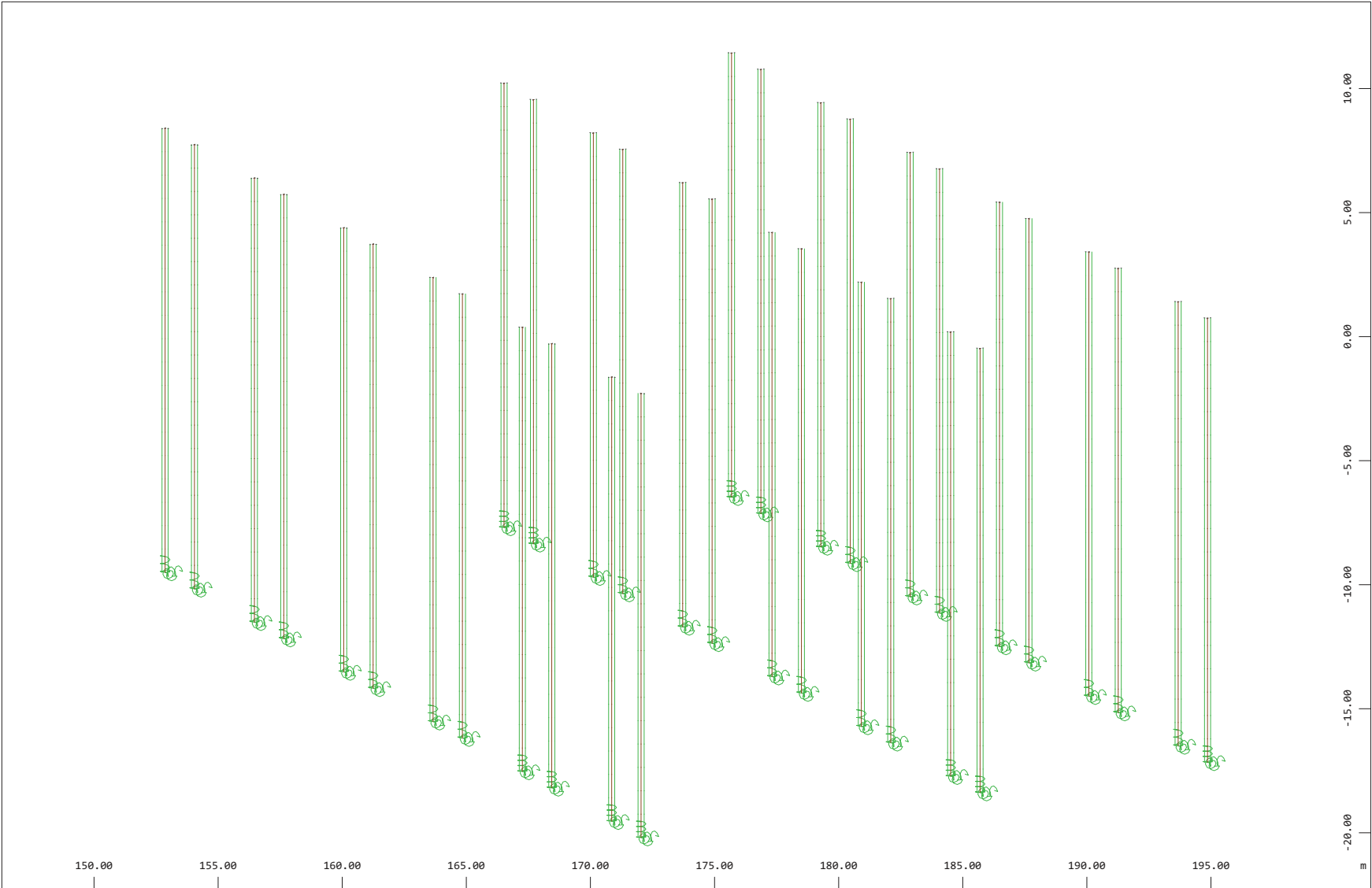
mirosoft
m
z
y
x



M 1 : 247
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 1
Beam Elements , Longitudinal reinforcements (total) in cm², Design Case 1 (Max=78.56)

minipoint for finite element 0.0015

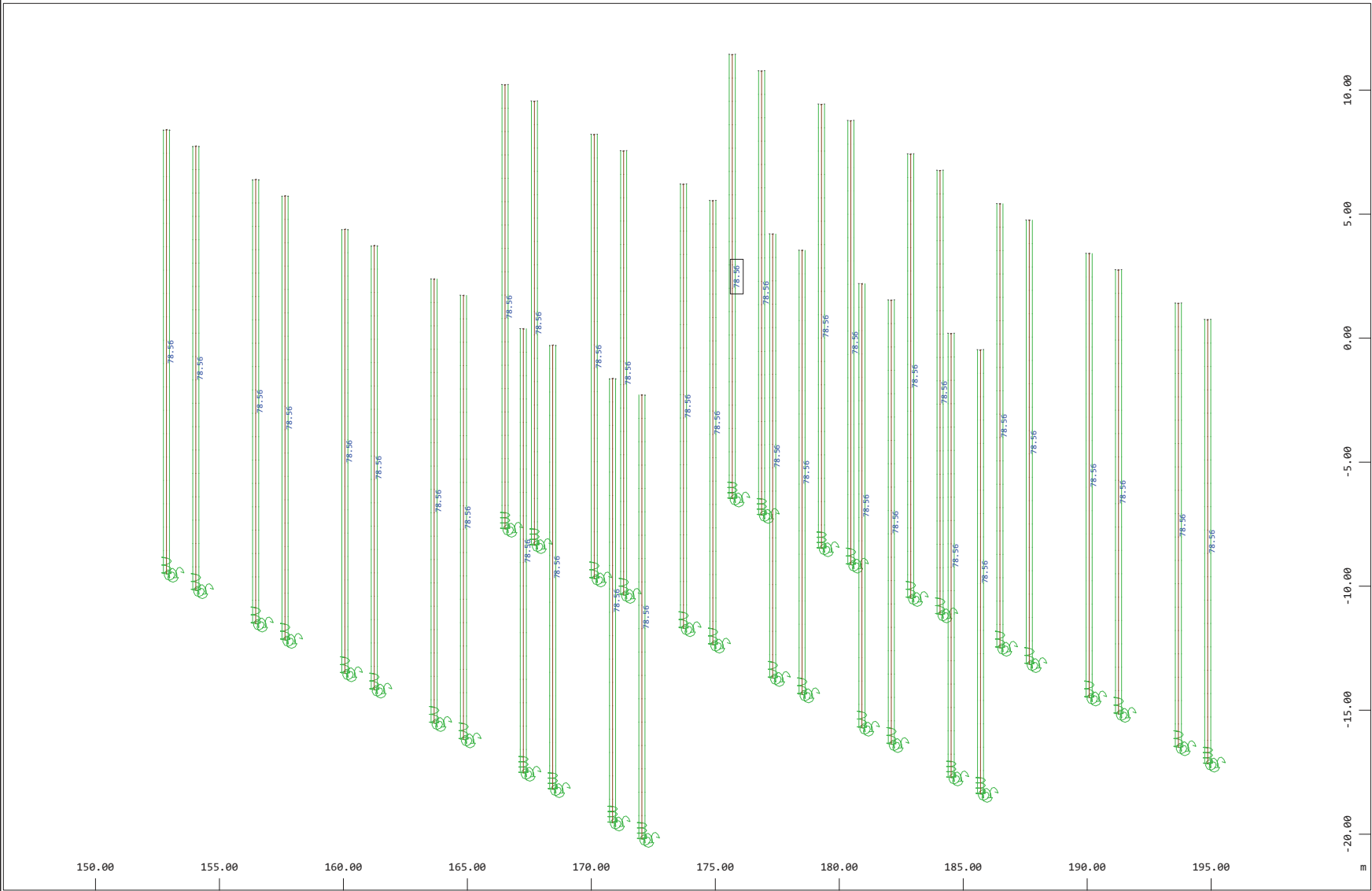


M 1 : 218
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 14
Beam Elements , Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

minimized for the Sector 0.0005
Z
Y
X

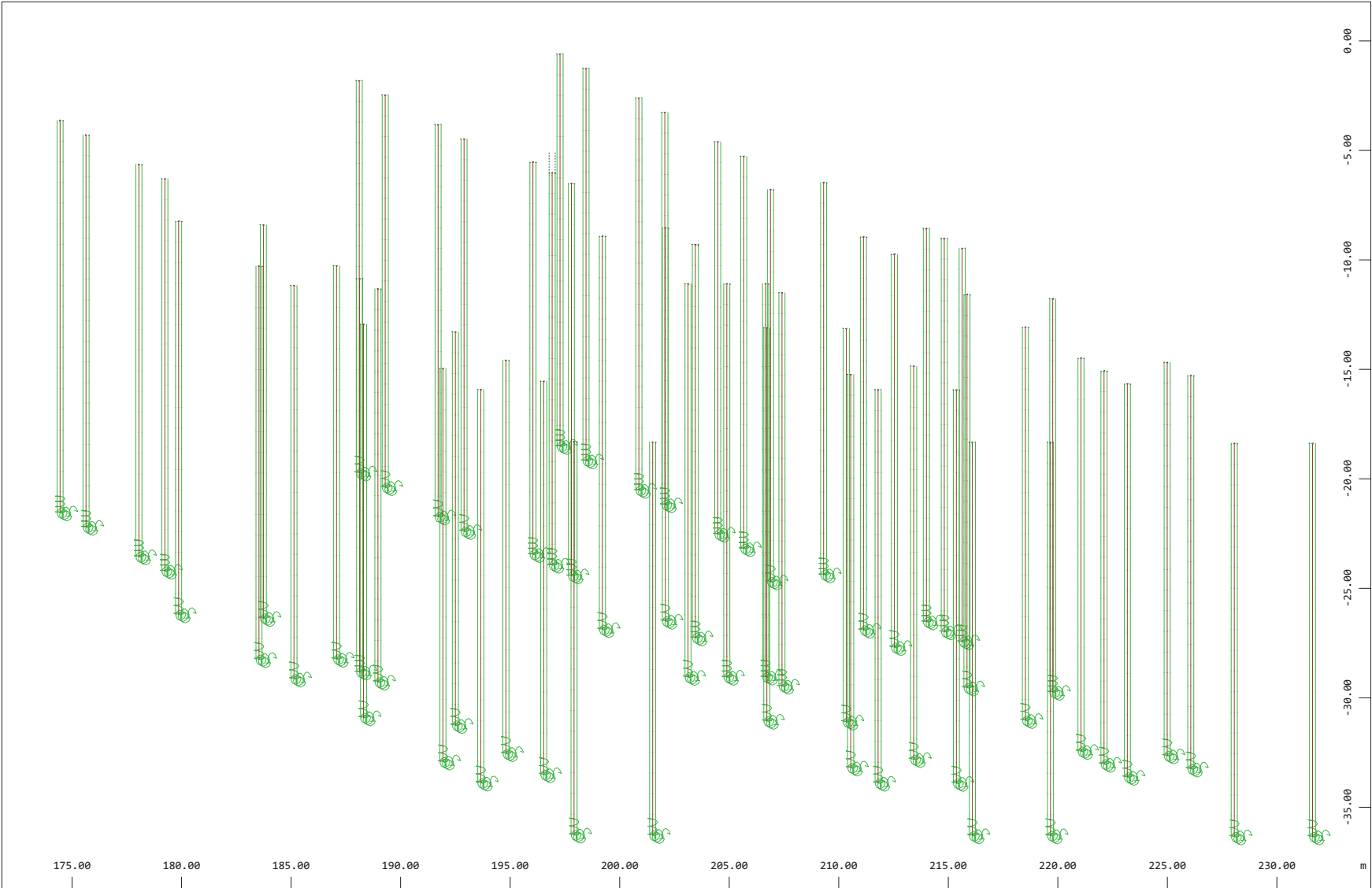
Geometry definition
Pile rc schemes



M 1 : 218
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 14
Beam Elements , Longitudinal reinforcements (total) in cm2, Design Case 1 (Max=78.56)

3D plot from Section Analysis 0.0015
Z
Y
X



Sector of system Group 26
Beam Elements, Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

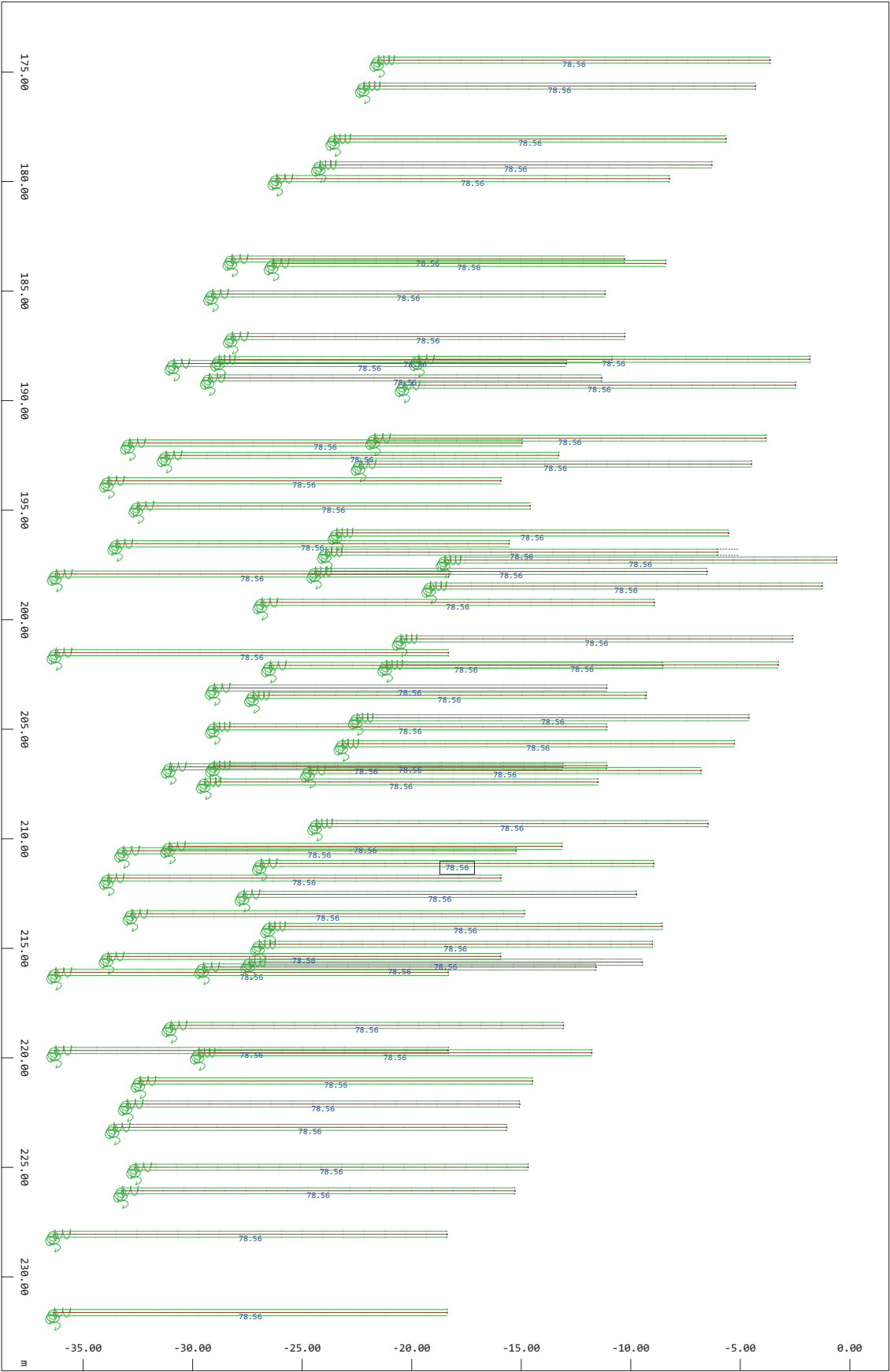
M 1 : 247
X * 0.502
Y * 0.906
Z * 0.962

misprint: Section: Section 0.000

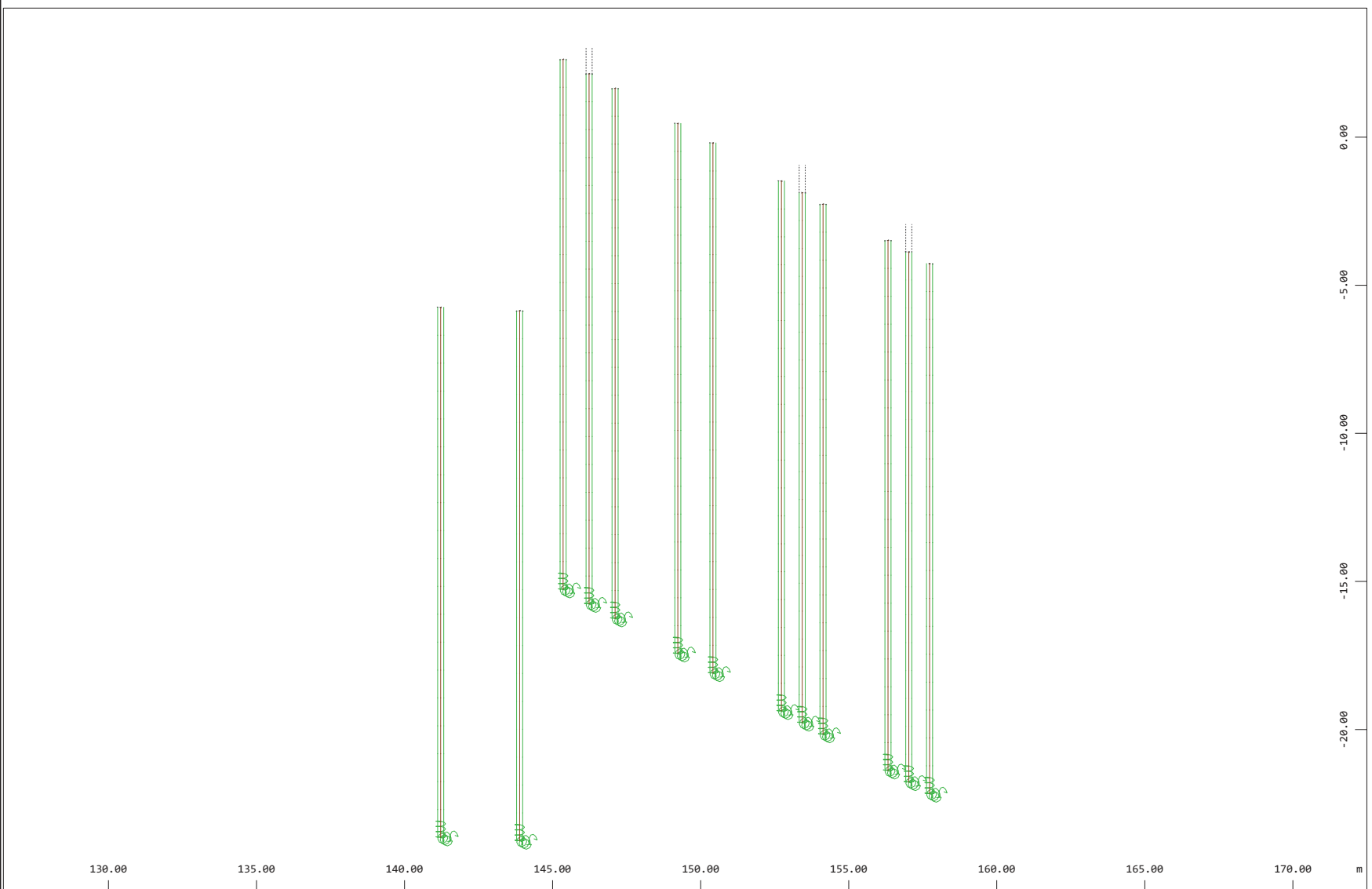
Geometry definition
Pile rc schemes

M 1 : 247
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 26
Beam Elements , Longitudinal reinforcements (total) in cm2, Design Case 1 (Max=78.56)



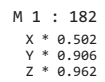
Geometry definition
pile rc schemes



M 1 : 182
X * 0.502
Y * 0.906
Z * 0.962

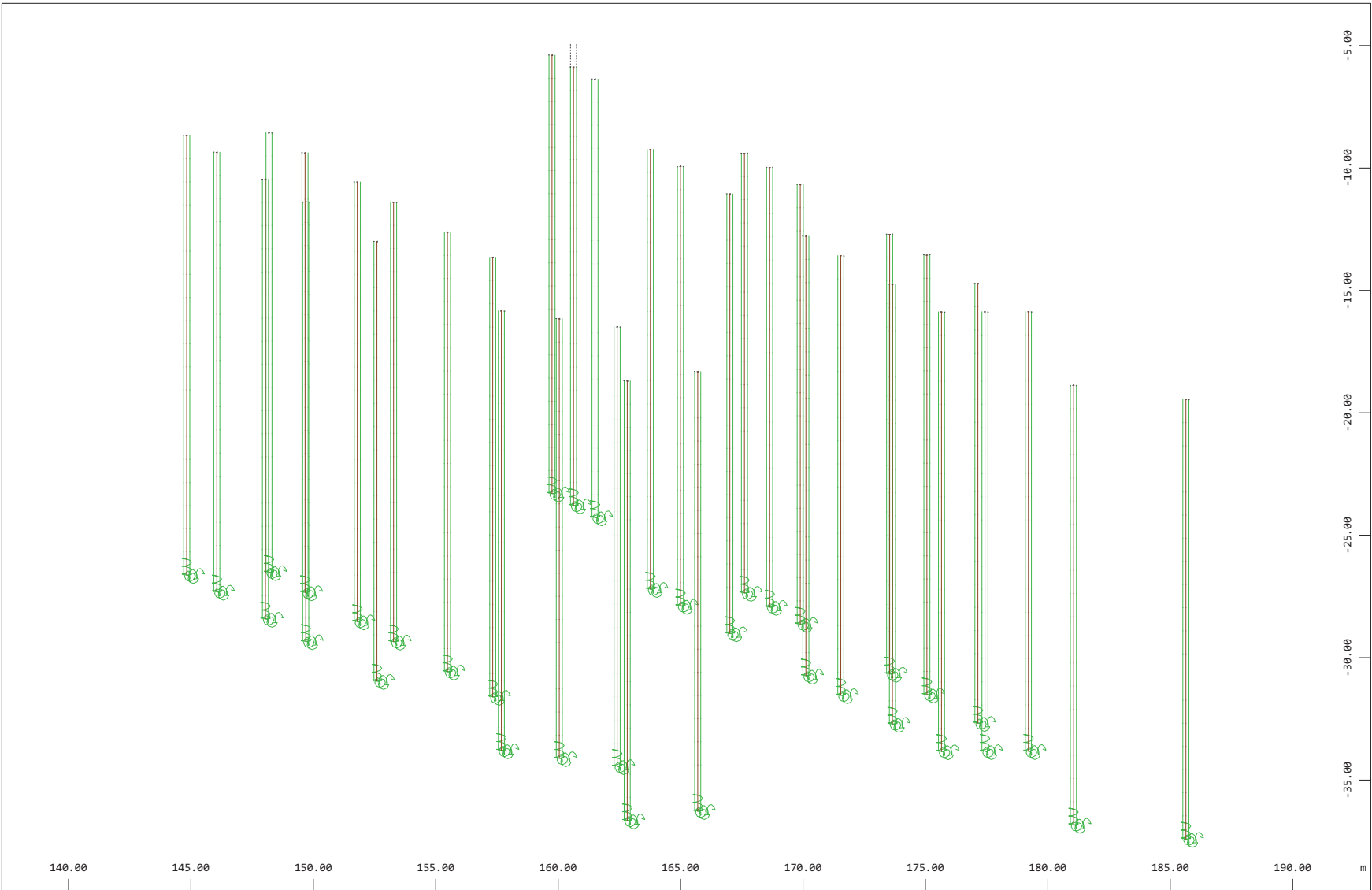
Sector of system Group 43
Beam Elements , Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

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Sector of system Group 43

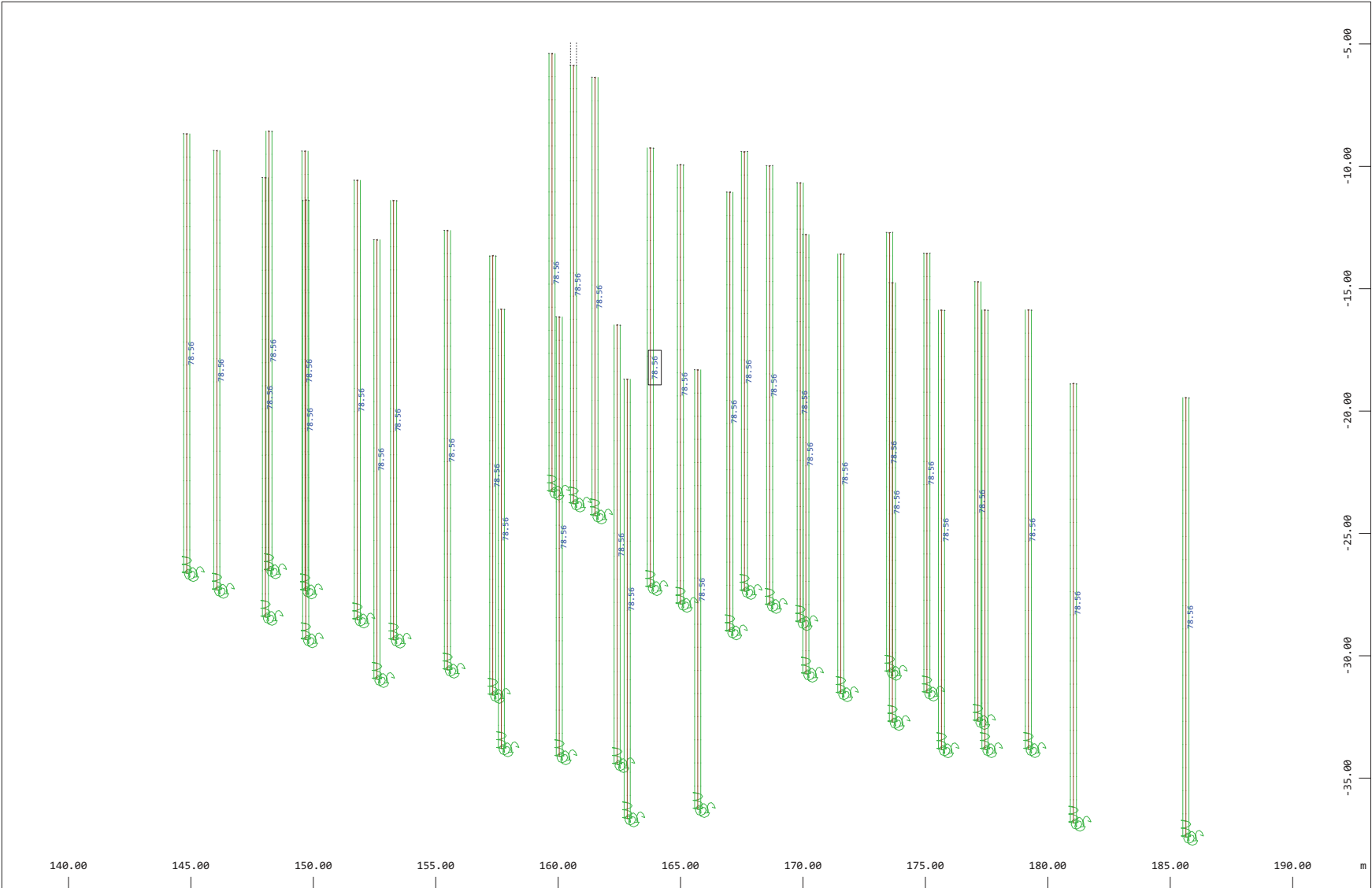
Beam Elements , Longitudinal reinforcements (total) in cm2, Design Case 1 (Max=78.56)



M 1 : 221
X * 0.582
Y * 0.986
Z * 0.962

Sector of system Group 55
Beam Elements, Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

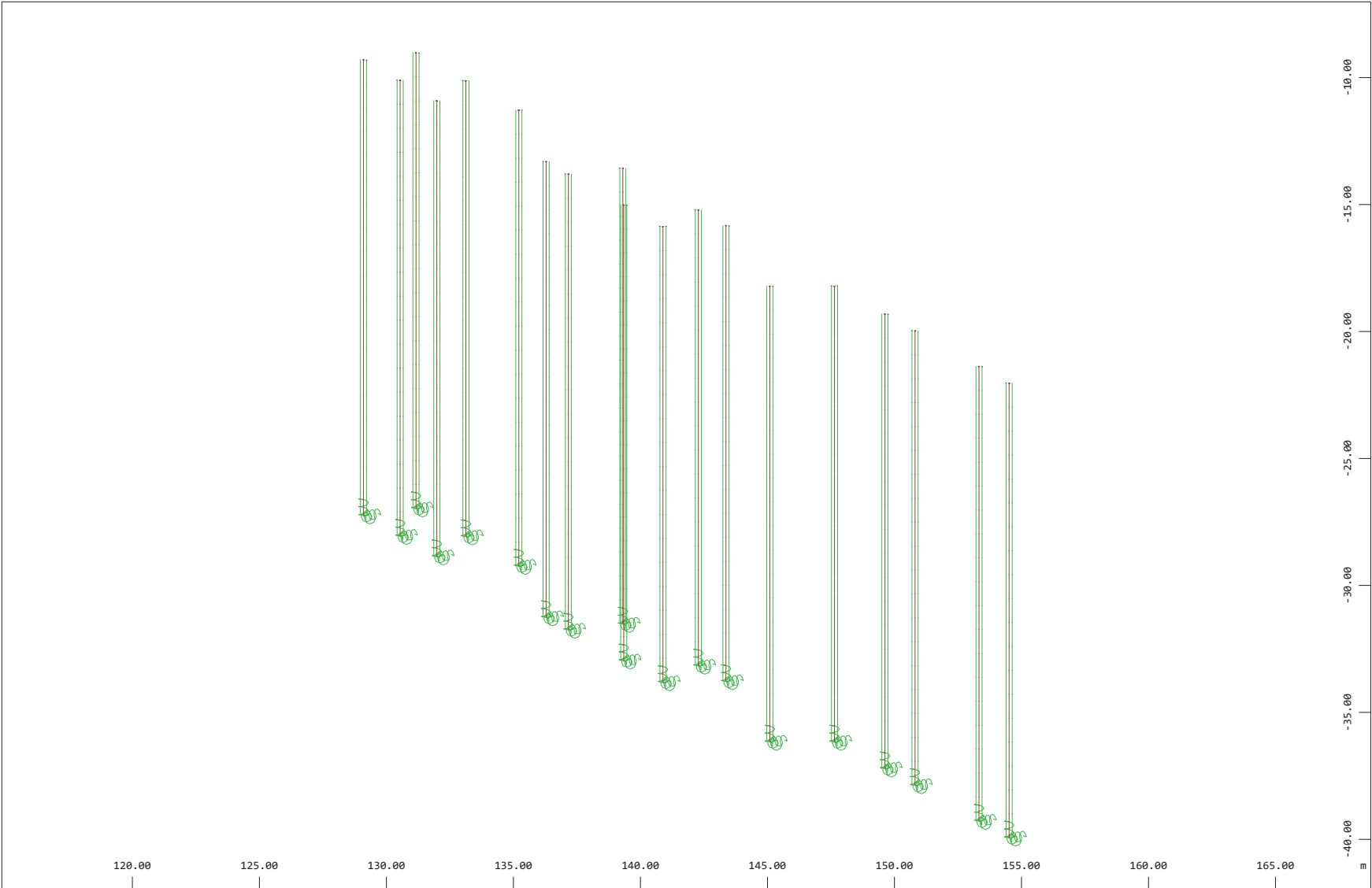
z
y
x
m:\project\piles\beam\beam_01001



M 1 : 221
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 55
Beam Elements , Longitudinal reinforcements (total) in cm2, Design Case 1 (Max=78.56)

z
y
x
m:\projects\krochke_bauprojekt_030515

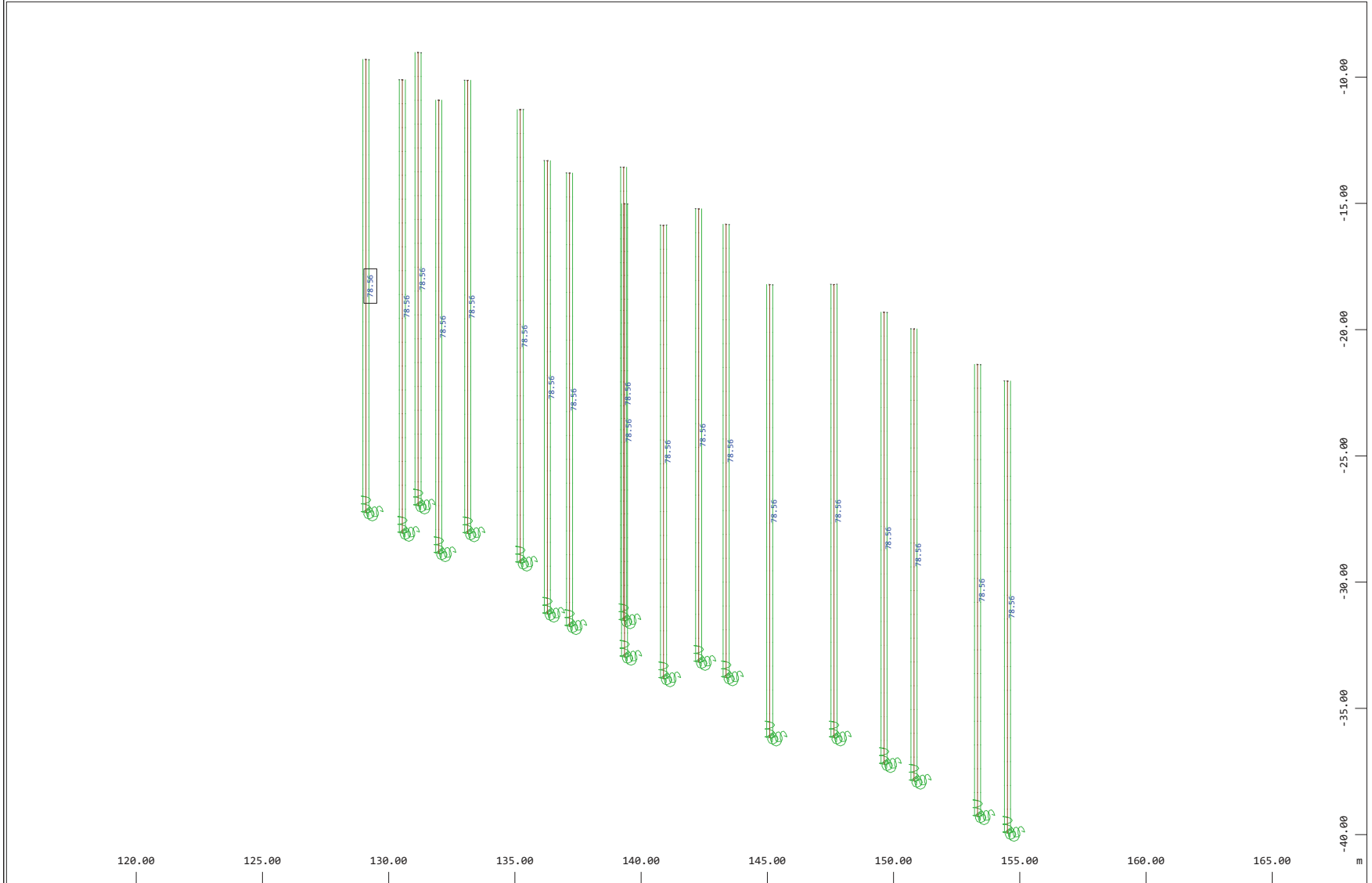


M 1 : 213
X * 0.502
Y * 0.906
Z * 0.962

Sector of system Group 69
Beam Elements , Shear reinforcements (maximum) in cm2/m, Design Case 1 (Max=0)

miaport from the Sector 0.0005
Z
Y
X

Geometry definition
pile rc schemes



Geometry definition

Parameters

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigsl	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
default	45.0	65.0	-	-	0.20	0.20	-	-	-	-
	45.0	65.0	-	-	0.20	0.20	-	-	-	-
6	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
7	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
8	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
9	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
19	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
20	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
21	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
22	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
34	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
35	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
36	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
37	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
38	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
39	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
48	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
49	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
50	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
51	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
63	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
64	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
65	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
66	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
76	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
77	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
78	65.0	95.0	-	-	-	-	-	-	-	-

Geometry definition

Parameters

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigsl	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	65.0	95.0	-	-	-	-	-	-	-	-
10	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
50	65.0	95.0	-	-	-	-	-	-	-	-
	65.0	95.0	-	-	-	-	-	-	-	-
79	35.0	45.0	-	-	-	-	-	-	-	-
	35.0	45.0	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-	-
81	-	-	-	-	-	-	-	-	-	-
80075	-	-	-	-	-	-	-	-	-	-
80076	-	-	-	-	-	-	-	-	-	-
80077	-	-	-	-	-	-	-	-	-	-
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

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The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.

Geometry definition

ULS design Footing

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
2	20100	1.200	16.32	1.17		19.20	6.91			2m	8.76
27	270407	1.200				32.06	11.41			2	26.42
44	440062	1.200	4.94	11.60			0.36			2	11.26
	440076	1.200		2.61		59.44	5.68			2	15.06
	440132	1.200	0.28			25.90	37.47			2m	8.76
Grp	primary group number				asu3	Third reinforcements		Top			
Element	element number				asl	Principal reinforcements (1st layer)		Bottom			
t	plate thickness				asl2	Cross reinforcements (2nd layer)		Bottom			
asu	Principal reinforcements (1st layer) Top				asl3	Third reinforcements		Bottom			
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum										
	shear reinf., 3=										
ass	Shear reinforcement										
	Elements with maximum values are printed										

Geometry definition

Non linear stress Footing

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]	
0	20100	1.200	16.32	1.17		19.20	6.91					
	270407	1.200				32.06	11.41					
	440062	1.200	4.94	11.60			0.36					
	440076	1.200		2.61		59.44	5.68					
	440132	1.200	0.28			25.90	37.47					
Grp	primary group number				asu3	Third reinforcements			Top			
Element	element number				asl	Principal reinforcements (1st layer)			Bottom			
t	plate thickness				asl2	Cross reinforcements (2nd layer)			Bottom			
asu	Principal reinforcements (1st layer)				asl3	Third reinforcements			Bottom			
asu2	Cross reinforcements (2nd layer)				Top							
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design											
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=											
ass	in a SLS design no shear design is done											
	Elements with maximum values are printed											

Geometry definition
ULS design Footing slabs

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
28	281092	1.300	29.28	21.88		49.64	18.27		0.07	1	
57	570114	1.300	67.94	5.75		8.82	1.85		0.40	2	9.22
	571599	1.300	6.69	6.27		29.10				2	21.66
71	710285	1.300	8.57	20.50		12.41	56.51			2	16.01
	710806	1.300	7.39	48.68		8.51	25.40			2	12.27
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					asl	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					asl2	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum										
	shear reinf., 3=										
ass	Shear reinforcement										
	Elements with maximum values are printed										

Geometry definition

Non linear stress Footing slabs

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	281092	1.300	29.28	21.88		49.64	18.27				
	570114	1.300	67.94	5.75		8.82	1.85				
	571599	1.300	6.69	6.27		29.10					
	710285	1.300	8.57	20.50		12.41	56.51				
	710806	1.300	7.39	48.68		8.51	25.40				
Grp	primary group number				asu3	Third reinforcements			Top		
Element	element number				asl	Principal reinforcements (1st layer)			Bottom		
t	plate thickness				asl2	Cross reinforcements (2nd layer)			Bottom		
asu	Principal reinforcements (1st layer) Top				asl3	Third reinforcements			Bottom		
asu2	Cross reinforcements (2nd layer) Top				reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=						
supp											
shear											
ass											
	in a SLS design no shear design is done Elements with maximum values are printed										

Geometry definition

ULS design Walls

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
62	620051	0.400	57.16	104.99		67.18	58.40		0.00	1	
	620052	0.400	62.17	75.09		65.50	31.59		0.00	1	
74	740271	0.350	24.14	20.03		28.20	37.12		0.71	2	30.52
	740377	0.350	49.35	43.18		50.98	96.87		0.00	1	
75	750215	0.400	41.28	109.71		51.38	47.55		0.00	1	
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					asl	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					asl2	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top					reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=					
supp											
shear											
ass											
	Shear reinforcement Elements with maximum values are printed										

Geometry definition

Non linear stress Walls

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	620051	0.400	57.16	104.99		67.18	58.40				
	620052	0.400	62.17	75.09		65.50	31.59				
	740271	0.350	24.14	20.03		28.20	37.12				
	740377	0.350	49.35	43.18		50.98	96.87				
	750215	0.400	41.28	109.71		51.38	47.55				
Grp	primary group number				asu3	Third reinforcements			Top		
Element	element number				asl	Principal reinforcements (1st layer)			Bottom		
t	plate thickness				asl2	Cross reinforcements (2nd layer)			Bottom		
asu	Principal reinforcements (1st layer)				asl3	Third reinforcements			Bottom		
asu2	Cross reinforcements (2nd layer)				Top						
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Geometry definition

ULS design Decks

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
8	80038	1.100	1.54	91.84		0.96				2	91.78
36	360660	1.100	19.45	38.13		28.84	153.27		0.00	1	
37	370692	0.550	80.66	69.17		7.51	13.82		0.76	2	16.29
48	480324	1.100	77.79	202.94		1.40				2	25.80
50	500034	0.950	6.32	60.35		201.78	57.91			1	
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					asl	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					asl2	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	Shear reinforcement										
	Elements with maximum values are printed										

Geometry definition

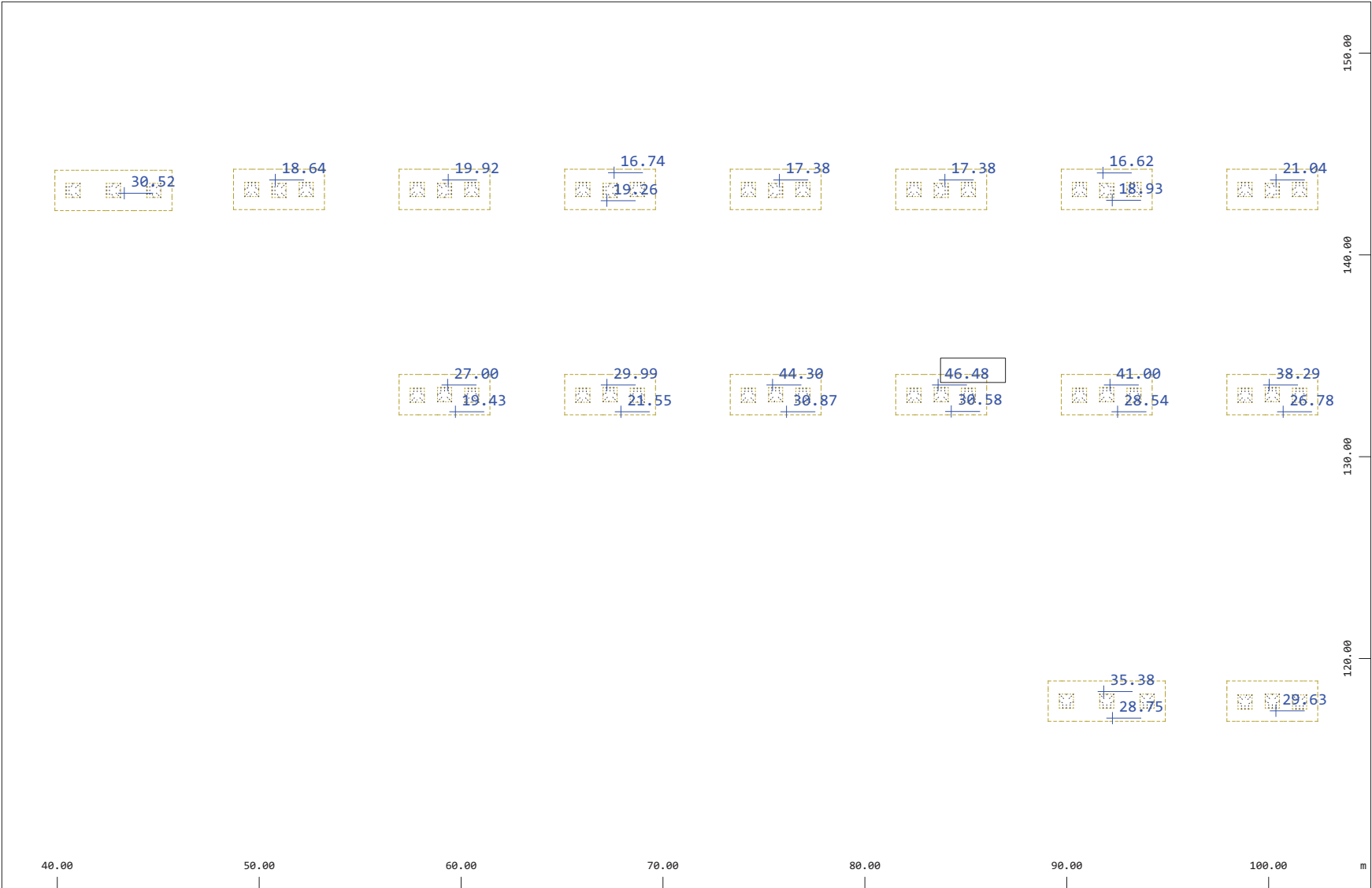
Non linear stress Decks

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	80038	1.100	1.54	91.84		0.96					
	360660	1.100	19.45	38.13		28.84	153.27				
	370692	0.550	80.66	69.17		7.51	13.82				
	480324	1.100	77.79	202.94		1.40					
	500034	0.950	6.32	60.35		201.78	57.91				
Grp	primary group number				asu3	Third reinforcements		Top			
Element	element number				asl	Principal reinforcements (1st layer)		Bottom			
t	plate thickness				asl2	Cross reinforcements (2nd layer)		Bottom			
asu	Principal reinforcements (1st layer) Top				asl3	Third reinforcements		Bottom			
asu2	Cross reinforcements (2nd layer) Top				reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear zone: 1=Ok, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=						
supp											
shear											
ass											
	in a SLS design no shear design is done Elements with maximum values are printed										

Geometry definition
quad rc schemes





M 1 : 268

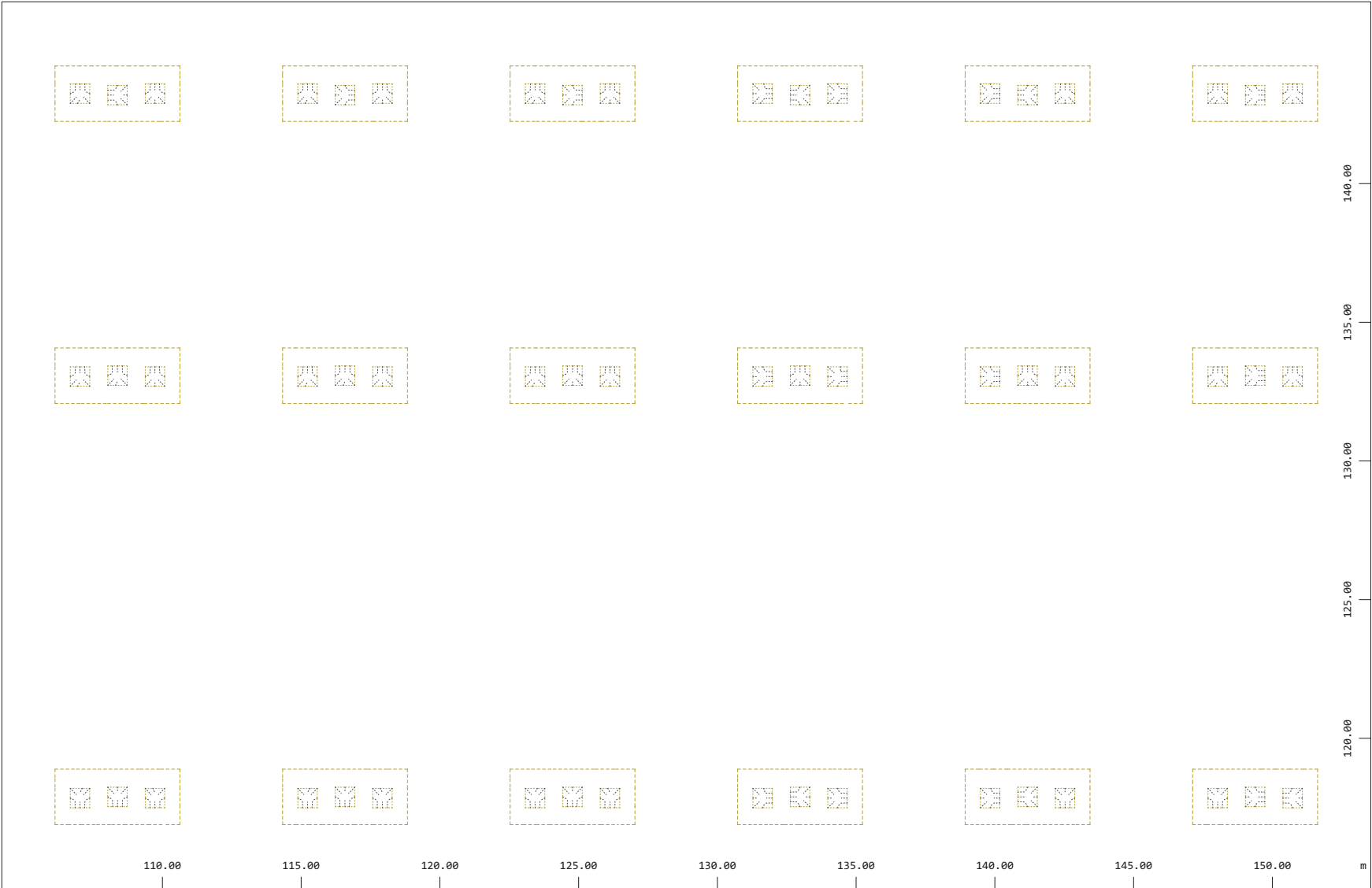
Sector of system Group 2
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=46.48)

mscsoft\acad\laser\laser.dwg



Sector of system Group 2
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 13.26 (Max=25.05)

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Y
Z-X
Sector of system Group 15
Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=8.40)

msd\proj\knoten\knoten_01001



Sector of system Group 15
Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=40.86)

M 1 : 195

Y
Z-X

110.00 115.00 120.00 125.00 130.00 135.00 140.00 145.00 150.00 m

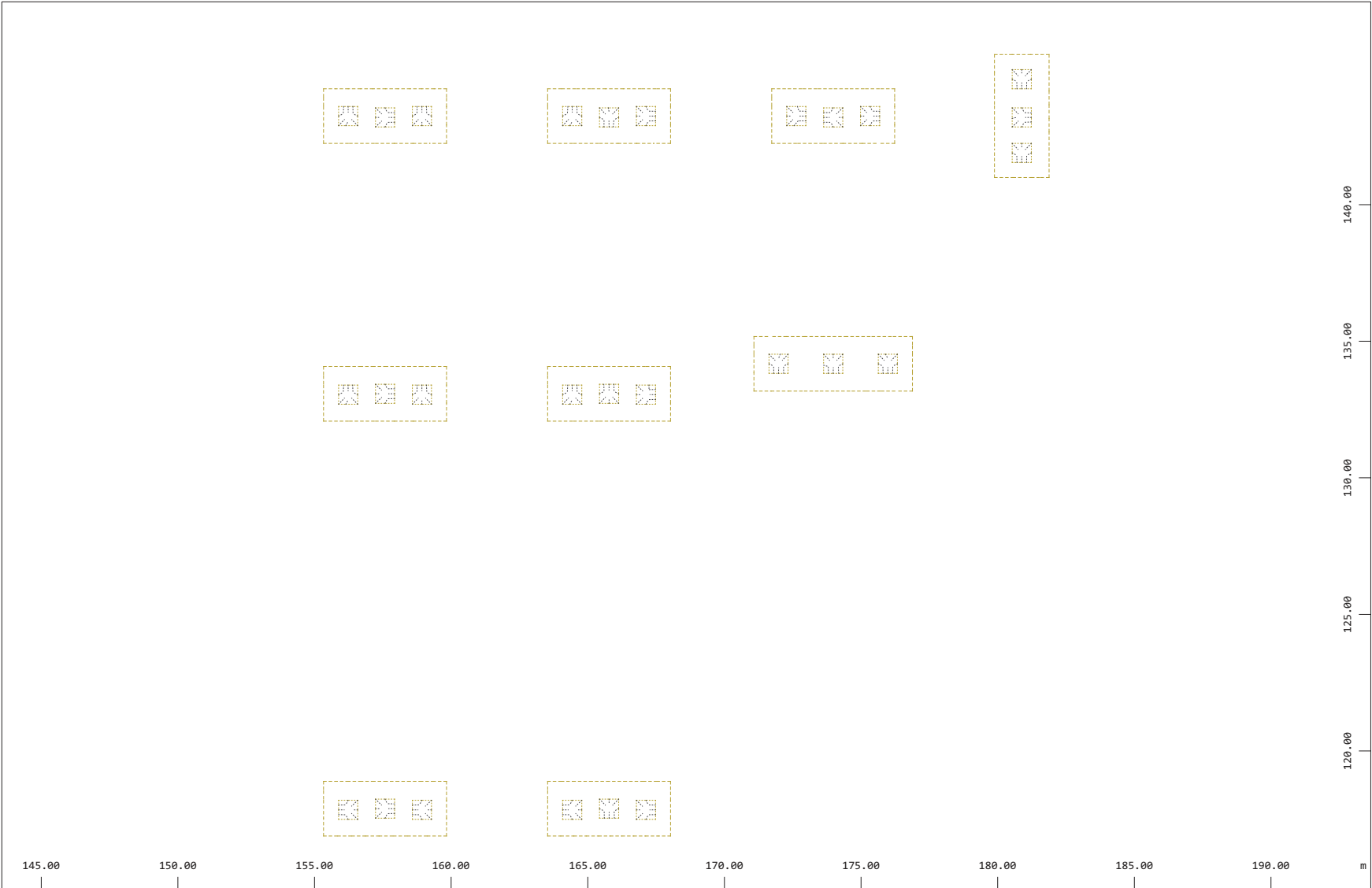
120.00 125.00 130.00 135.00 140.00

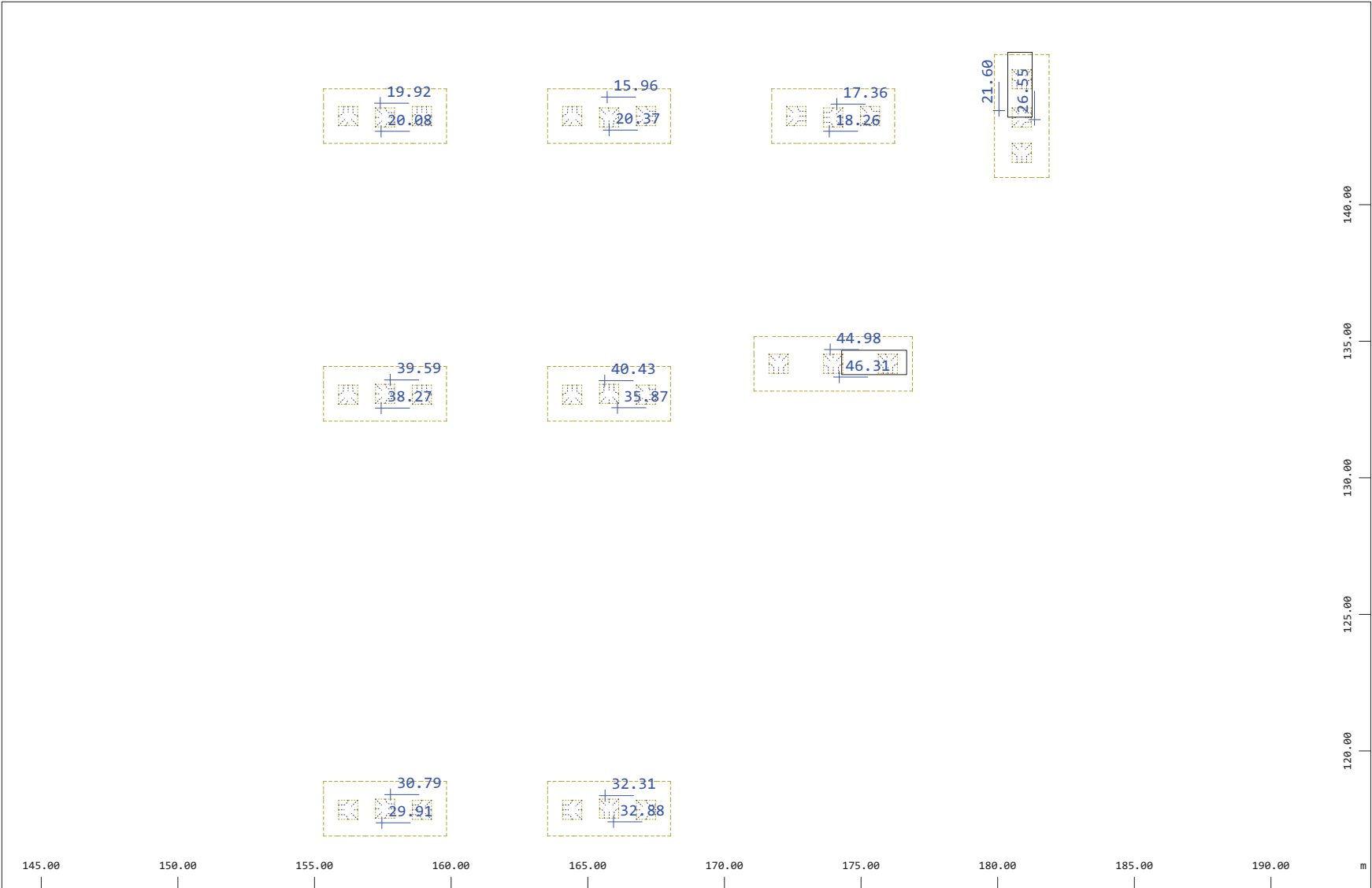


Sector of system Group 15
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 13.26 (Max=24.58)

M 1 : 195

Geometry definition
Quad rc schemes



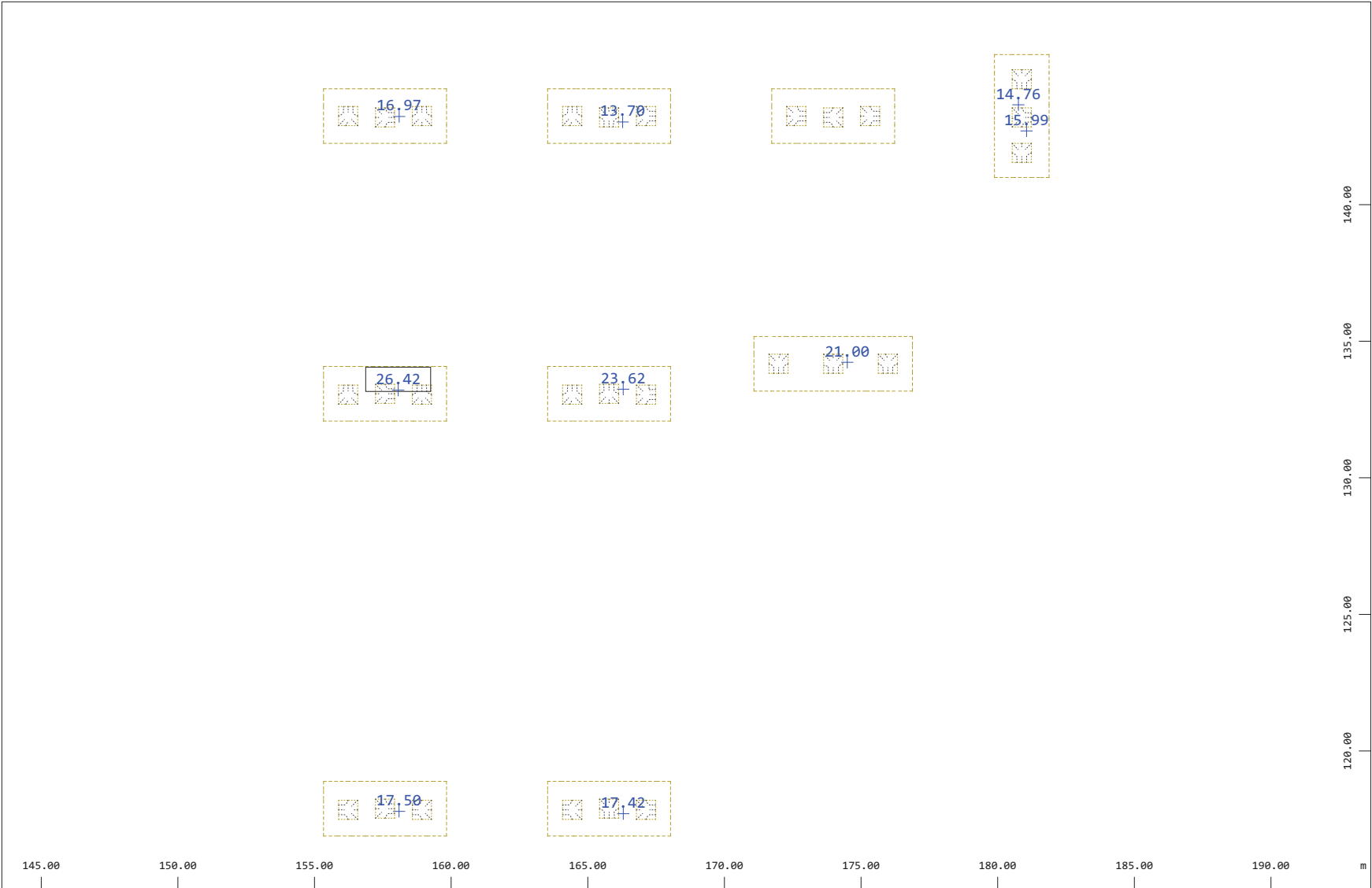


M 1 : 198

Sector of system Group 27

Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=46.31)

Y
Z-X
magnified from factor 0.0015

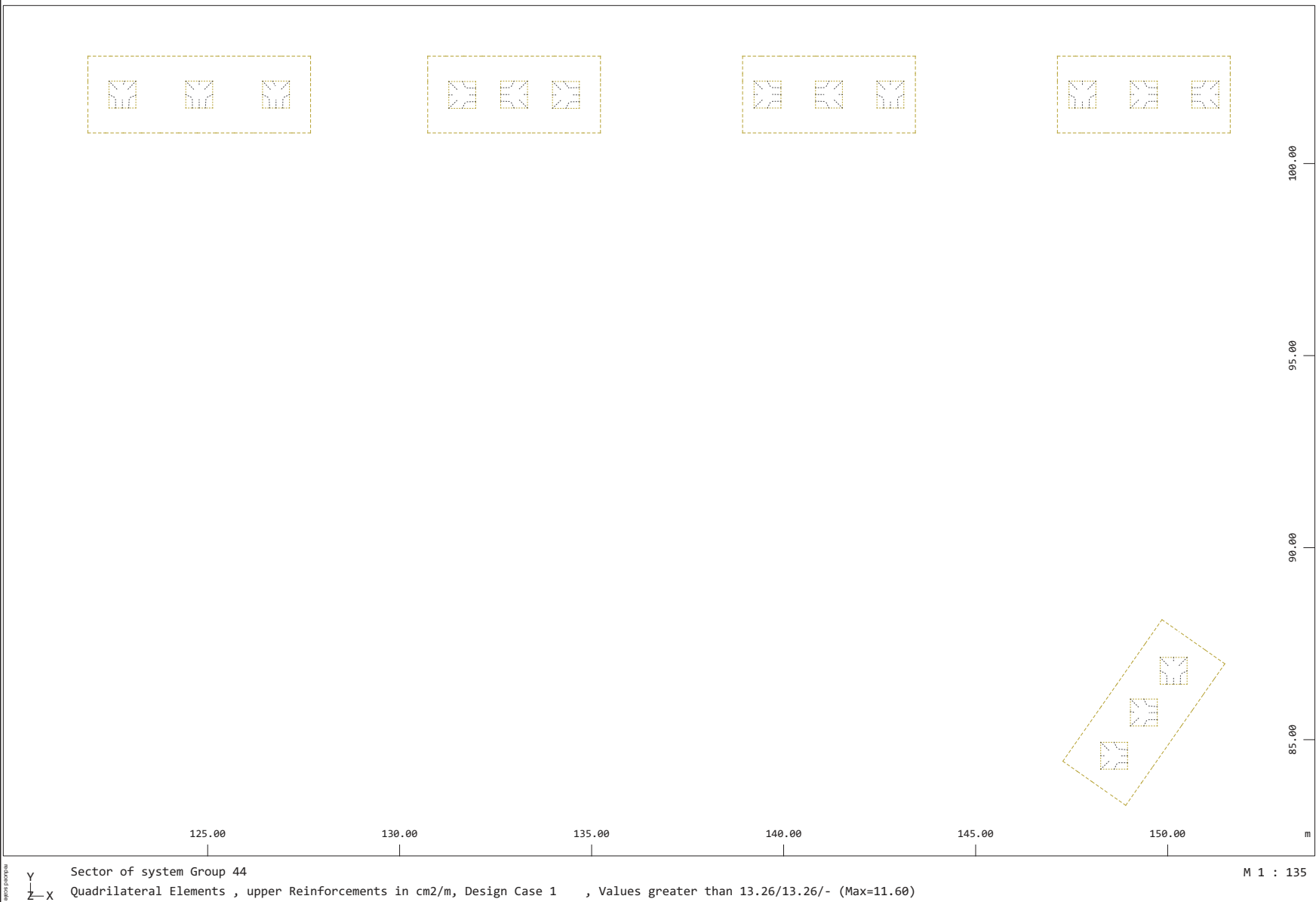


Sector of system Group 27
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 13.26 (Max=26.42)

Y
Z-X

misprint: from: Sector 0.003

Geometry definition
quad rc schemes





Sector of system Group 44
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=59.44)

Y
Z-X

mispost from Sector 0.005

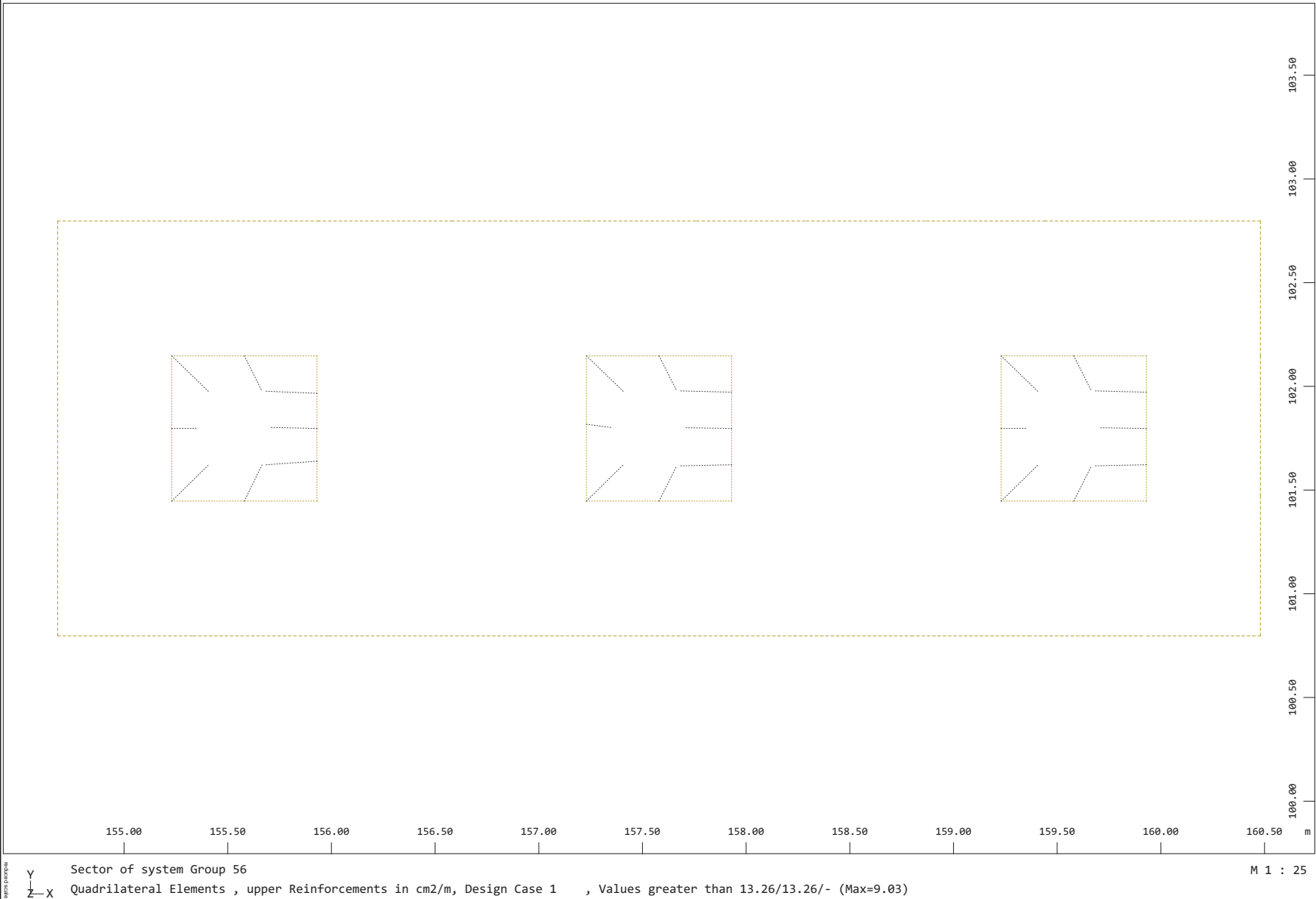


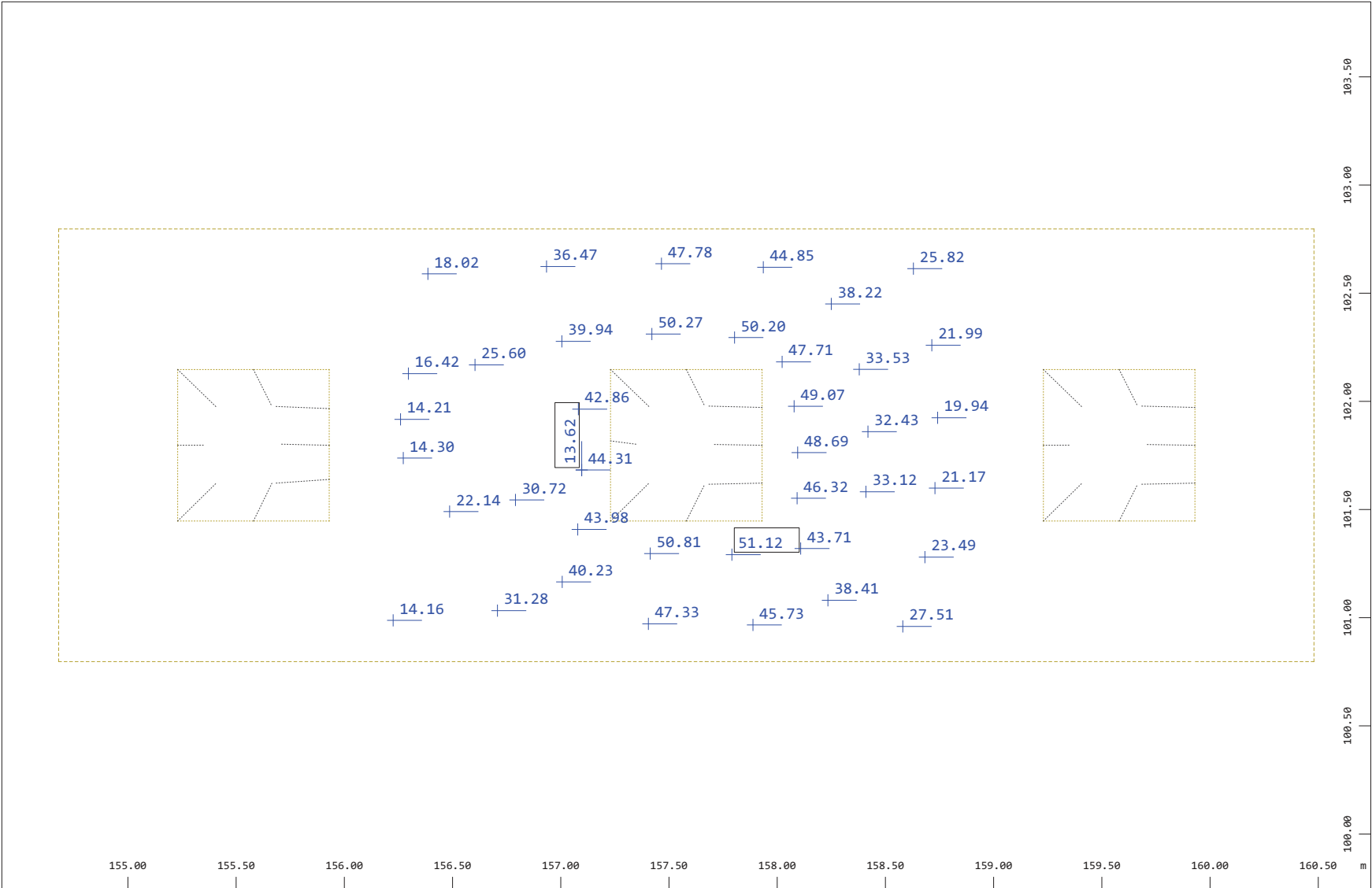
Sector of system Group 44
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 13.26 (Max=25.53)

Y
Z-X

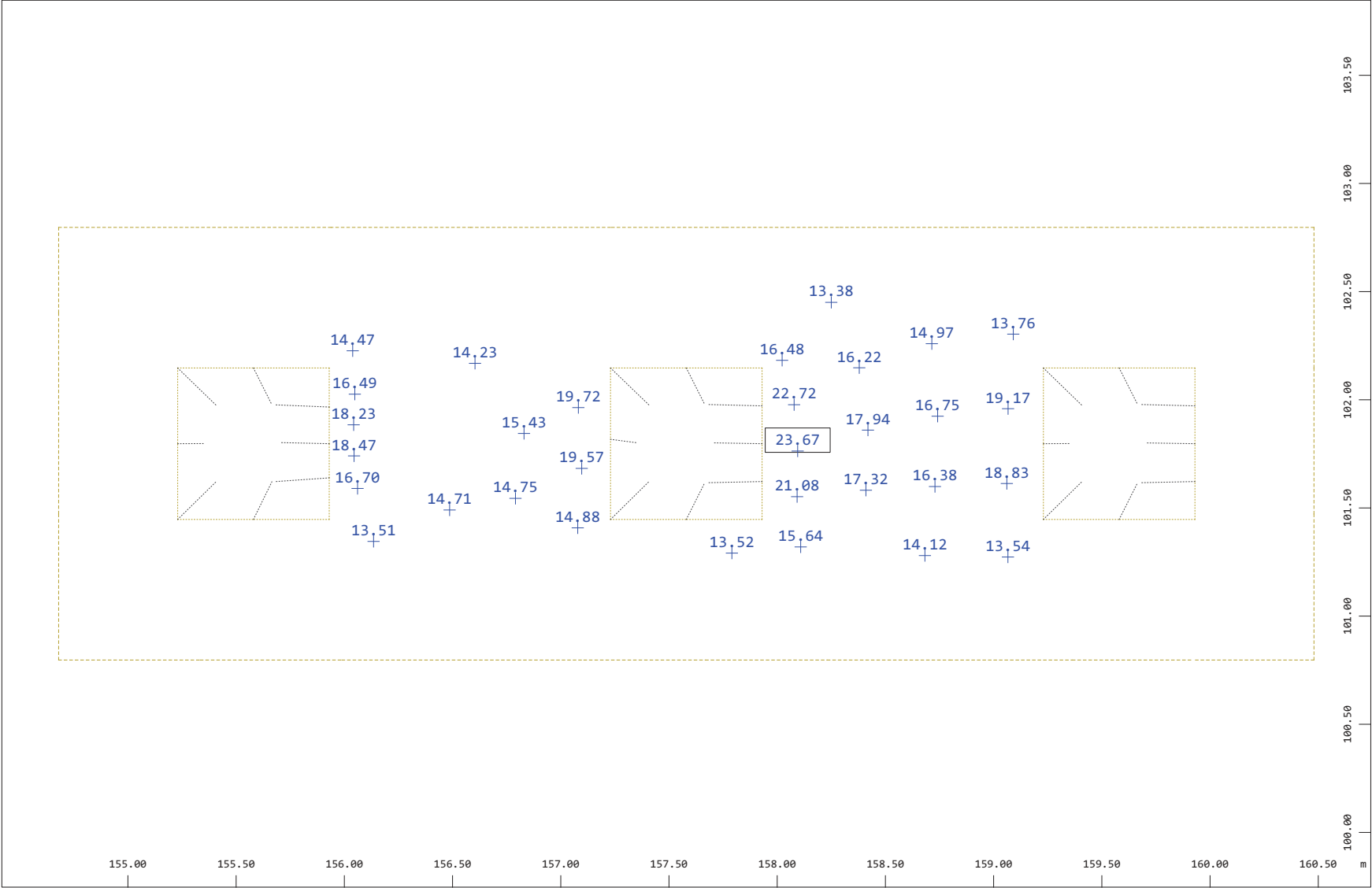
misprint from Sector 0.0015

Geometry definition
quad rc schemes





Sector of system Group 56
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=51.12)
M 1 : 25



Sector of system Group 56
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 13.26 (Max=23.67)

Y
Z-X

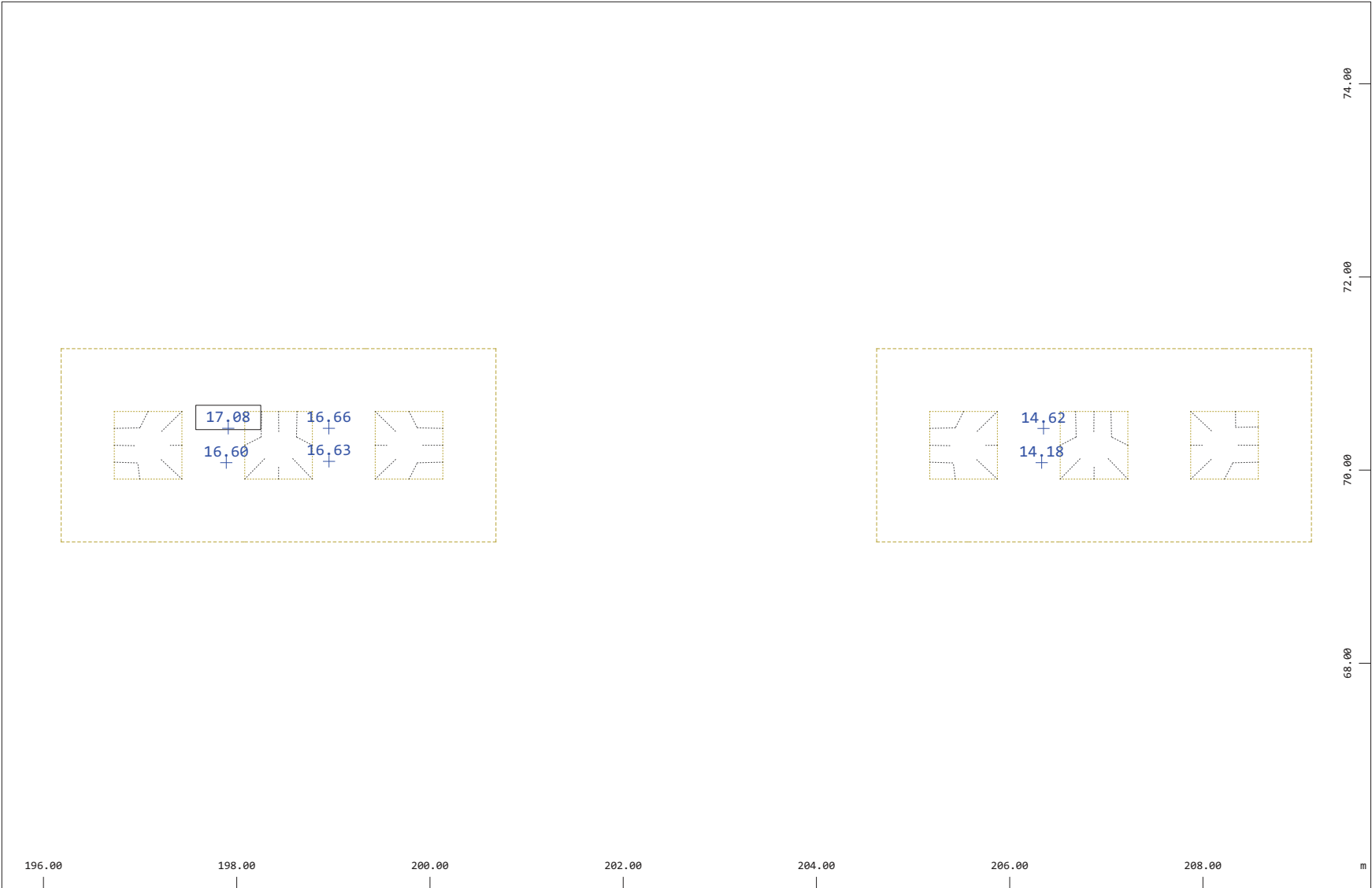
mispost: format: Sector: 0.0015

Geometry definition
quad rc schemes



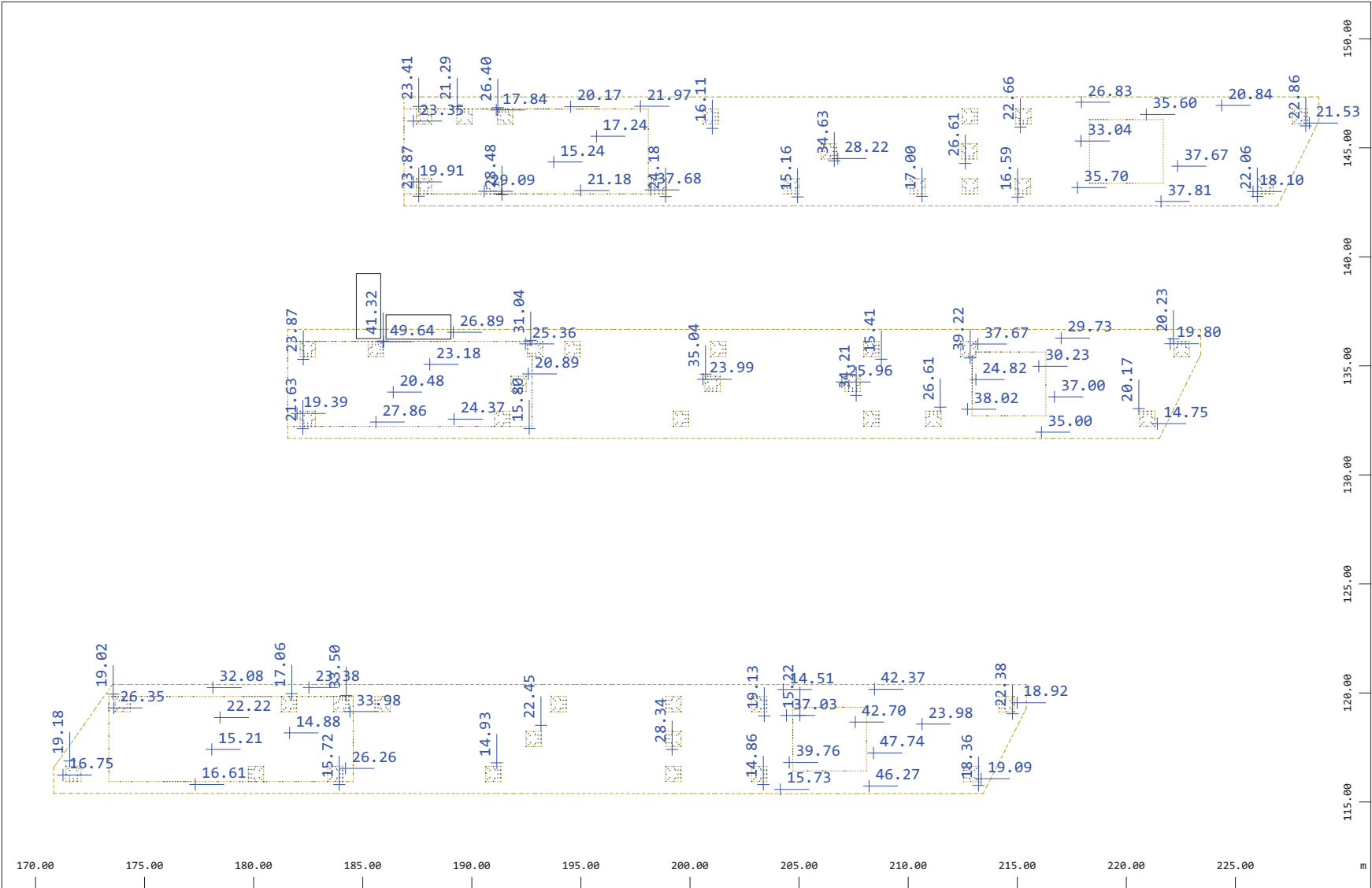


Sector of system Group 70
Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 13.26/13.26/- (Max=29.91)



Sector of system Group 70
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 13.26 (Max=17.08)

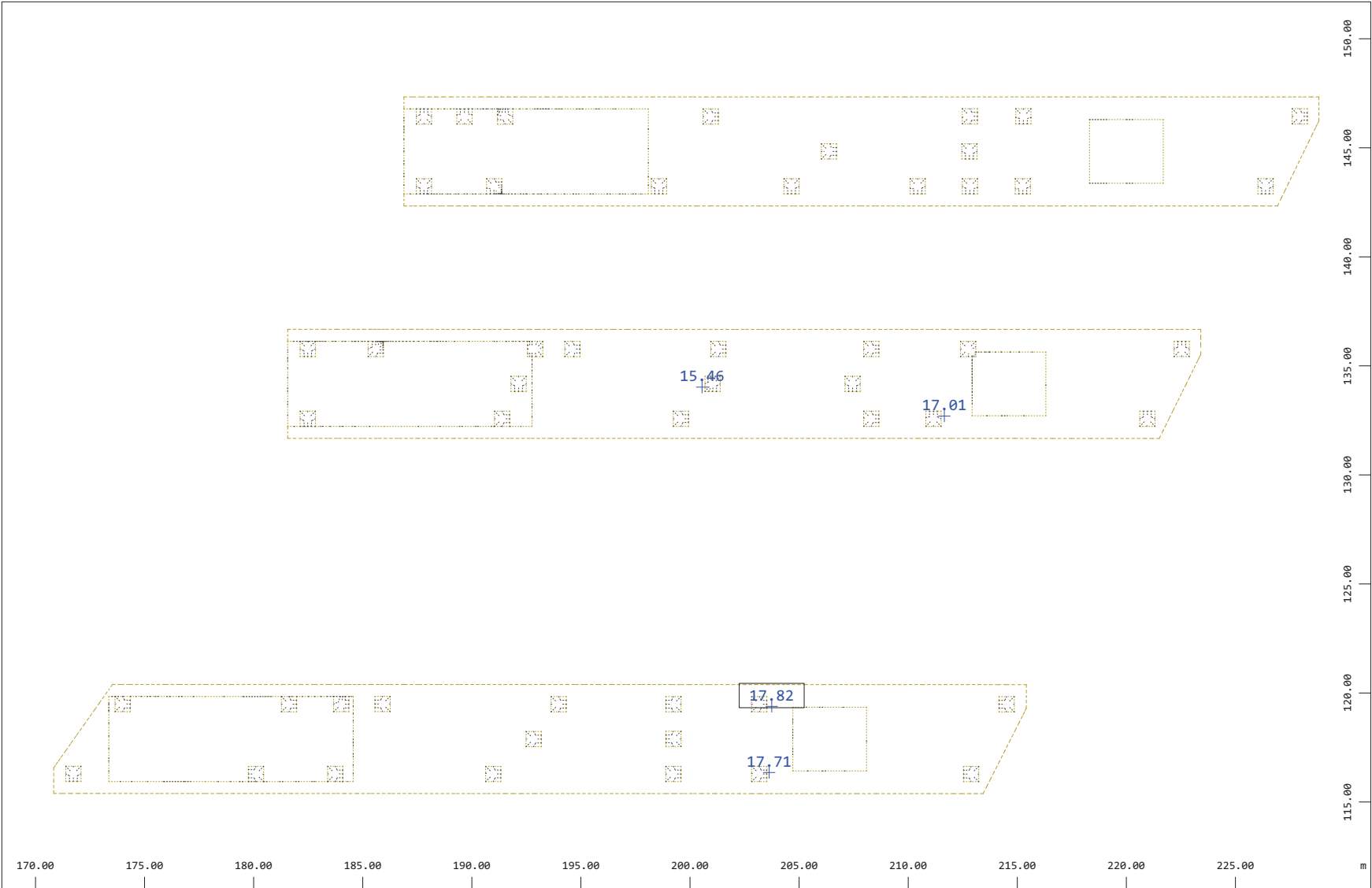
misprint from Sector 0.0015



M 1 : 248

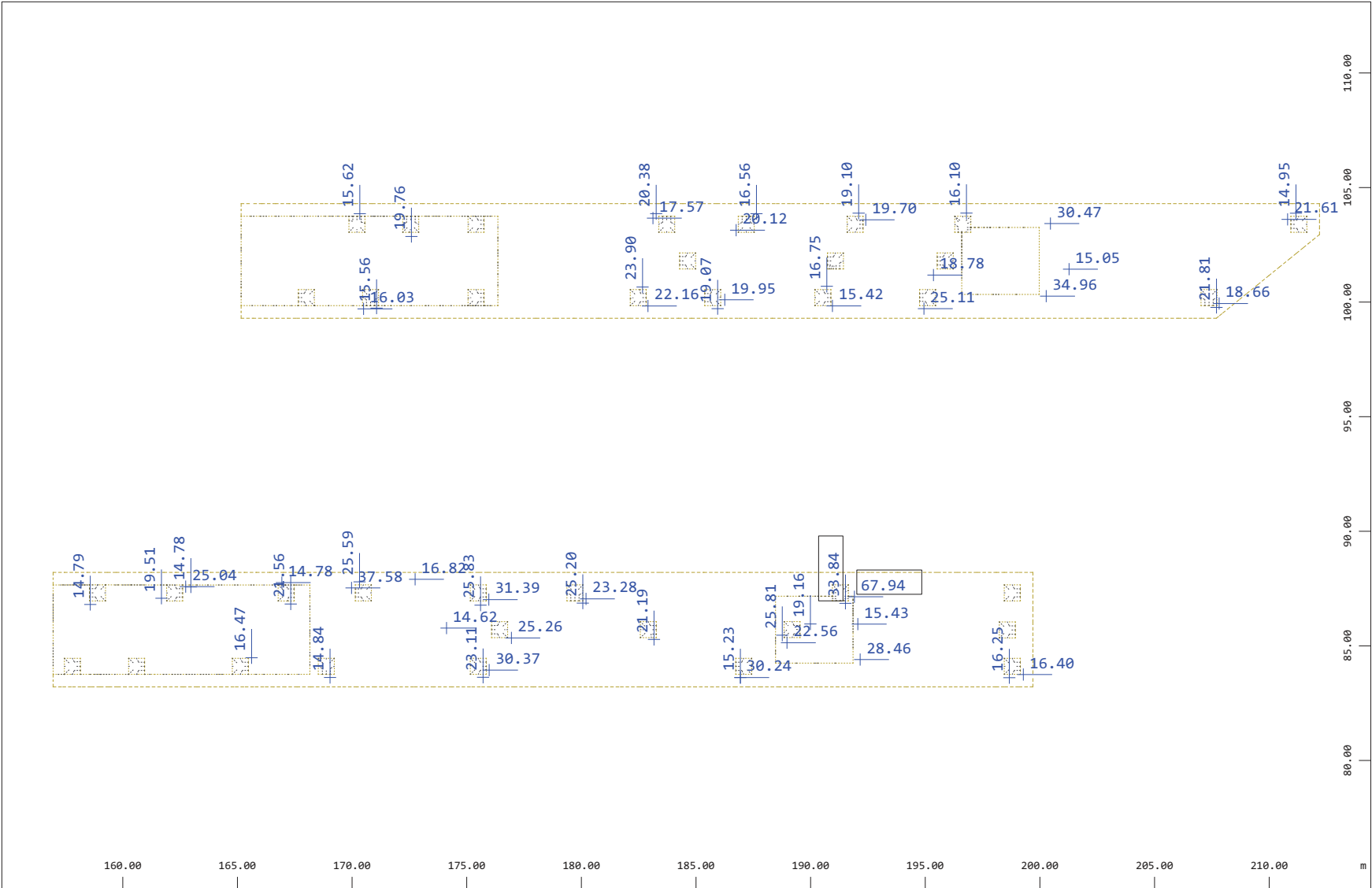
Sector of system Group 28
Quadrilateral Elements, lower Reinforcements in cm2/m, Design Case 1, Values greater than 14.36/14.36/- (Max=49.64)

Y
Z-X



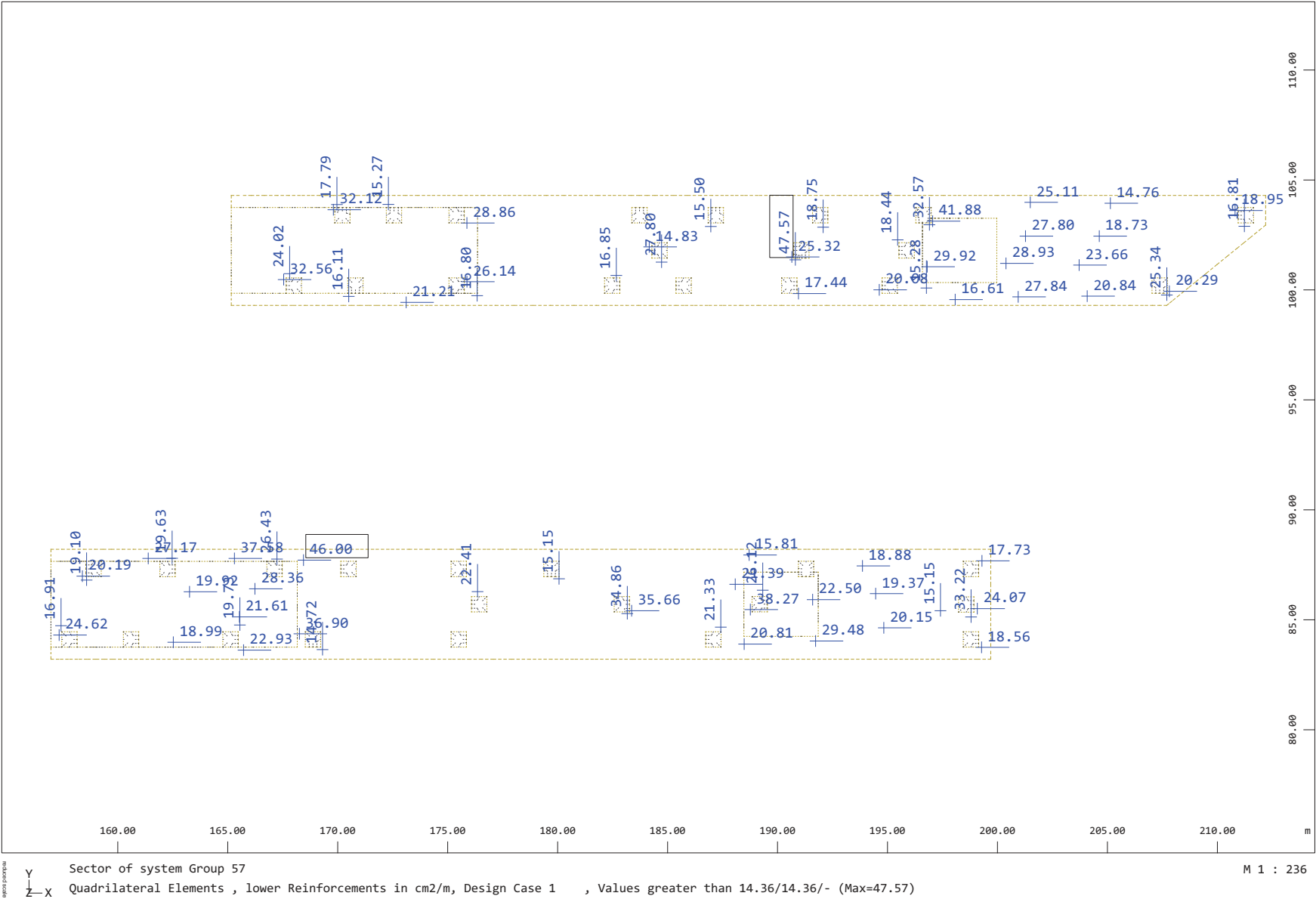
Sector of system Group 28
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 14.36 (Max=17.82)

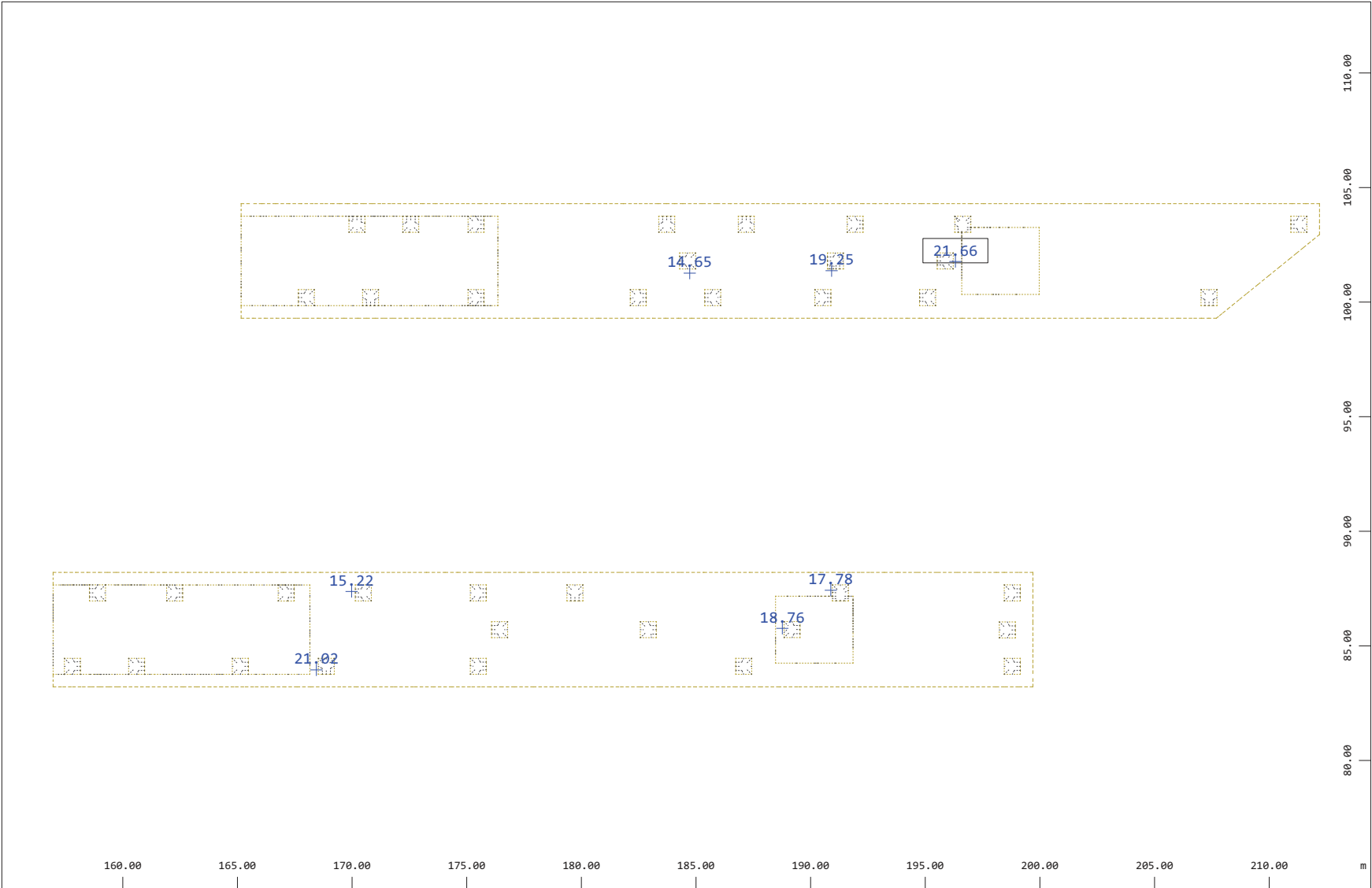
mscsoft GmbH, Berlin 03055



Sector of system Group 57
Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 14.36/14.36/- (Max=67.94)

50000 rising below picture

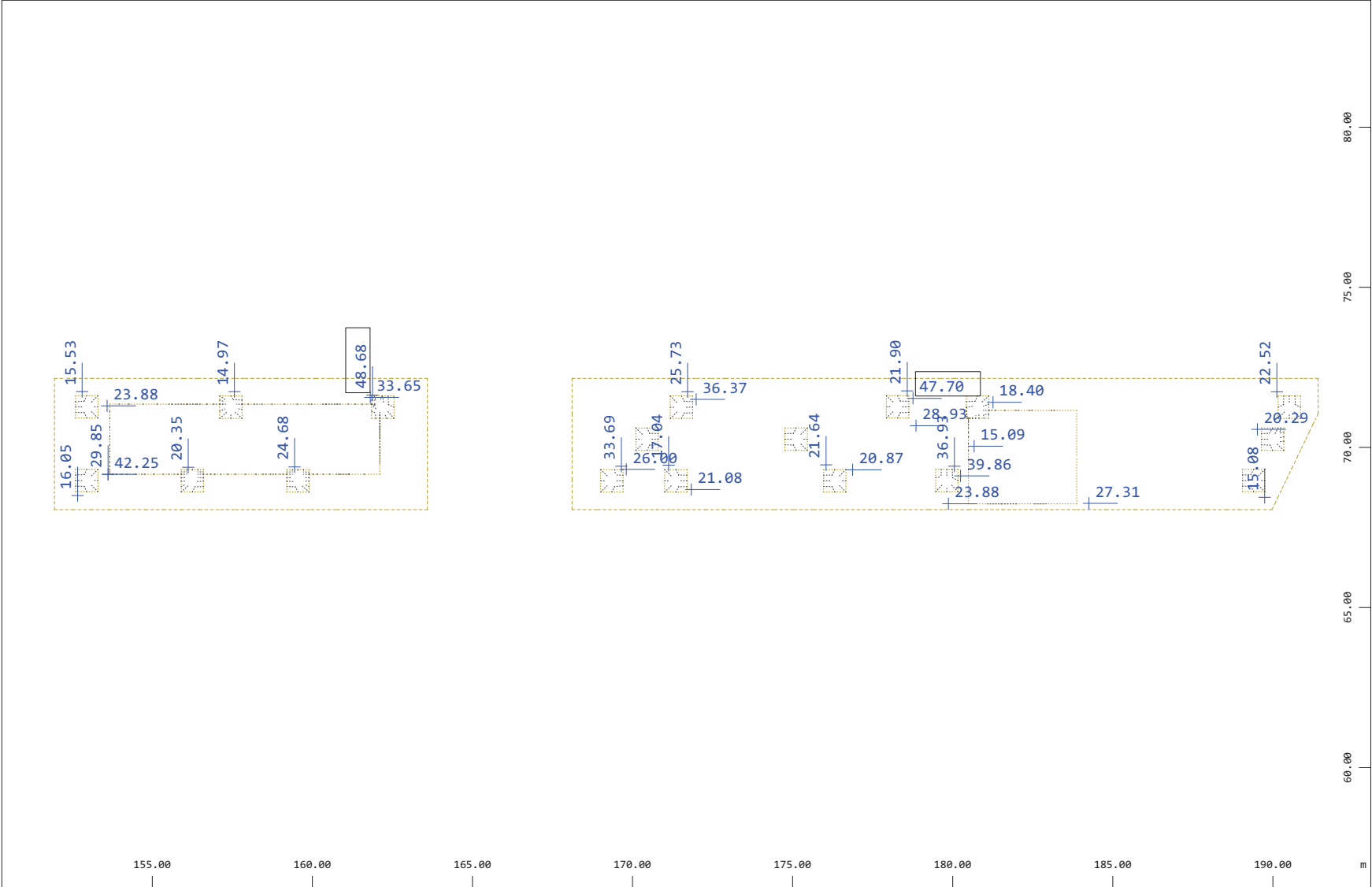




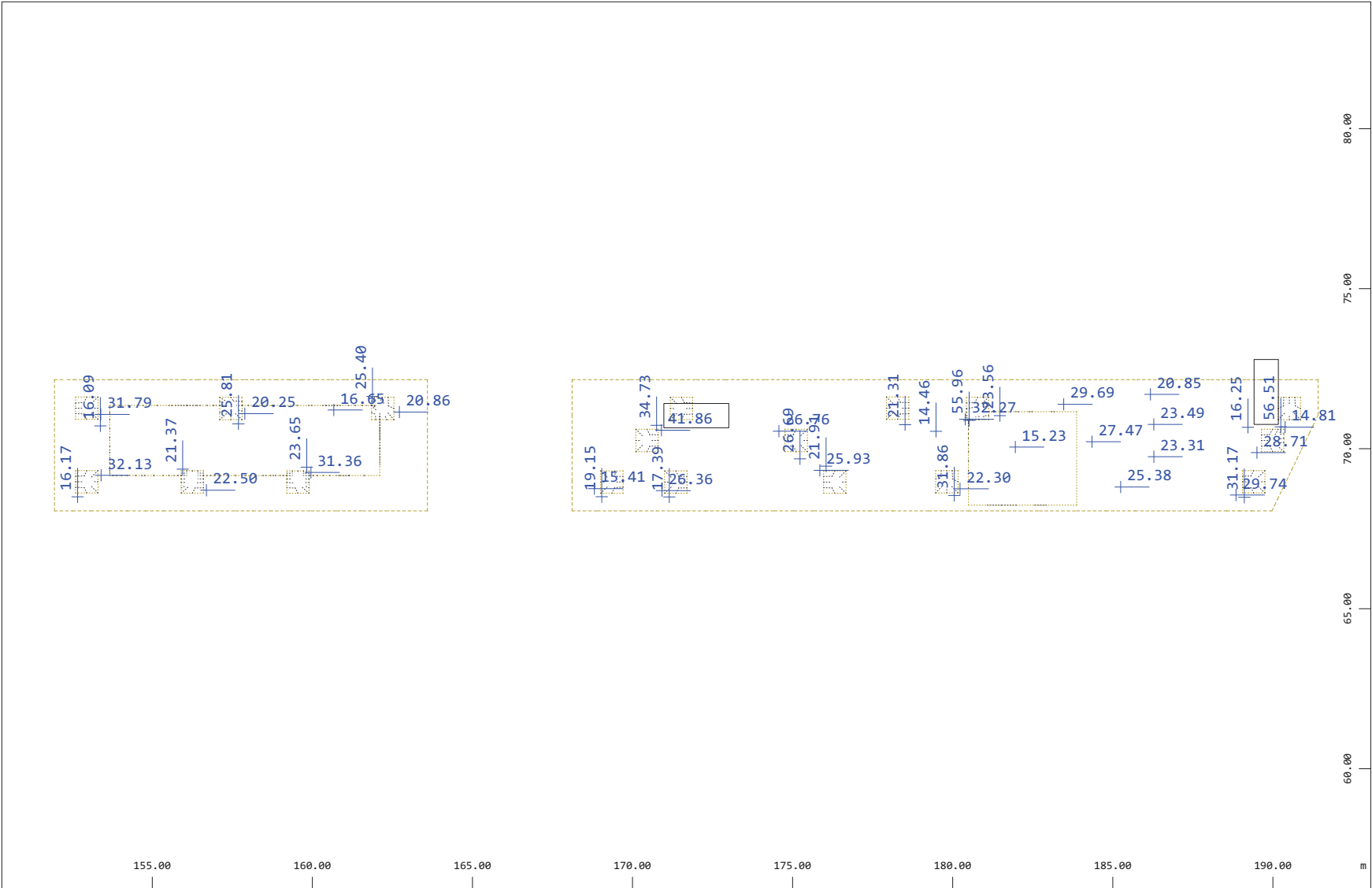
Sector of system Group 57
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 14.36 (Max=21.66)

Y
Z-X

msd\proj\knoten\knoten_0.0015

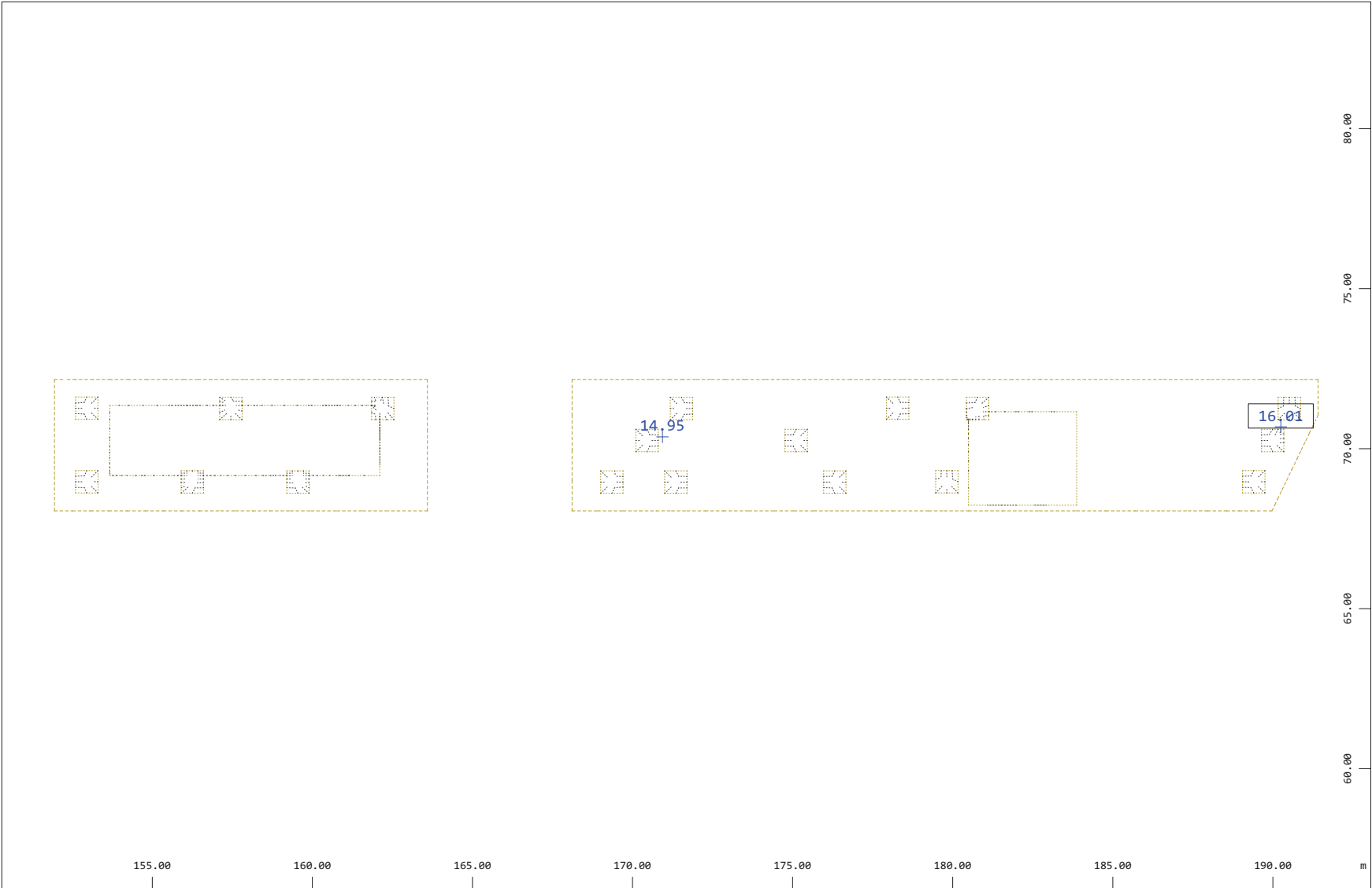


Sector of system Group 71
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 14.36/14.36/- (Max=48.68)
M 1 : 169



Sector of system Group 71
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 14.36/14.36/- (Max=56.51)

msd
10/10/2023

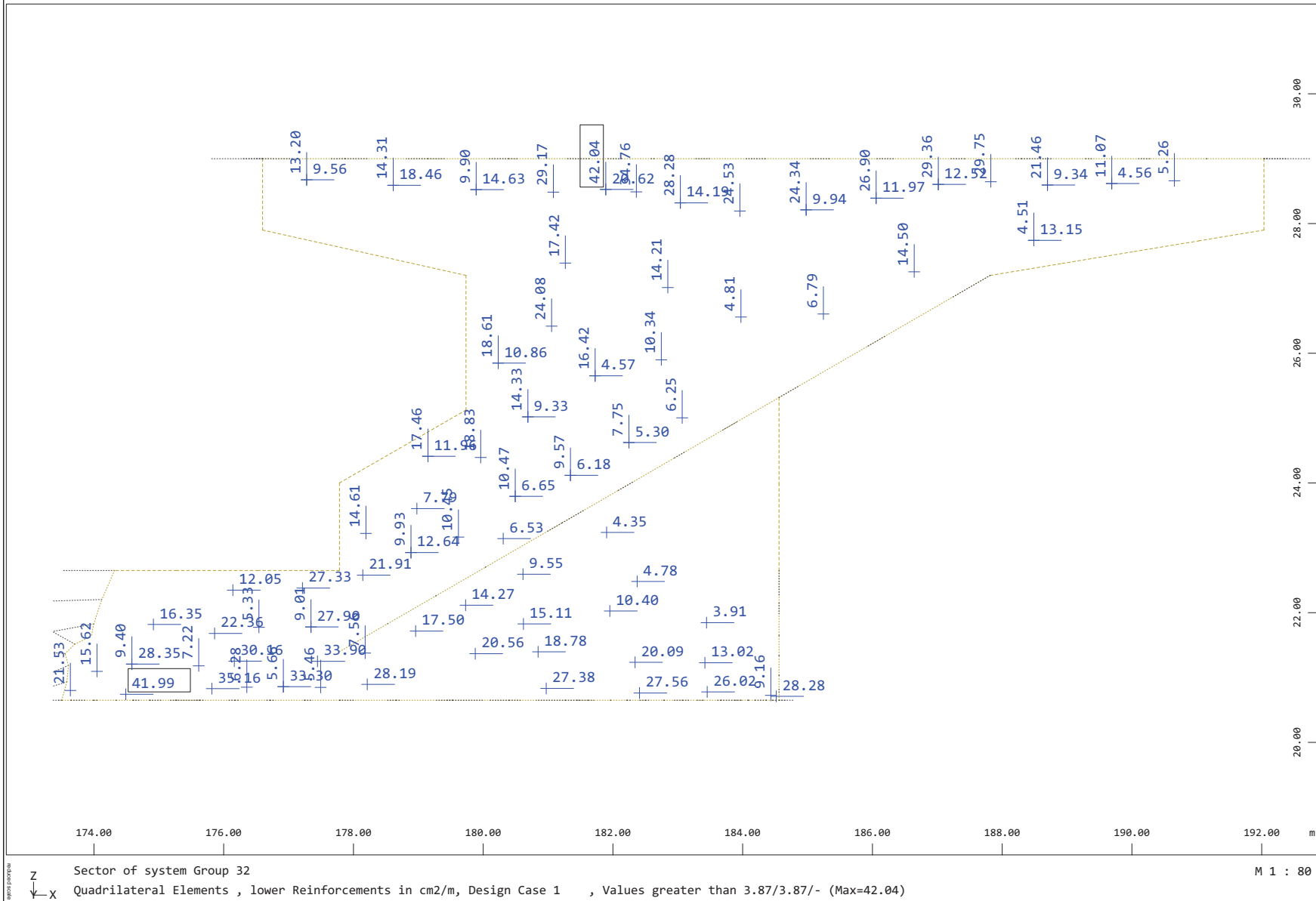


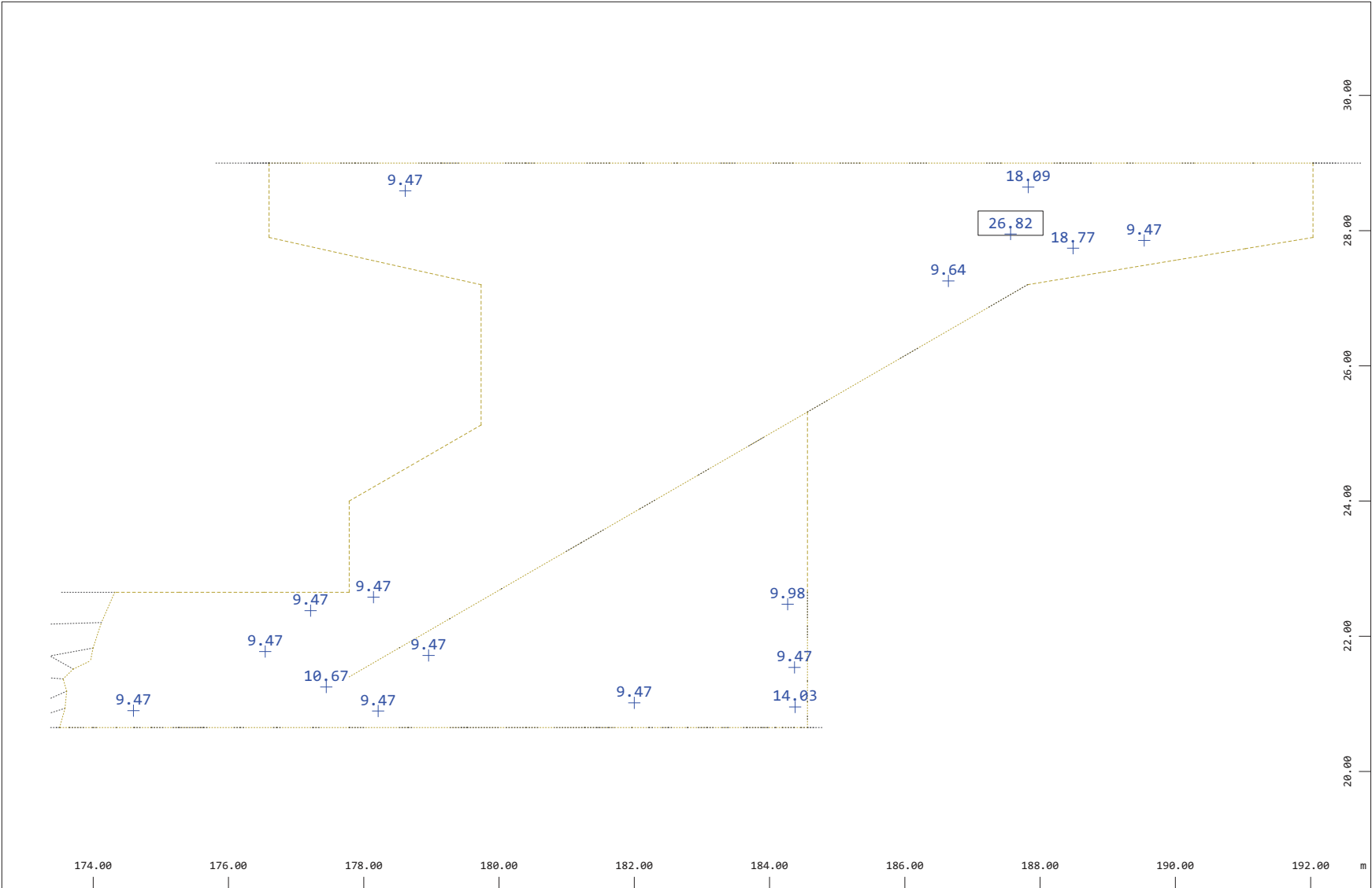
M 1 : 169

Sector of system Group 71
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 14.36 (Max=16.01)

Y
Z-X
m





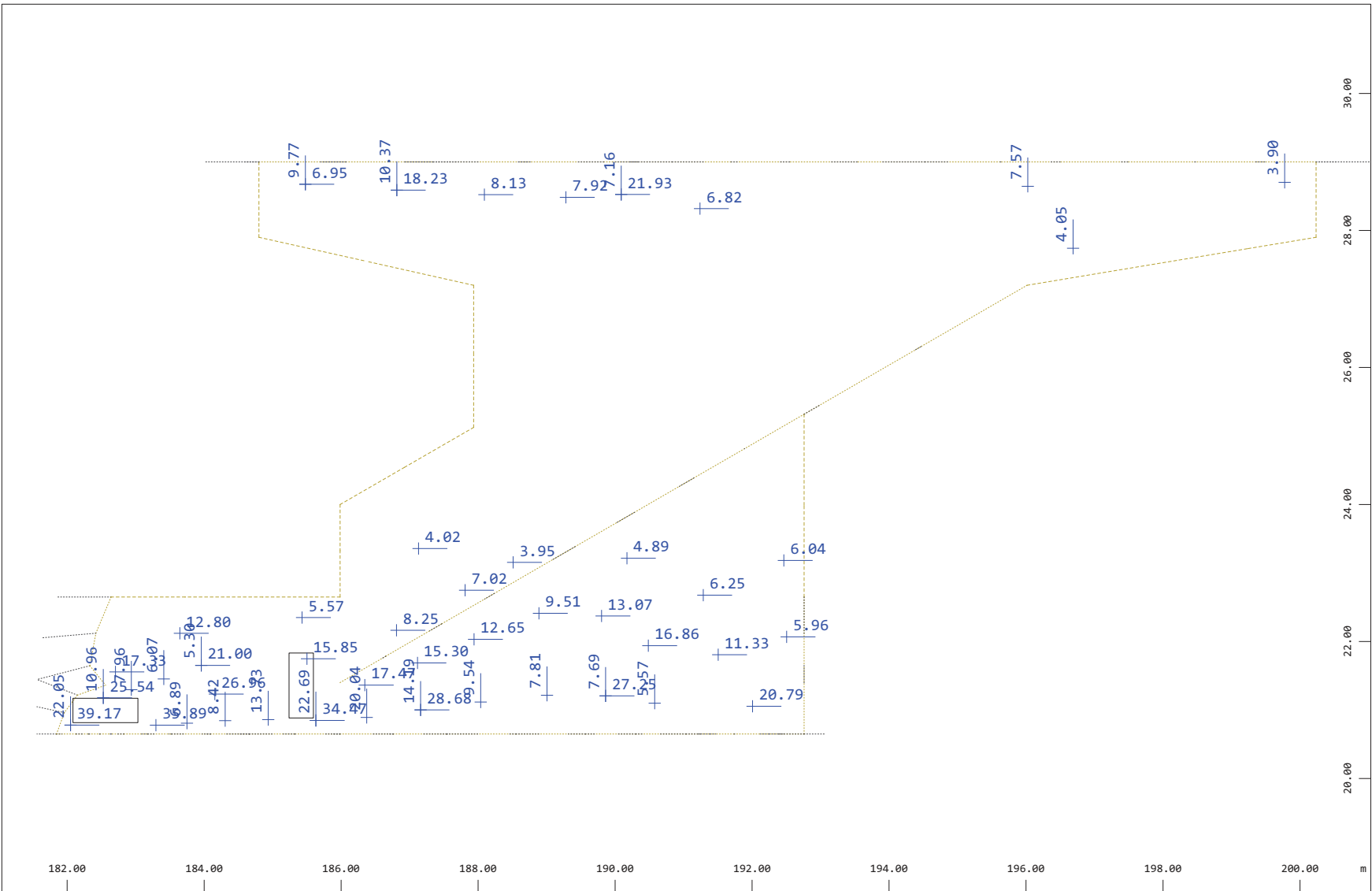


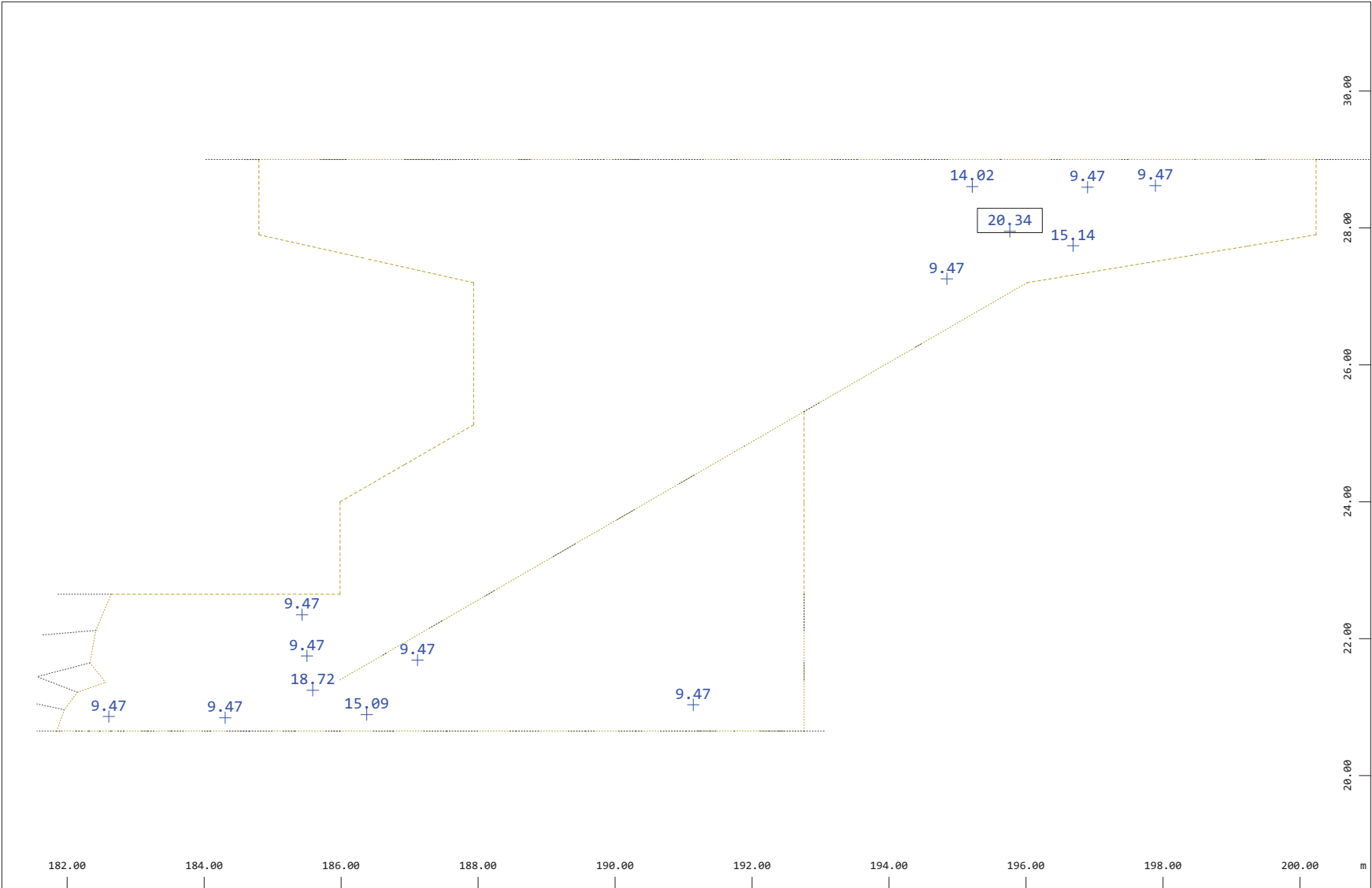
M 1 : 80

Sector of system Group 32
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 3.87 (Max=26.82)

z
x
magnified factor: factor 0.005





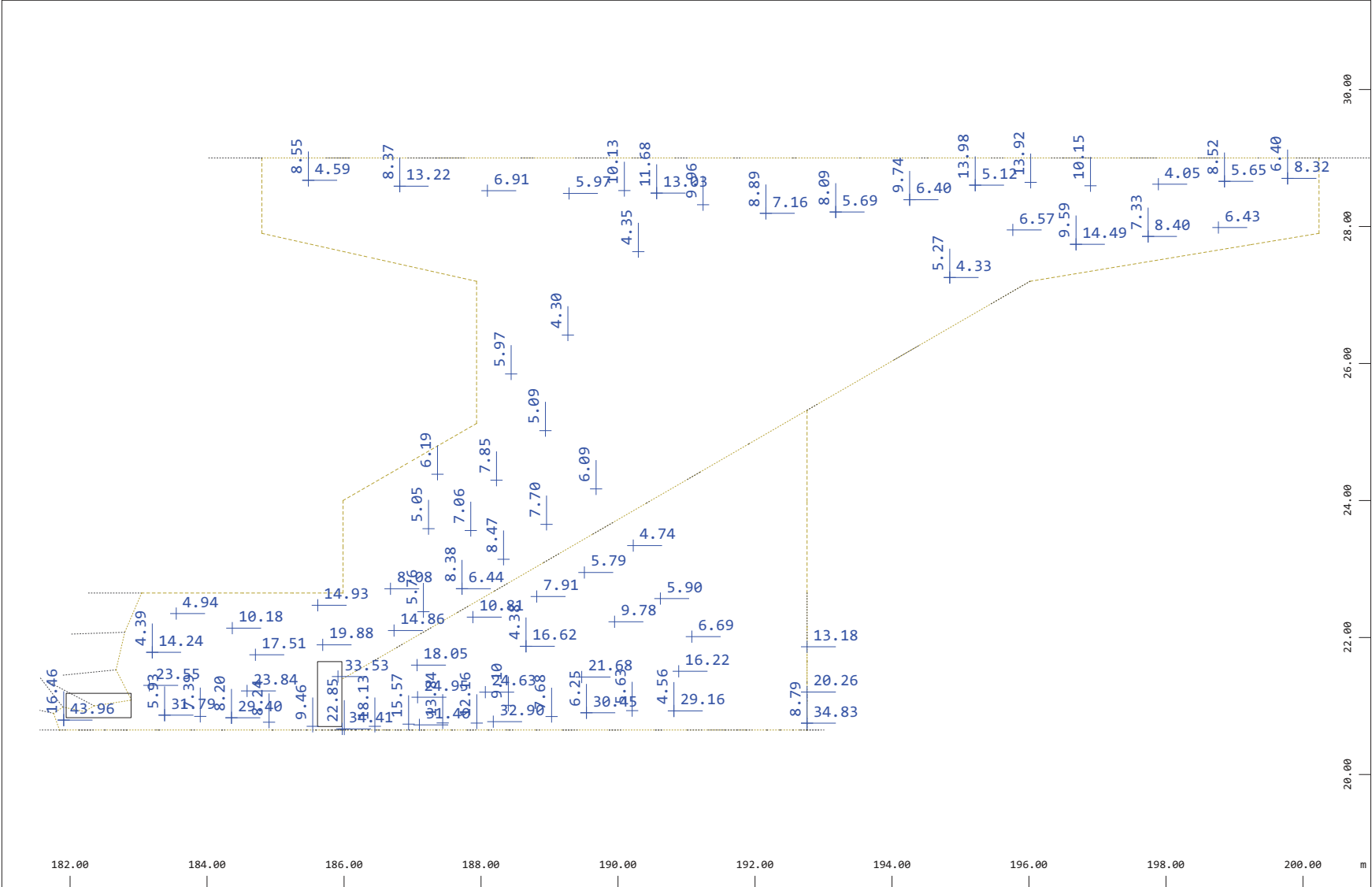


M 1 : 79

Sector of system Group 32
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 3.87 (Max=20.34)

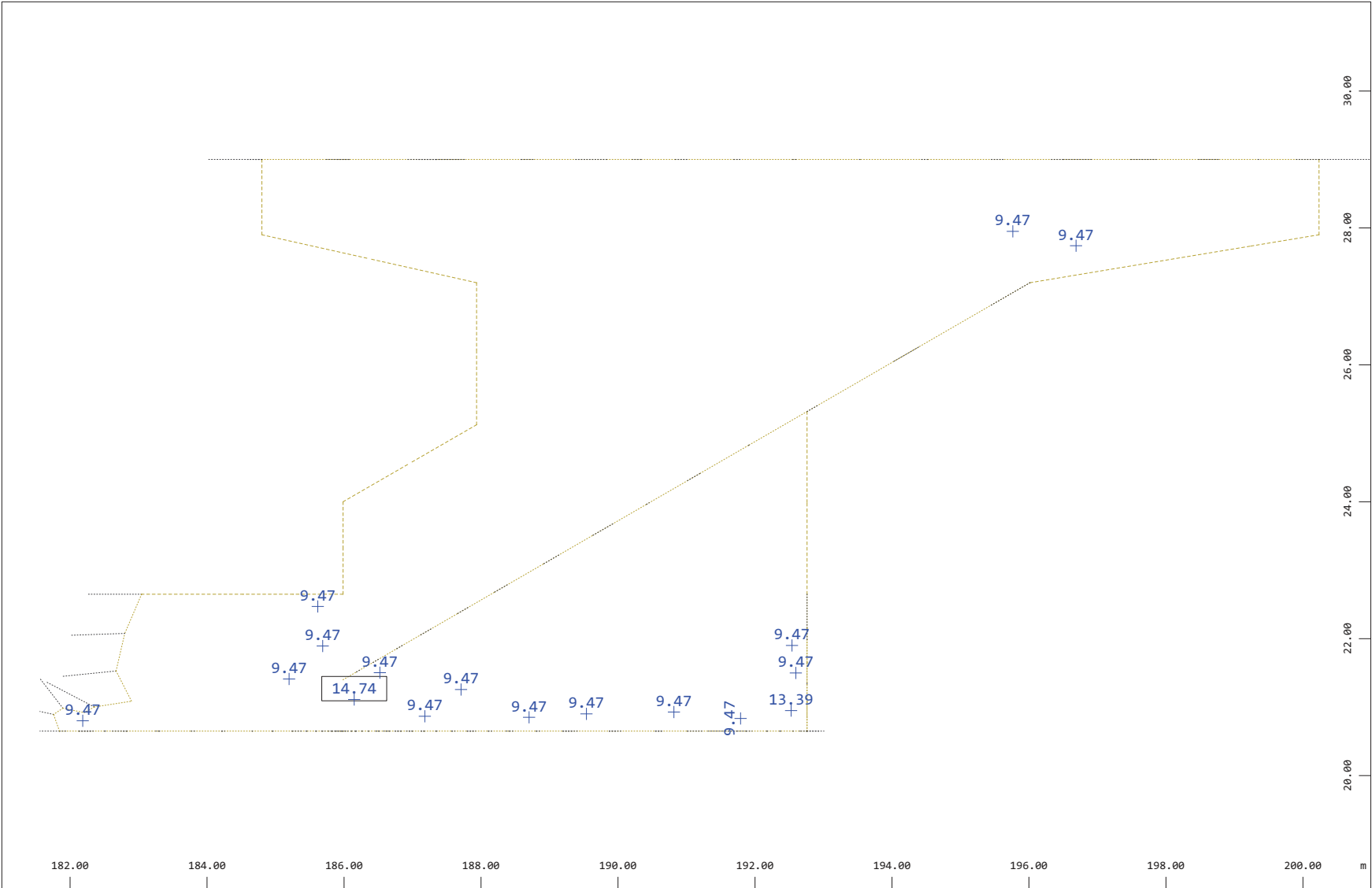
z
x
magnified from factor 0.0015





Sector of system Group 32
Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=43.96)

50000 nodes 100000 elements 100000000 bytes



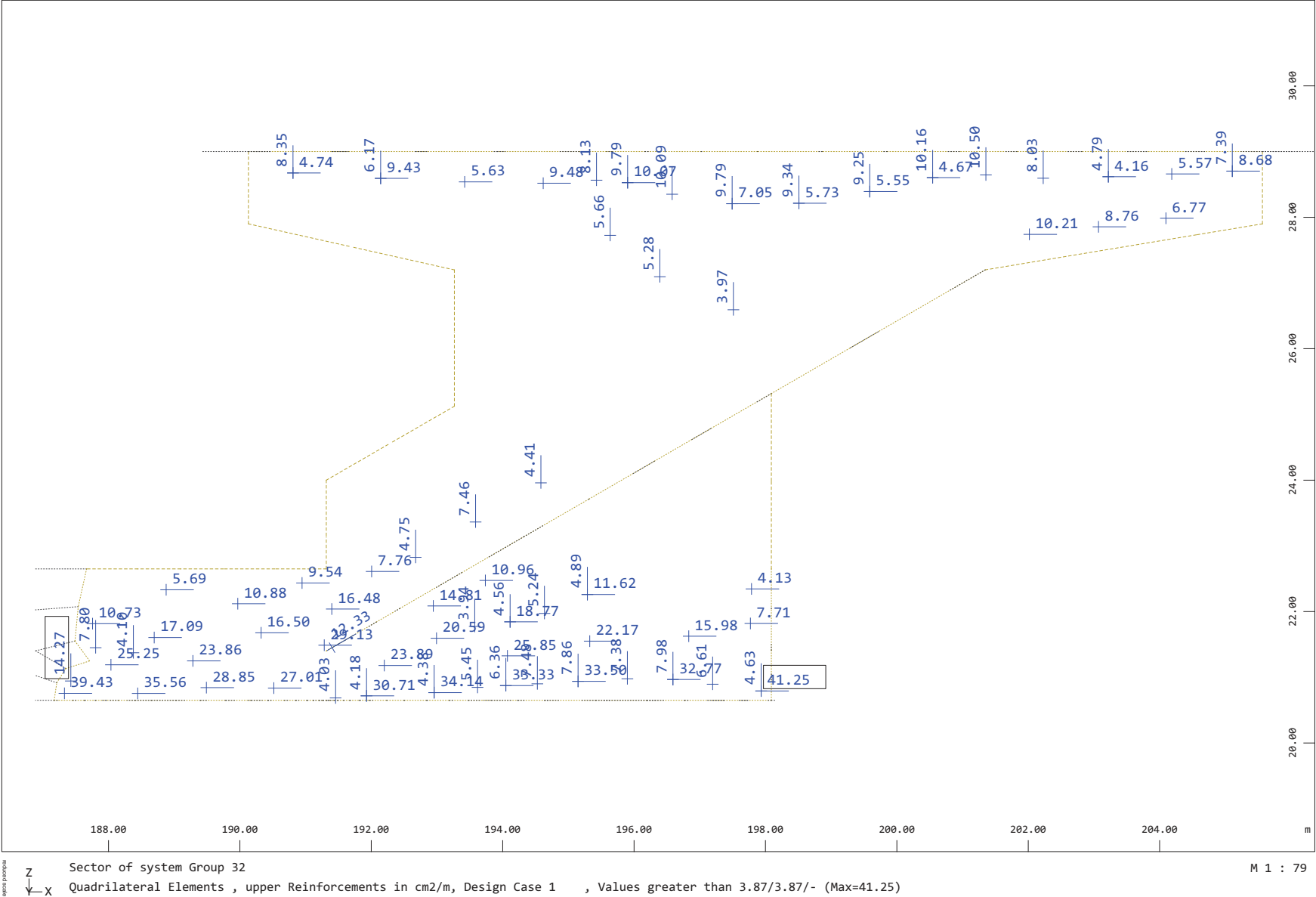
Sector of system Group 32
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 3.87 (Max=14.74)

z
x

182.00 184.00 186.00 188.00 190.00 192.00 194.00 196.00 198.00 200.00 m

M 1 : 79

min/max/average factor 0.00/5



M 1 : 79

Sector of system Group 32

Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=41.25)

z
x
y

Sector of system Group 32

Quadrilateral Elements, lower Reinforcements in cm²/m, Design Case 1, Values greater than 3.87/3.87/- (Max=41.31)

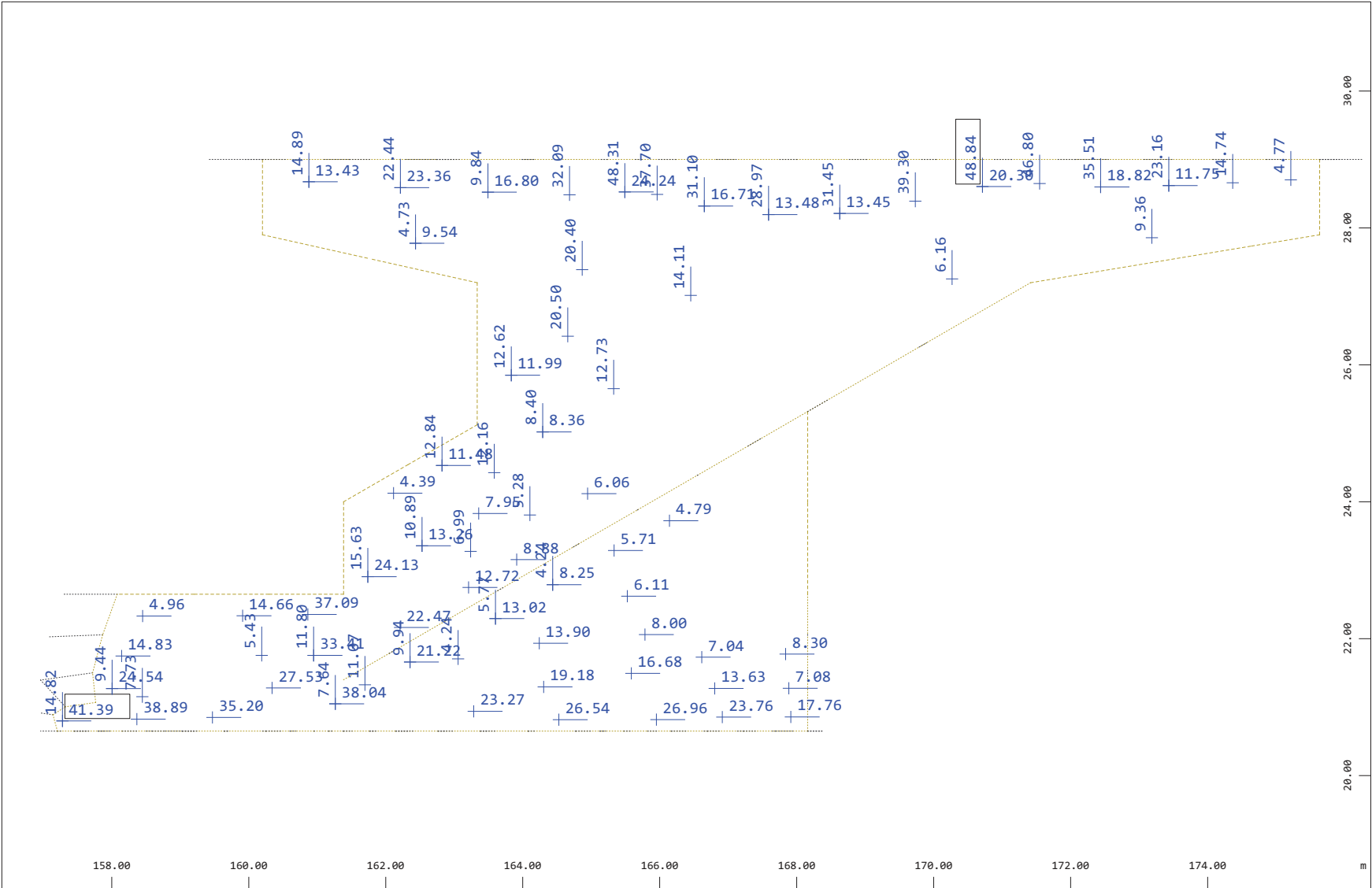
2010-01-01 2010-01-01

M 1 : 79

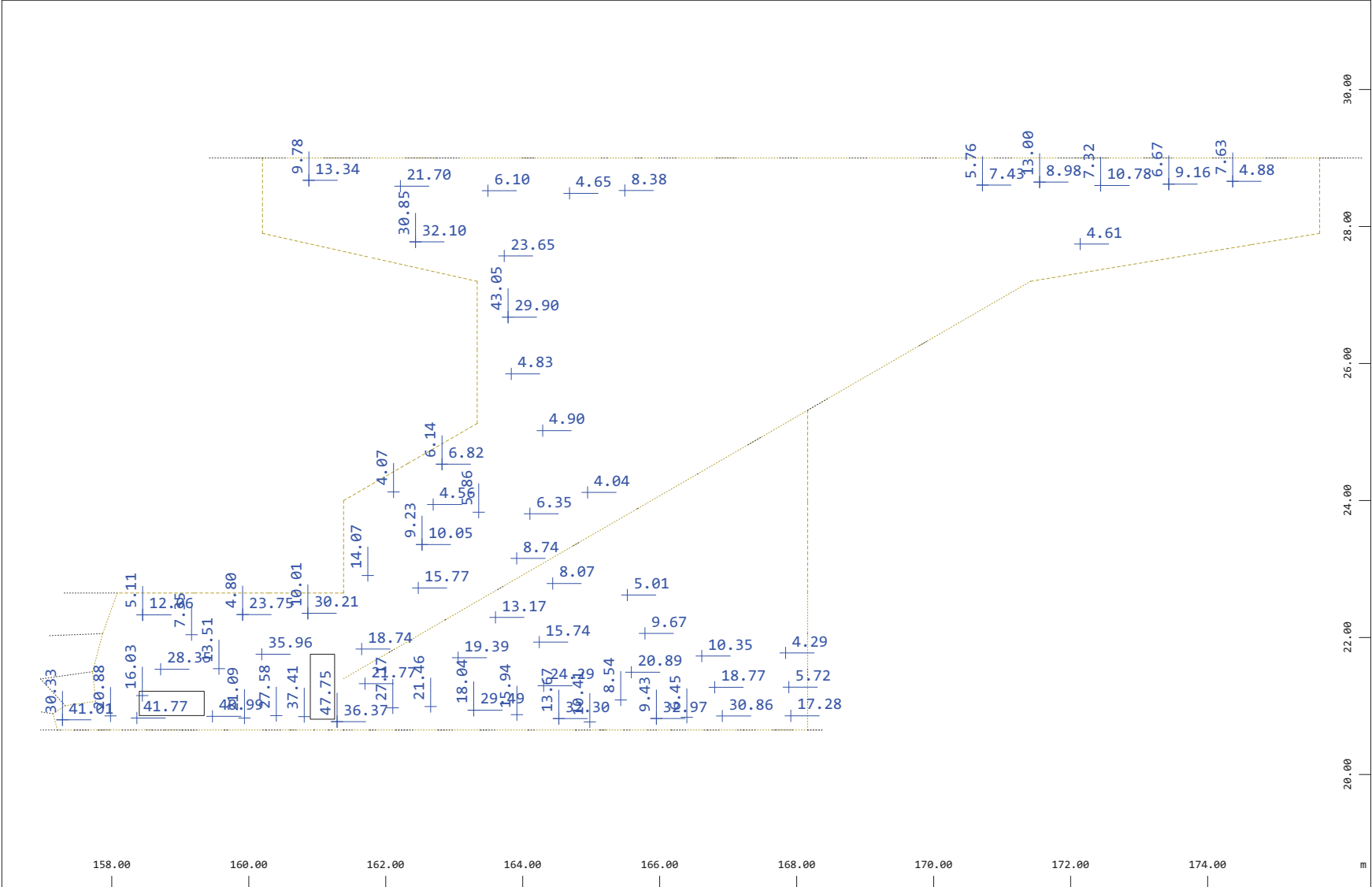


Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=37.49)

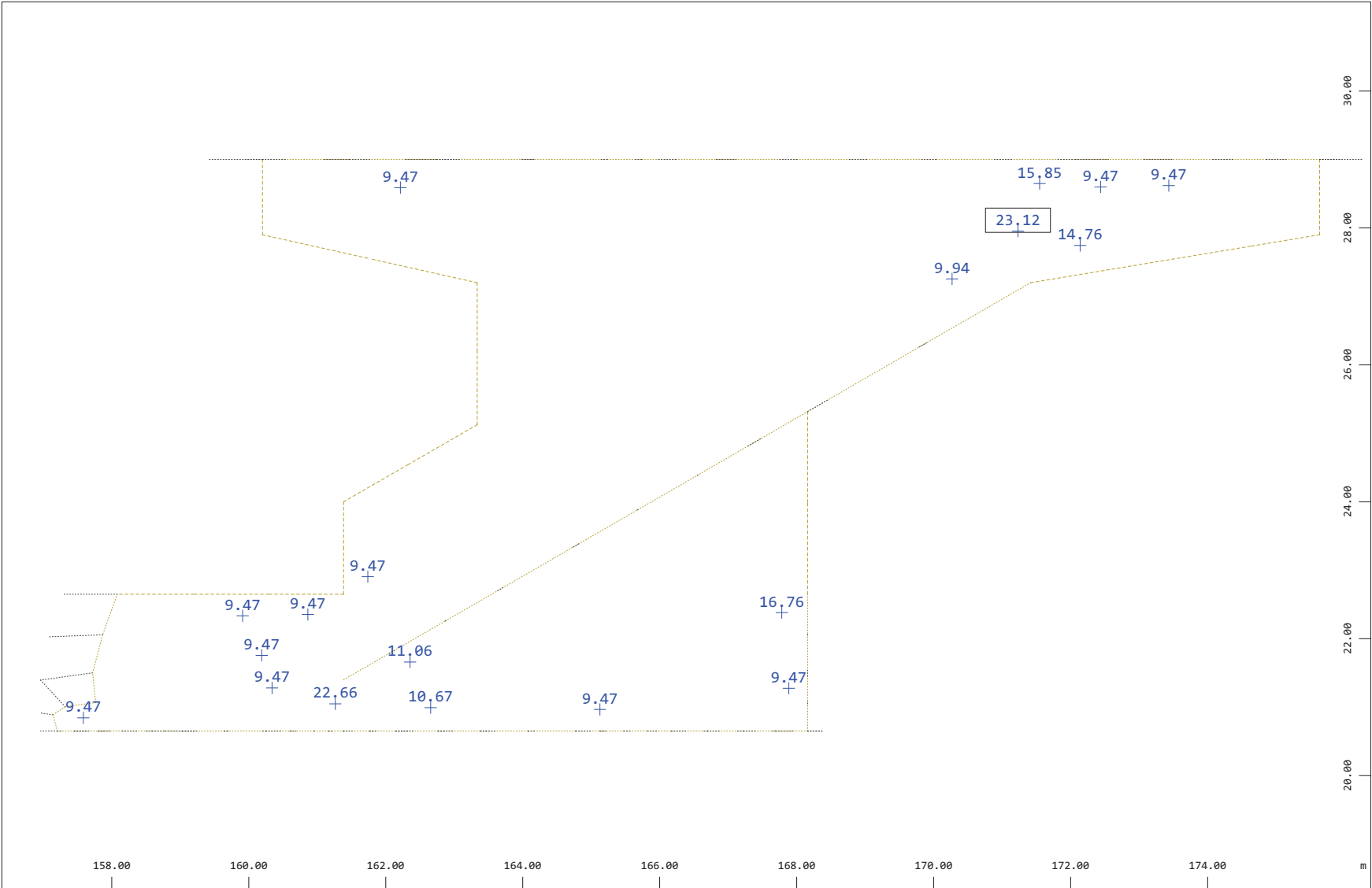




Sector of system Group 74
Quadrilateral Elements, upper Reinforcements in cm²/m, Design Case 1, Values greater than 3.87/3.87/- (Max=48.84)
M 1 : 79

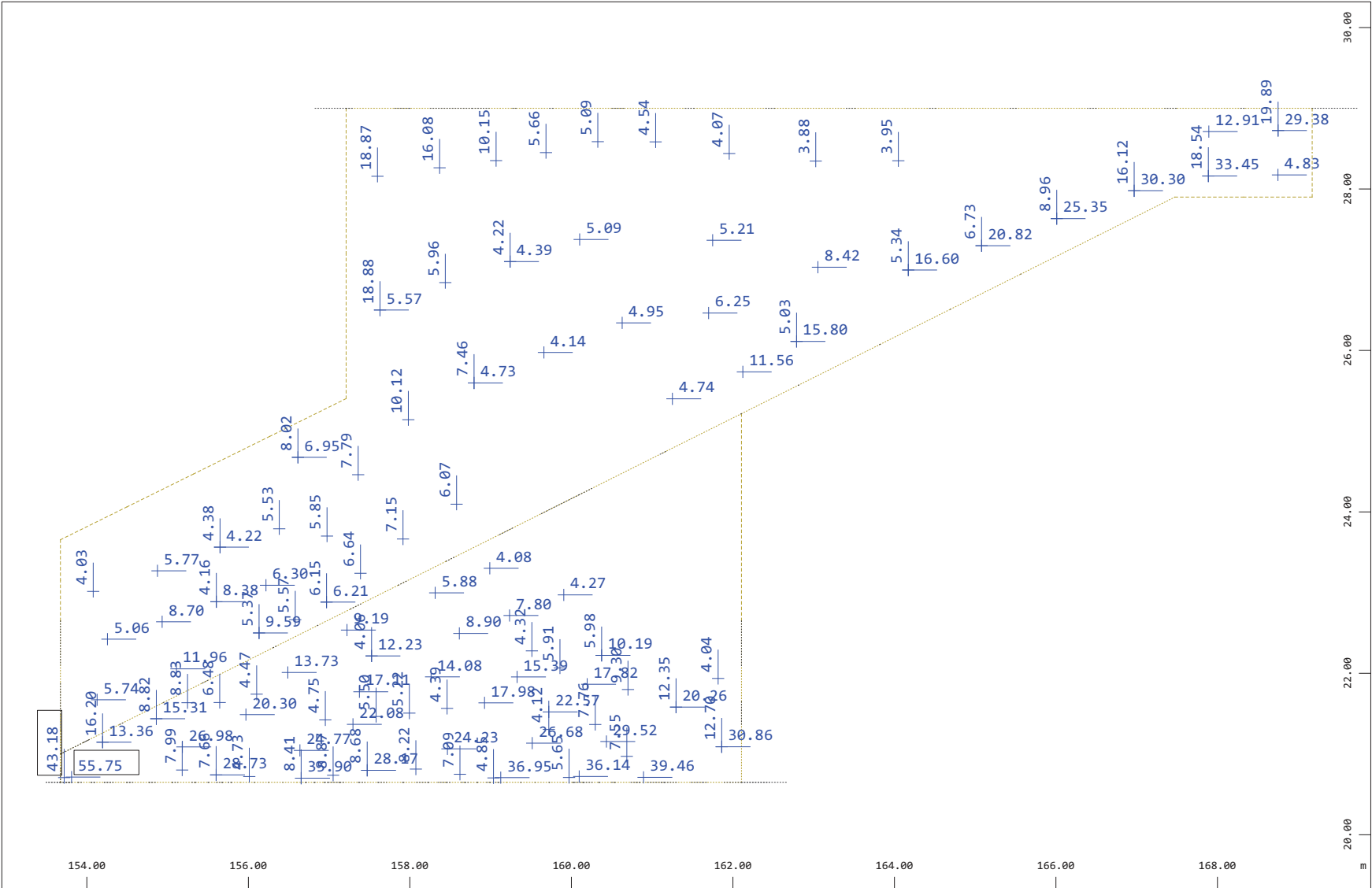


Sector of system Group 74
Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=47.75)
M 1 : 79



Sector of system Group 74
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 3.87 (Max=23.12)

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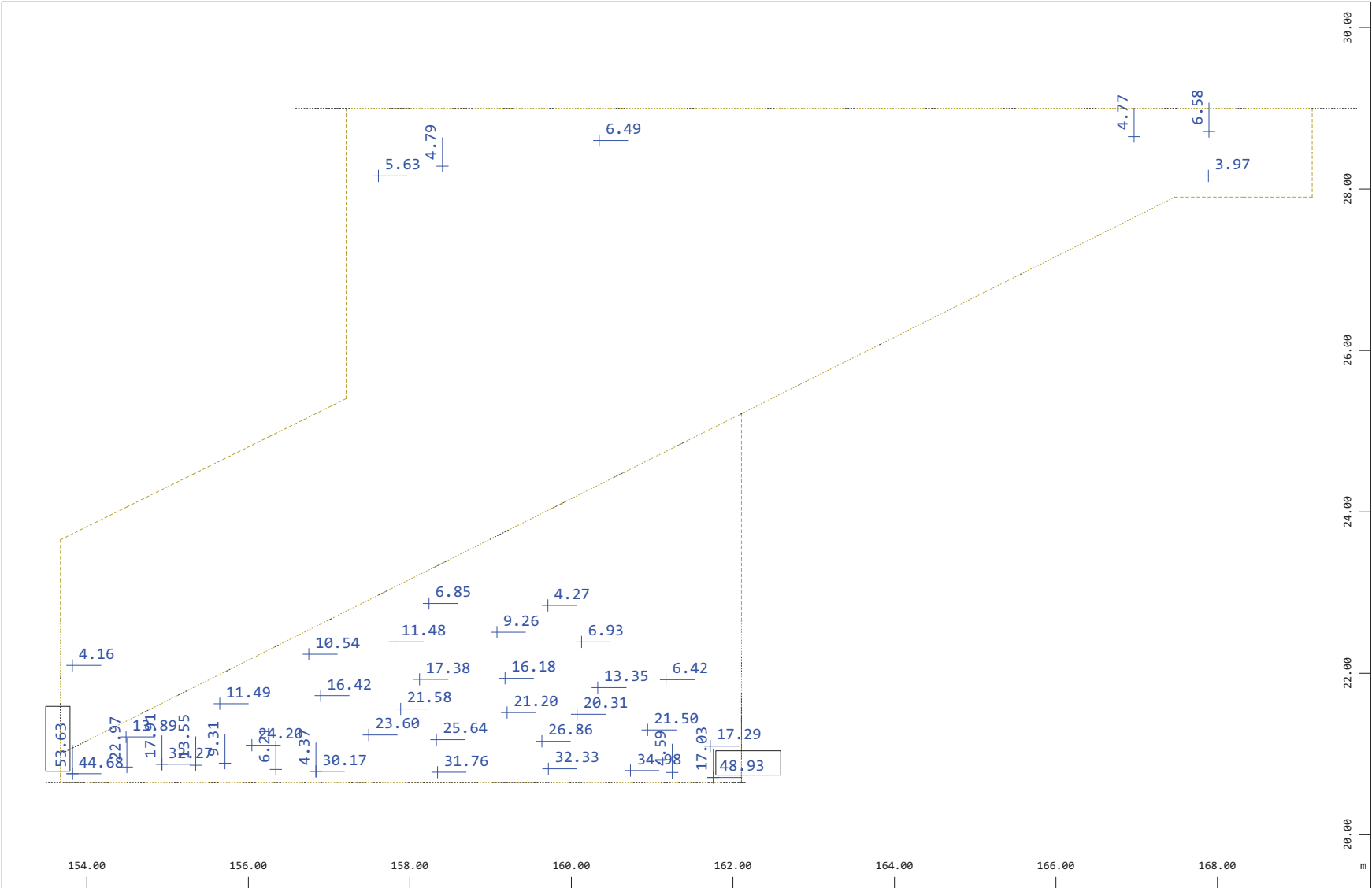
M 1 : 67

Sector of system Group 74
Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=55.75)

z
x
y



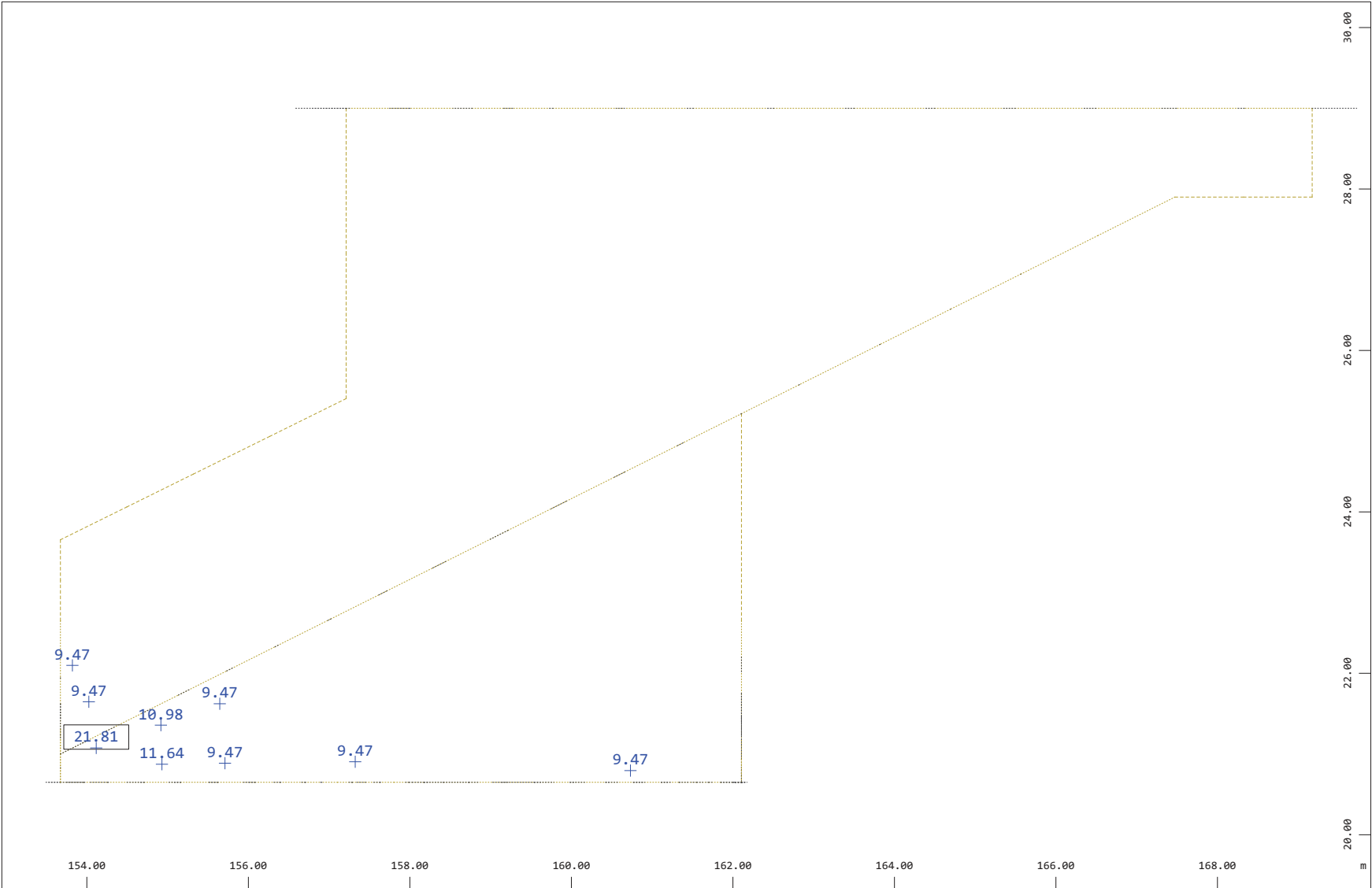




Sector of system Group 74
Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 3.87/3.87/- (Max=53.63)

M 1 : 67



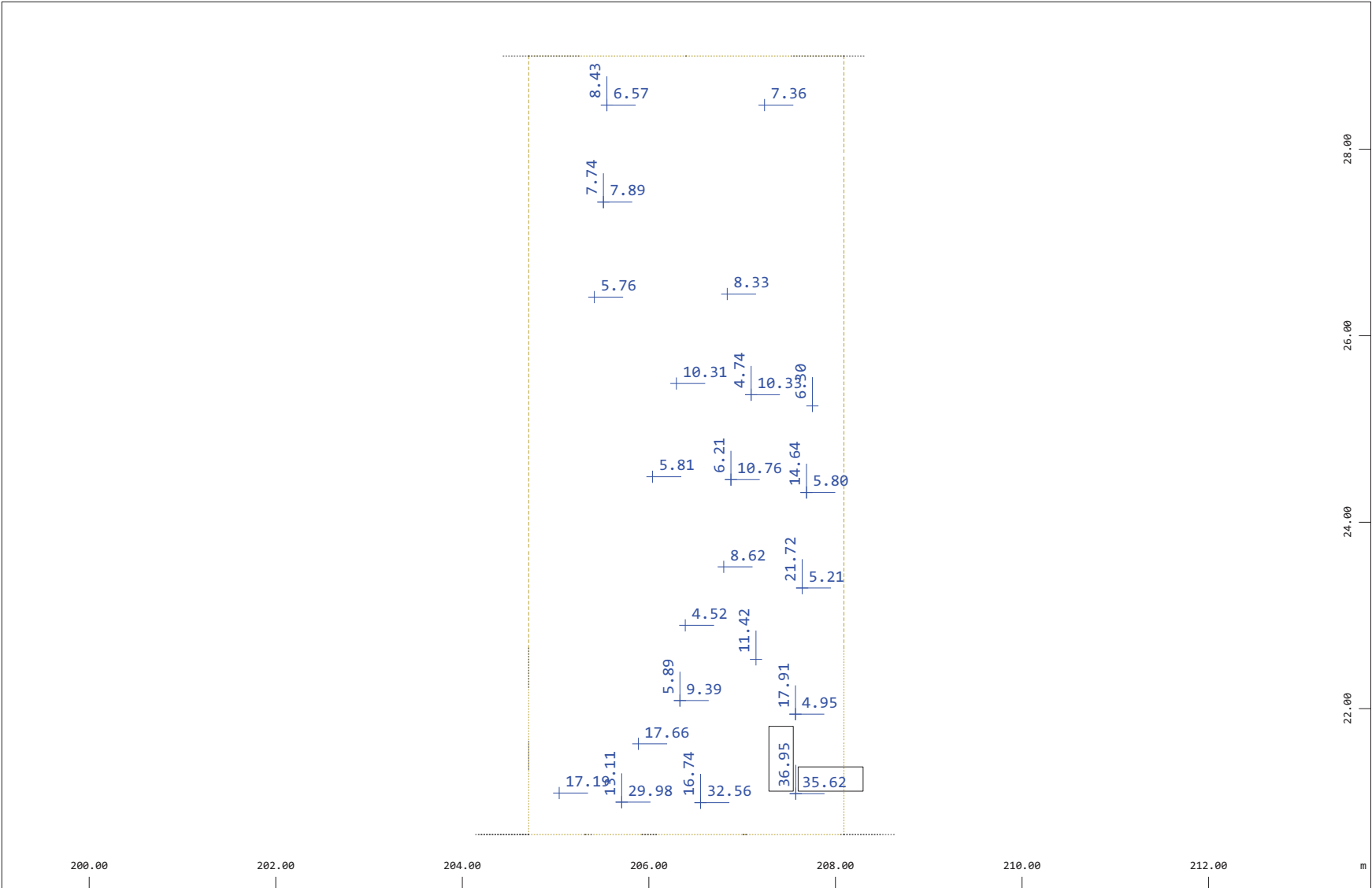


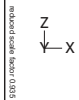
Sector of system Group 74
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 3.87 (Max=21.81)

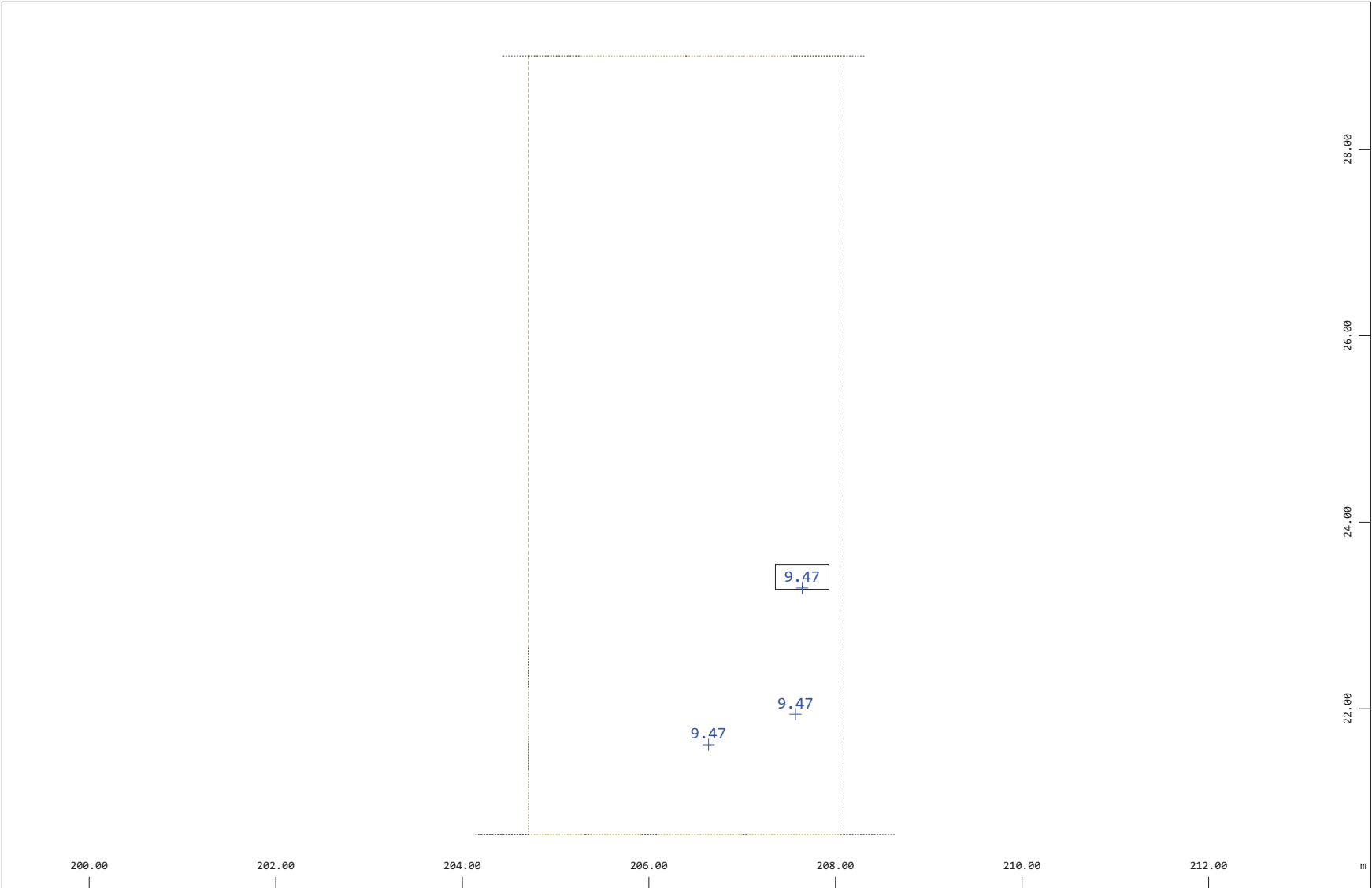
z
x

minimized: 10/09/2023 09:05

M 1 : 67







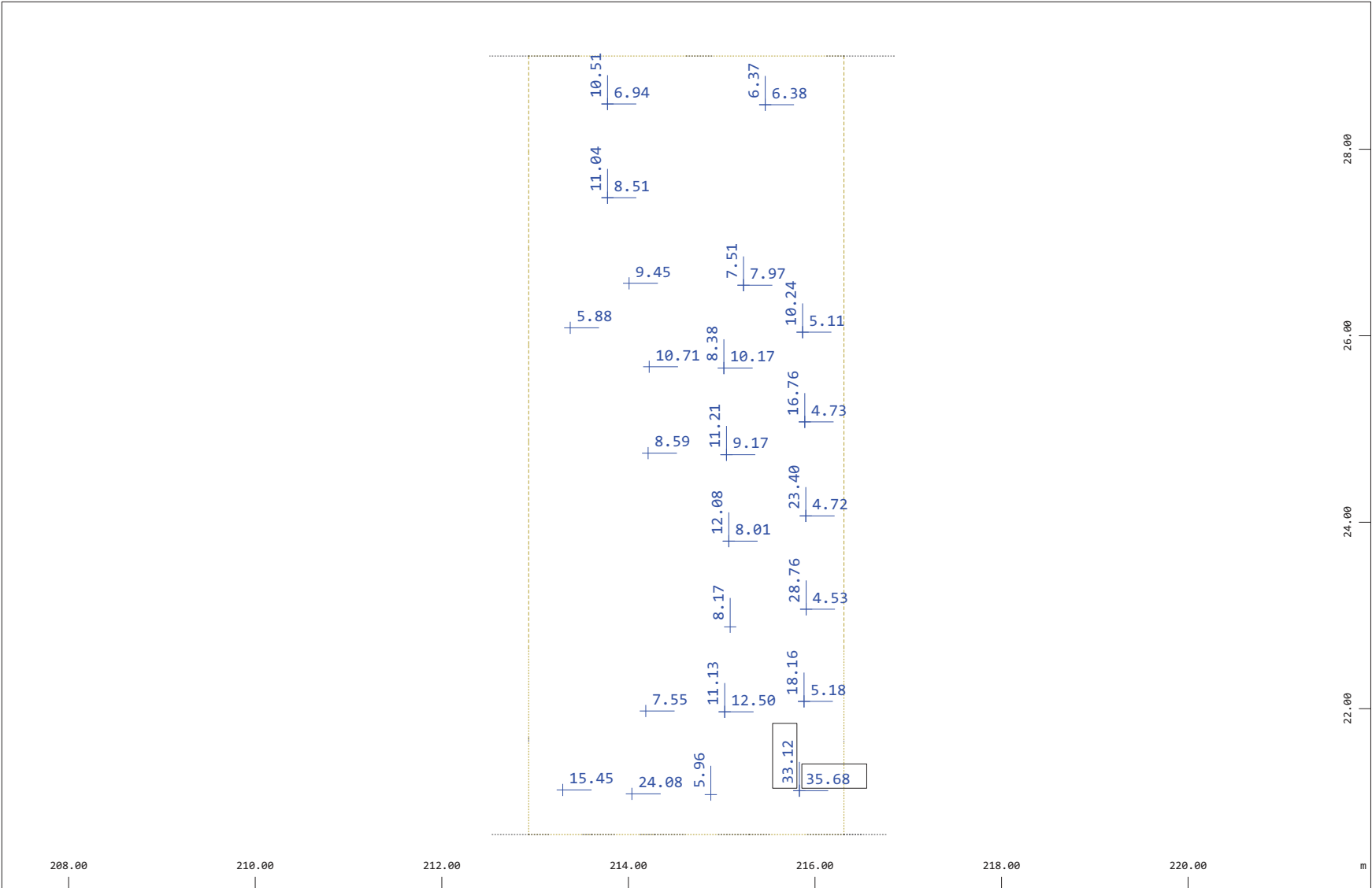
M 1 : 58

Sector of system Group 33
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.47)

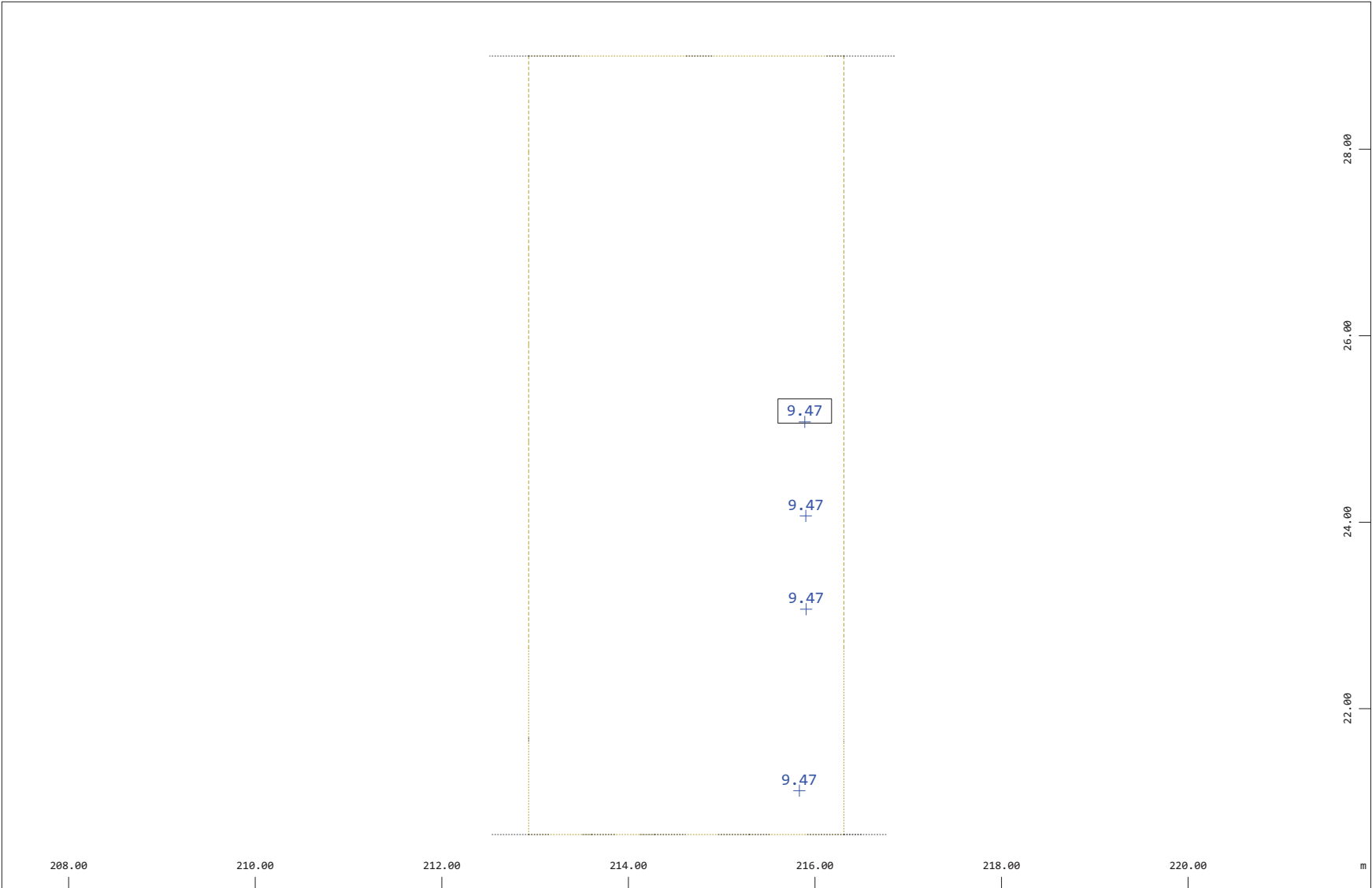
z
x
magnified from factor 0.0015



M 1 : 58



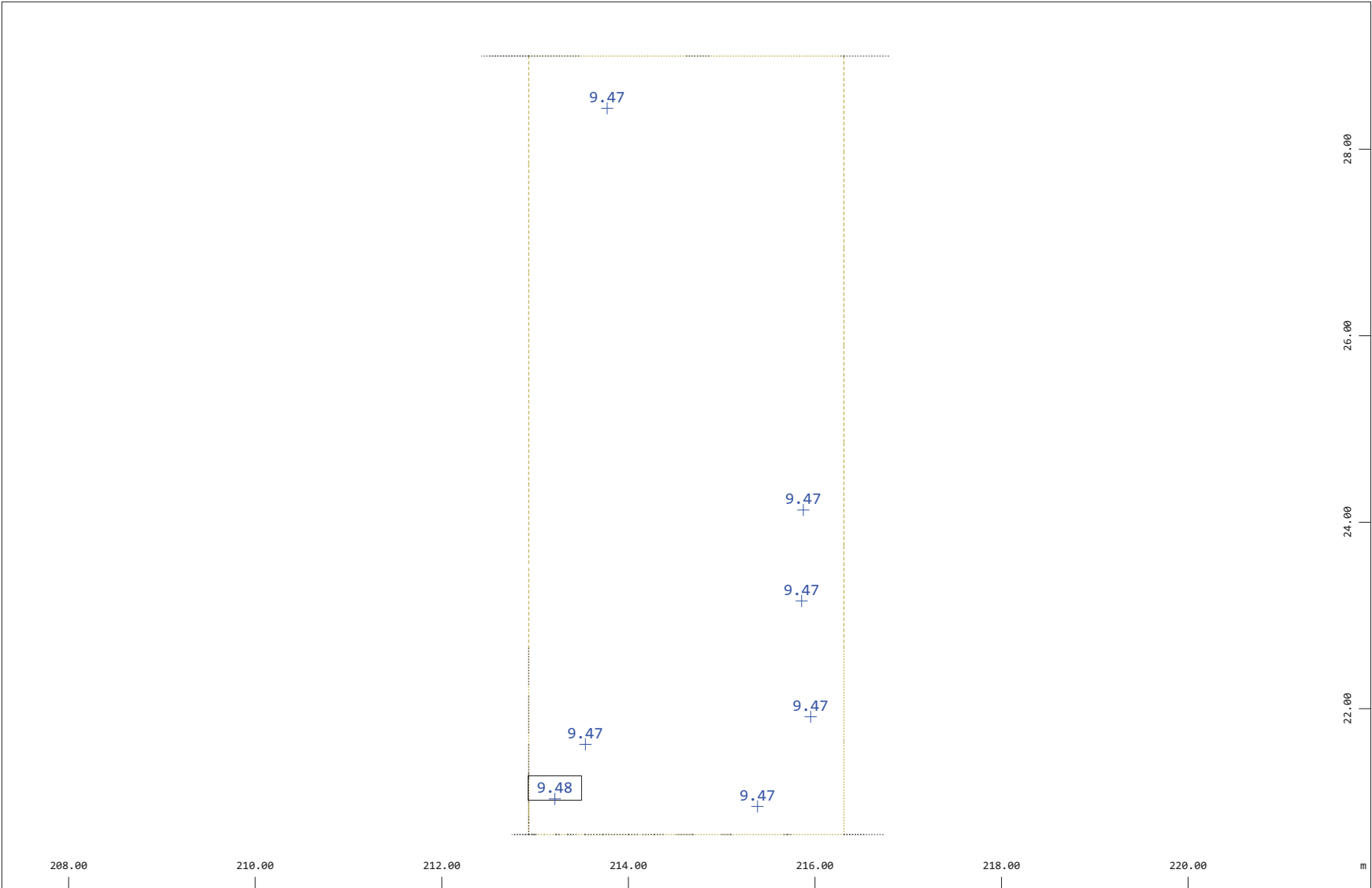
Sector of system Group 33
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=35.68)
M 1 : 58



Sector of system Group 33
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.47)





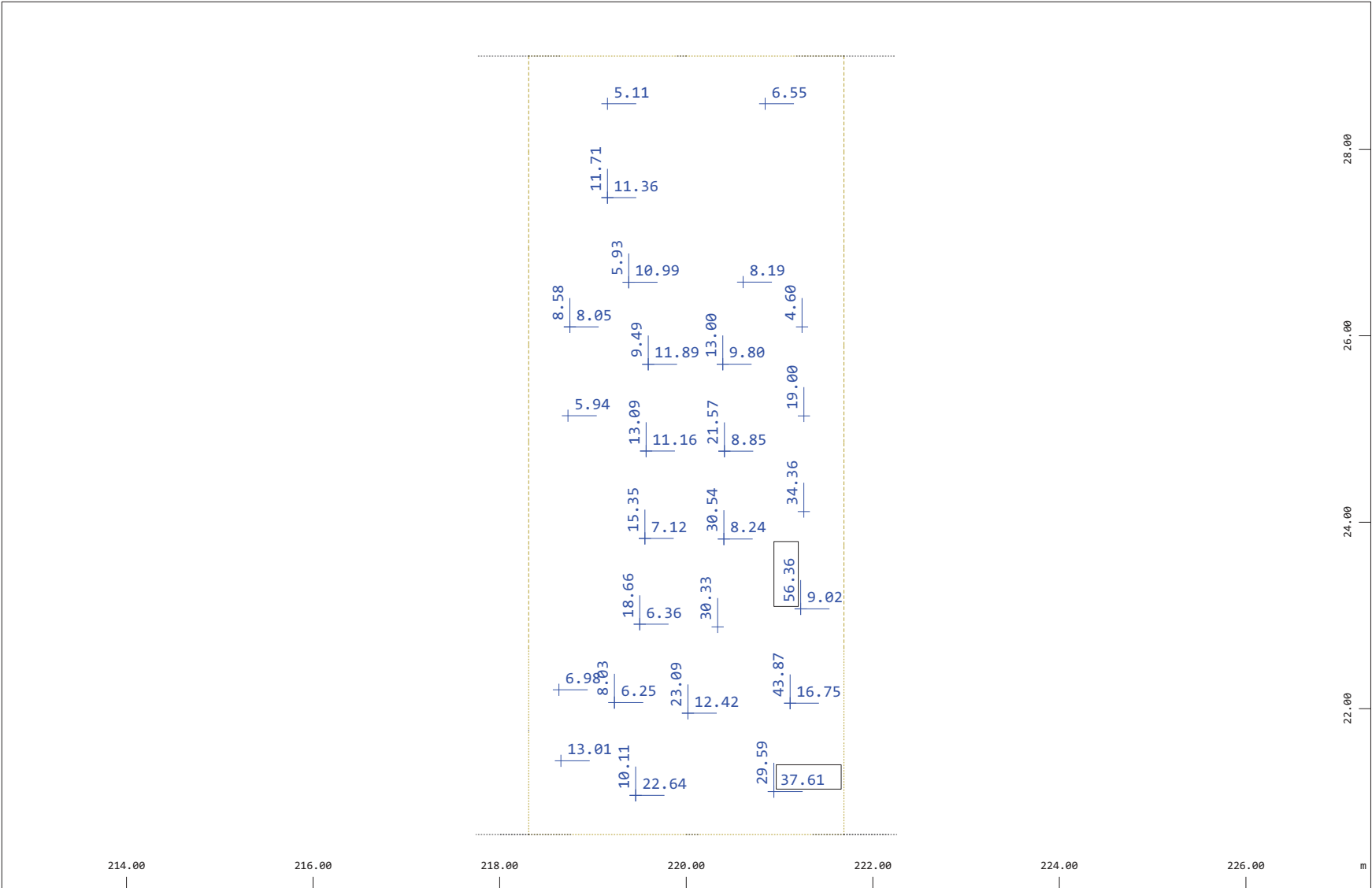


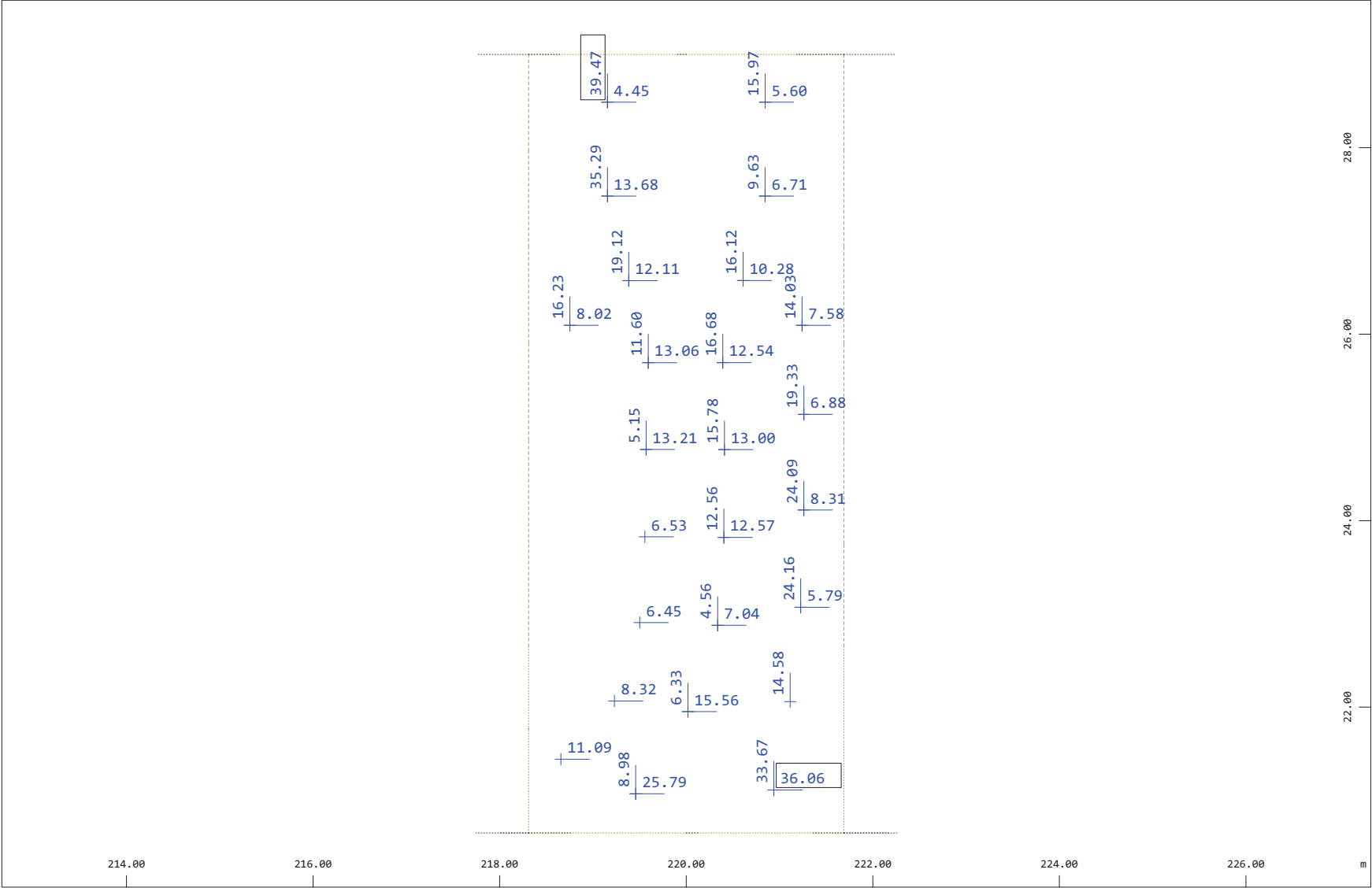
Sector of system Group 33
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.48)

z
x

mispost from Sector 0.0015

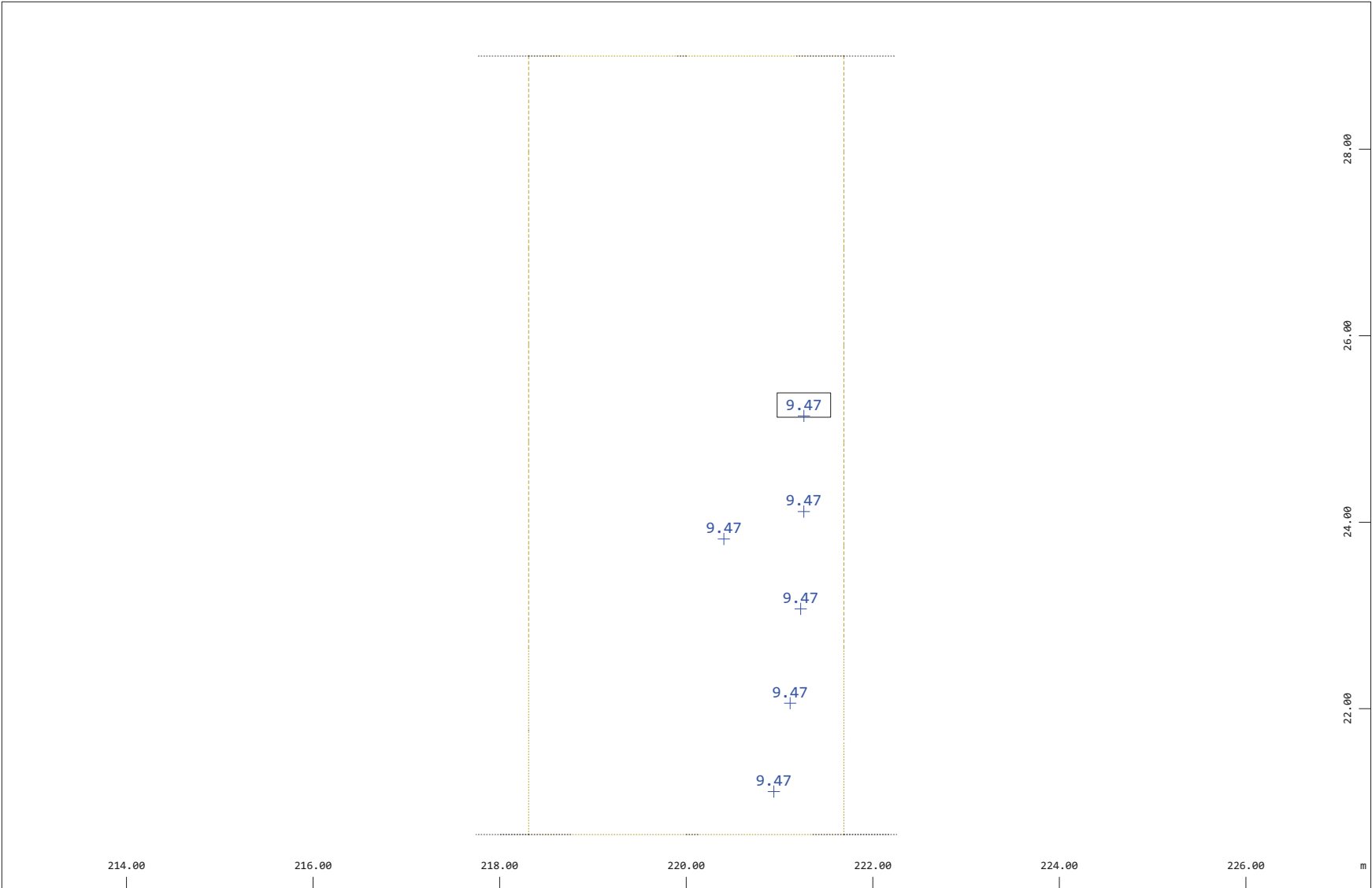
M 1 : 58





Sector of system Group 33
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=39.47)

M 1 : 58



Sector of system Group 33
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.47)

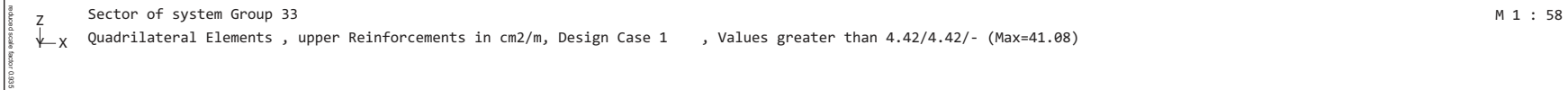
M 1 : 58

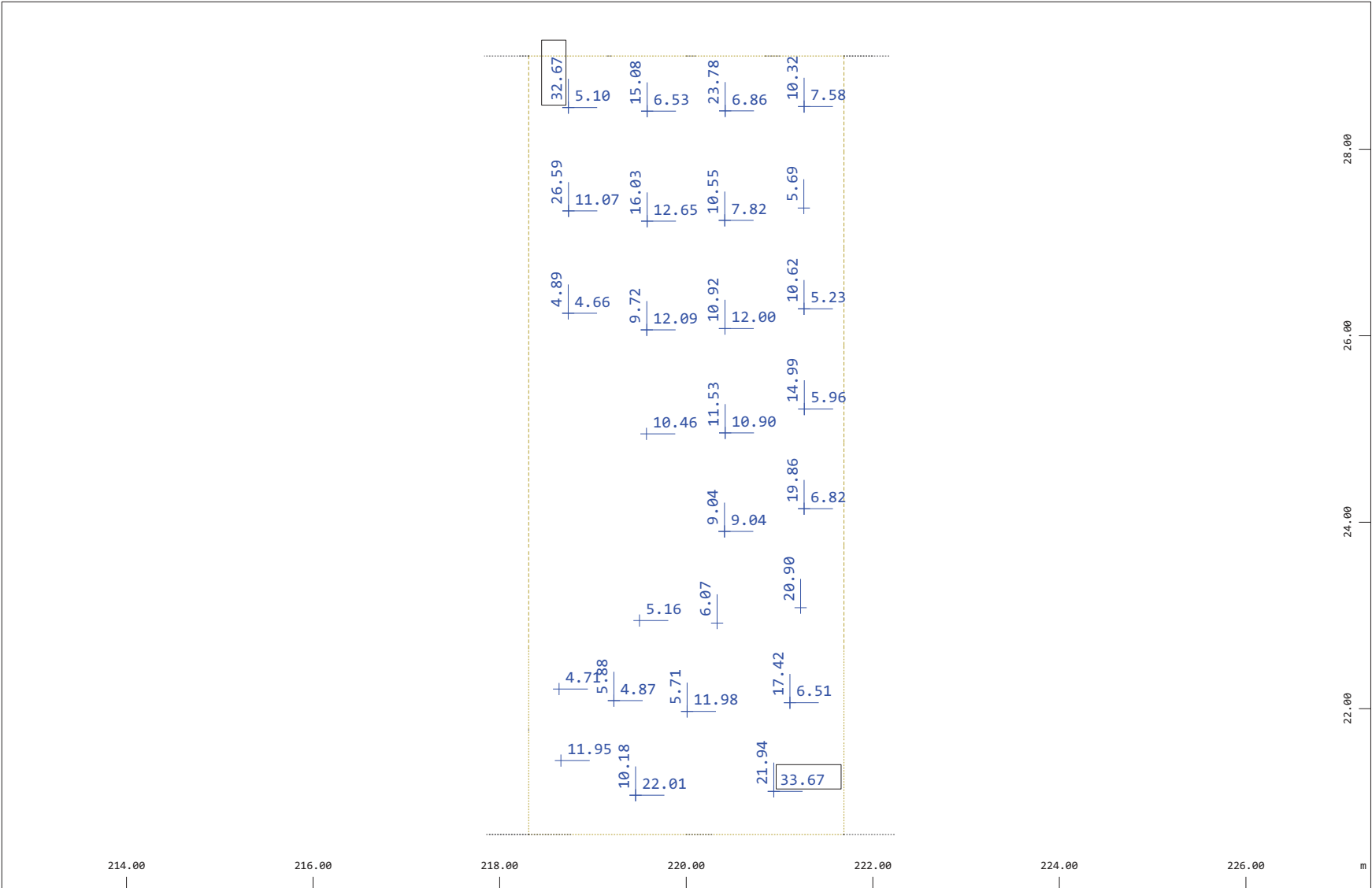
z
x

mispost from Sector 0.003

Geometry definition

Quad rc schemes

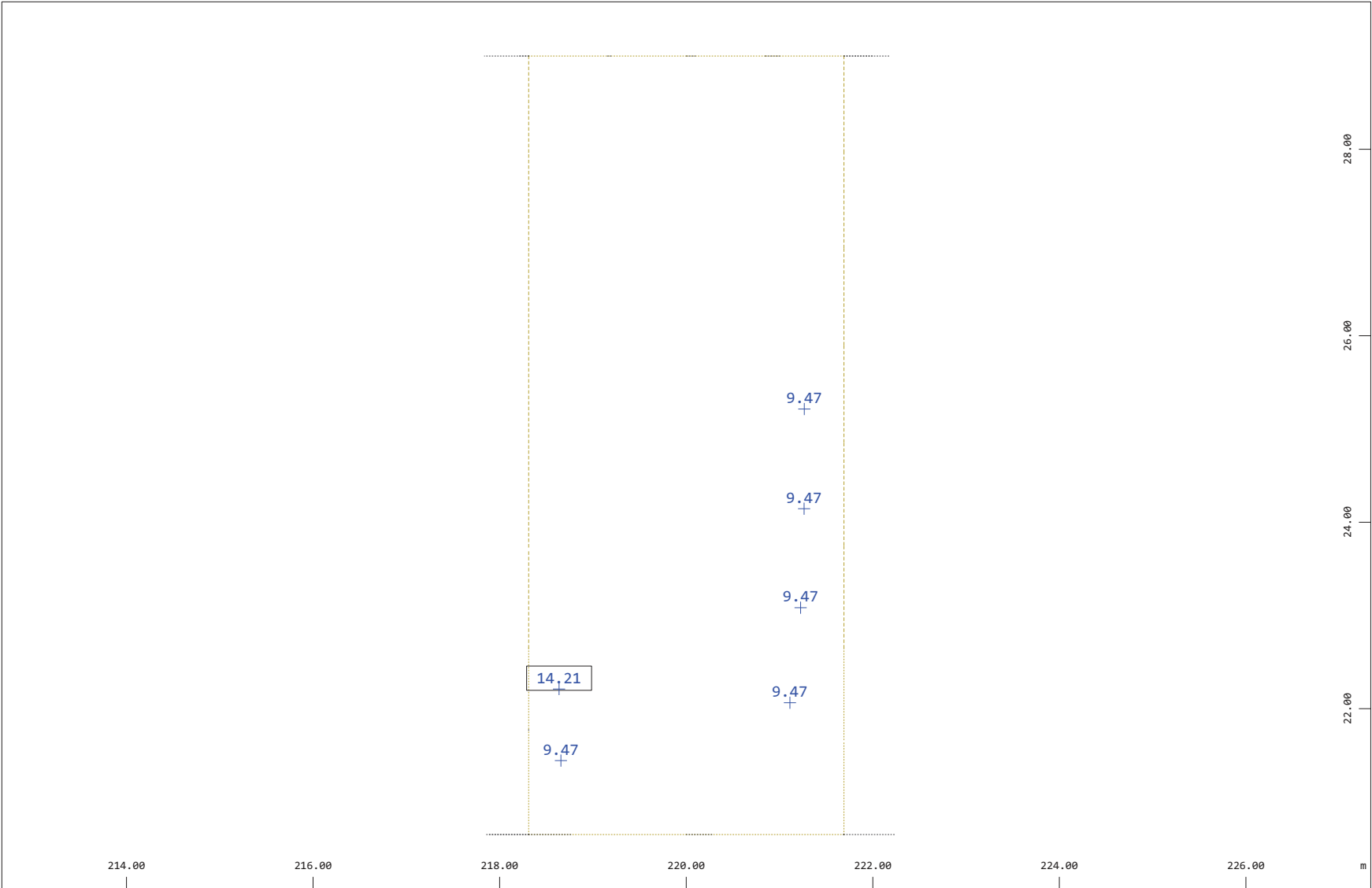


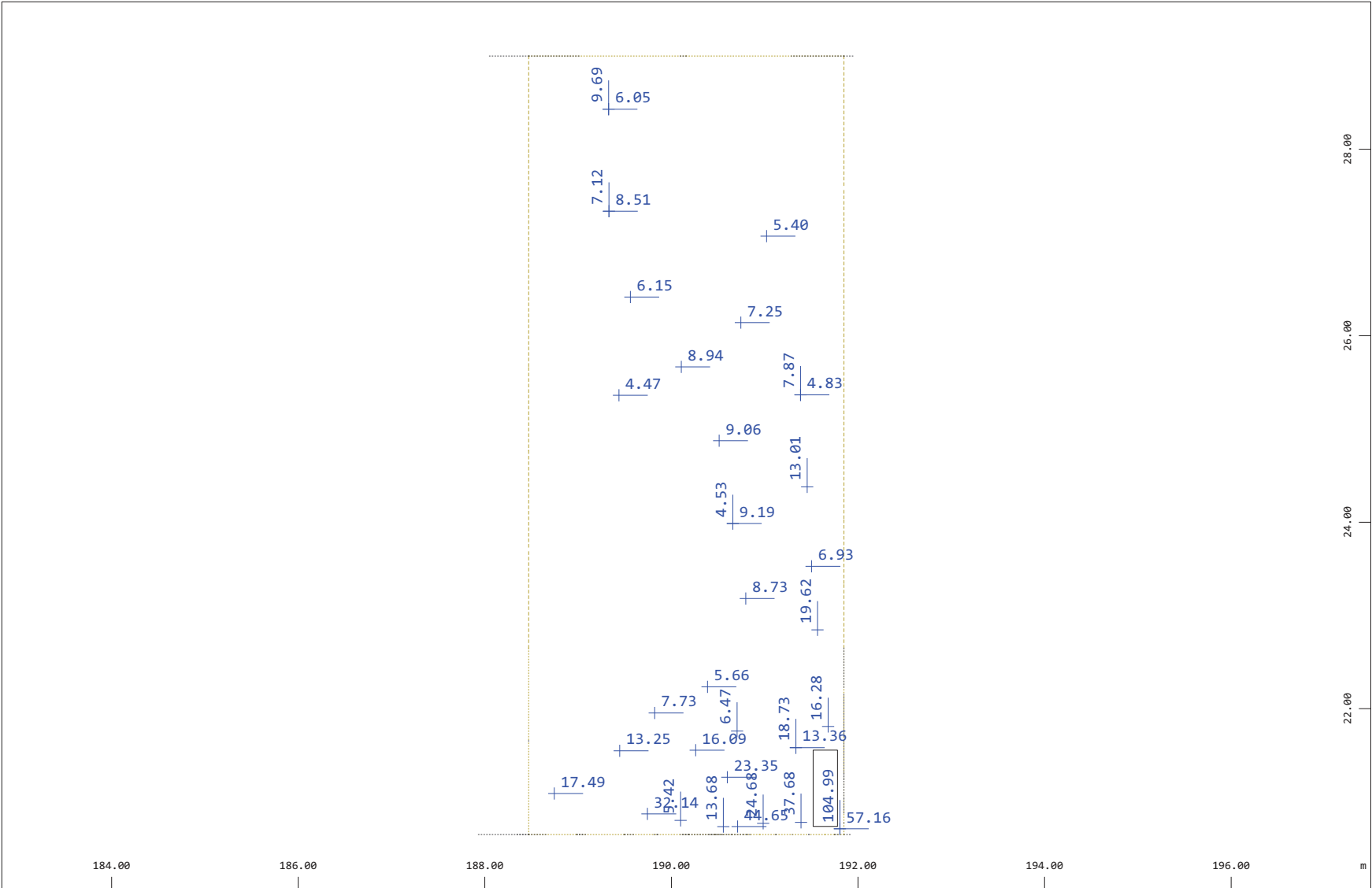


M 1 : 58

Sector of system Group 33
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=33.67)

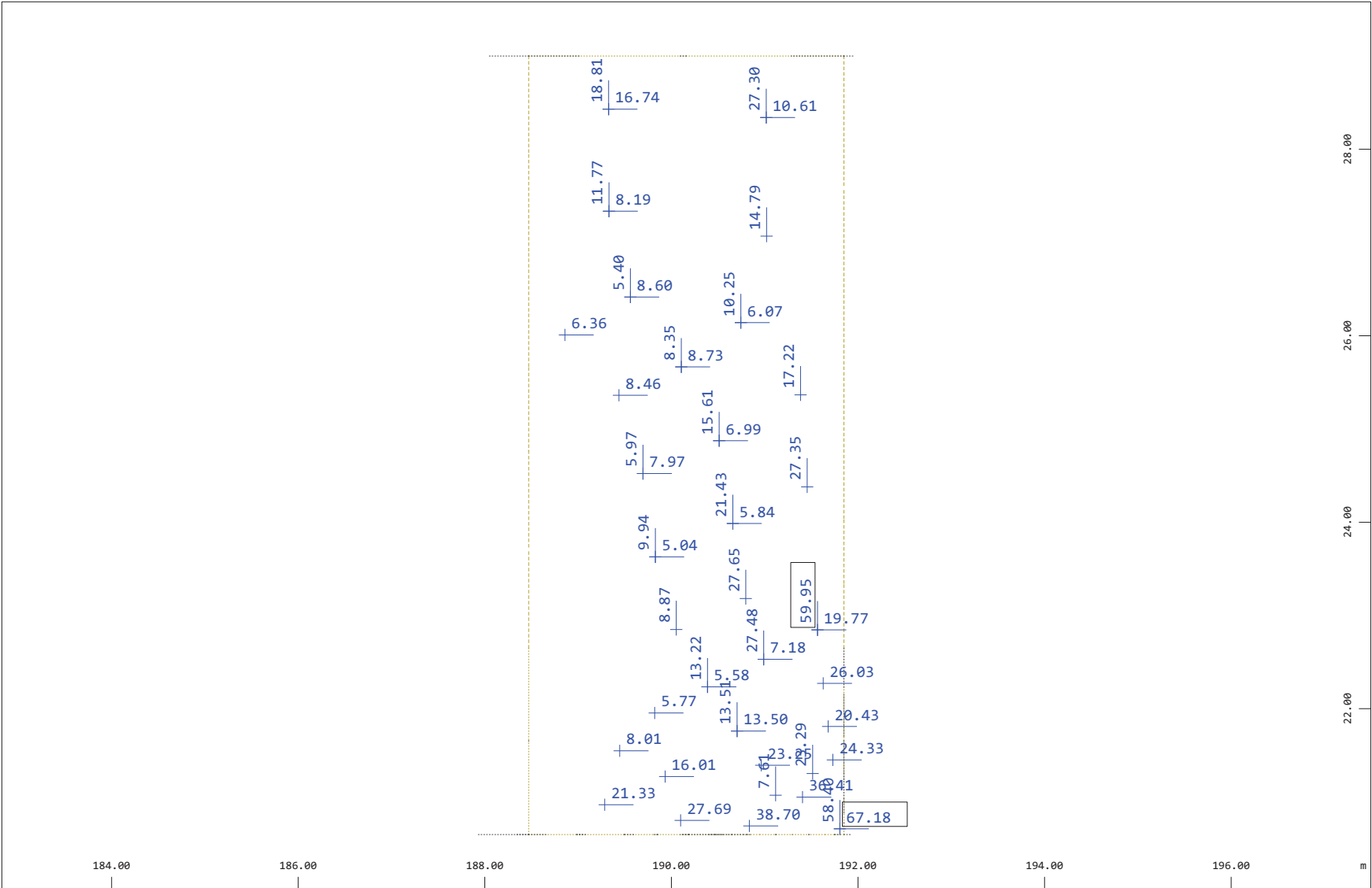
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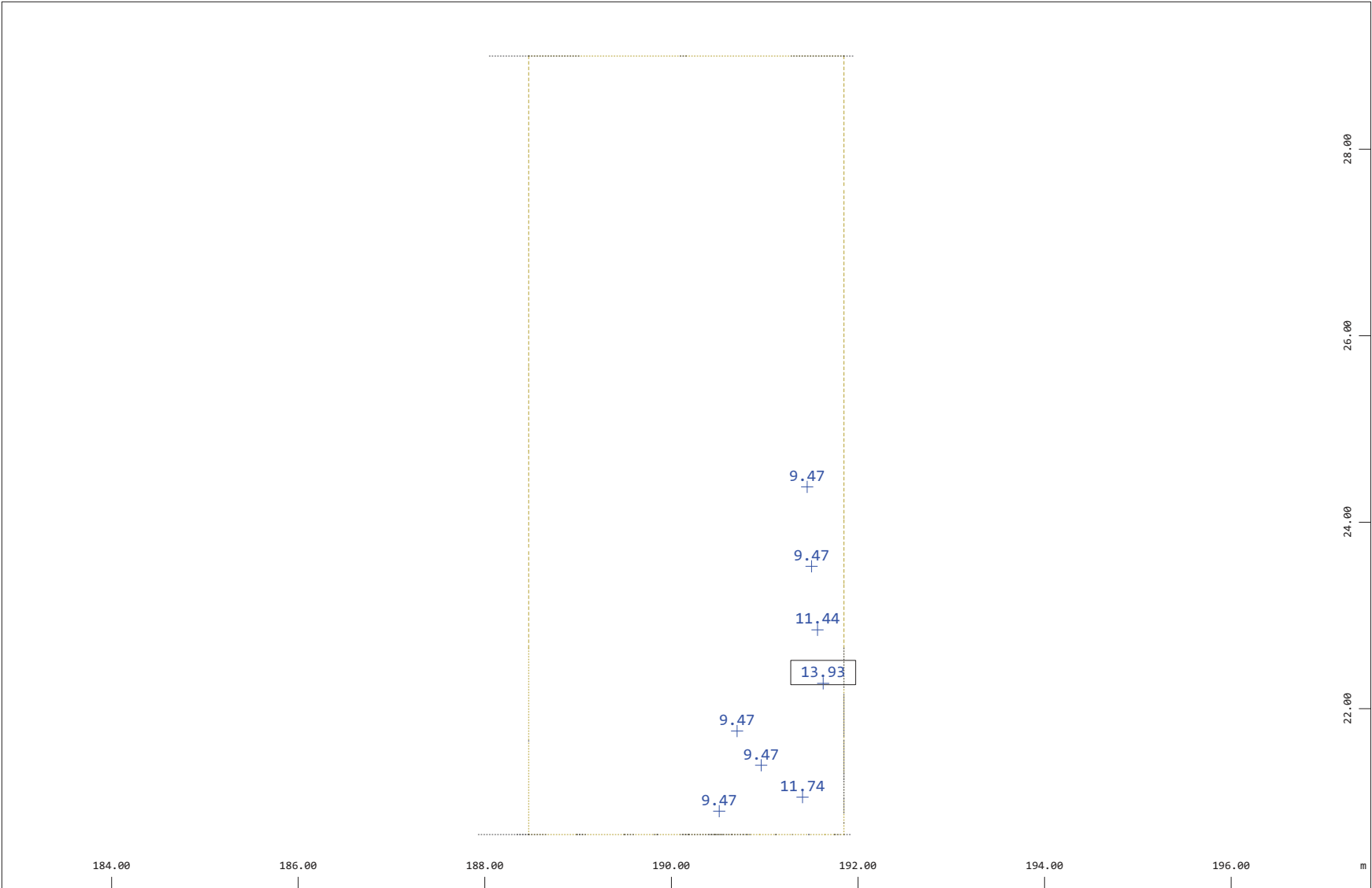


Sector of system Group 62
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=104.99)

M 1 : 58

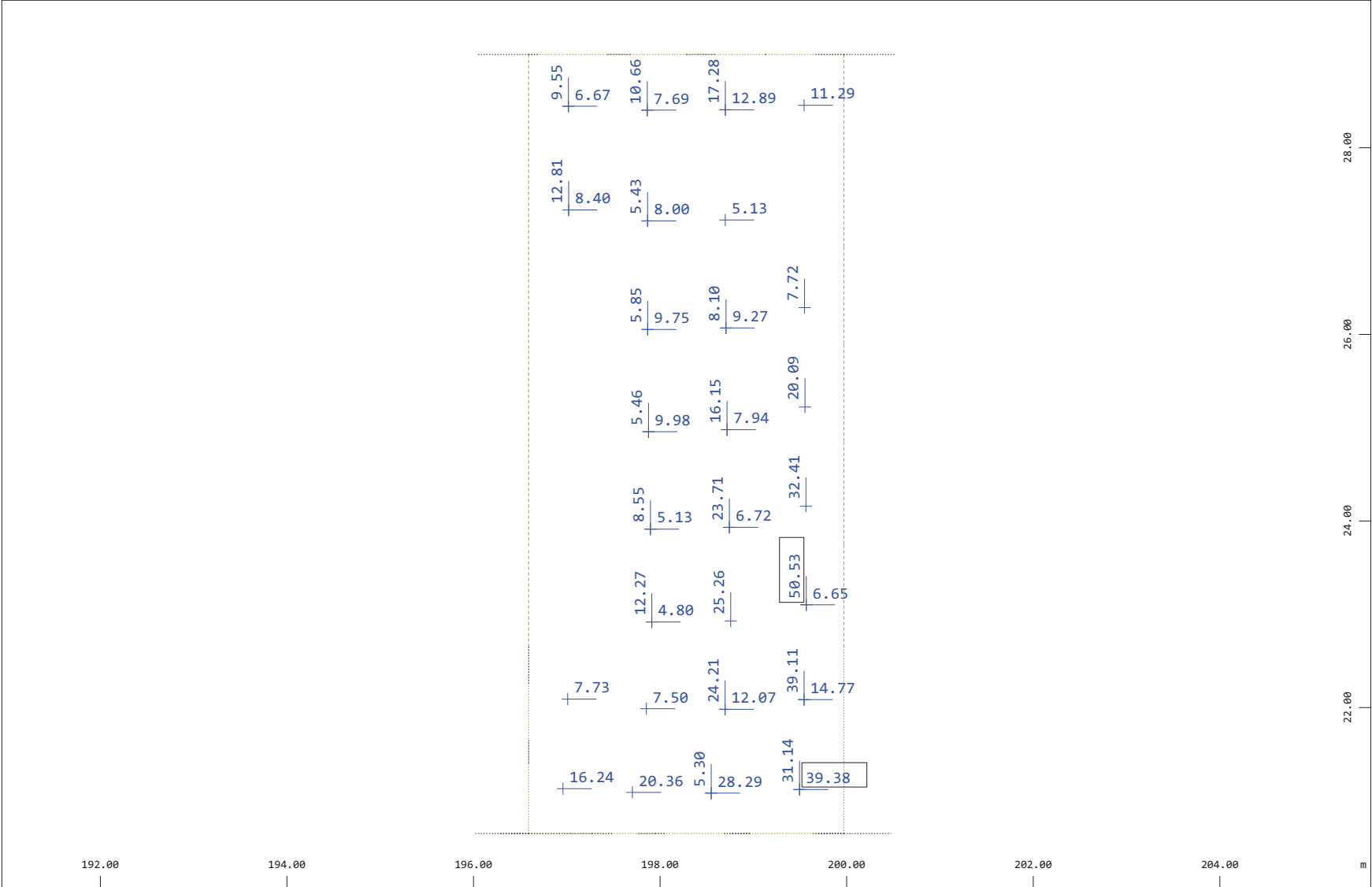


Sector of system Group 62
Quadrilateral Elements, lower Reinforcements in cm2/m, Design Case 1, Values greater than 4.42/4.42/- (Max=67.18)



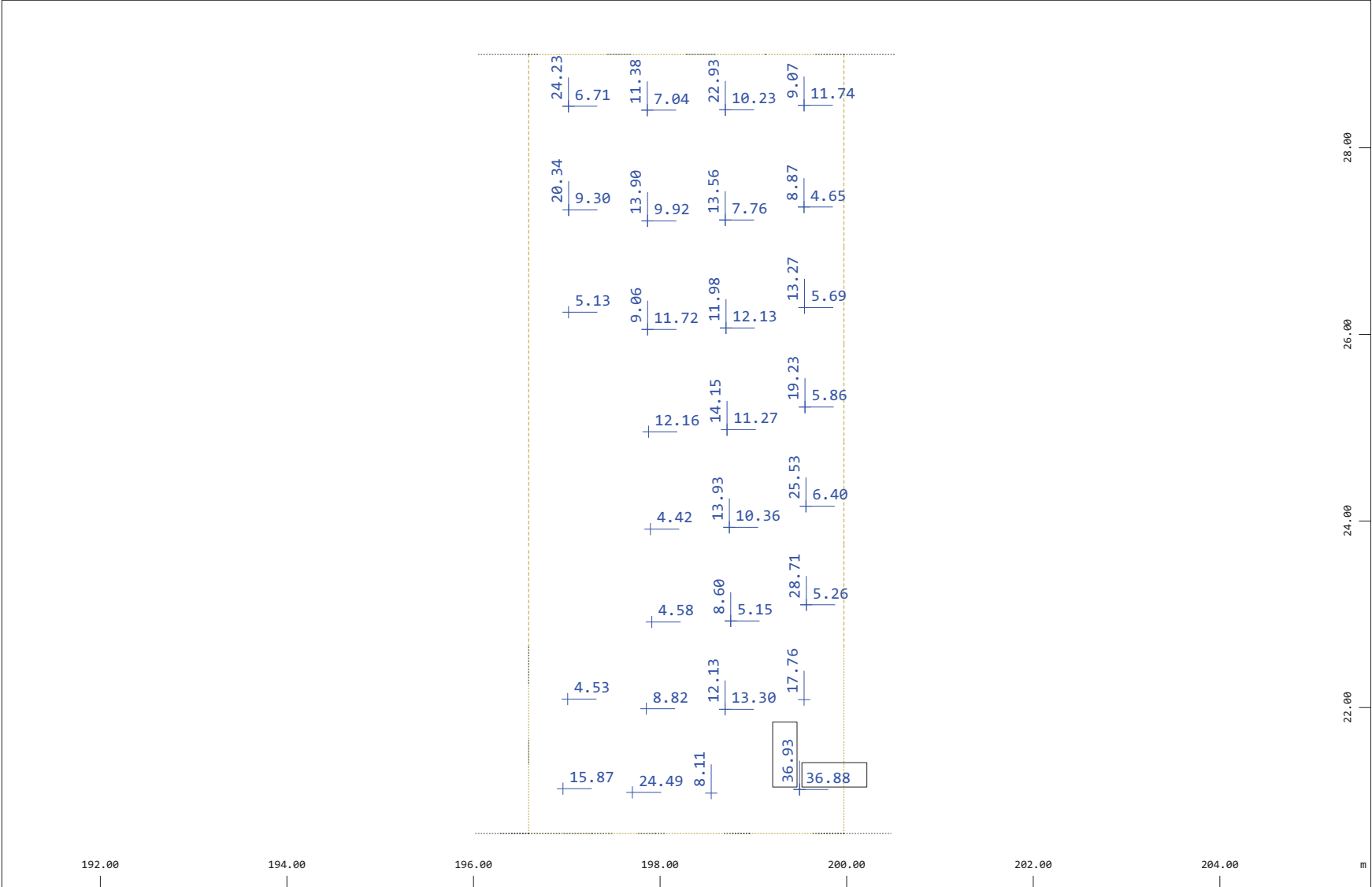
Sector of system Group 62
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=13.93)

imposed loads factor 0.005

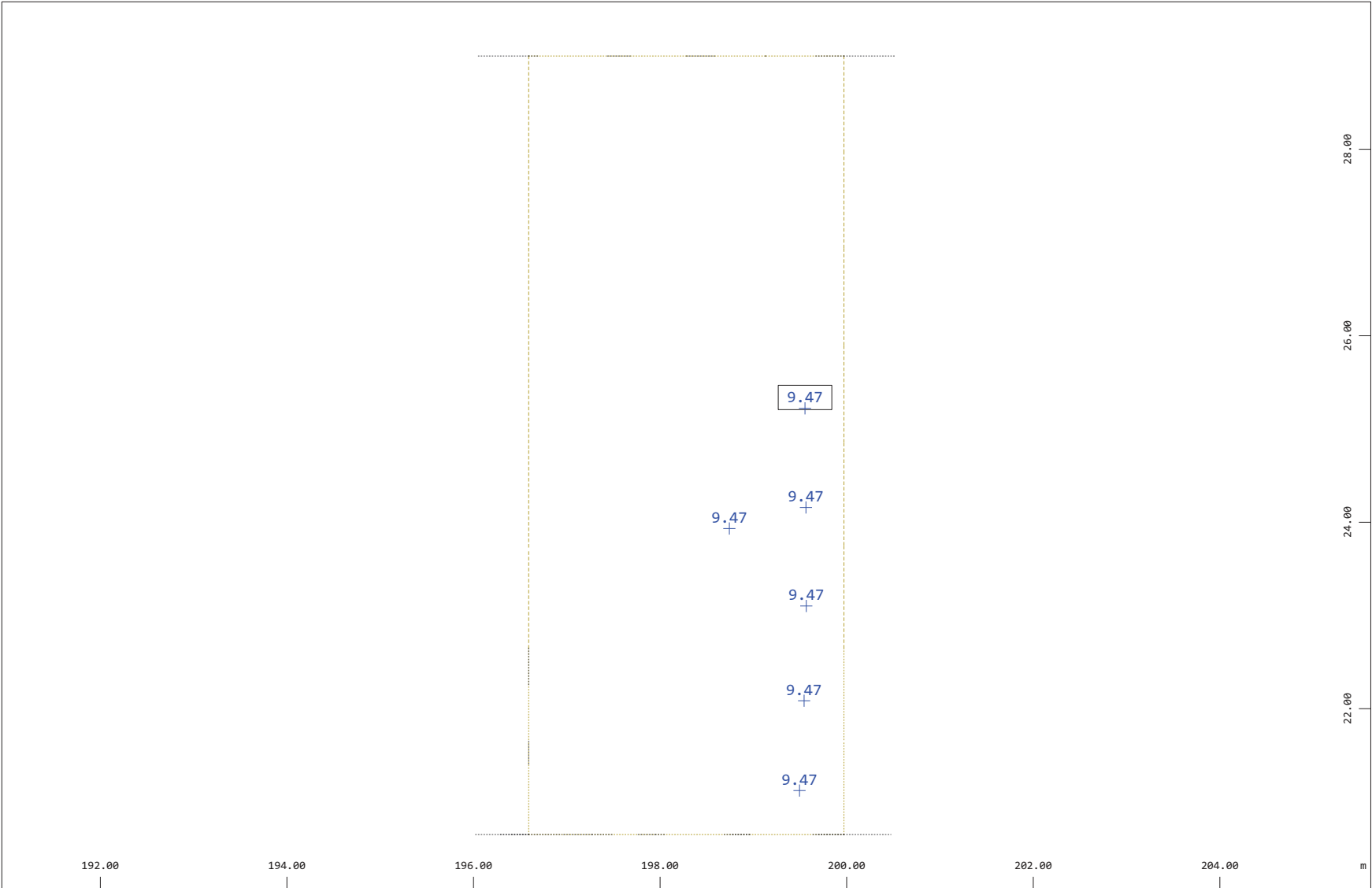


Sector of system Group 62
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=50.53)

M 1 : 58



Sector of system Group 62
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=36.93)
M 1 : 58



M 1 : 58

Sector of system Group 62
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.47)

z
x
magnified factor factor 0.005

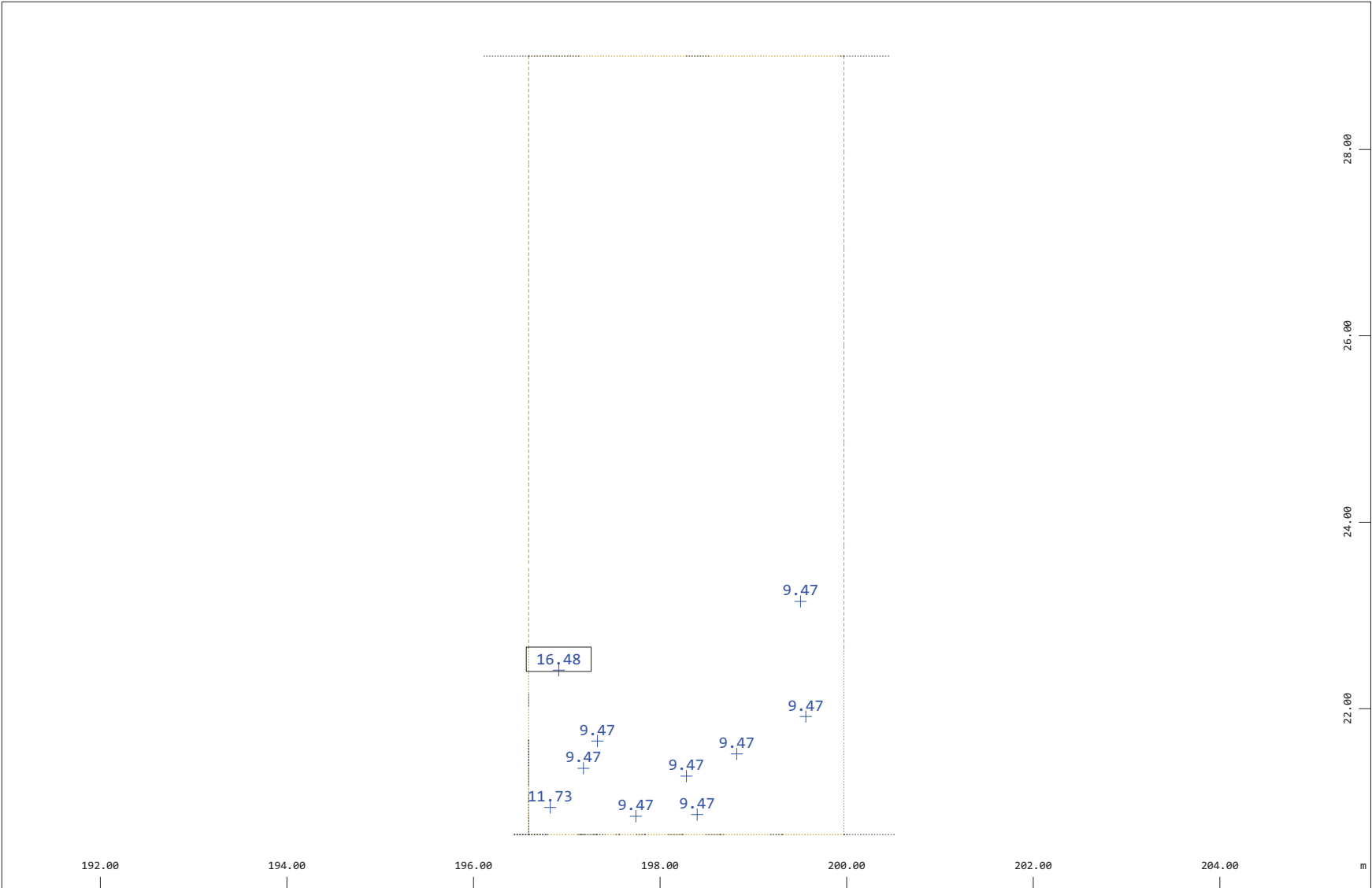
M 1 : 58



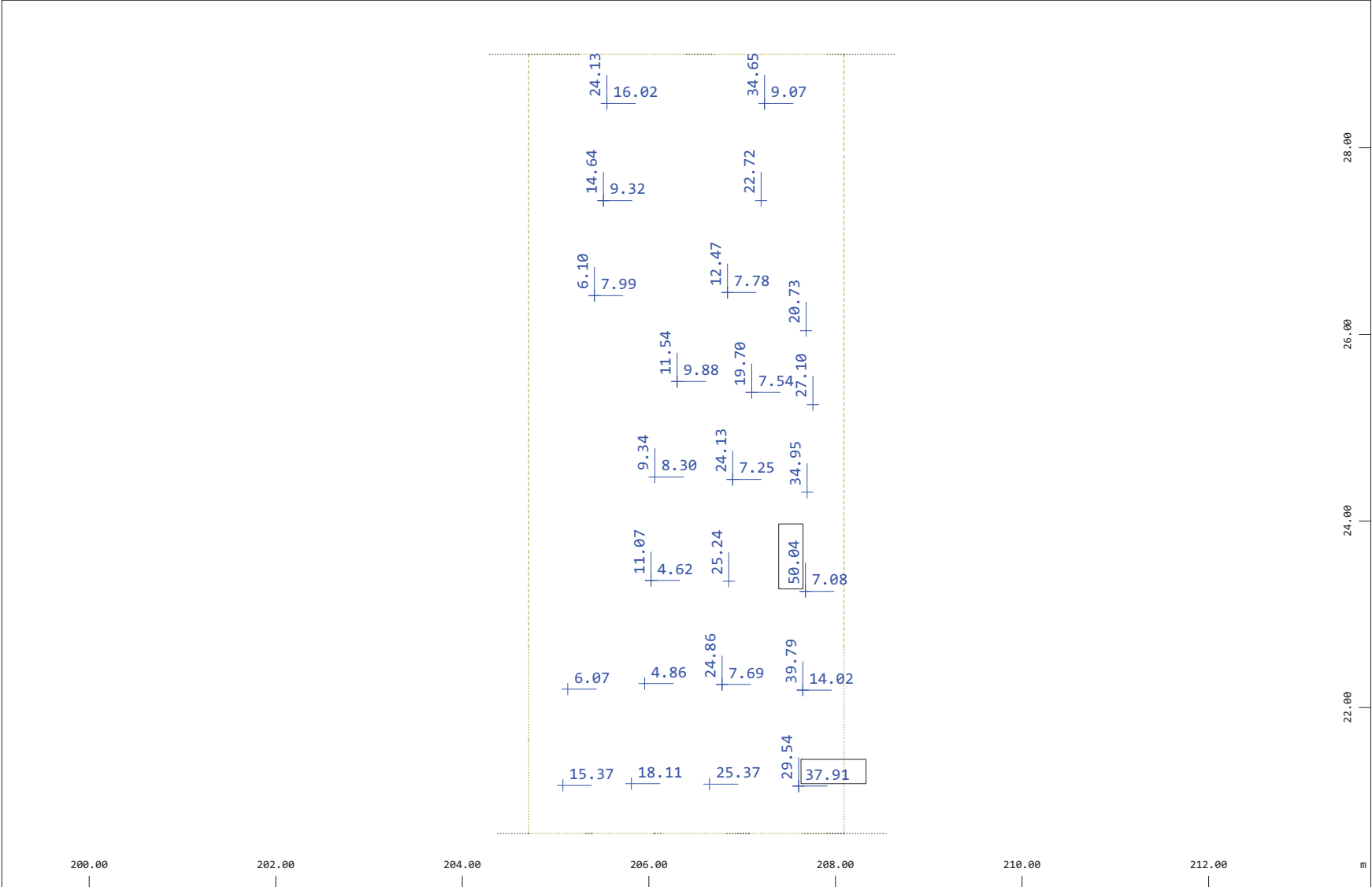
Sector of system Group 62

Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=39.77)





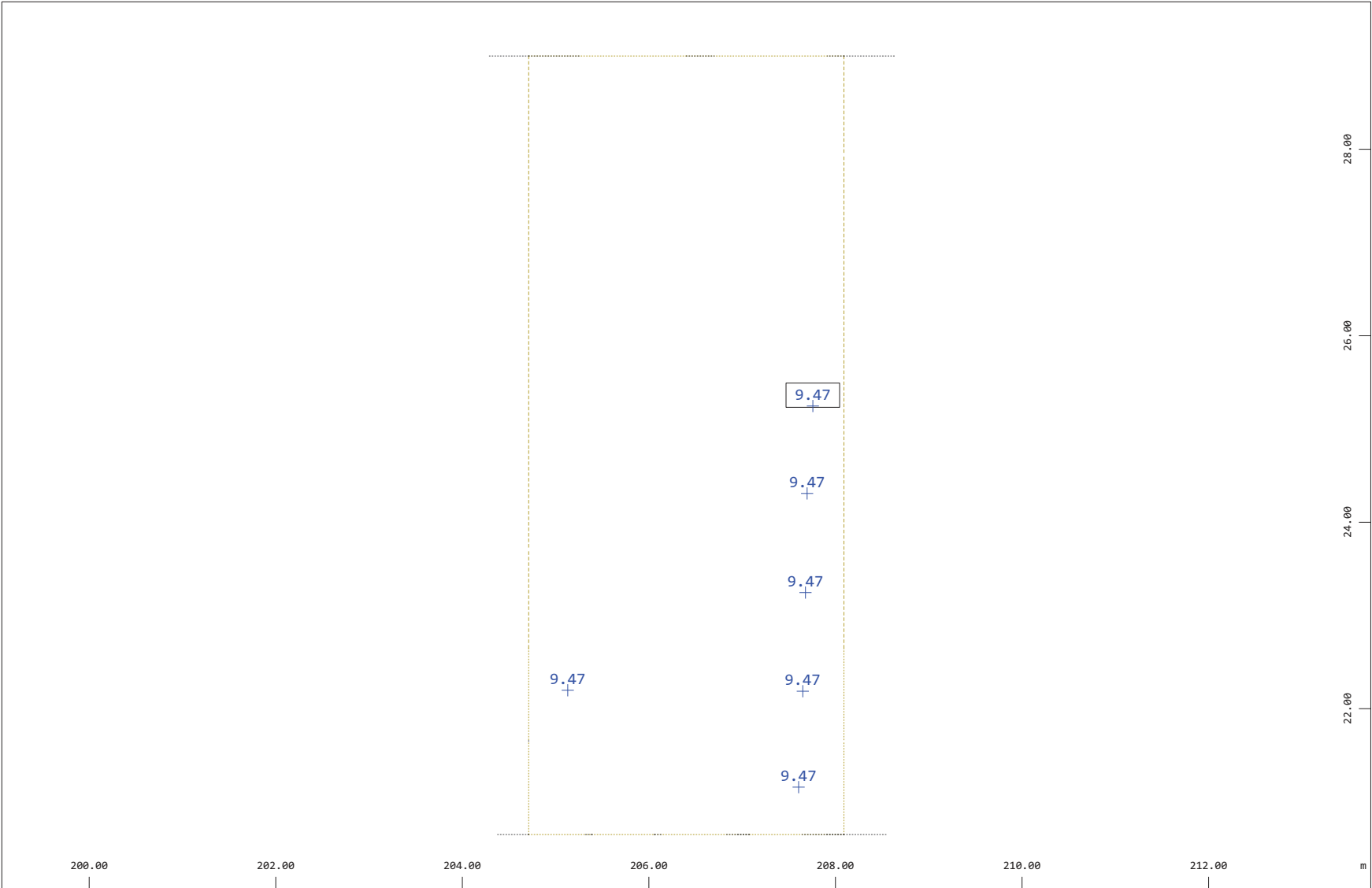
M 1 : 58



Sector of system Group 62
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=50.04)

M 1 : 58

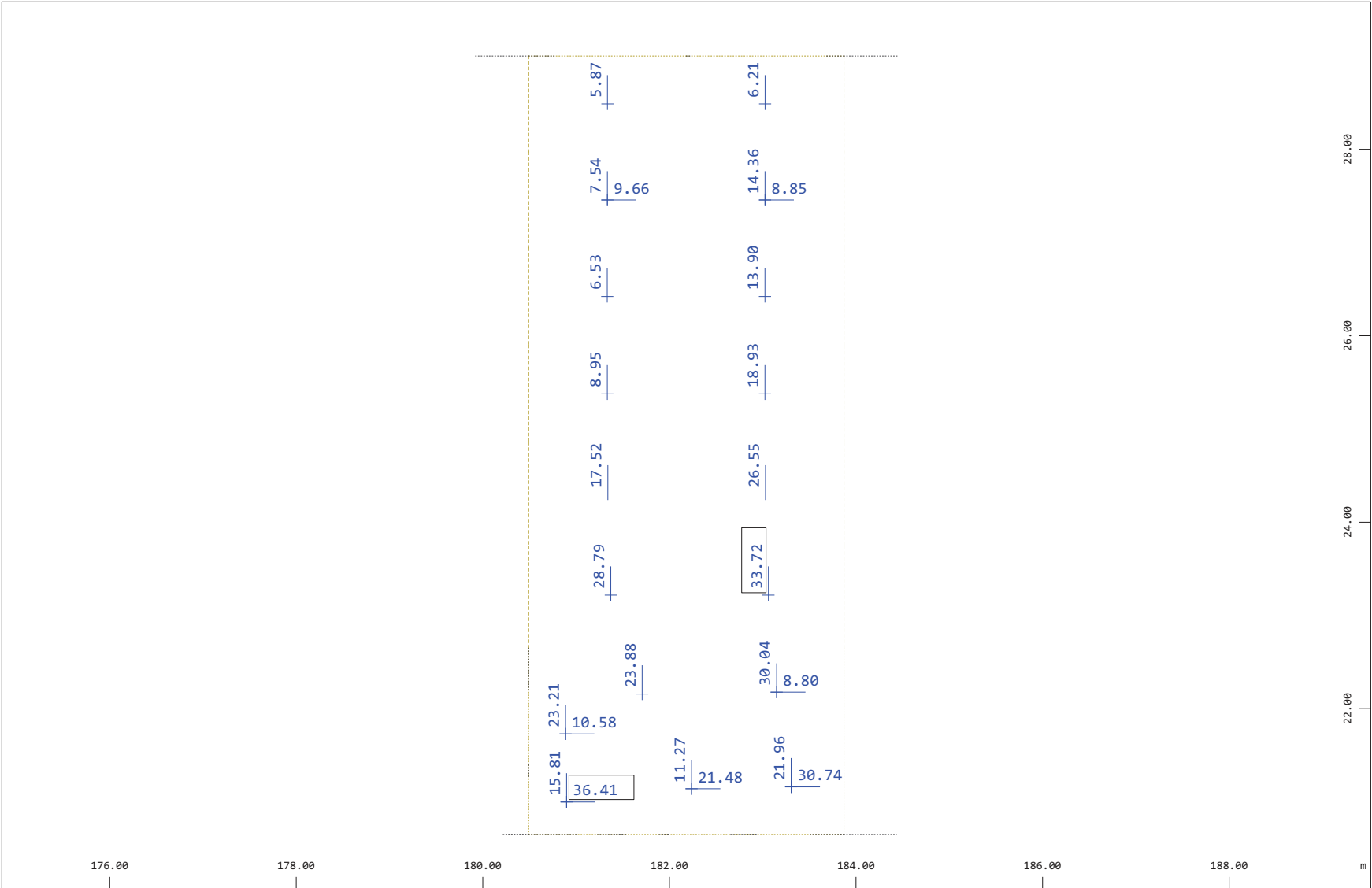




Sector of system Group 62
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=9.47)

z
x

minimized: 10/09/2023 09:05



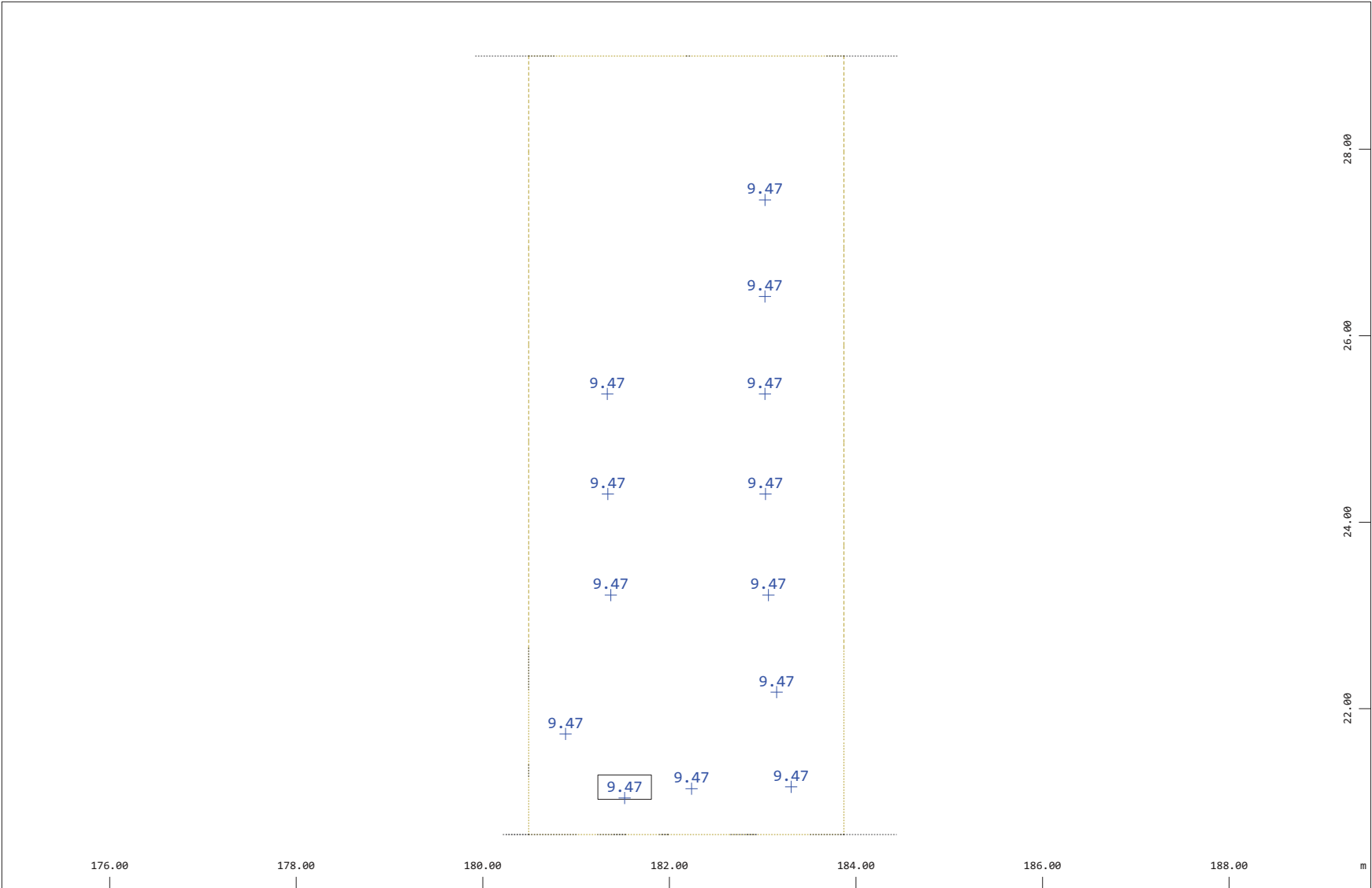
M 1 : 58

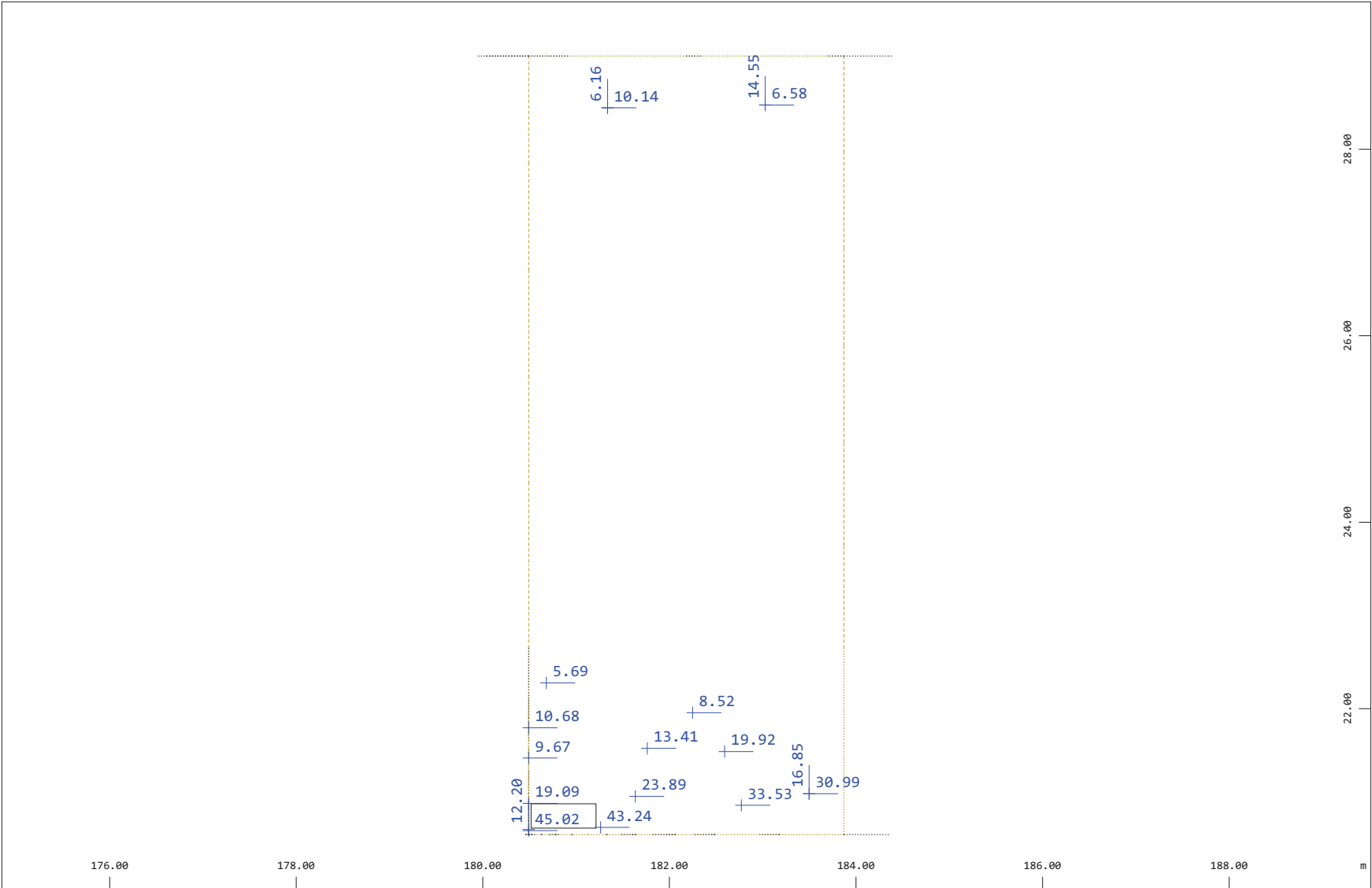
Sector of system Group 75
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=36.41)

5000 0.0000 0.0000 0.0000
Z
X



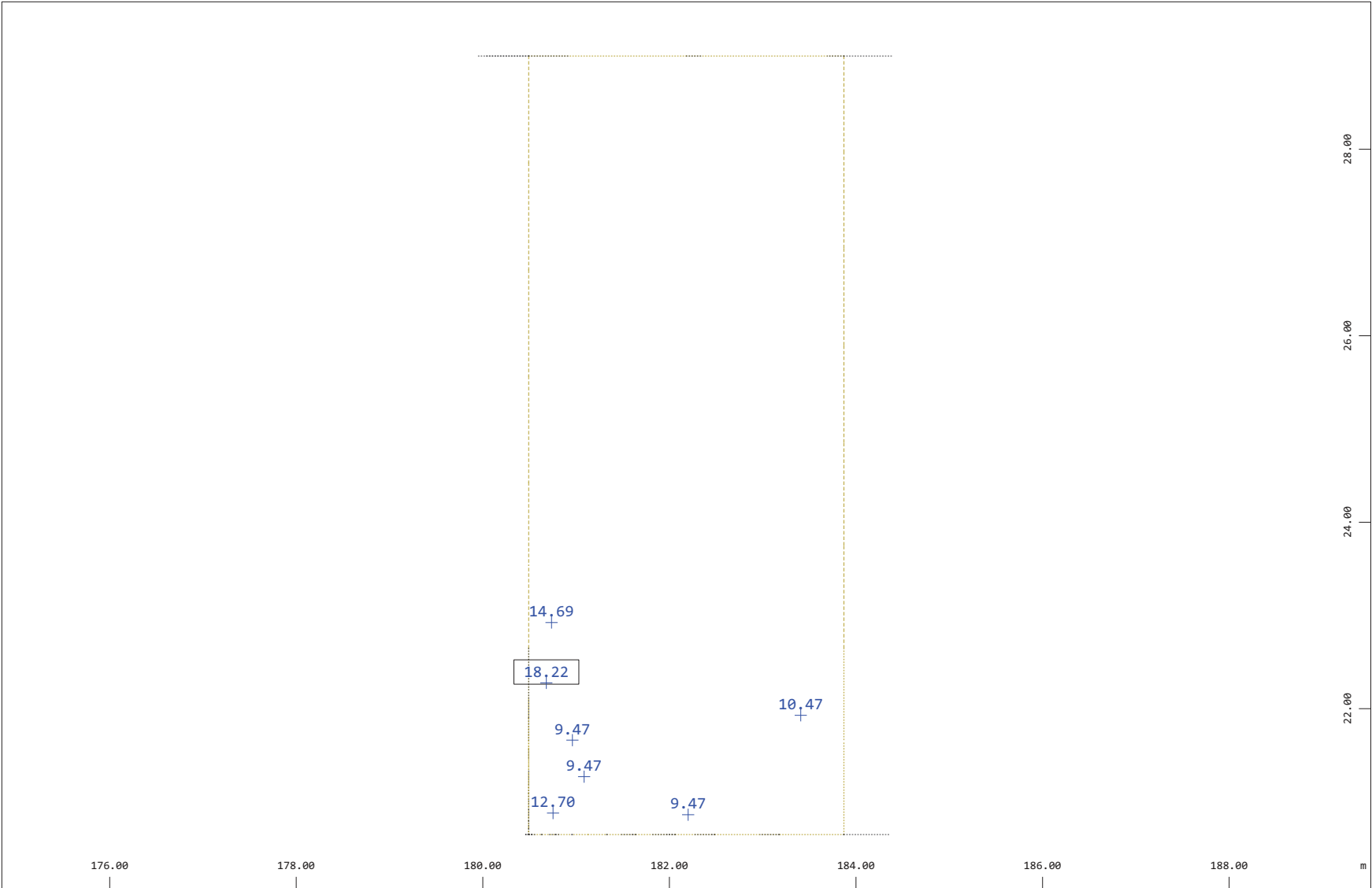
Quadrilateral Elements , lower Reinforcements in cm²/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=53.77)





Sector of system Group 75
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=45.02)
M 1 : 58

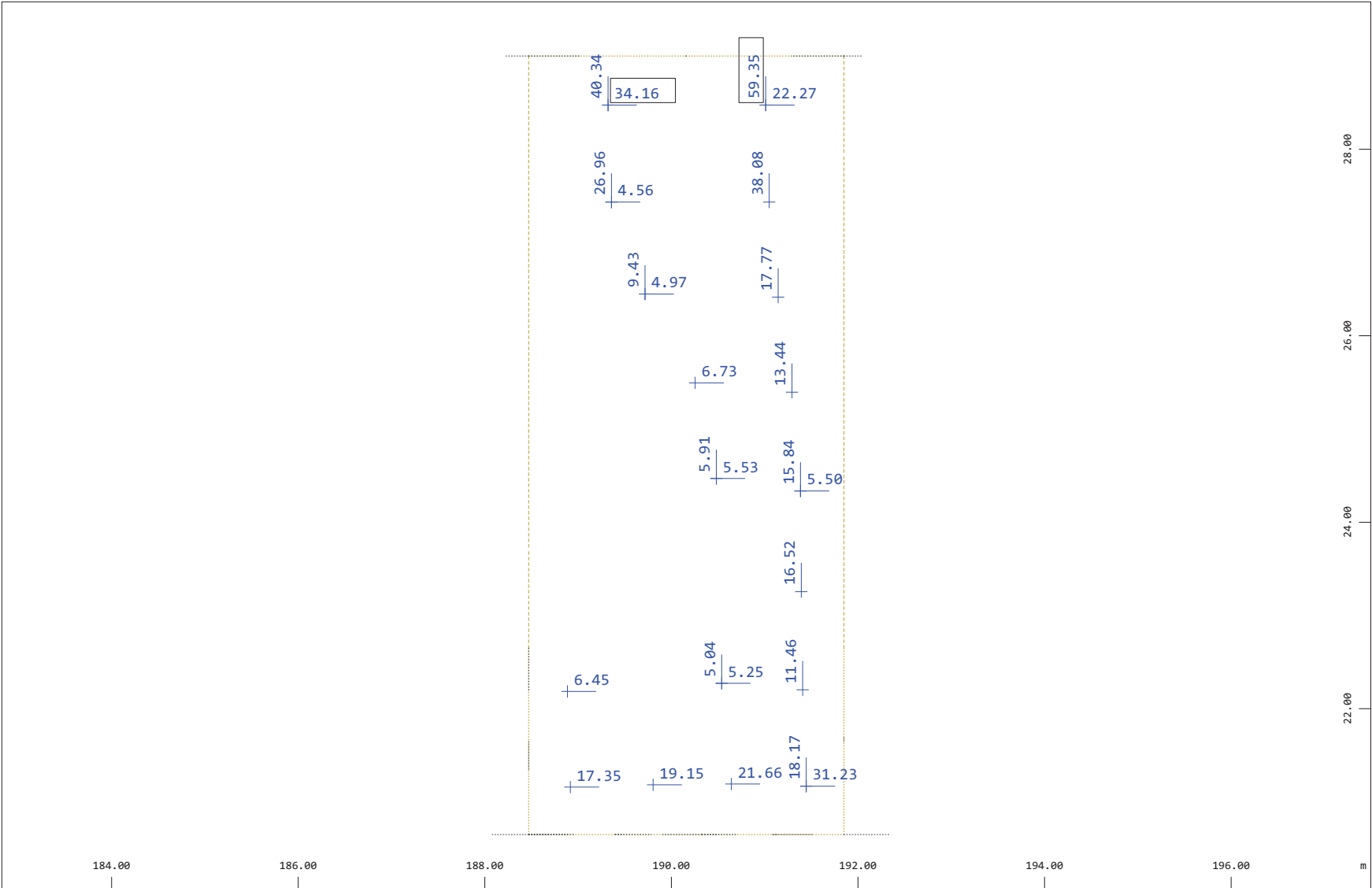




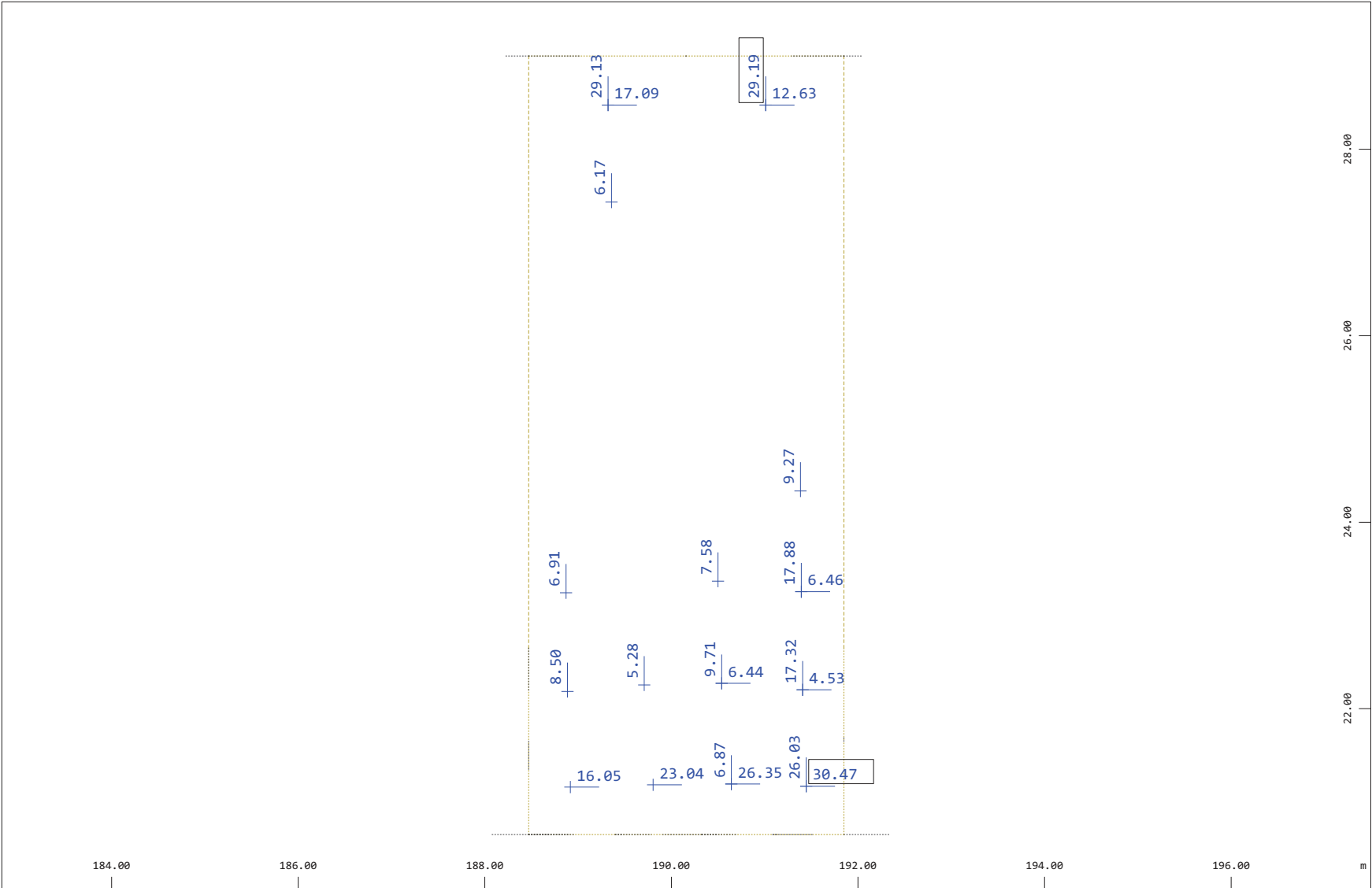
M 1 : 58

Sector of system Group 75
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=18.22)

3035
magnus kocher, 2023-09-09

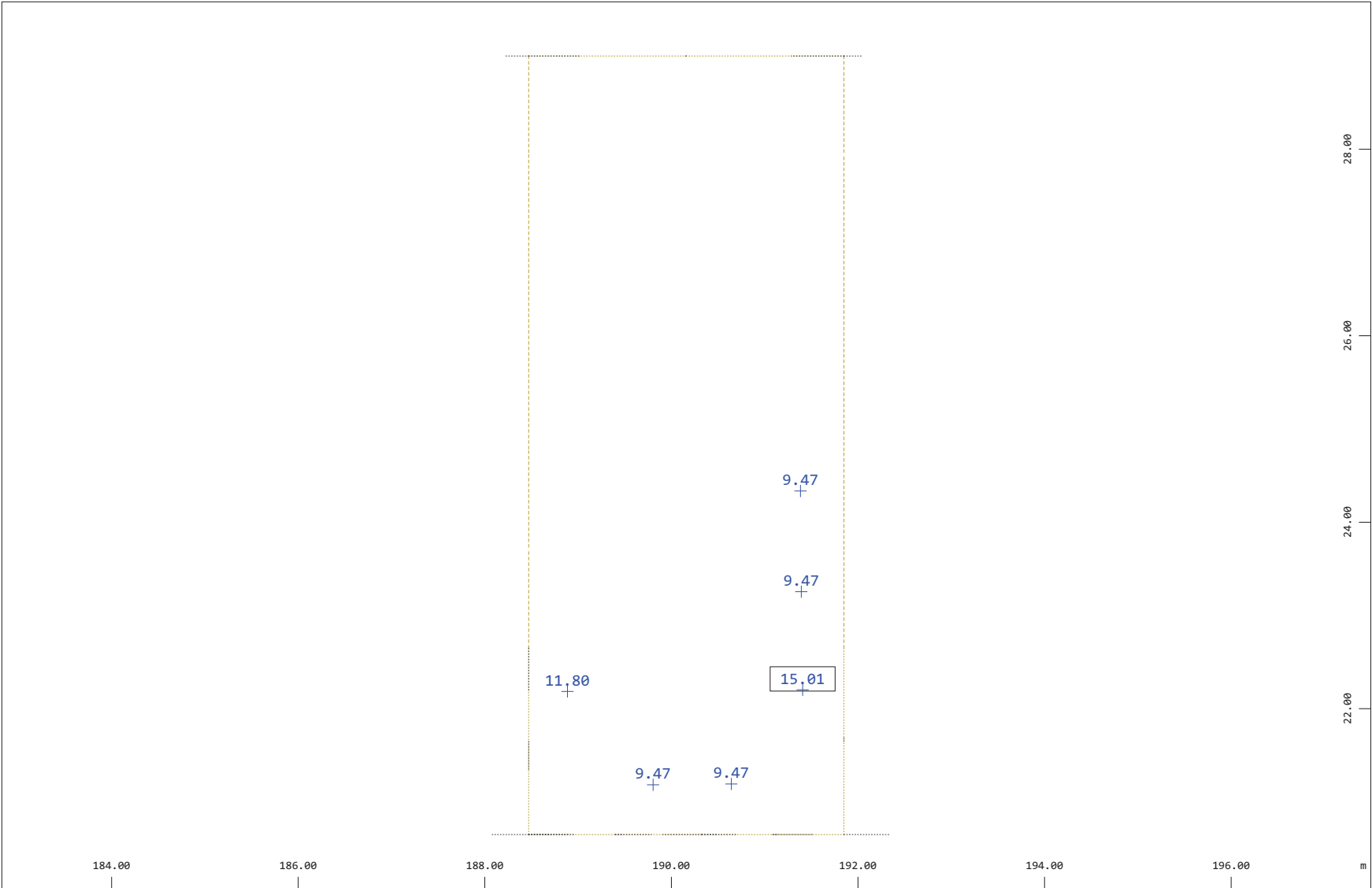


5000 0.0000 0.0000 0.0000
Z
X



Sector of system Group 75
Quadrilateral Elements , lower Reinforcements in cm2/m, Design Case 1 , Values greater than 4.42/4.42/- (Max=30.47)

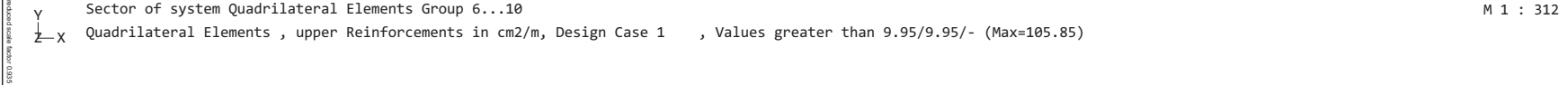
M 1 : 58



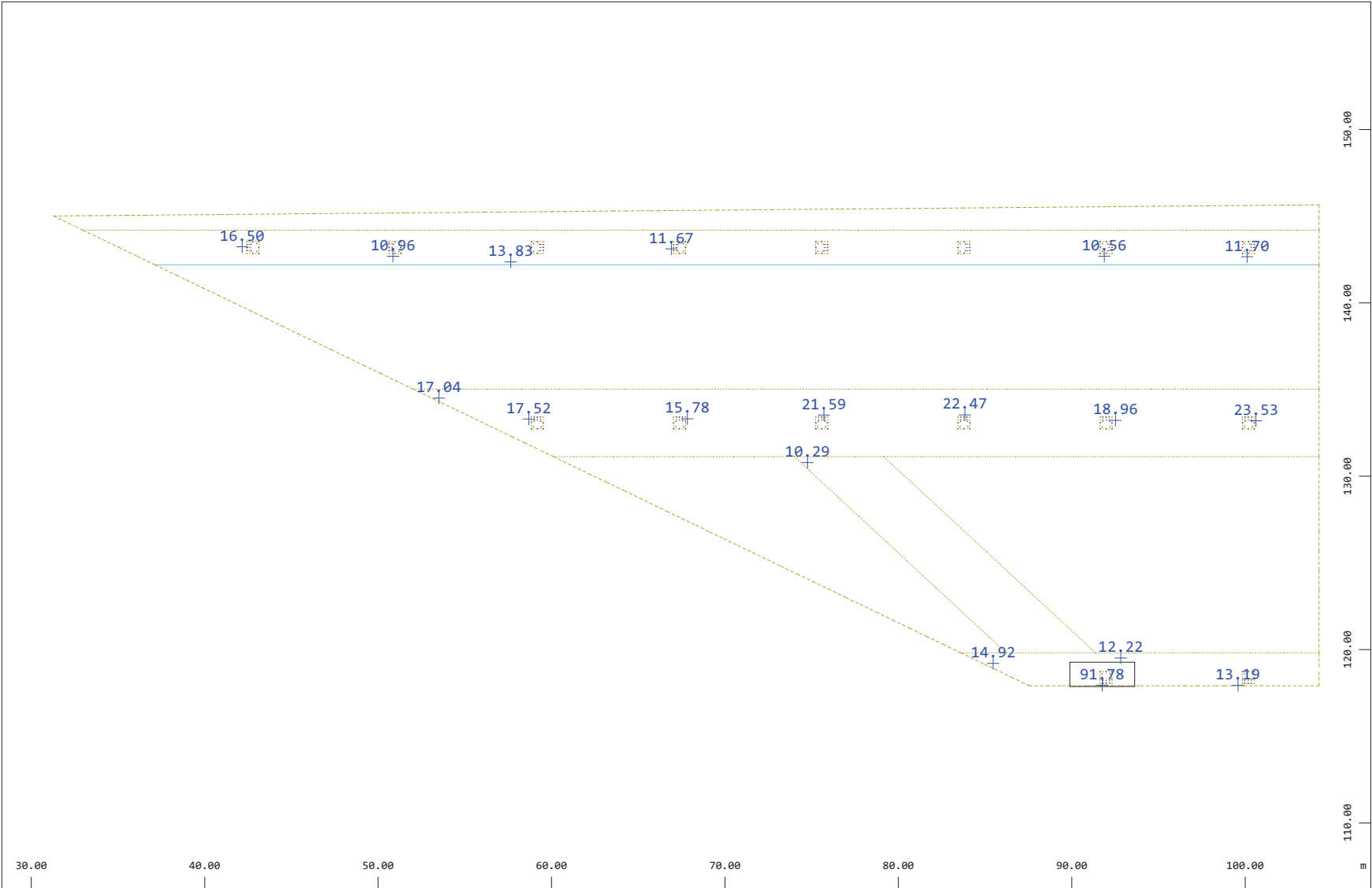
M 1 : 58

Sector of system Group 75
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 4.42 (Max=15.01)

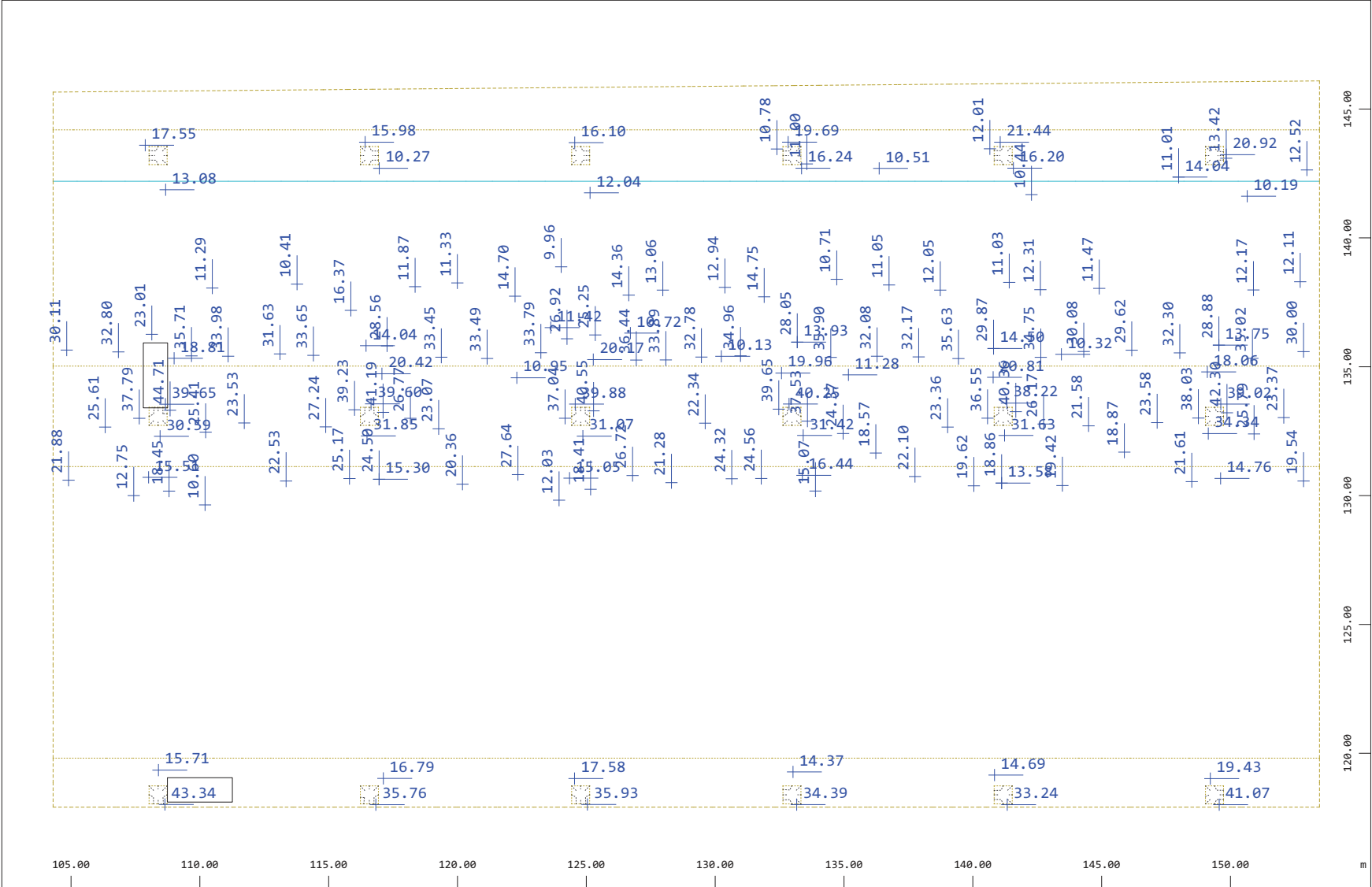
misprint from Rev09 0.0015



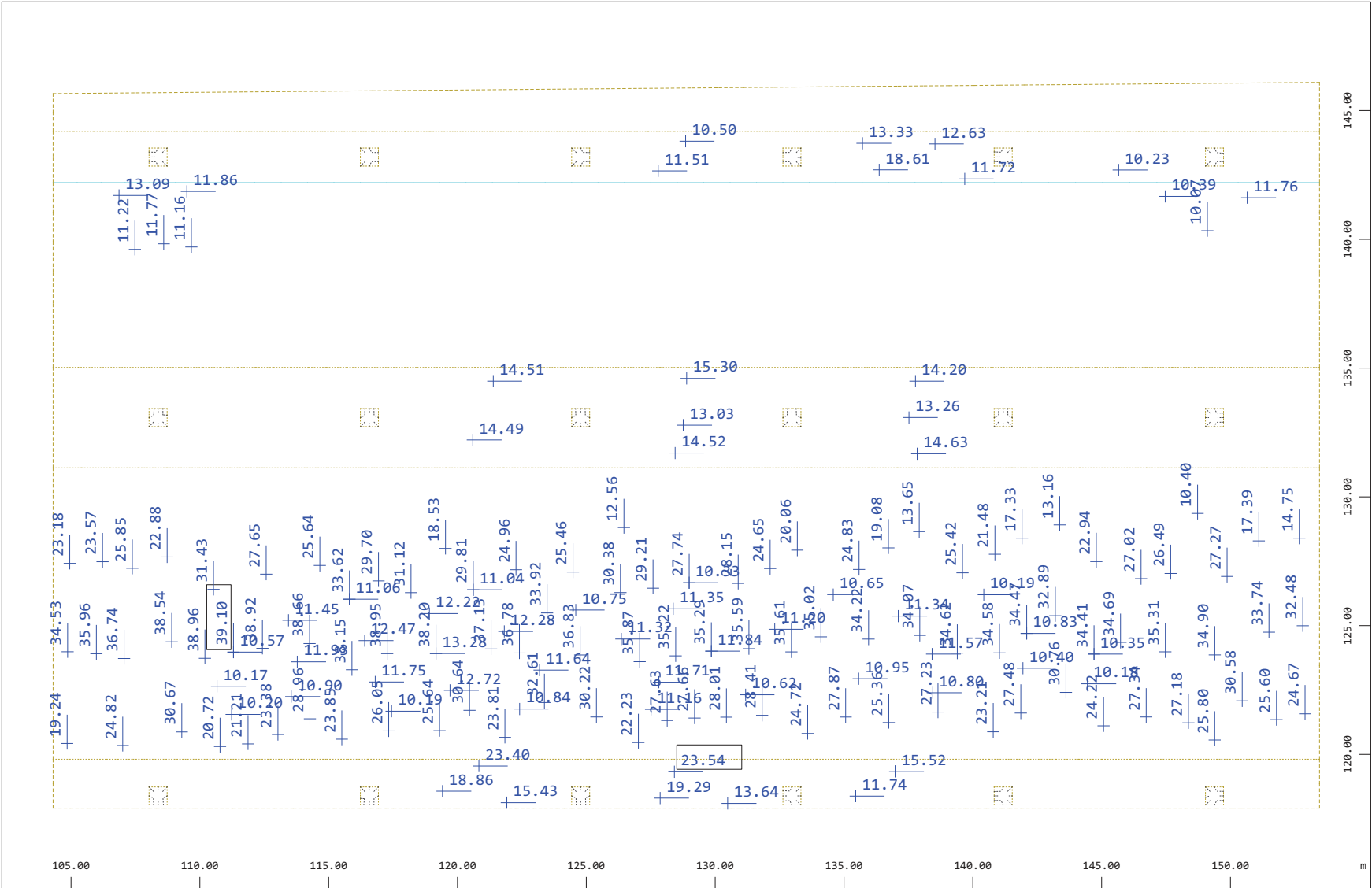


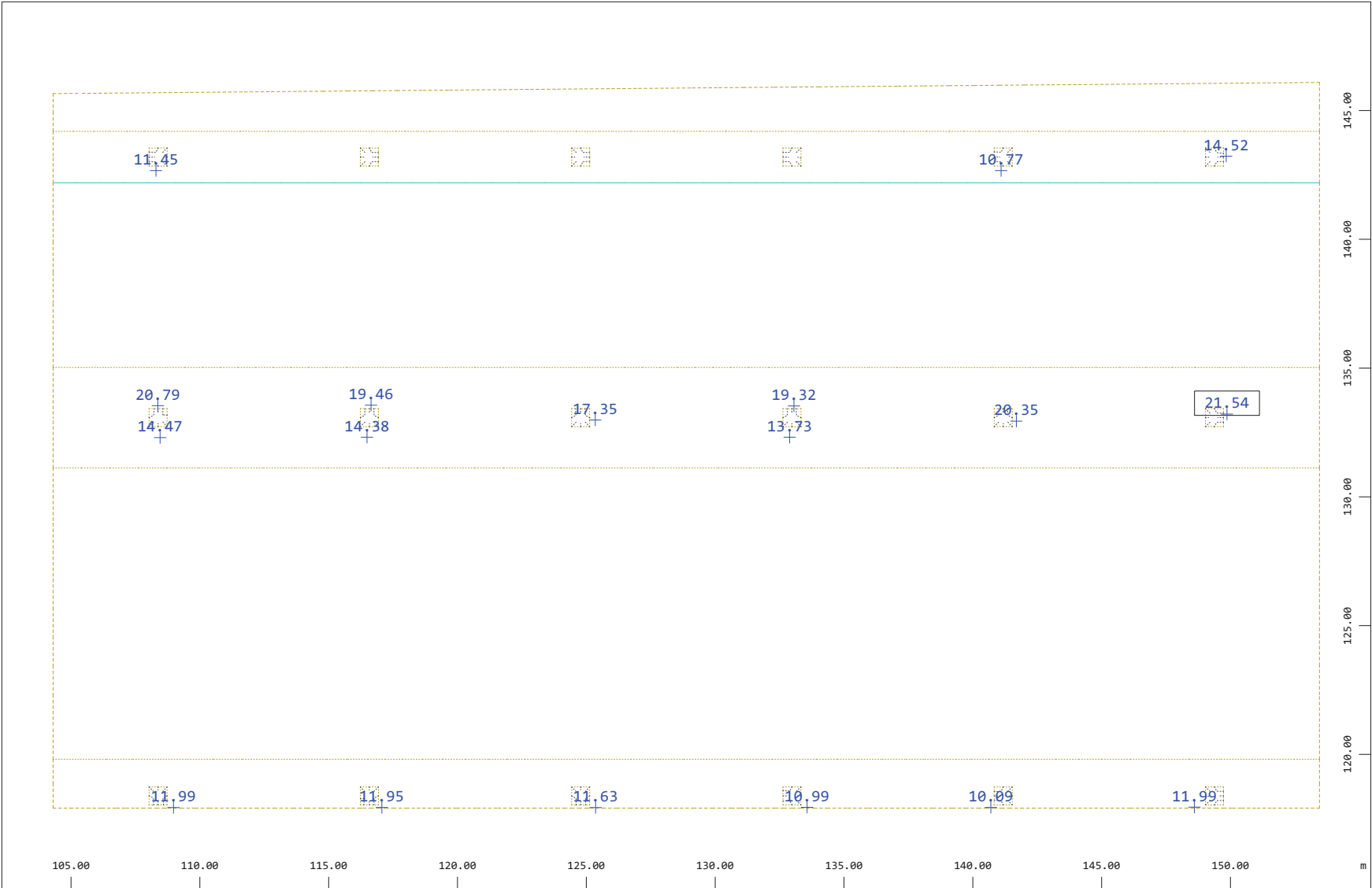


Sector of system Quadrilateral Elements Group 6...10
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 9.95 (Max=91.78)



Sector of system Quadrilateral Elements Group 19...22
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 9.95/9.95/- (Max=44.71)
M 1 : 210



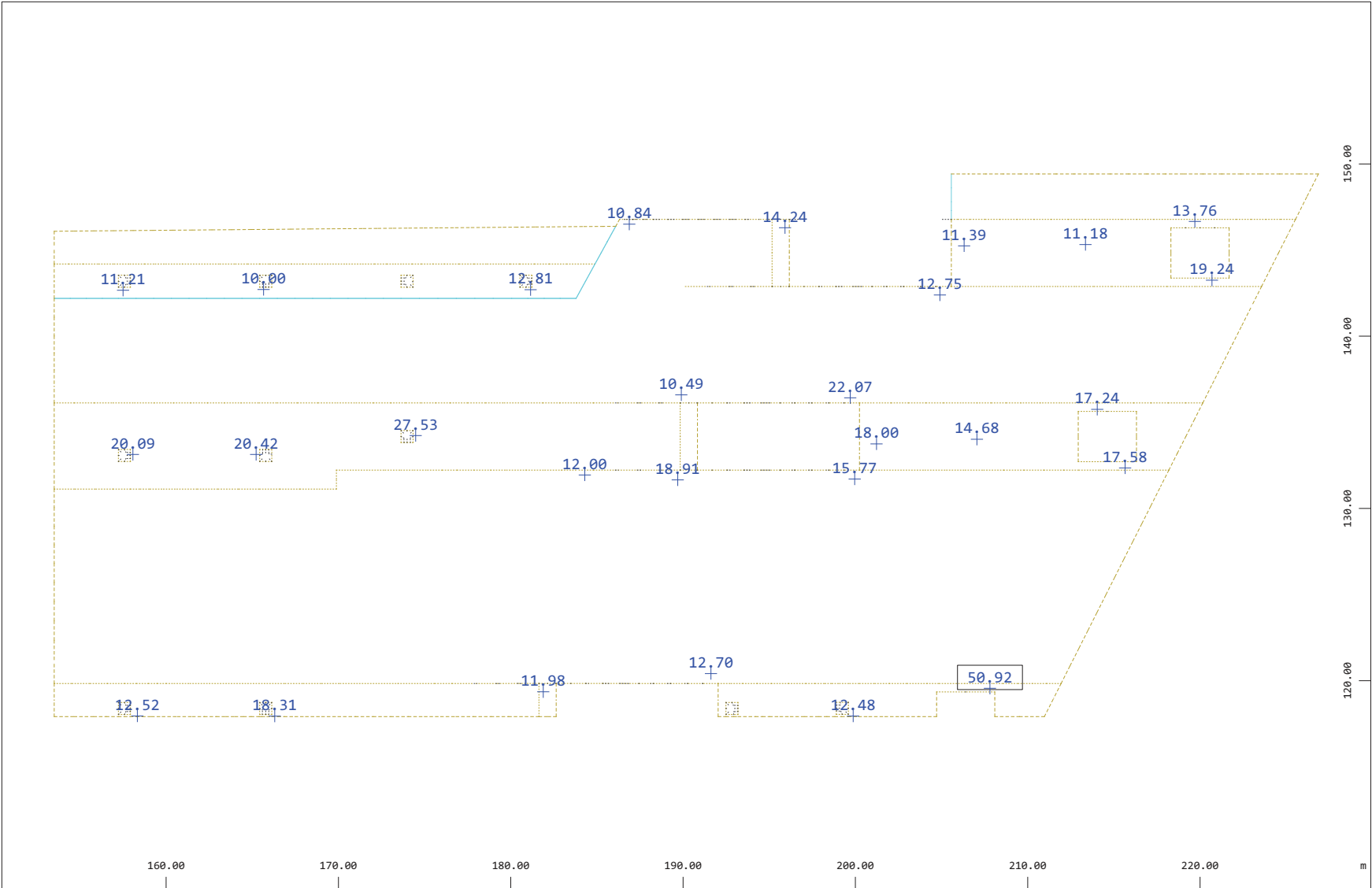


Sector of system Quadrilateral Elements Group 19...22
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 9.95 (Max=21.54)

misprint: from: Sector 0.0005

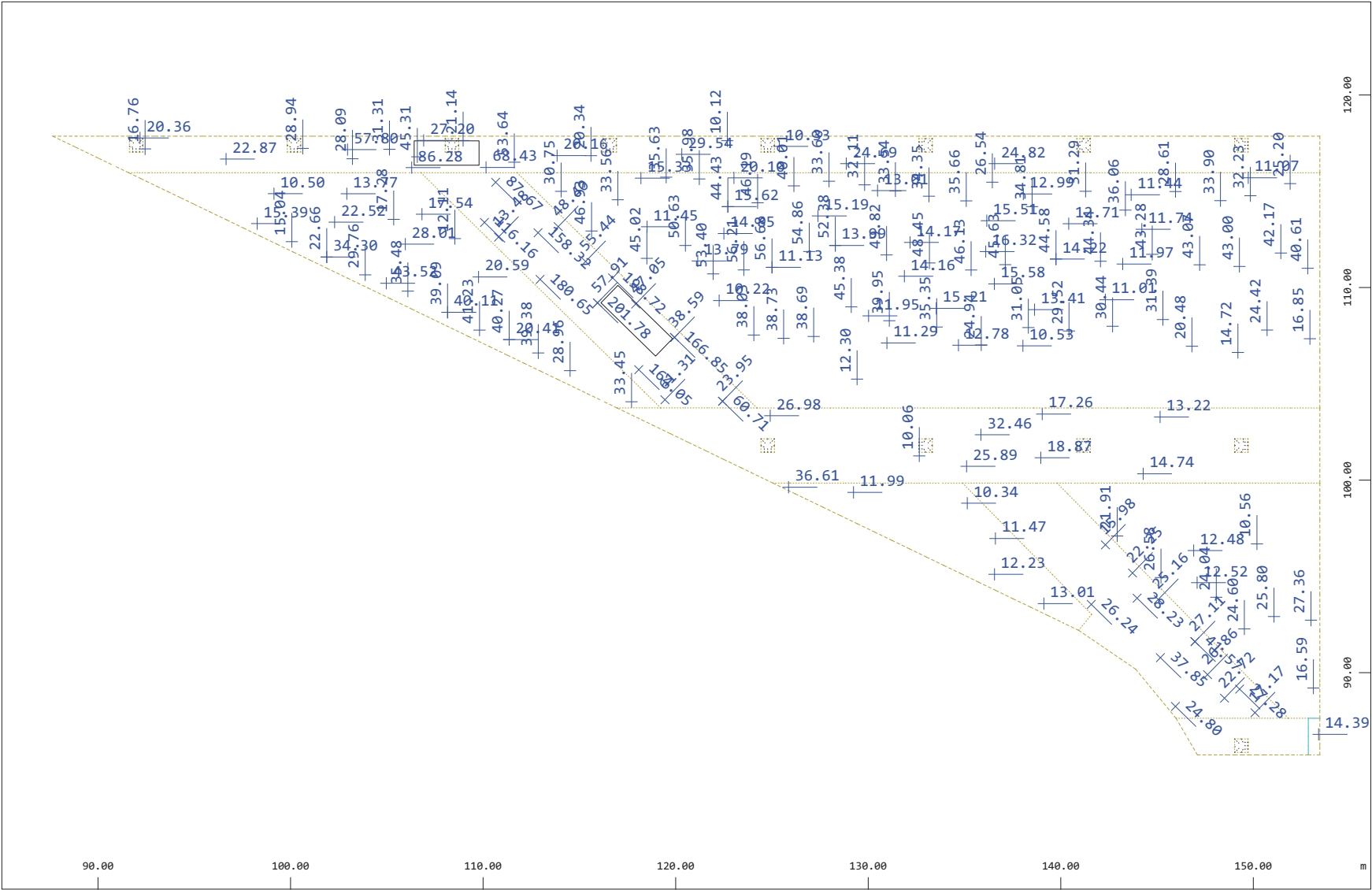


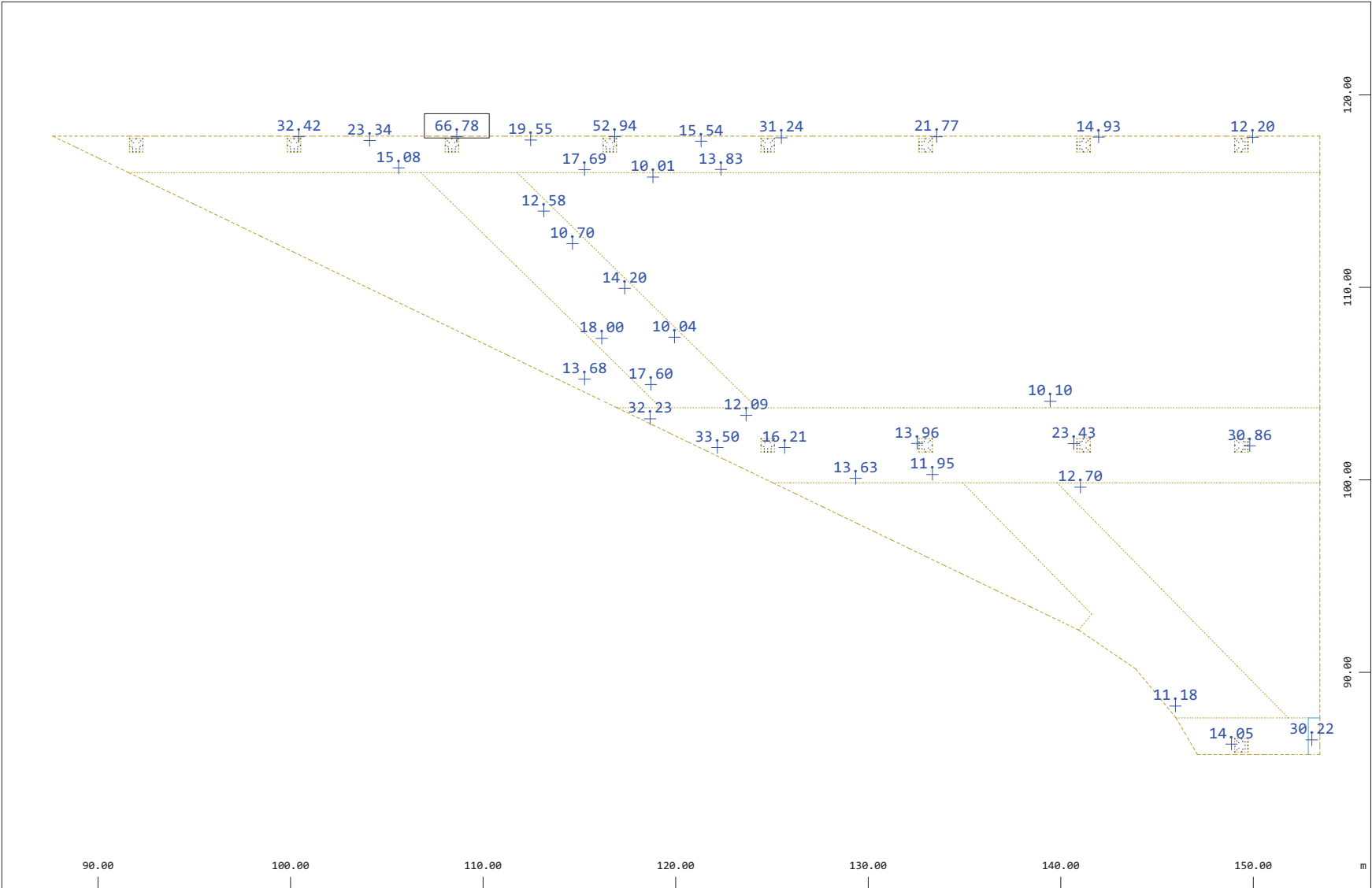
Quadrilateral Elements , upper Reinforcements in cm²/m, Design Case 1 , Values greater than 9.95/9.95/- (Max=80.66)



Y
Z-X
Sector of system Quadrilateral Elements Group 34...38
Quadrilateral Elements , Shear reinforcement in cm2/m2, Design Case 1 , Values greater than 9.95 (Max=50.92)

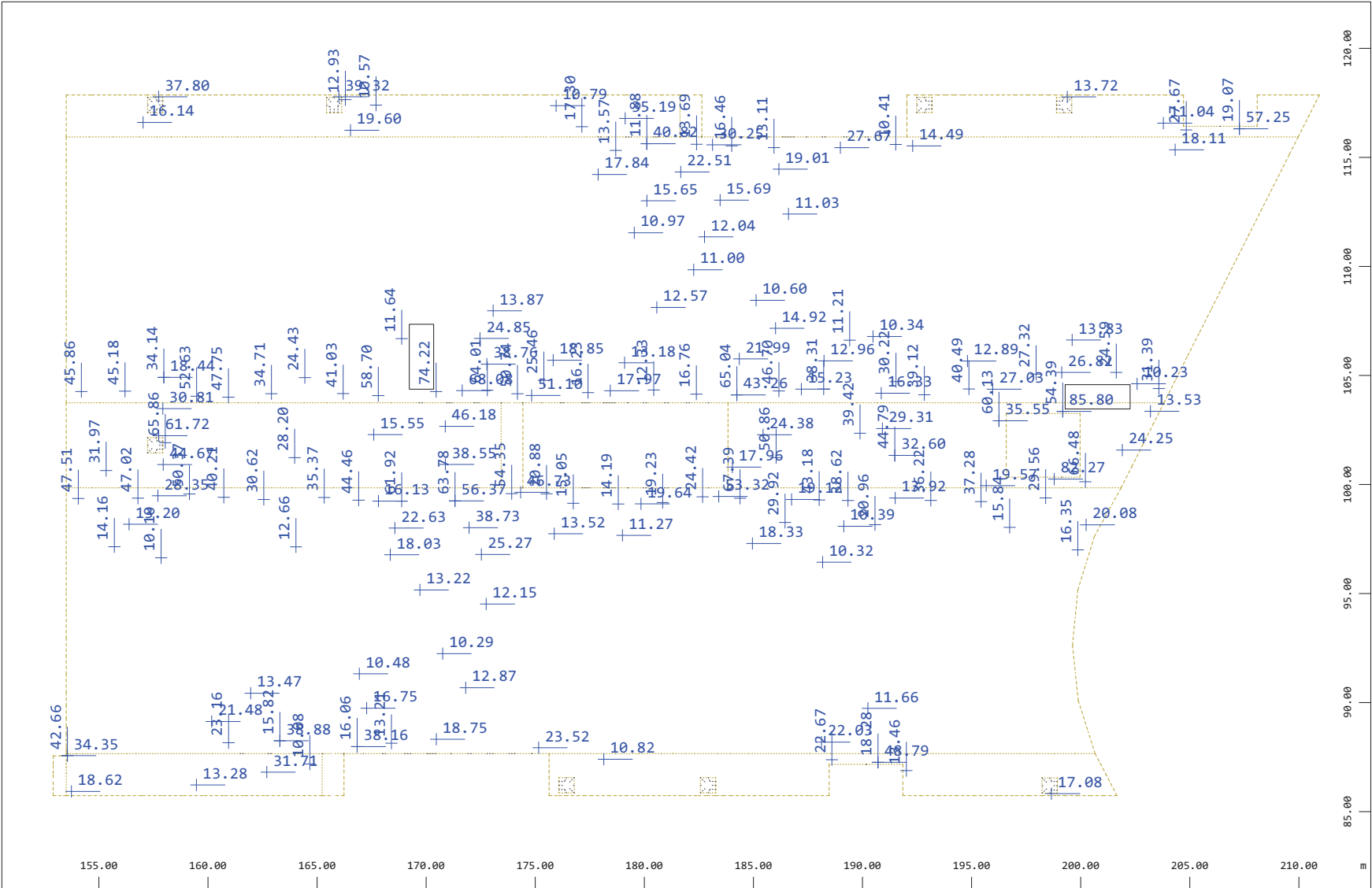






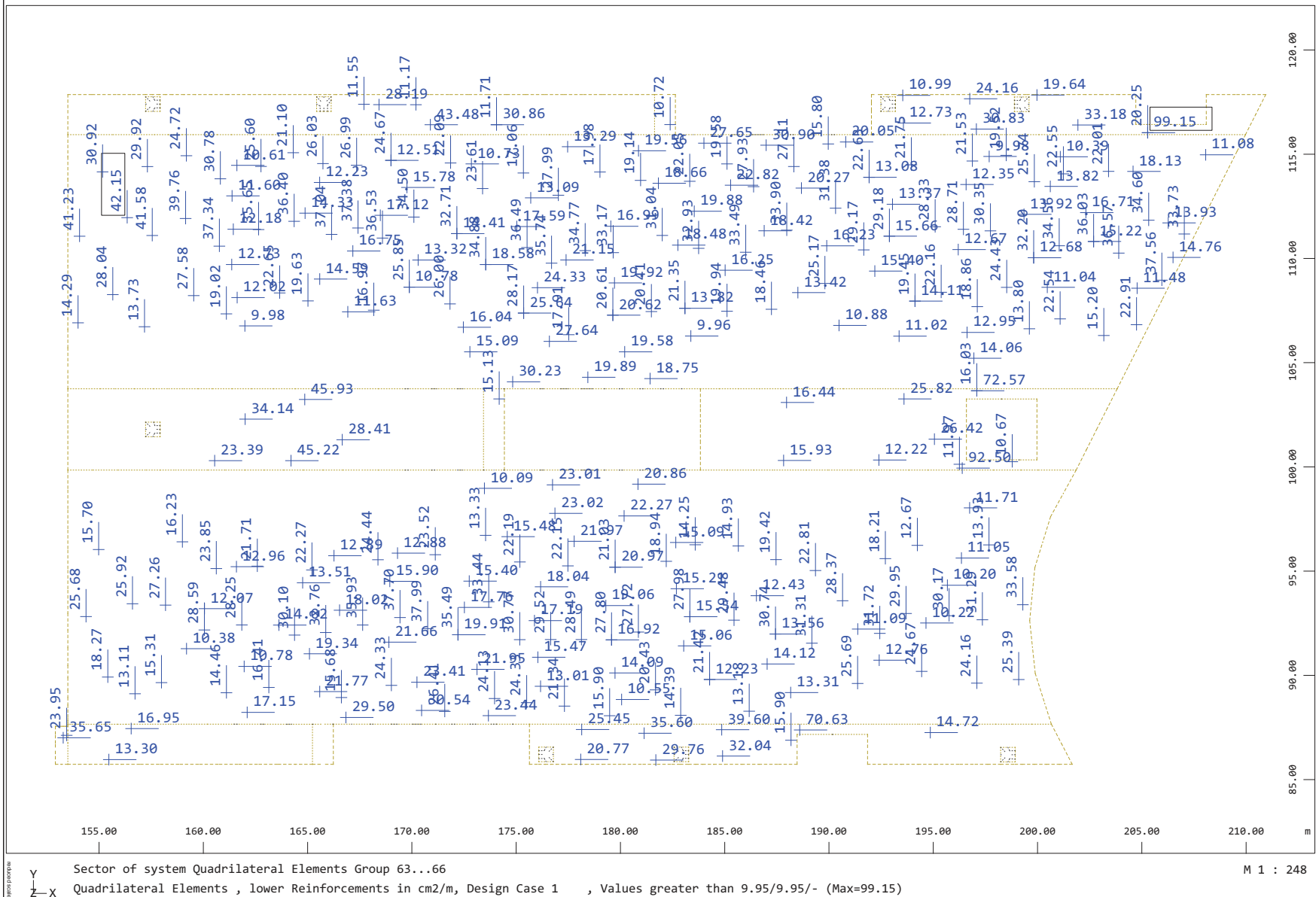
Sector of system Quadrilateral Elements Group 48...51
Quadrilateral Elements , Shear reinforcement in cm²/m², Design Case 1 , Values greater than 9.95 (Max=66.78)

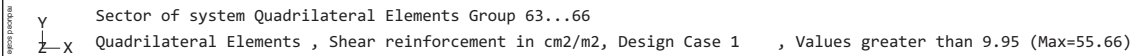
mscsoft GmbH, Berlin 03055

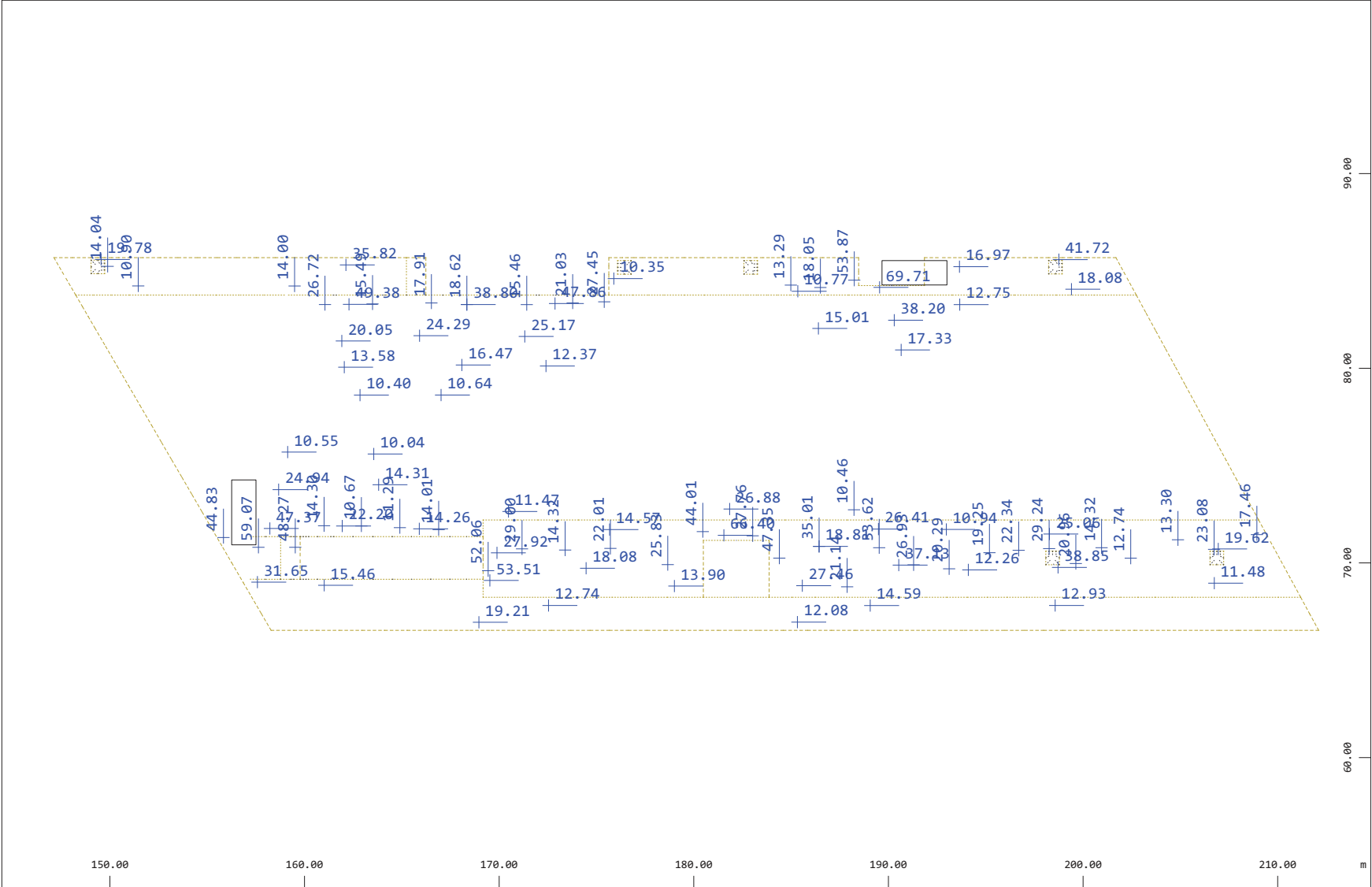


Sector of system Quadrilateral Elements Group 63...66
Quadrilateral Elements, upper Reinforcements in cm2/m, Design Case 1, Values greater than 9.95/9.95/- (Max=85.80)
M 1 : 248

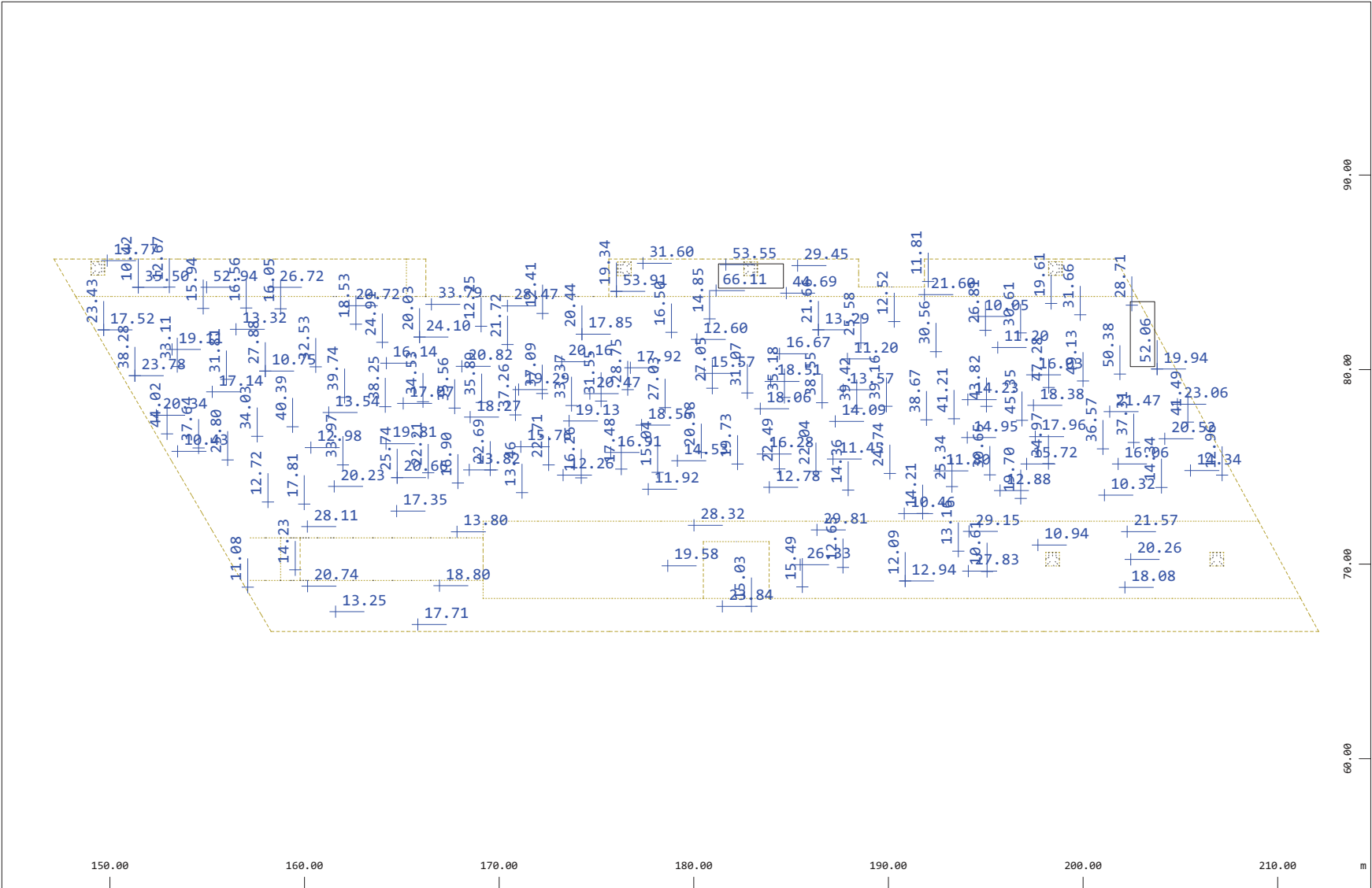
50000 rising values procedure

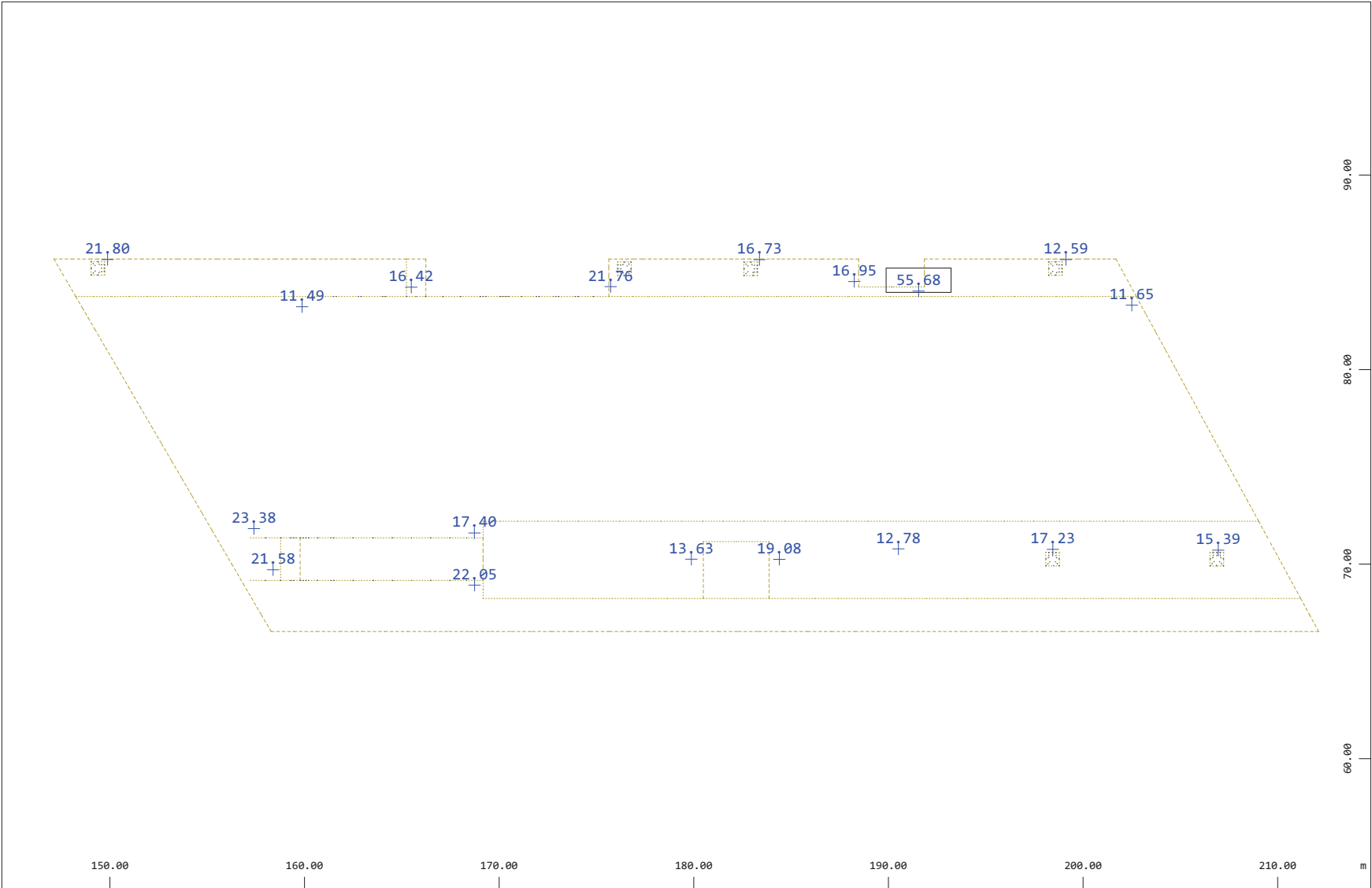






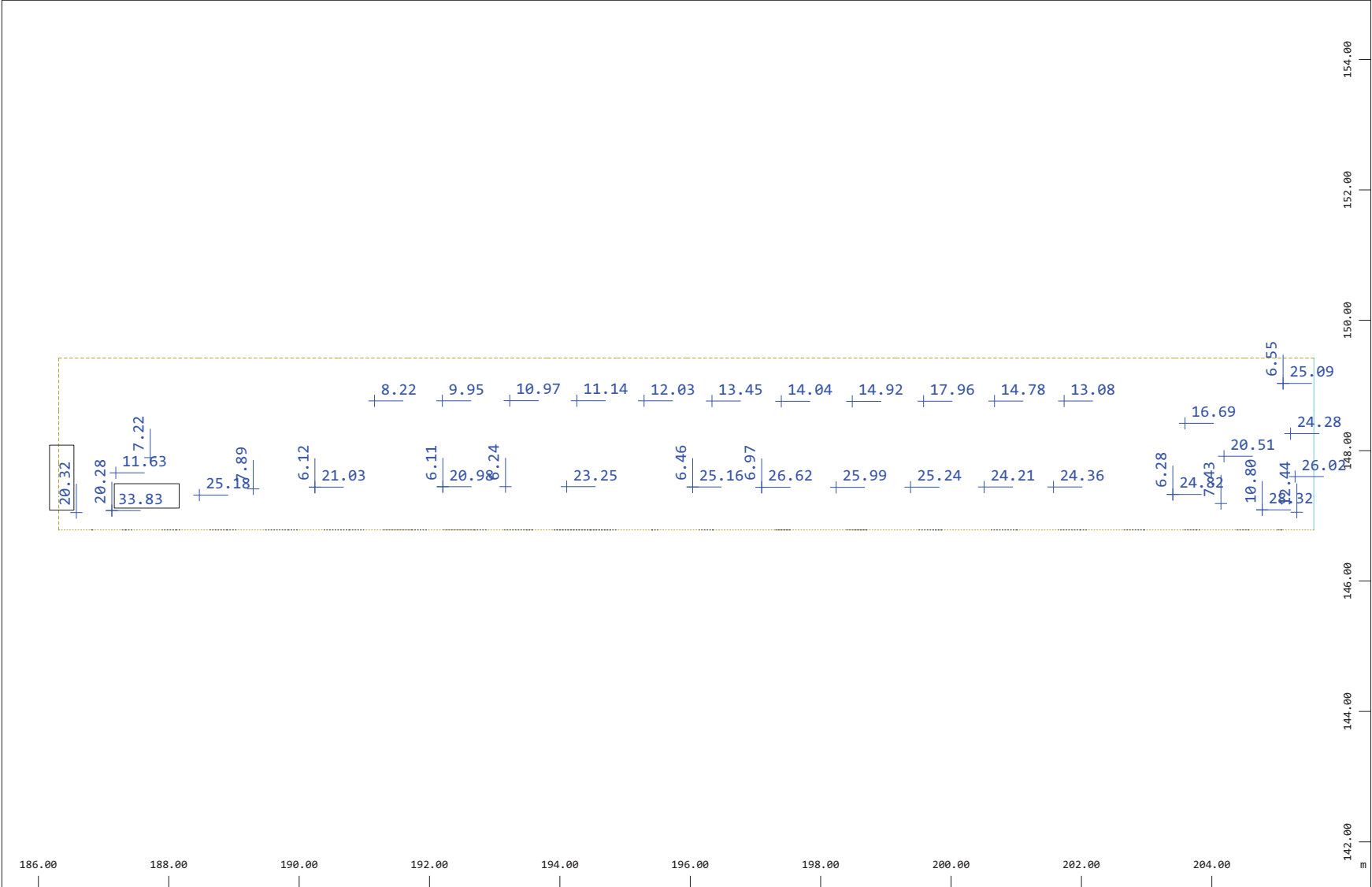
Sector of system Quadrilateral Elements Group 76...78
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 9.95/9.95/- (Max=69.71)
M 1 : 278





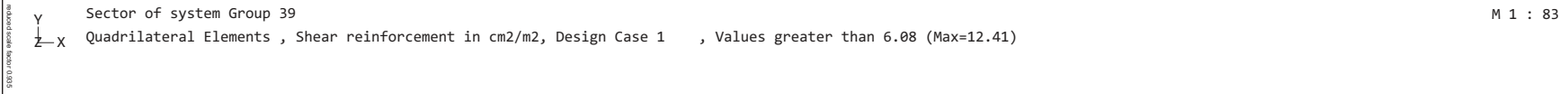
Sector of system Quadrilateral Elements Group 76...78
Quadrilateral Elements, Shear reinforcement in cm2/m2, Design Case 1, Values greater than 9.95 (Max=55.68)
M 1 : 278

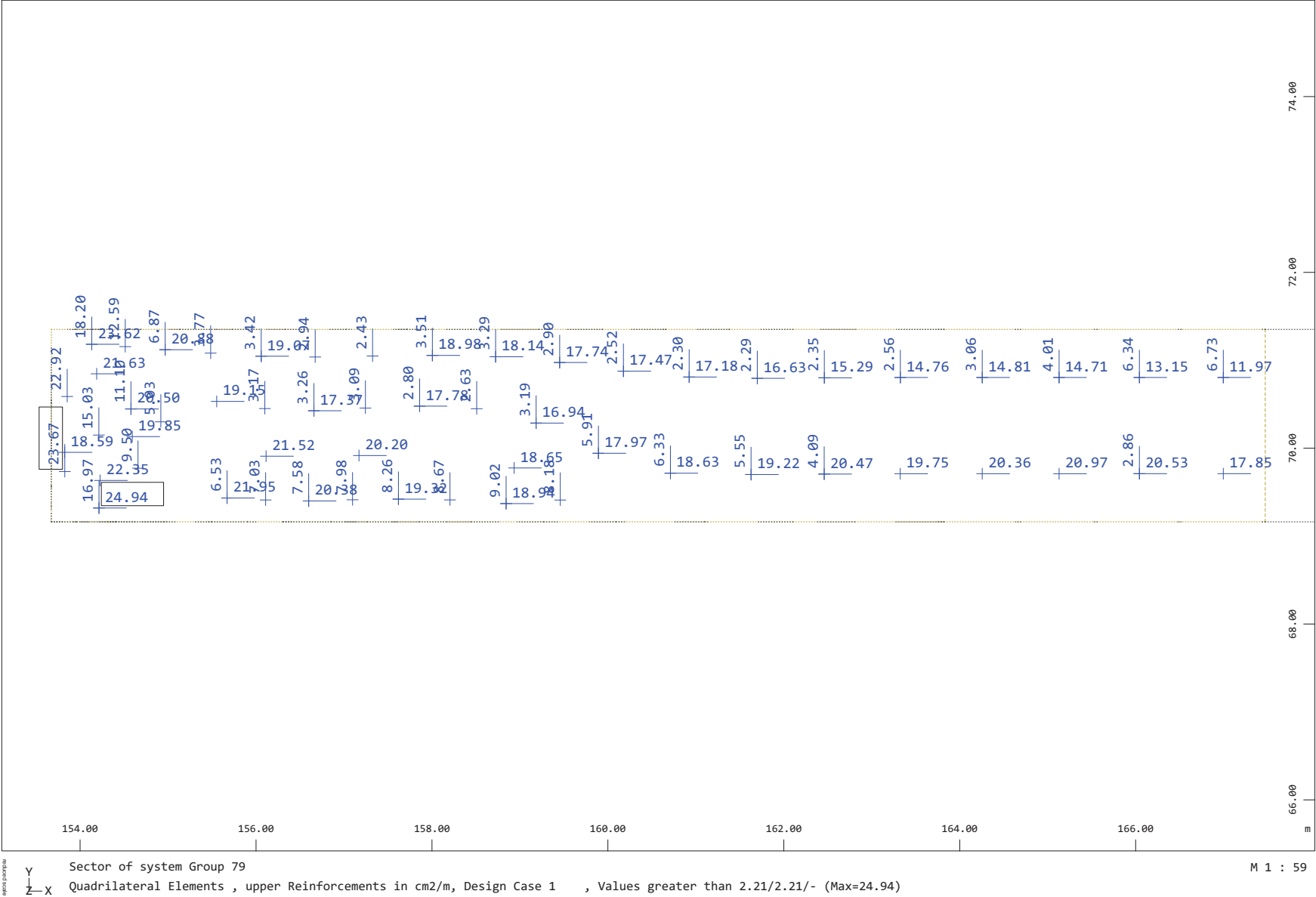
mscsoft GmbH, Berlin 03055

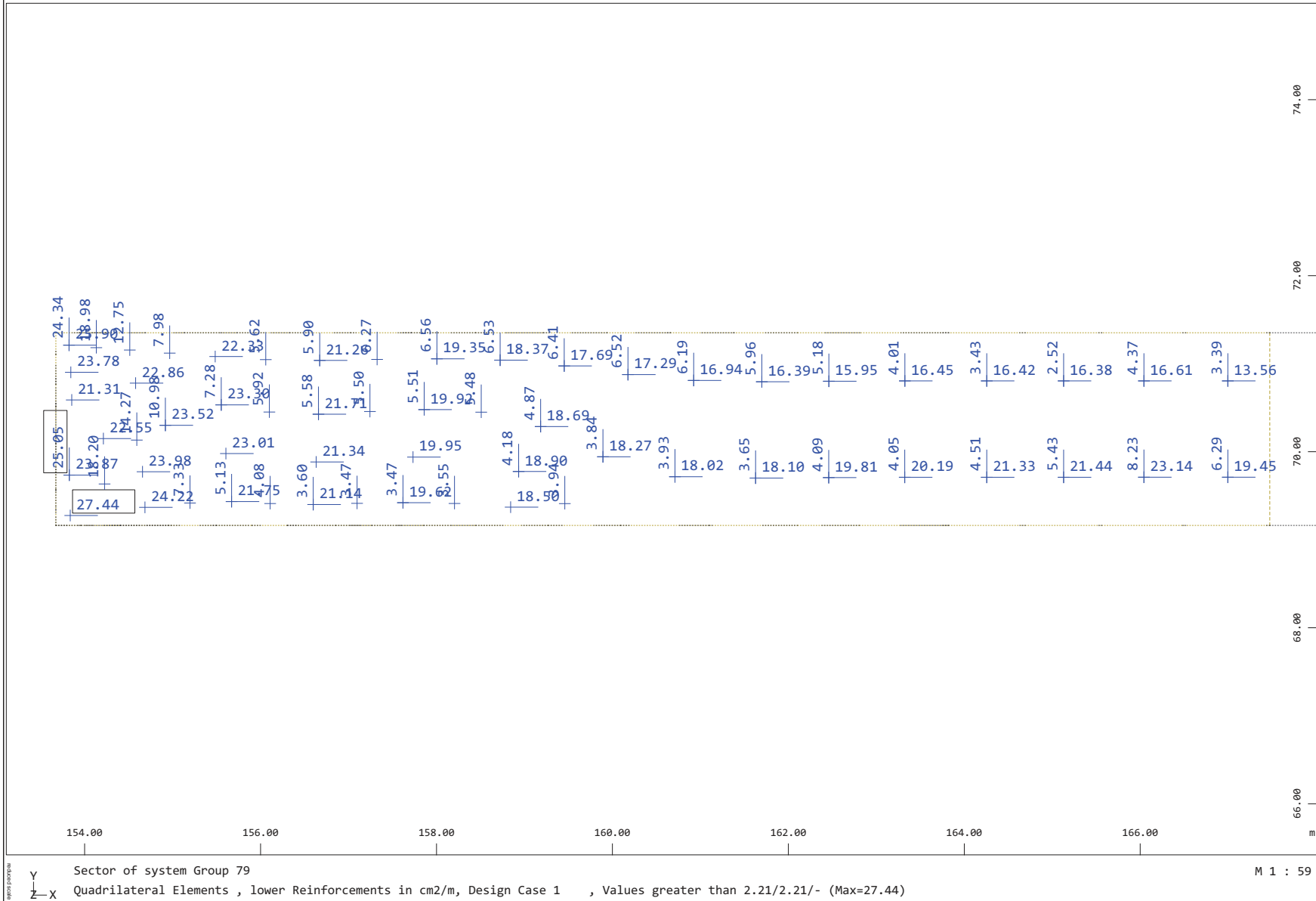


Sector of system Group 39
Quadrilateral Elements , upper Reinforcements in cm2/m, Design Case 1 , Values greater than 6.08/6.08/- (Max=33.83)

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2023-09-09



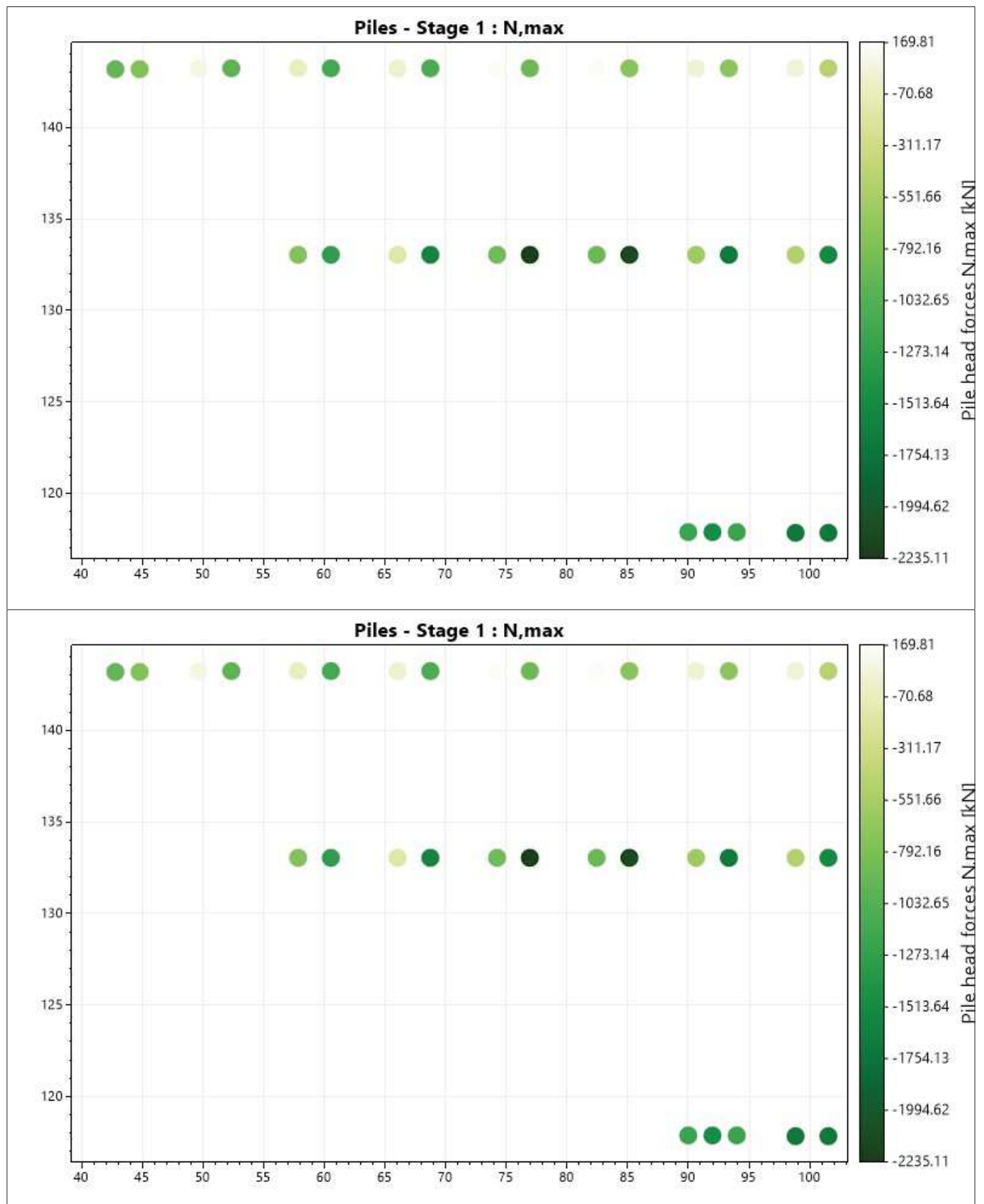






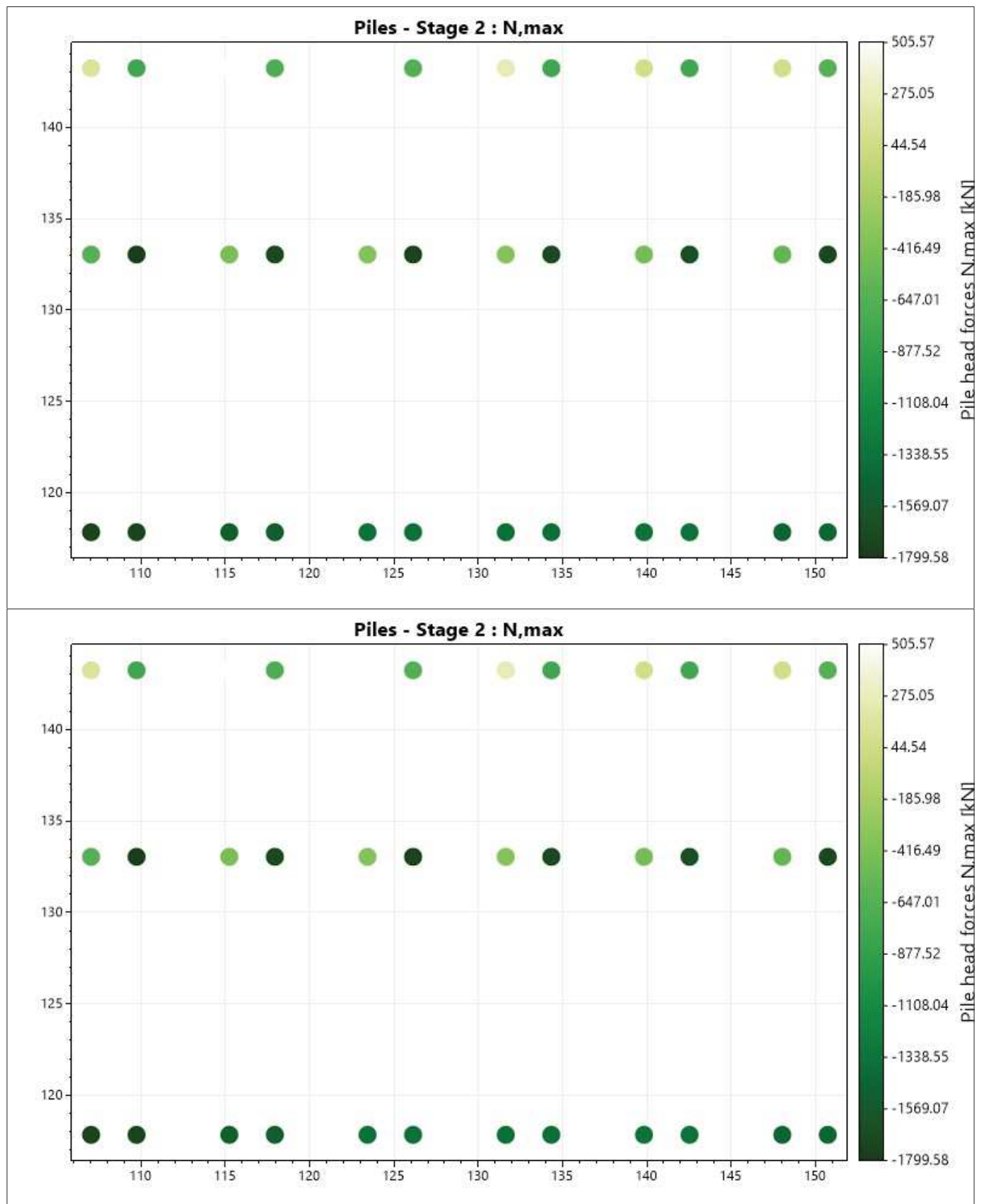
Geometry definition
Pictures

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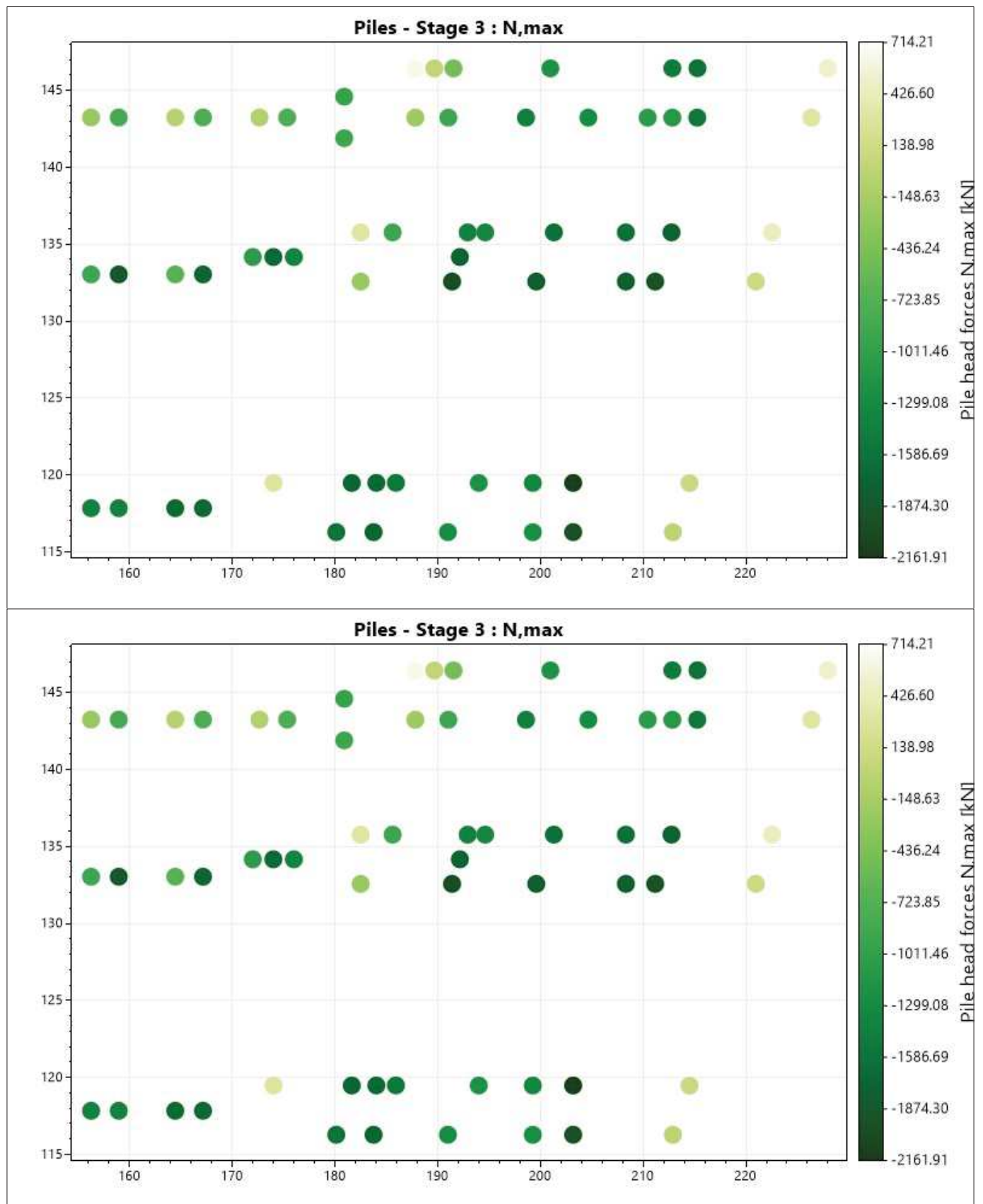
Geometry definition
Pictures

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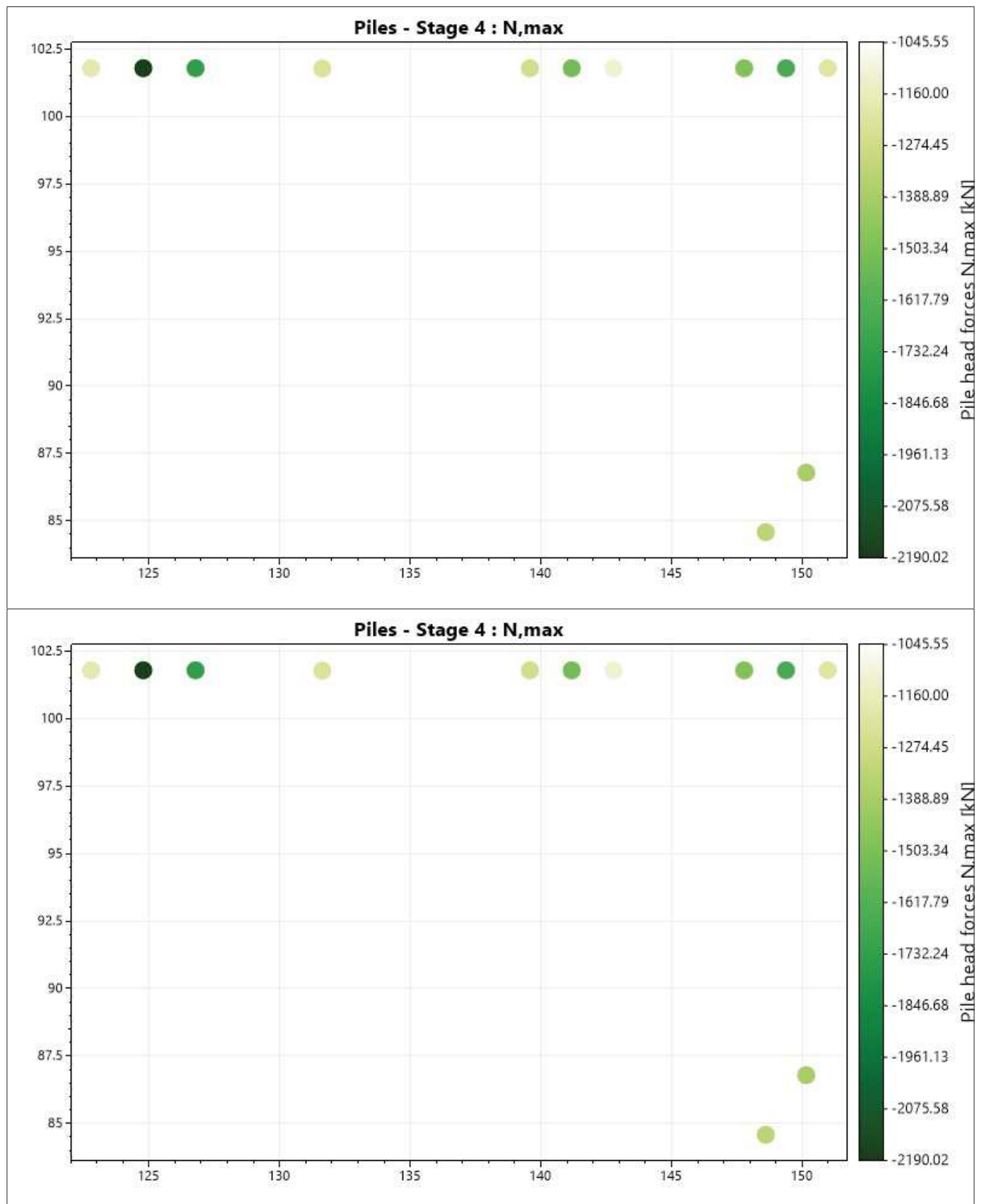
Geometry definition
Pictures

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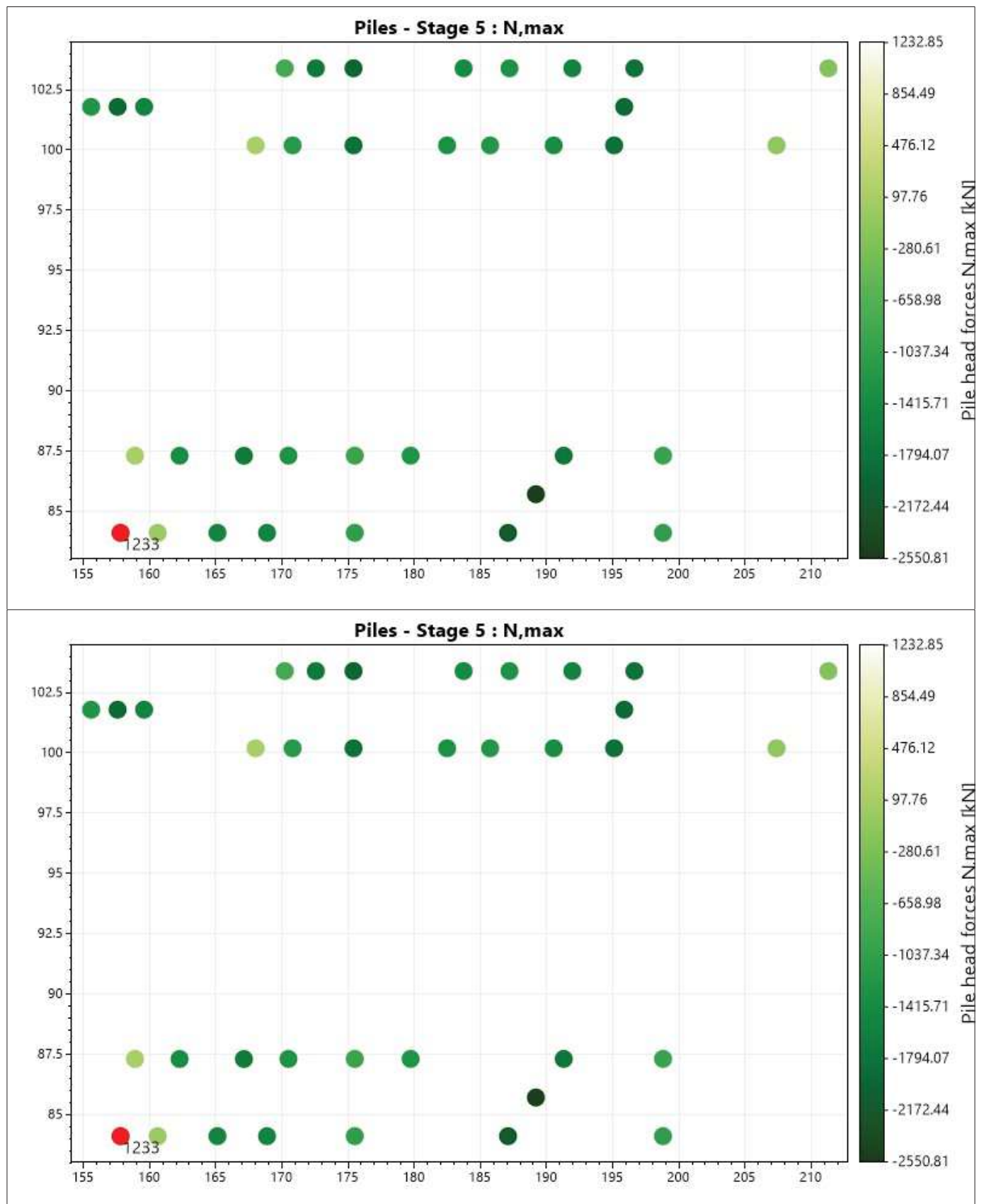
Geometry definition
Pictures

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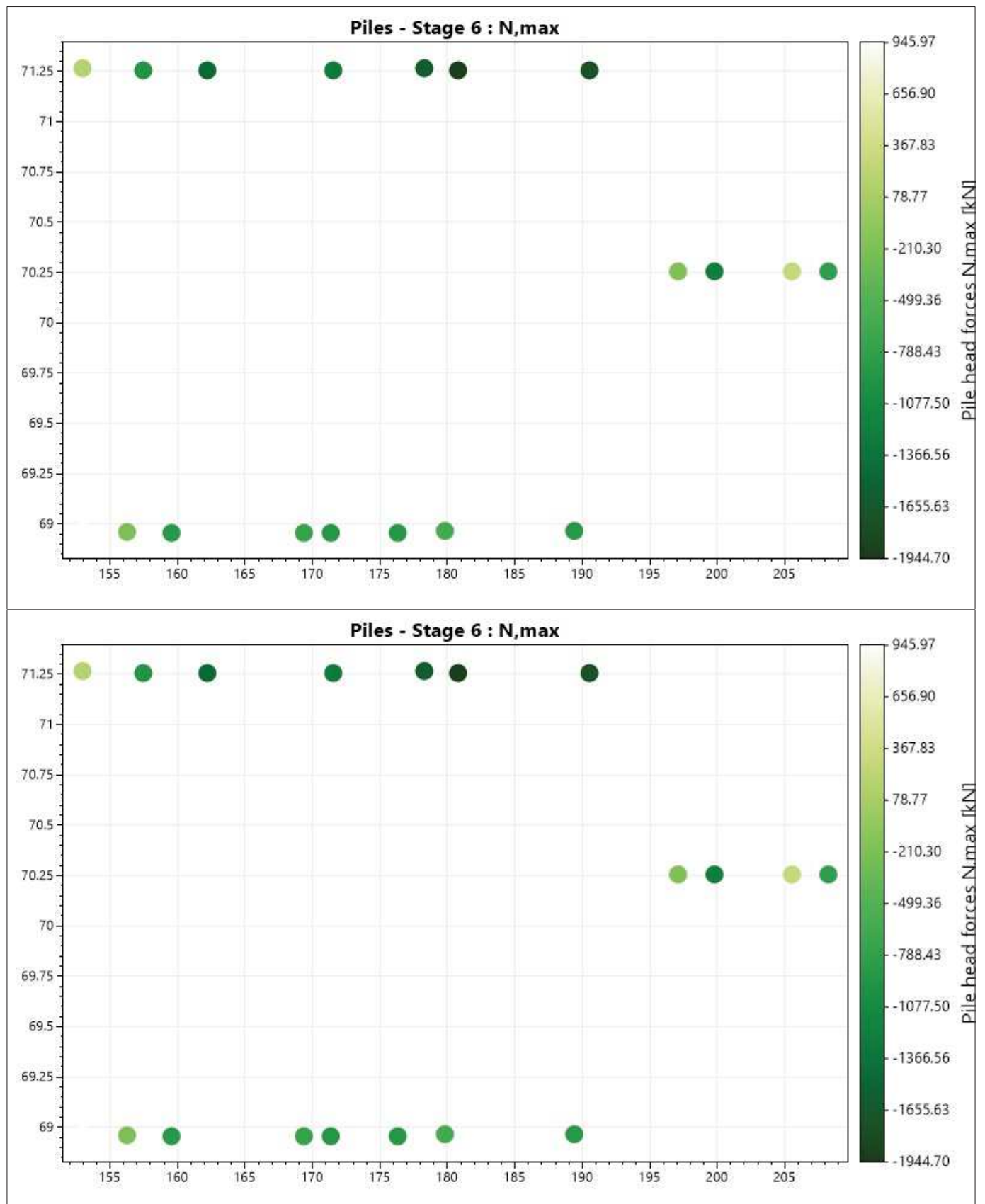
Geometry definition
Pictures

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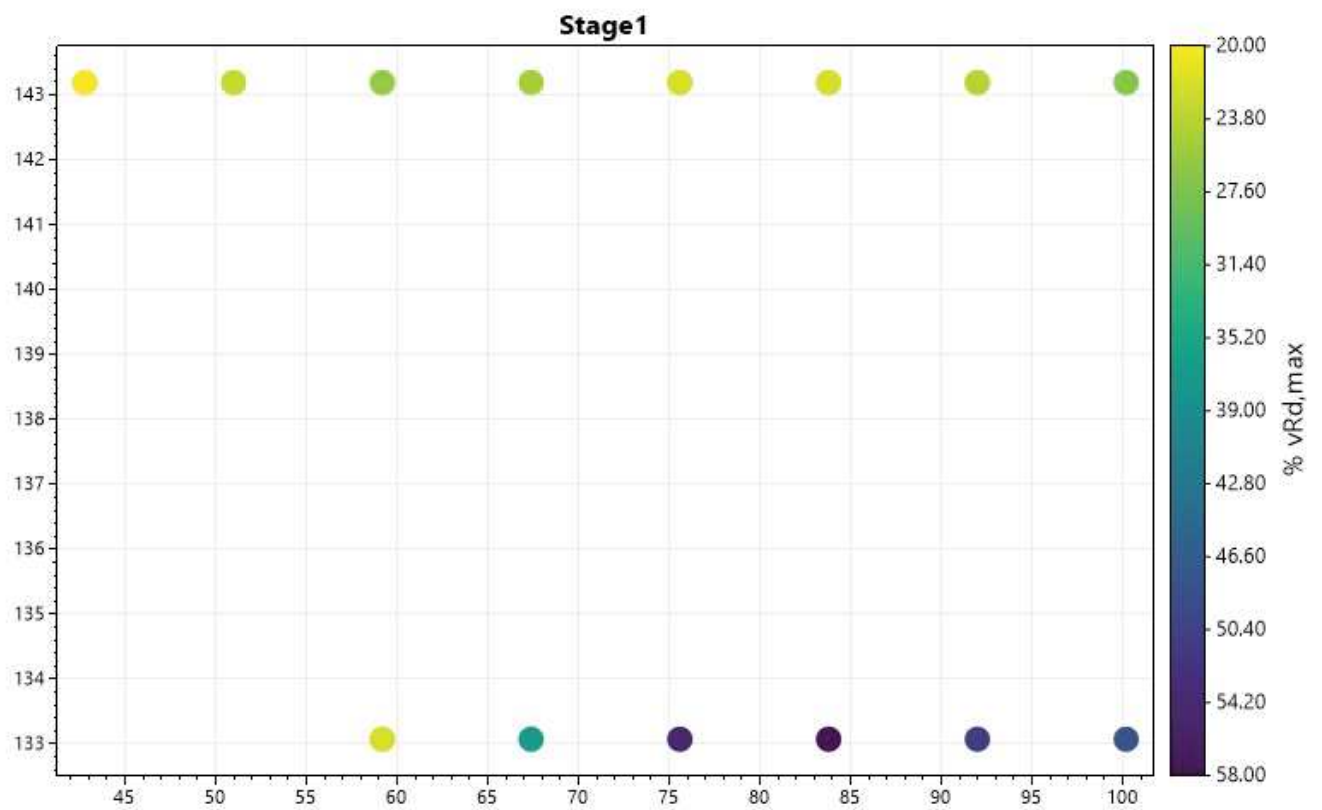
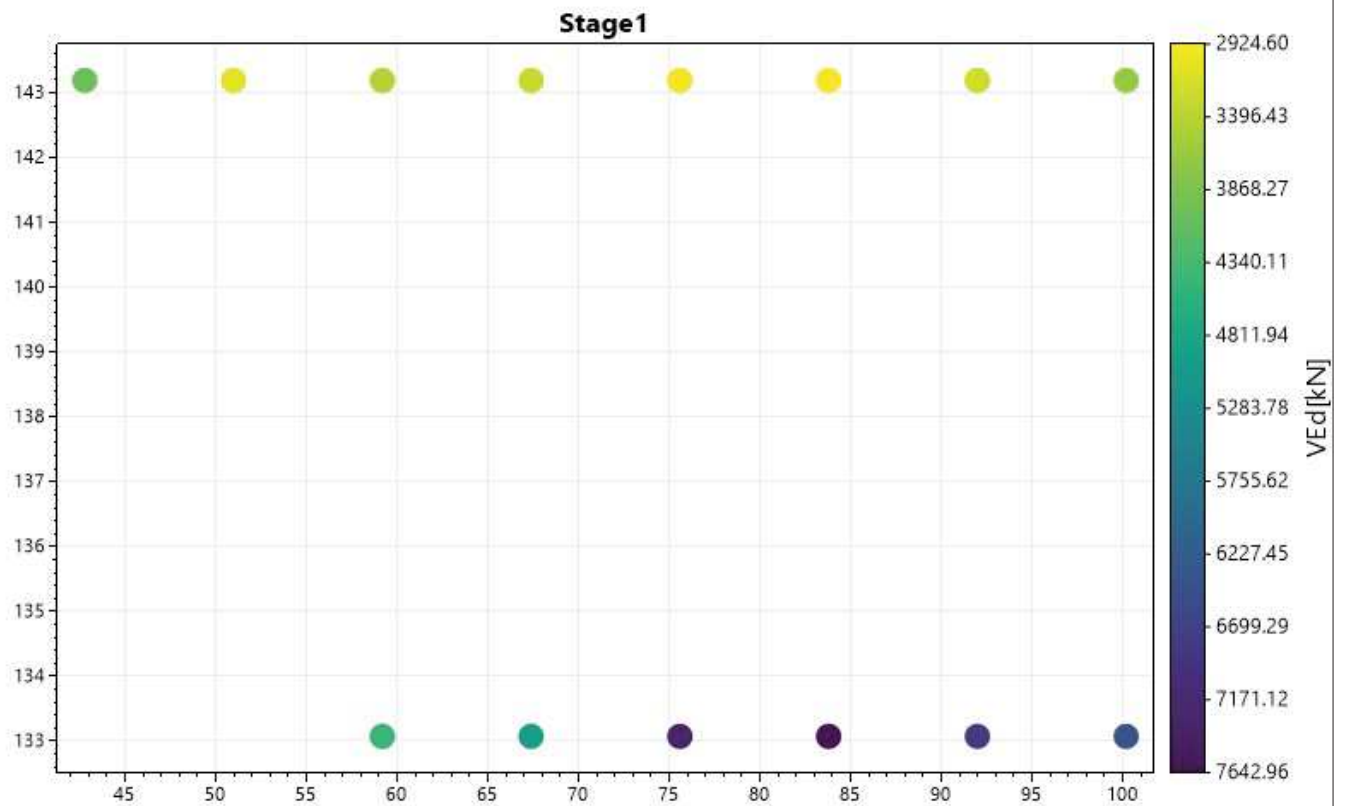
Geometry definition
Pictures

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Geometry definition
Pictures

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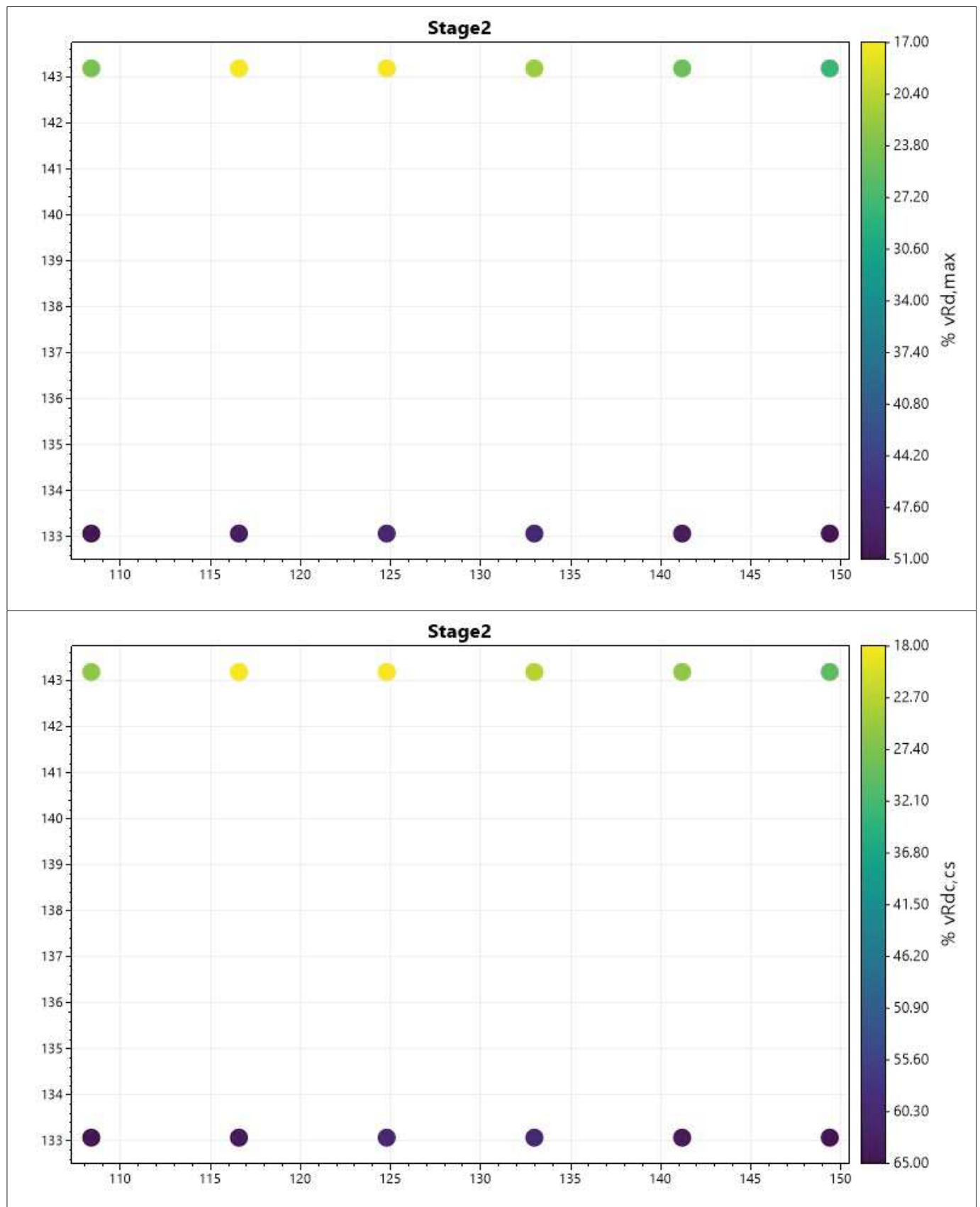


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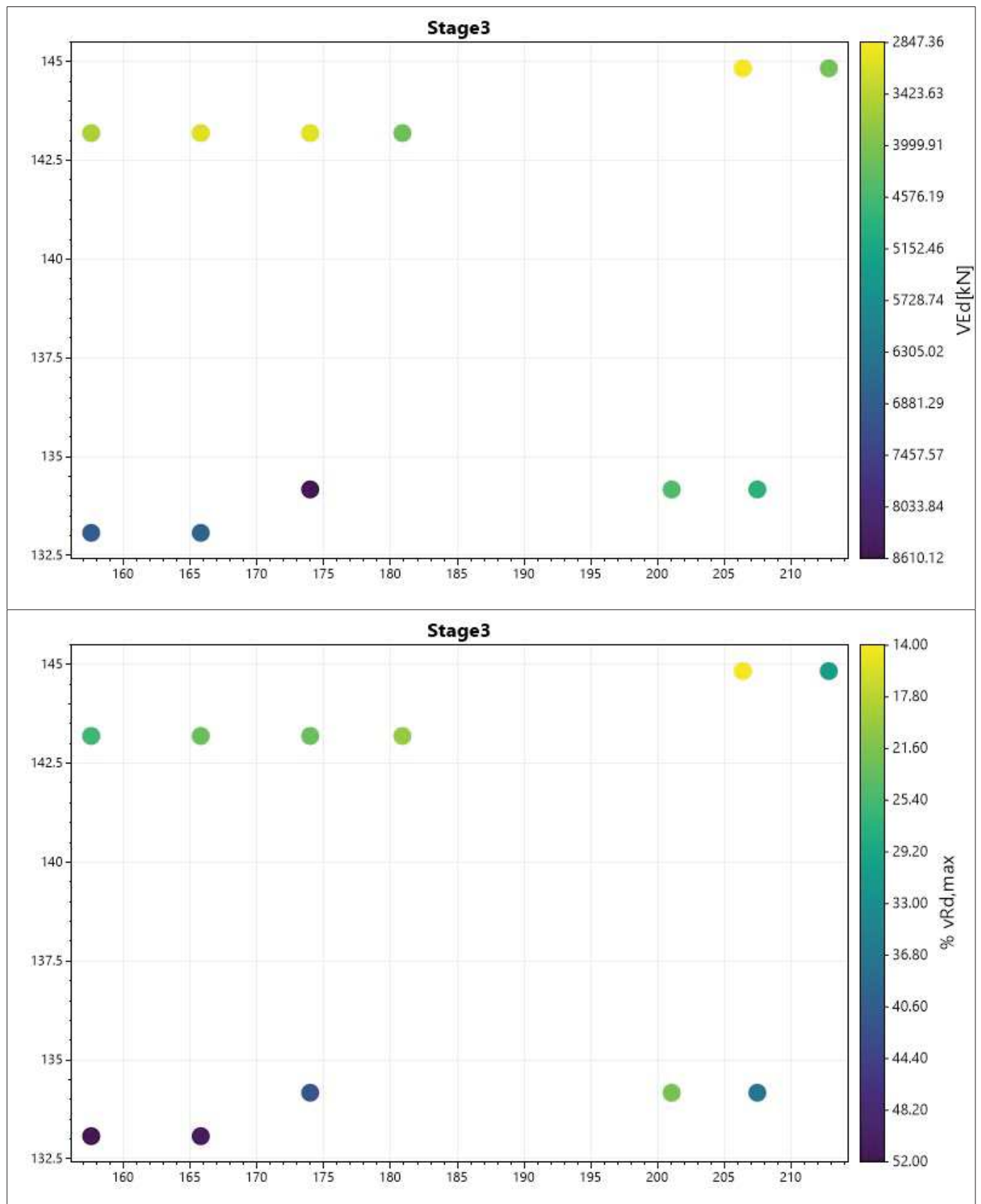
Geometry definition
Pictures

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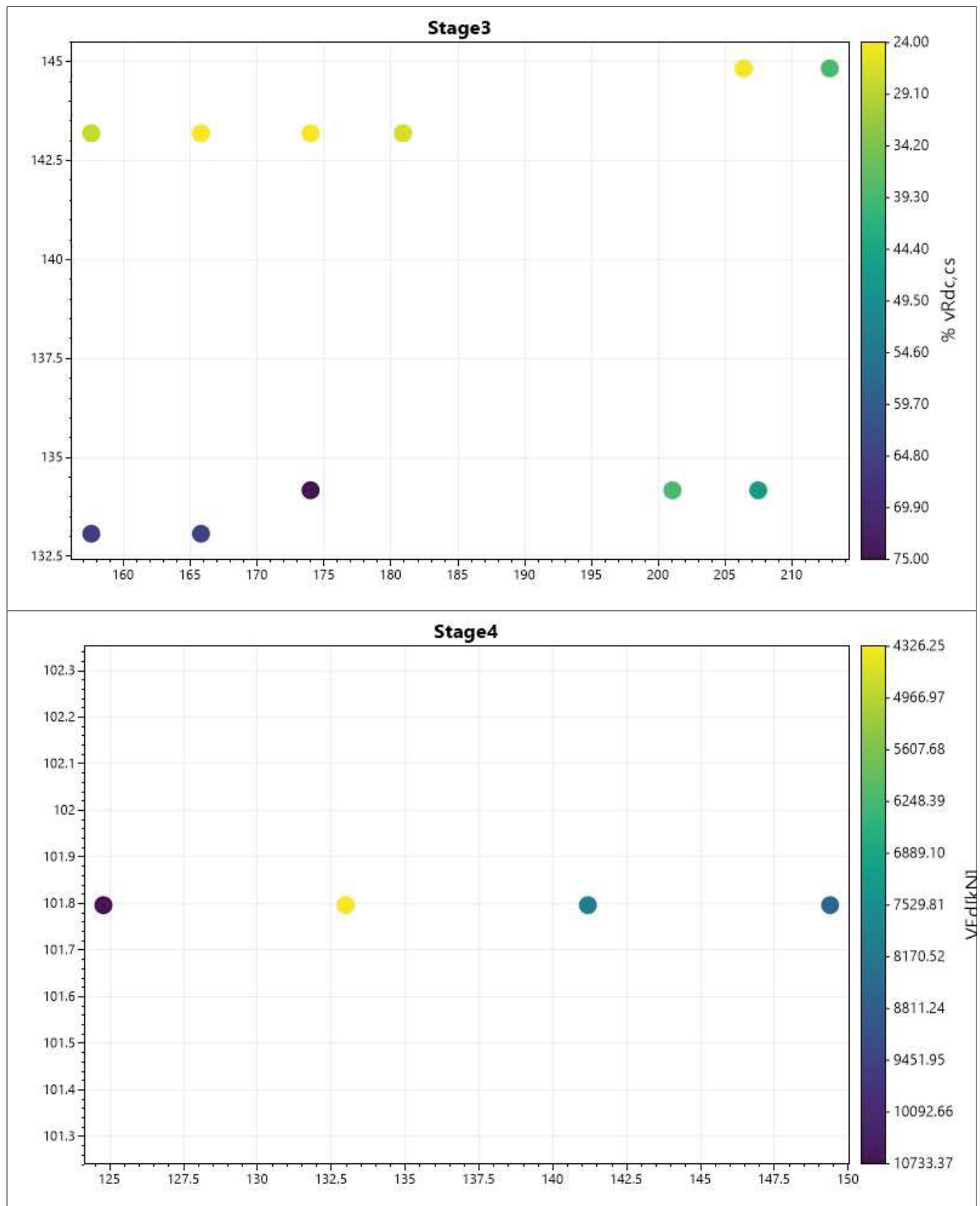
Geometry definition
Pictures

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Geometry definition
Pictures

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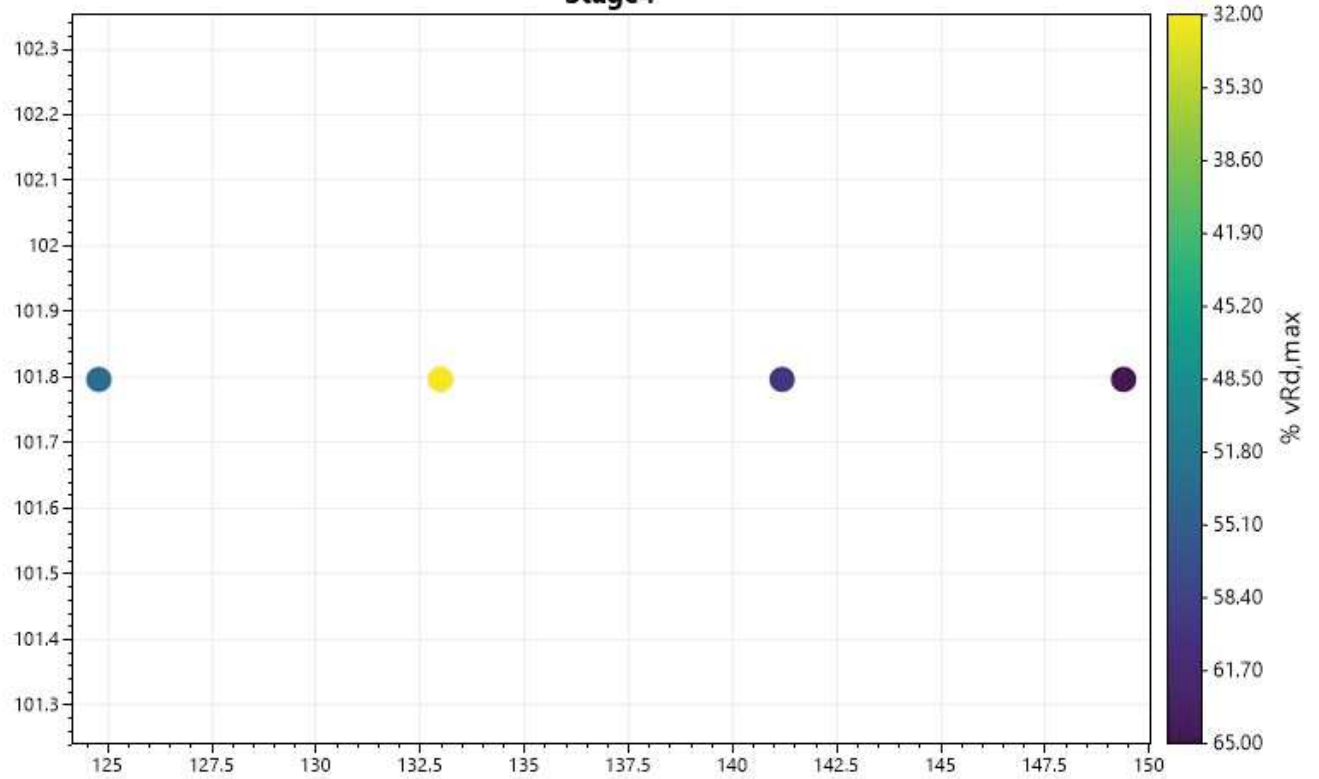


Geometry definition

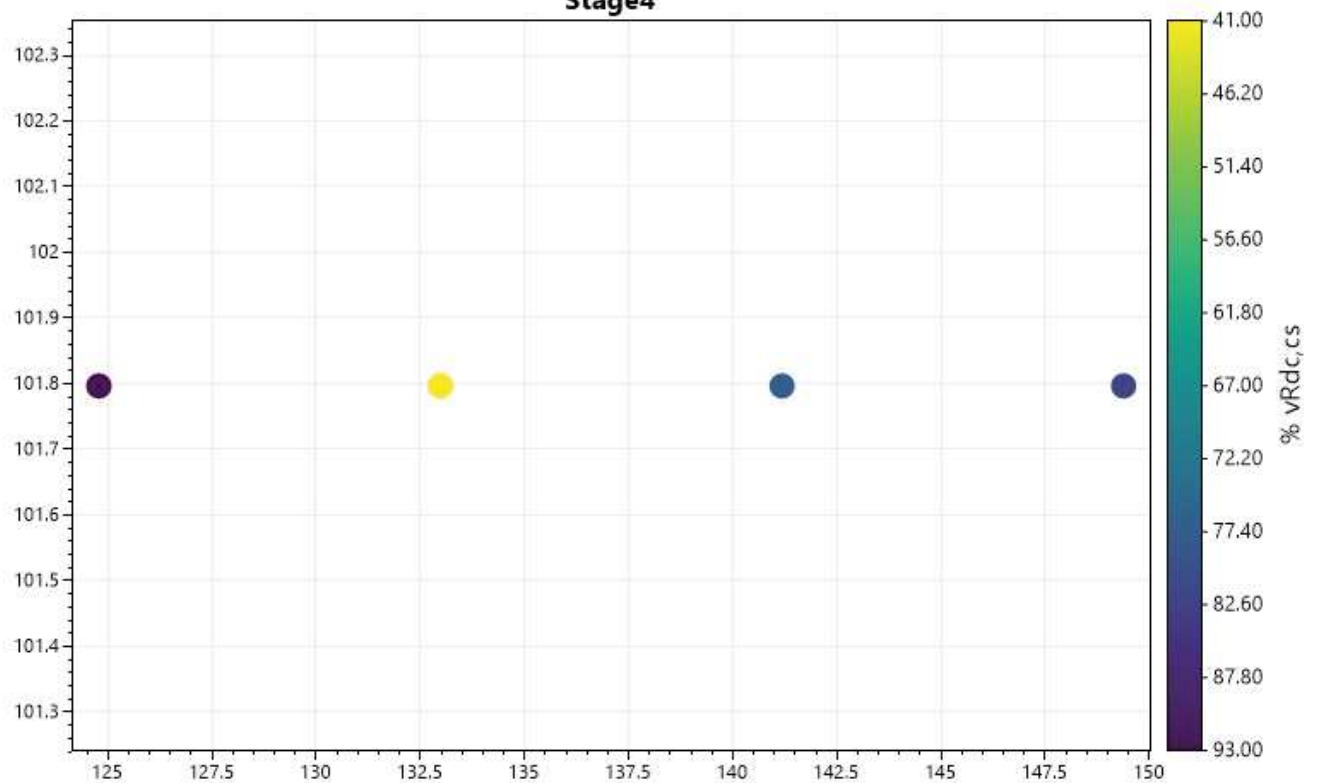
Pictures

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Stage4



Stage4

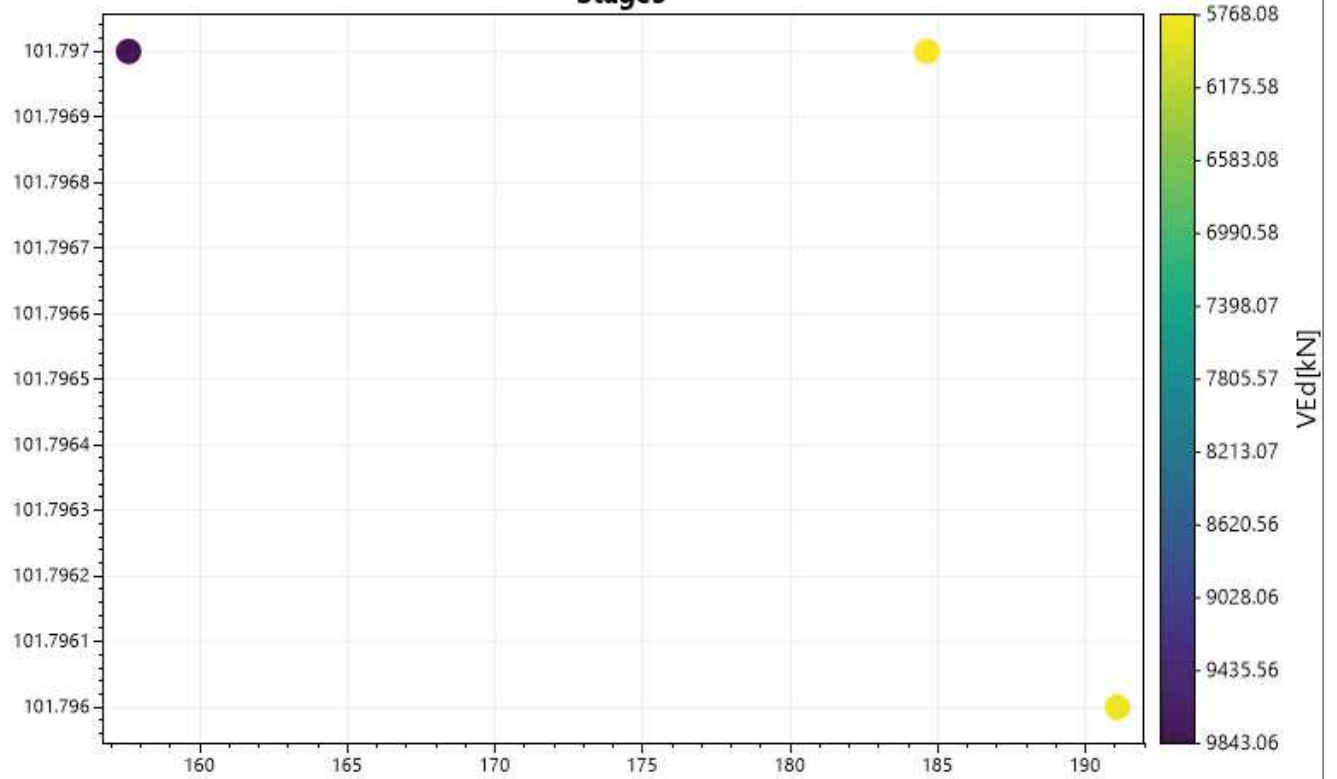


Geometry definition

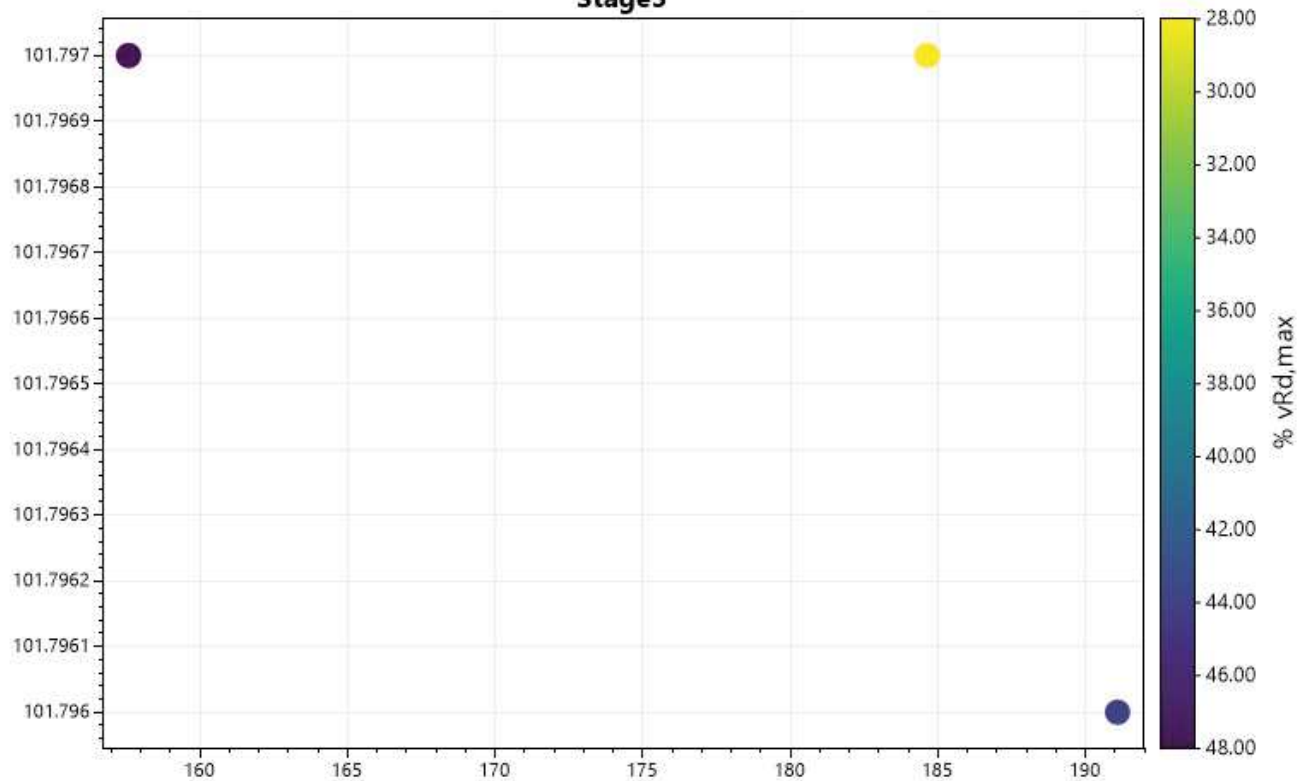
Pictures

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Stage5



Stage5

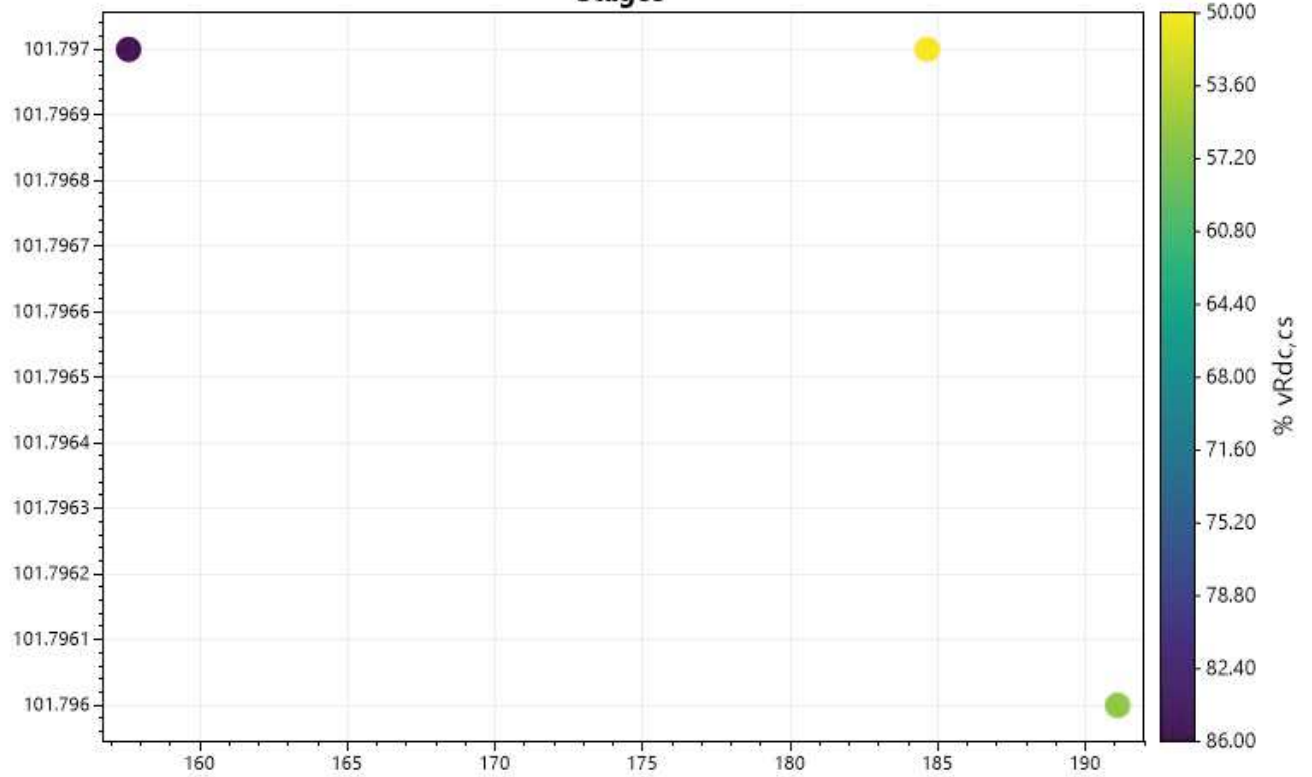


Geometry definition

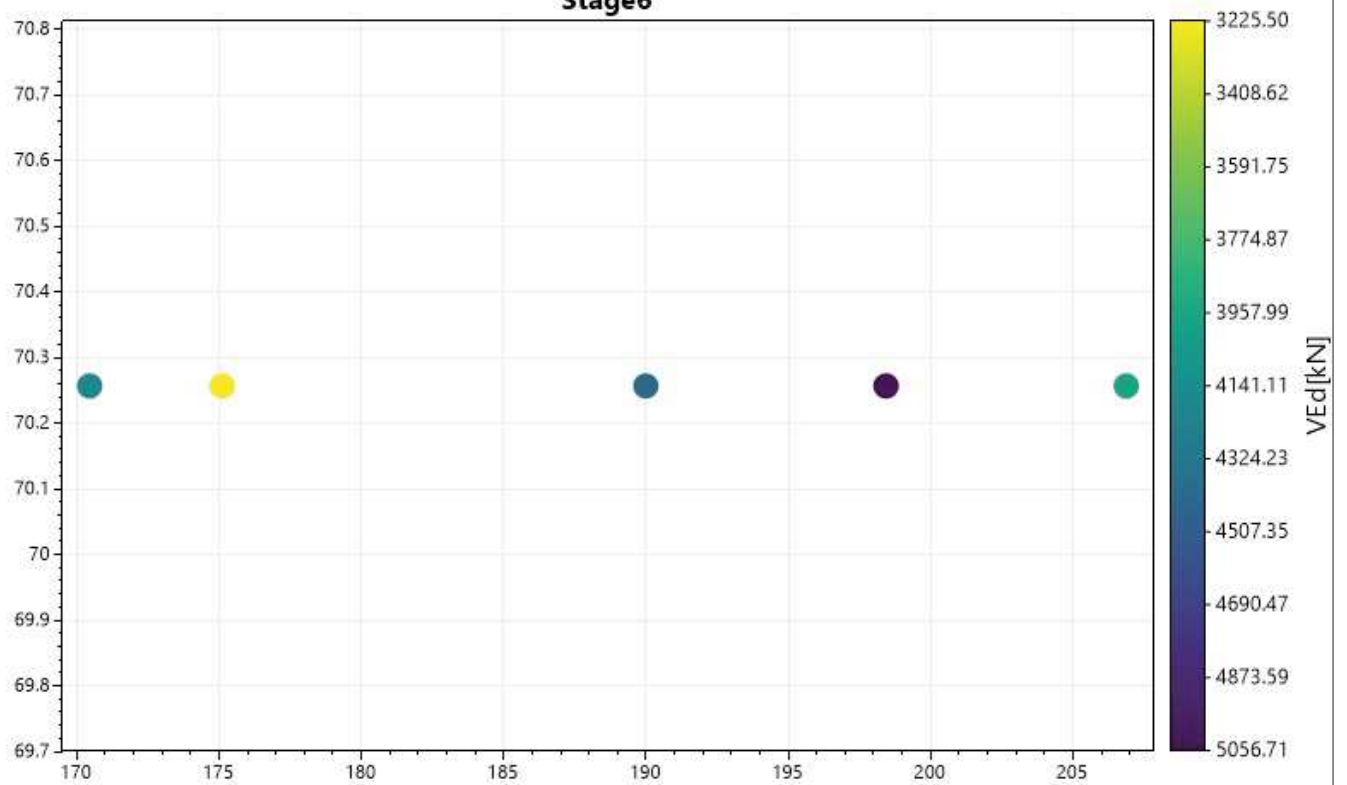
Pictures

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Stage5



Stage6

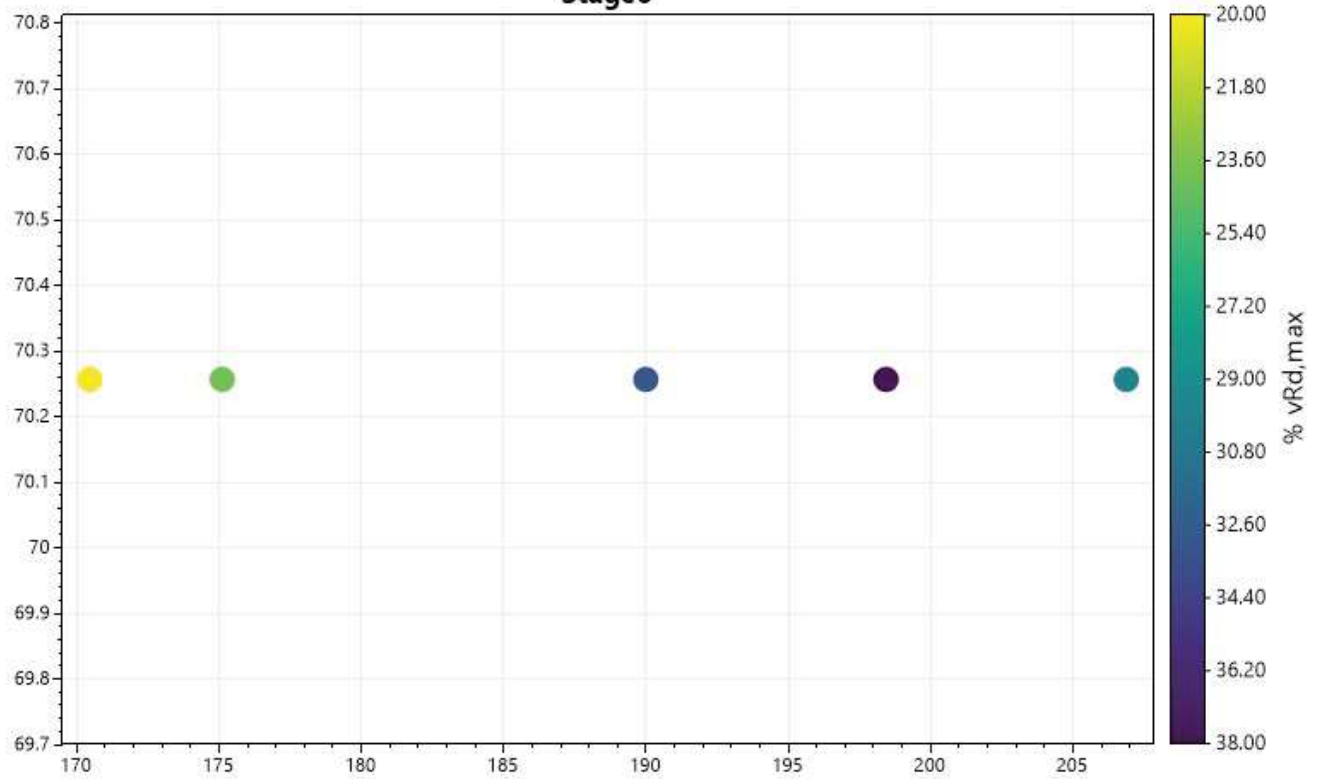


Geometry definition

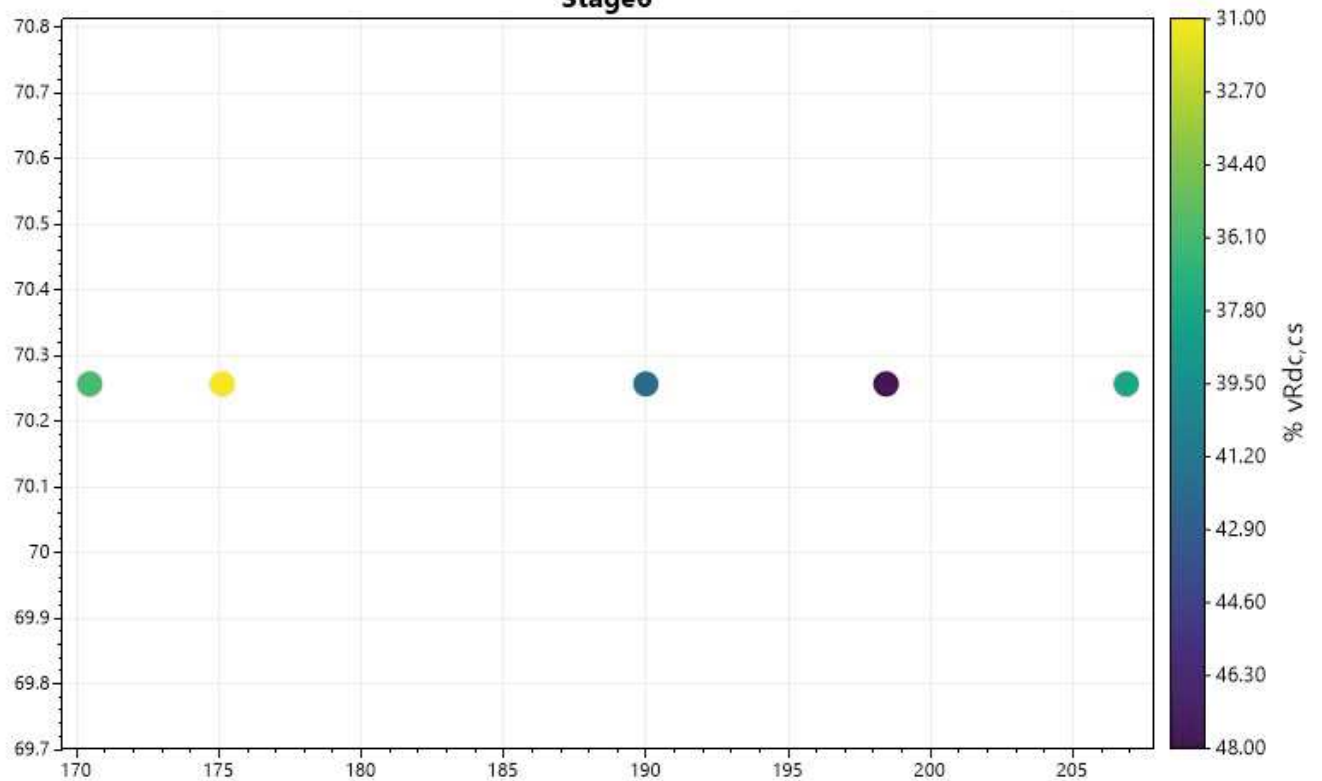
Pictures

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Stage6



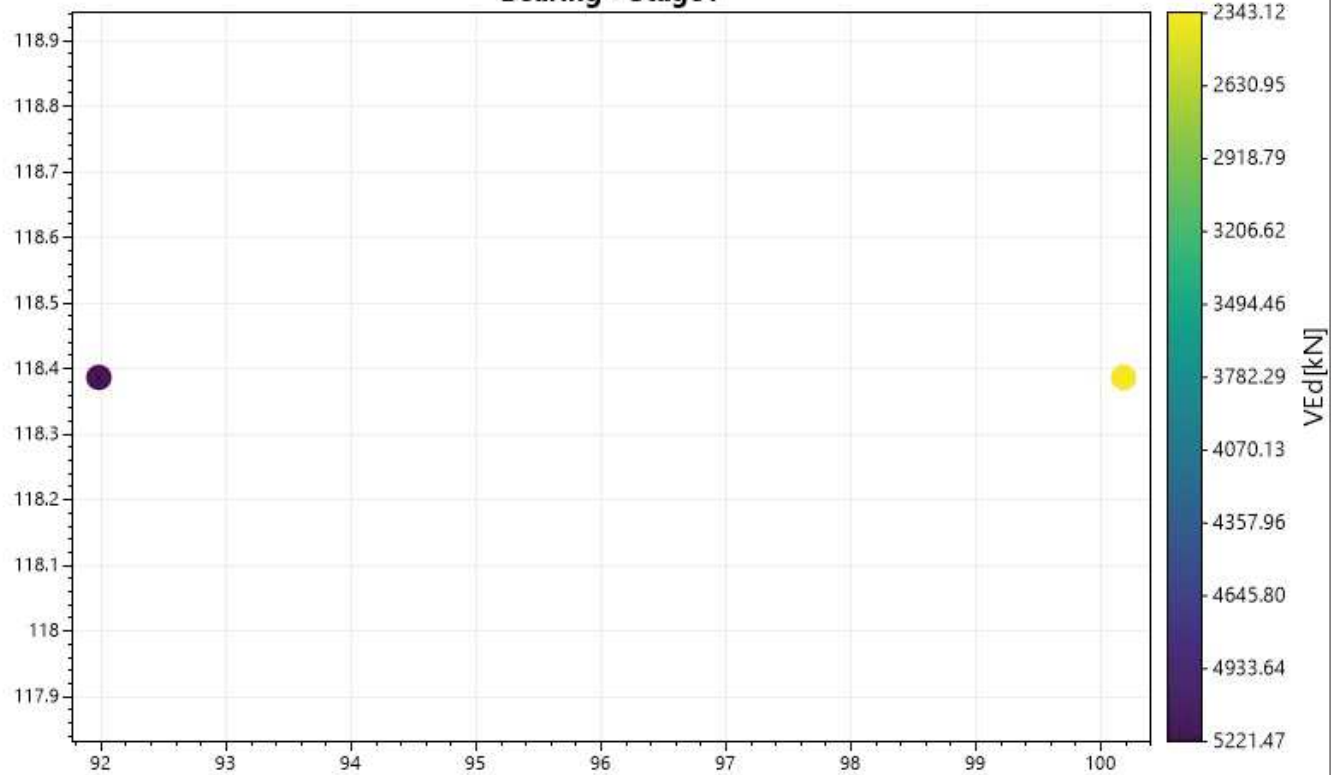
Stage6



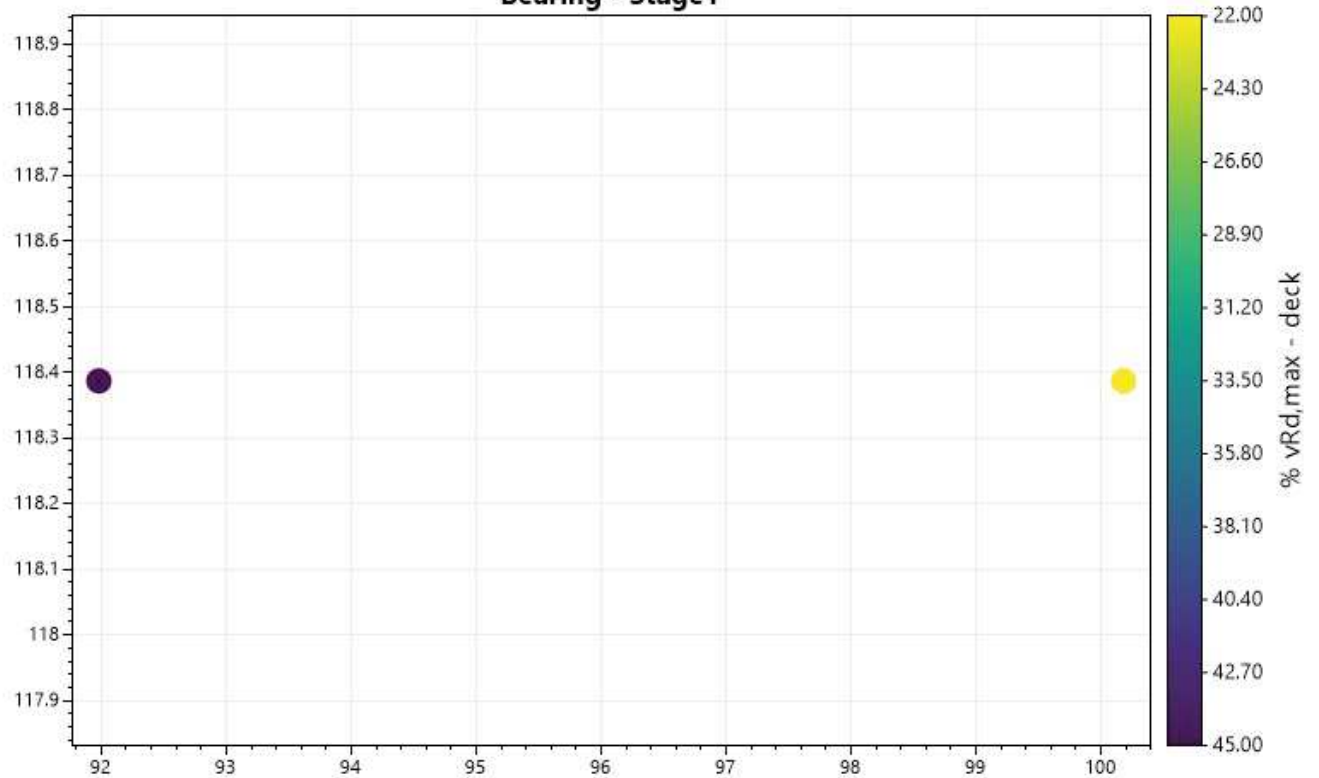
Geometry definition
Pictures

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Bearing - Stage1



Bearing - Stage1

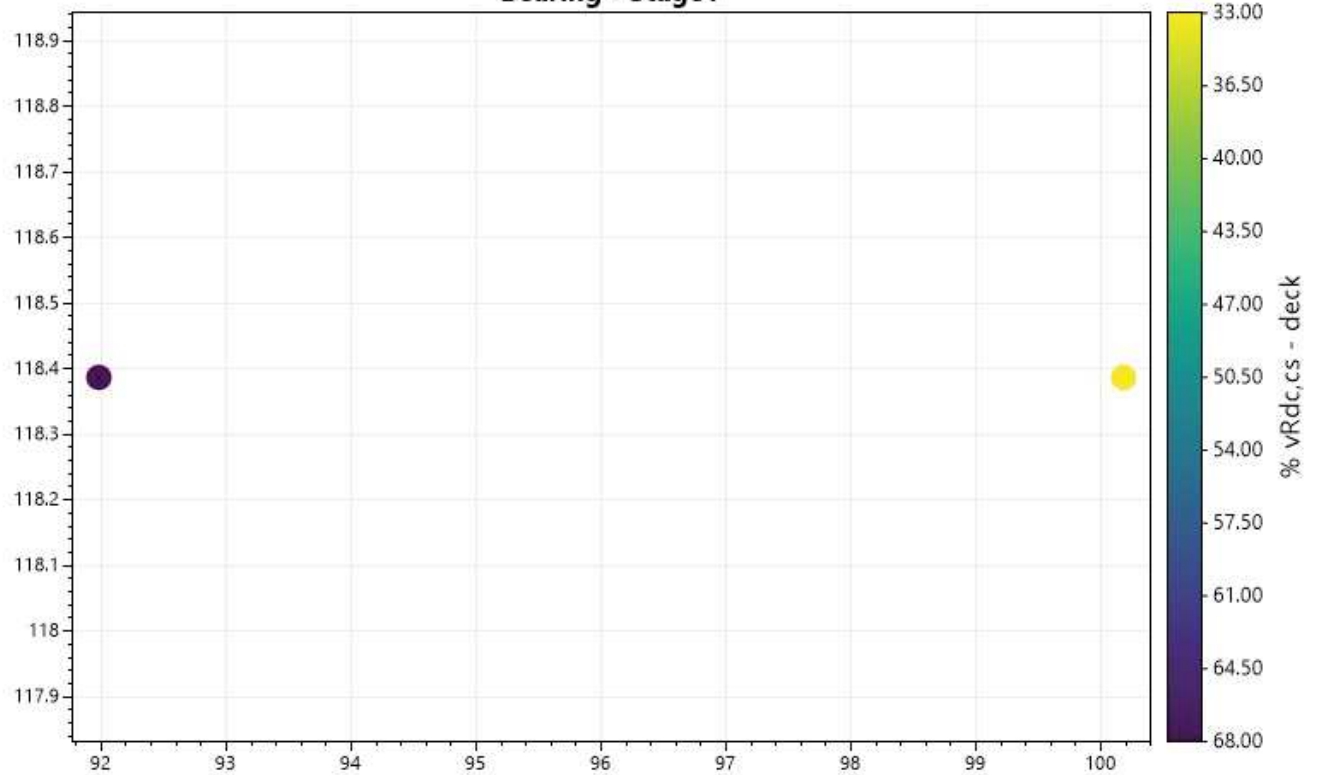


Geometry definition

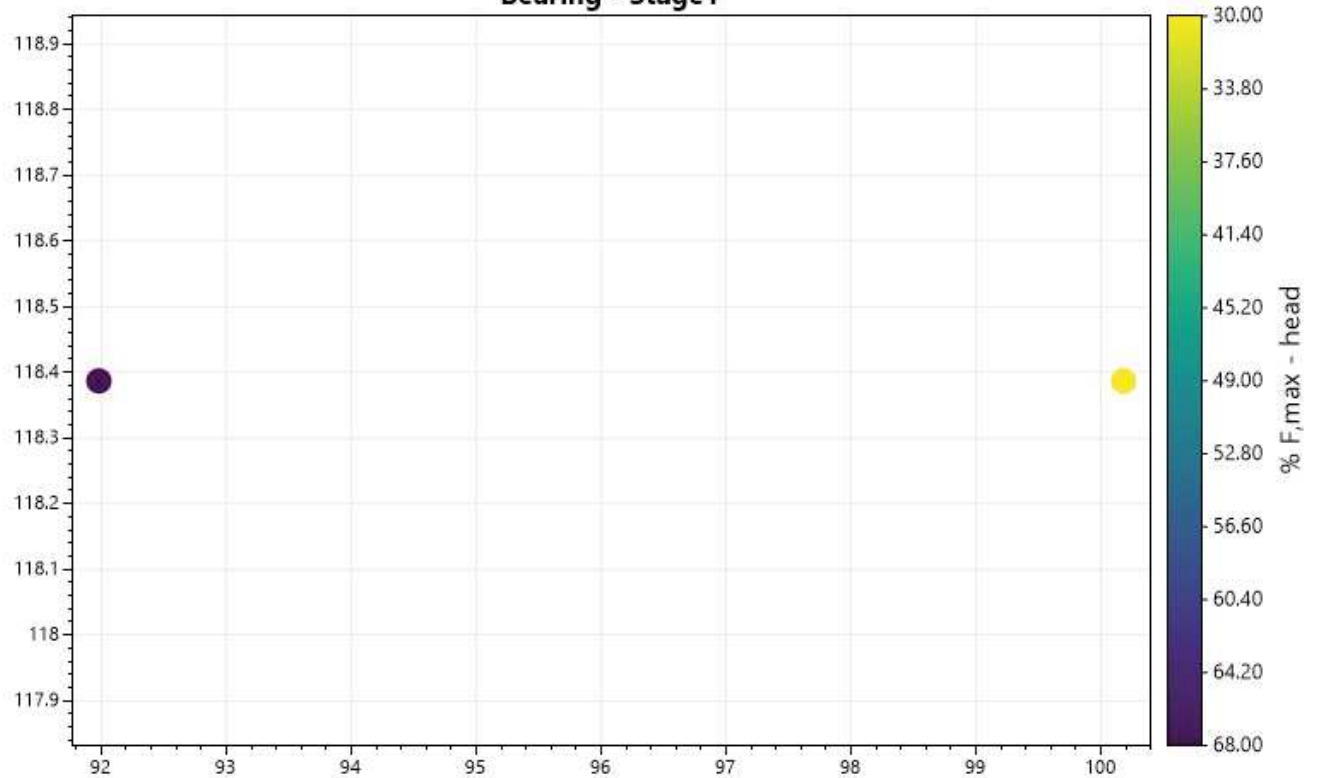
Pictures

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Bearing - Stage1



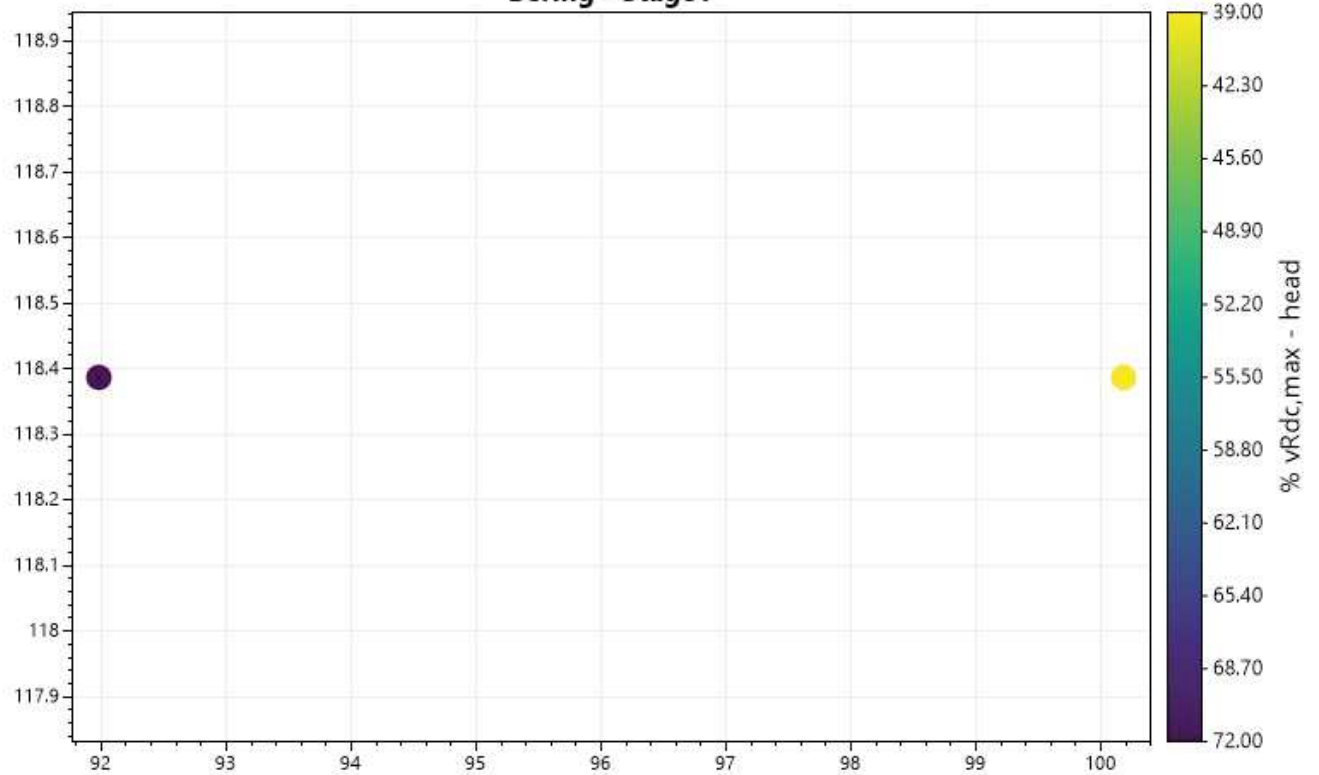
Bearing - Stage1



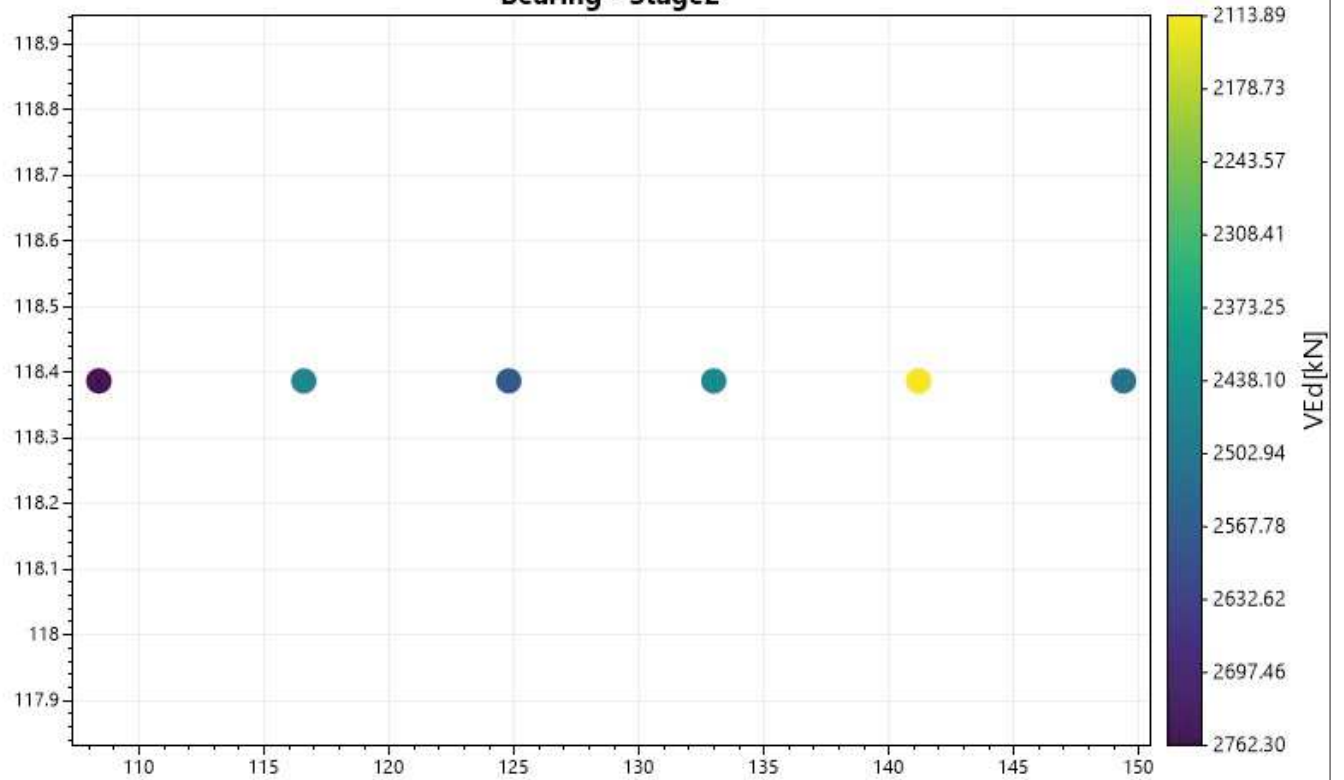
Geometry definition
Pictures

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Bering - Stage1



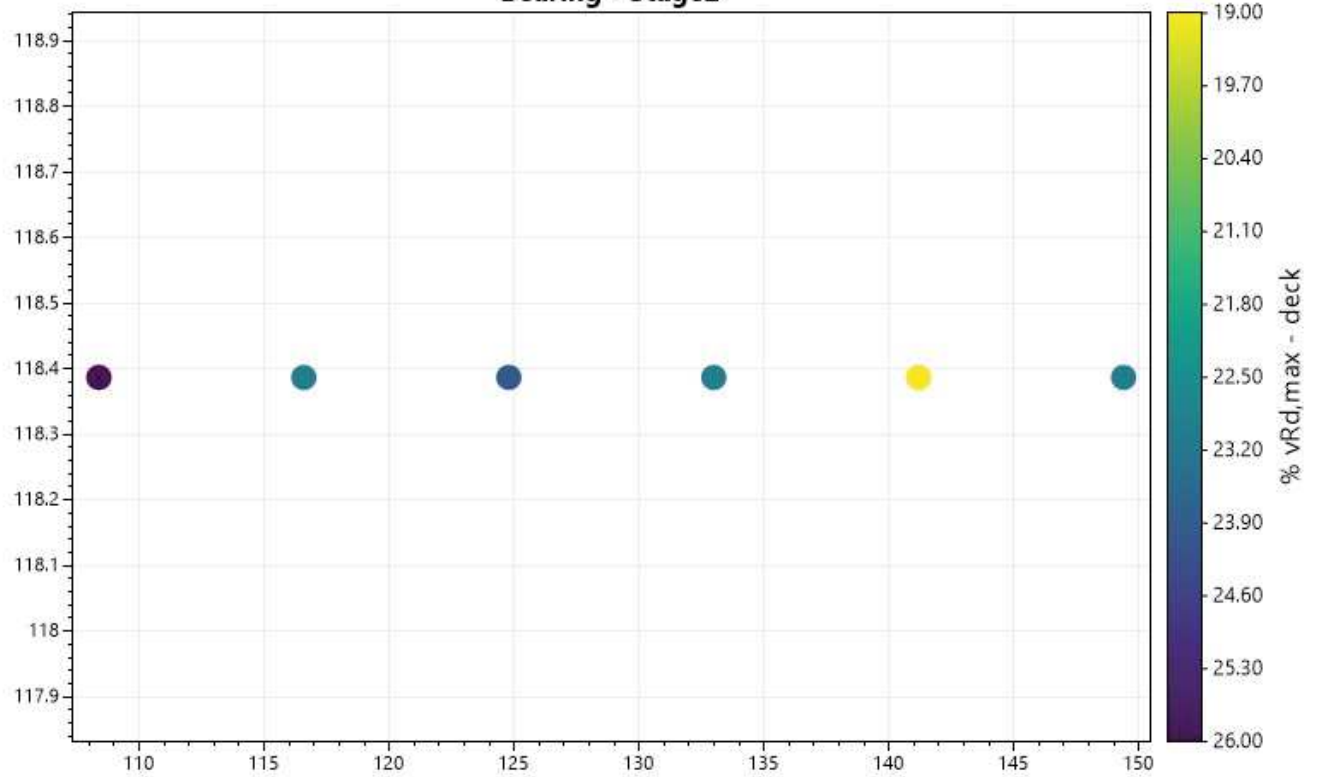
Bearing - Stage2



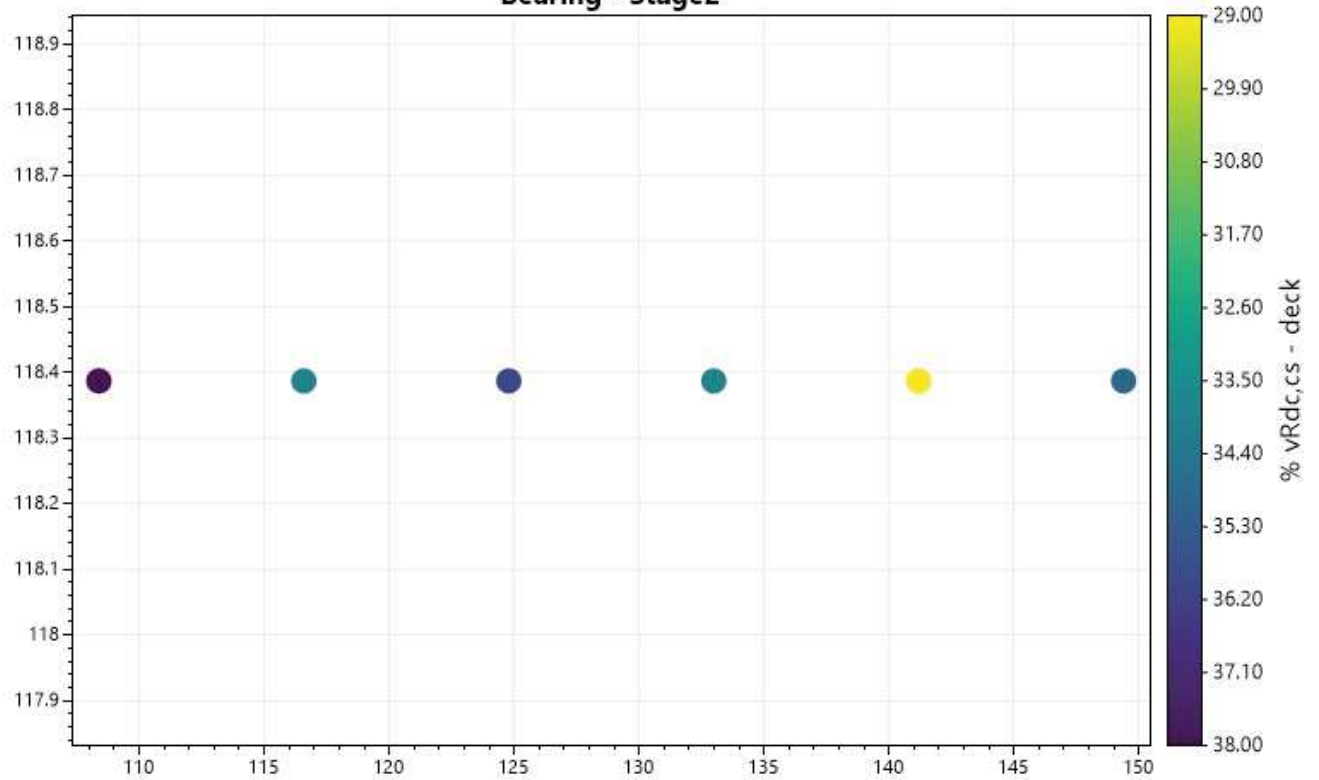
Geometry definition
Pictures

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Bearing - Stage2



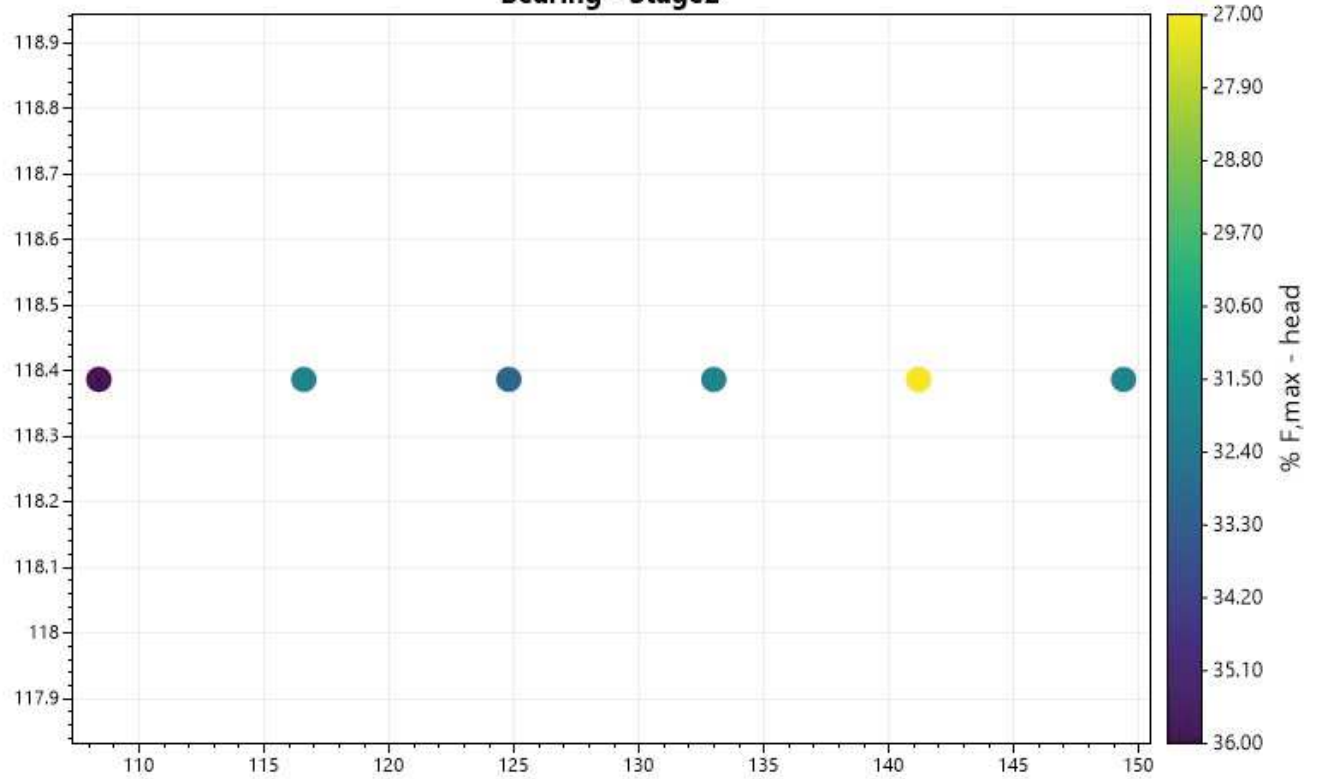
Bearing - Stage2



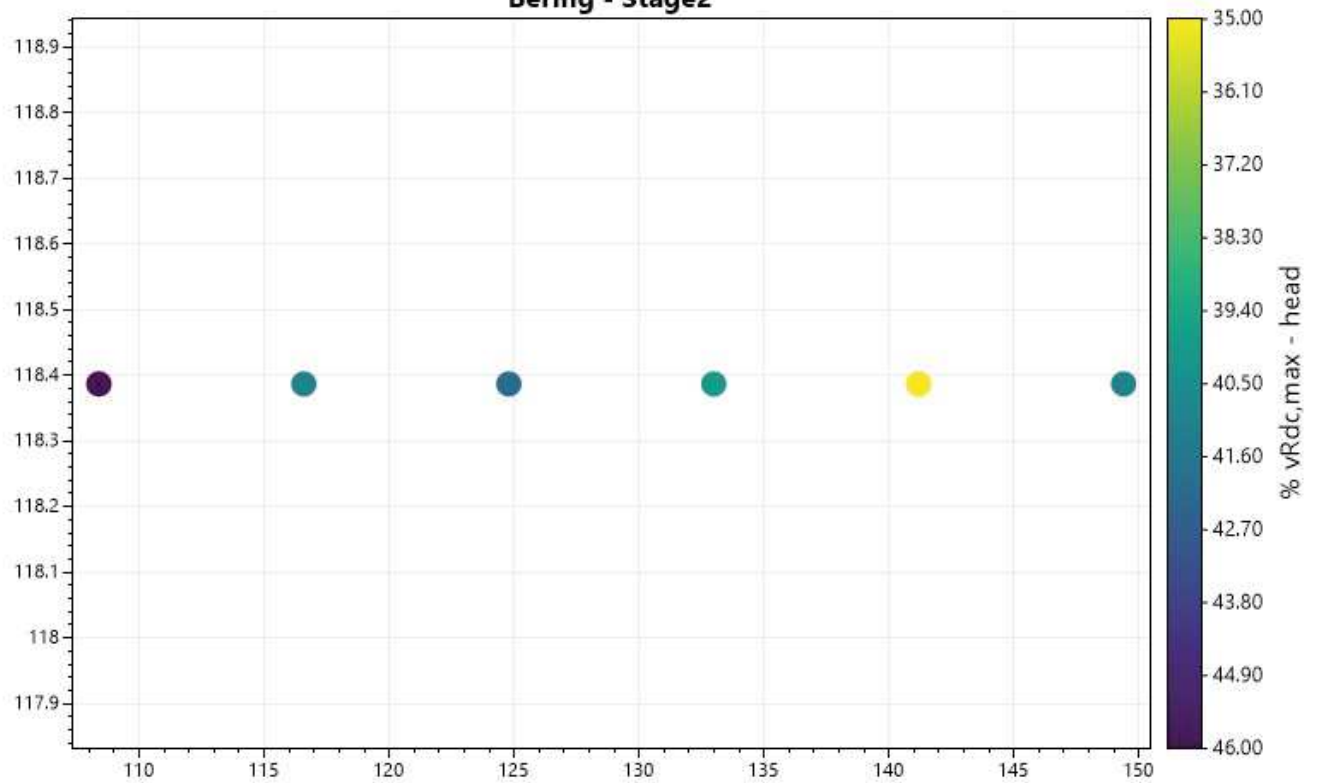
Geometry definition
Pictures

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Bearing - Stage2



Bering - Stage2

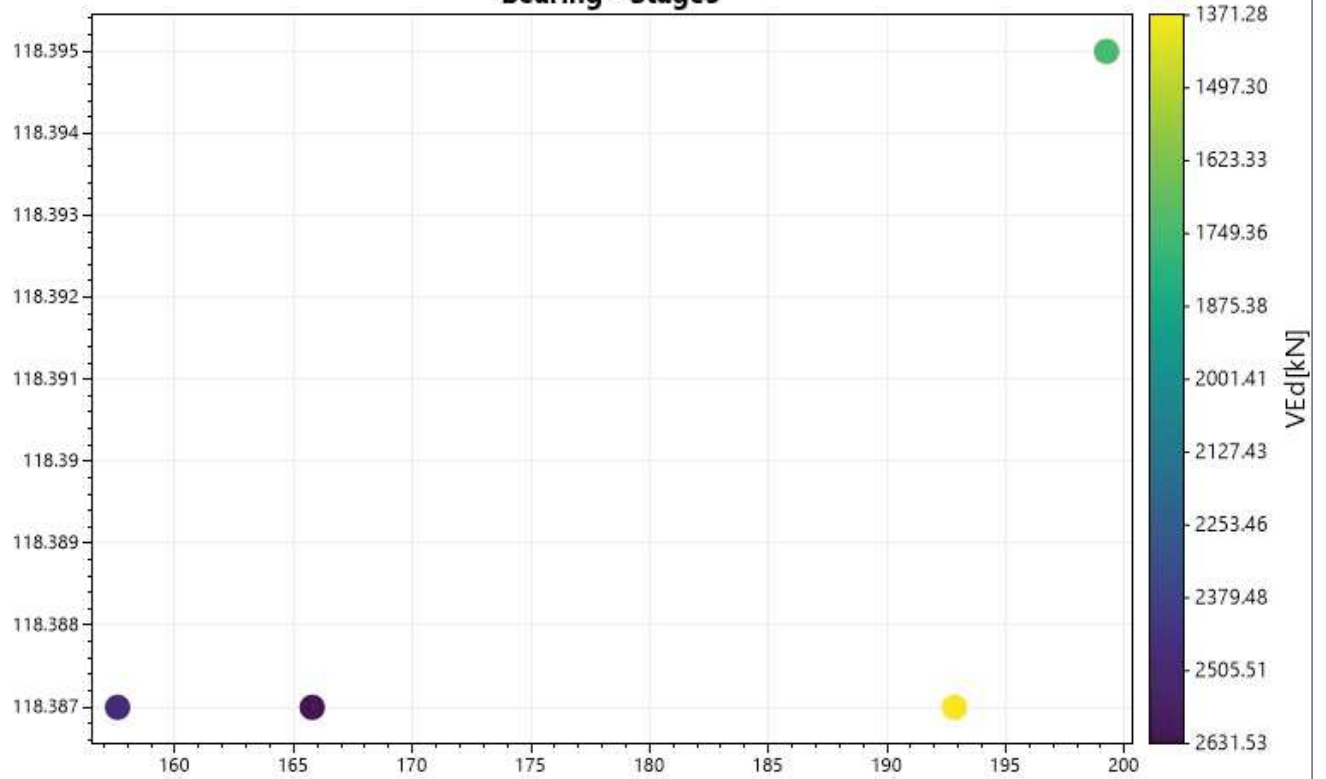


Geometry definition

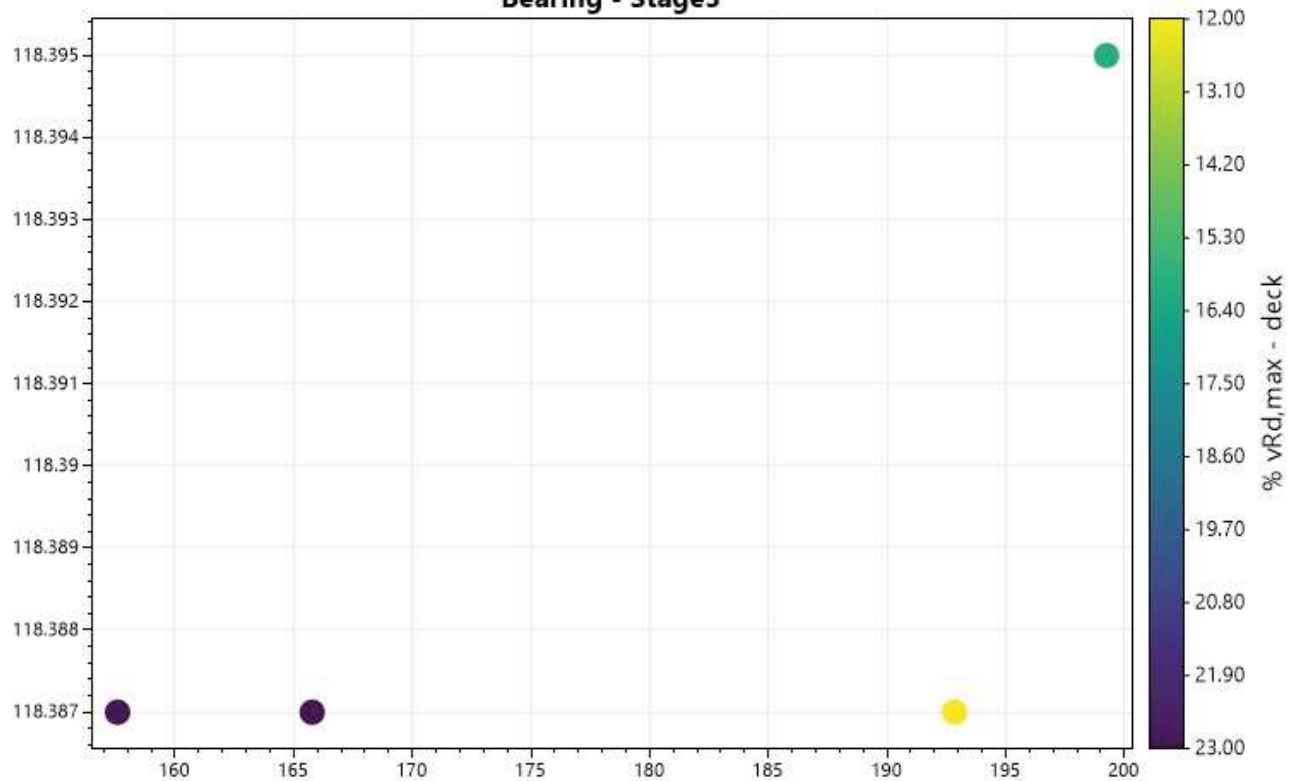
Pictures

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Bearing - Stage3



Bearing - Stage3

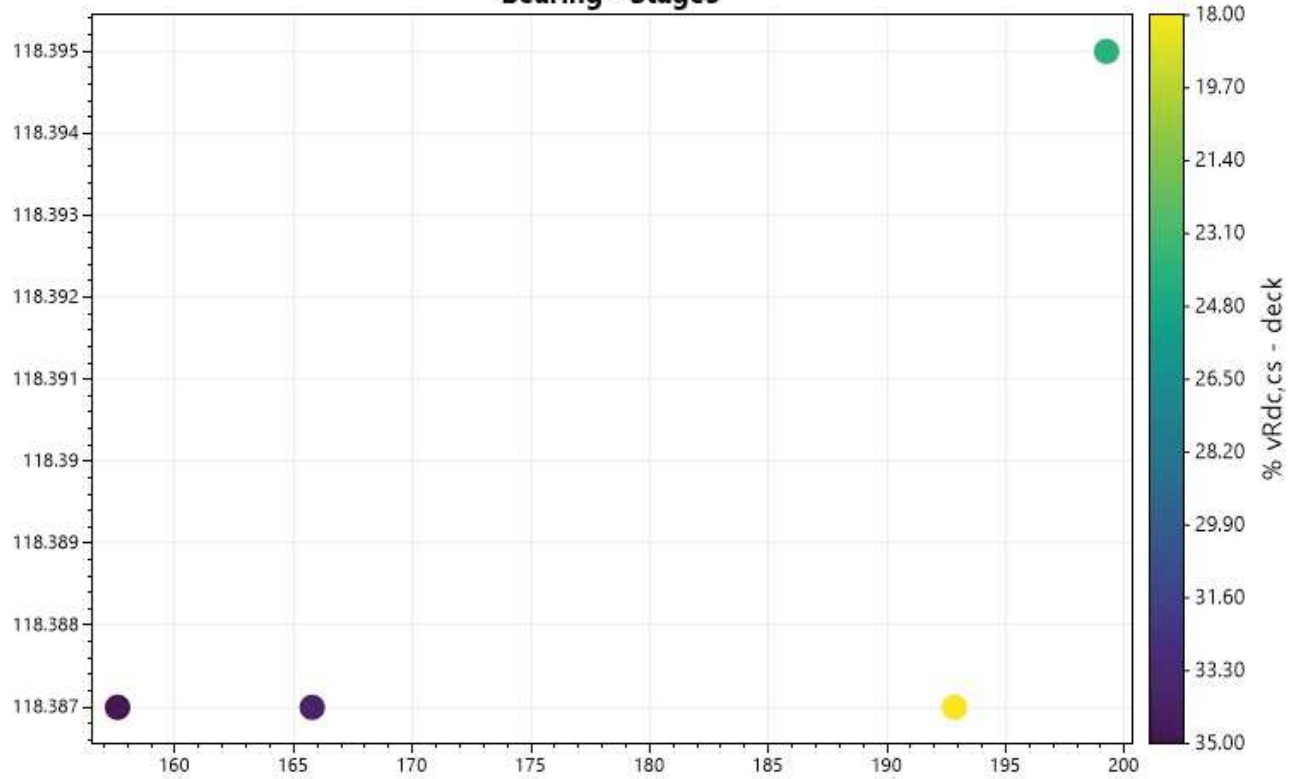


Geometry definition

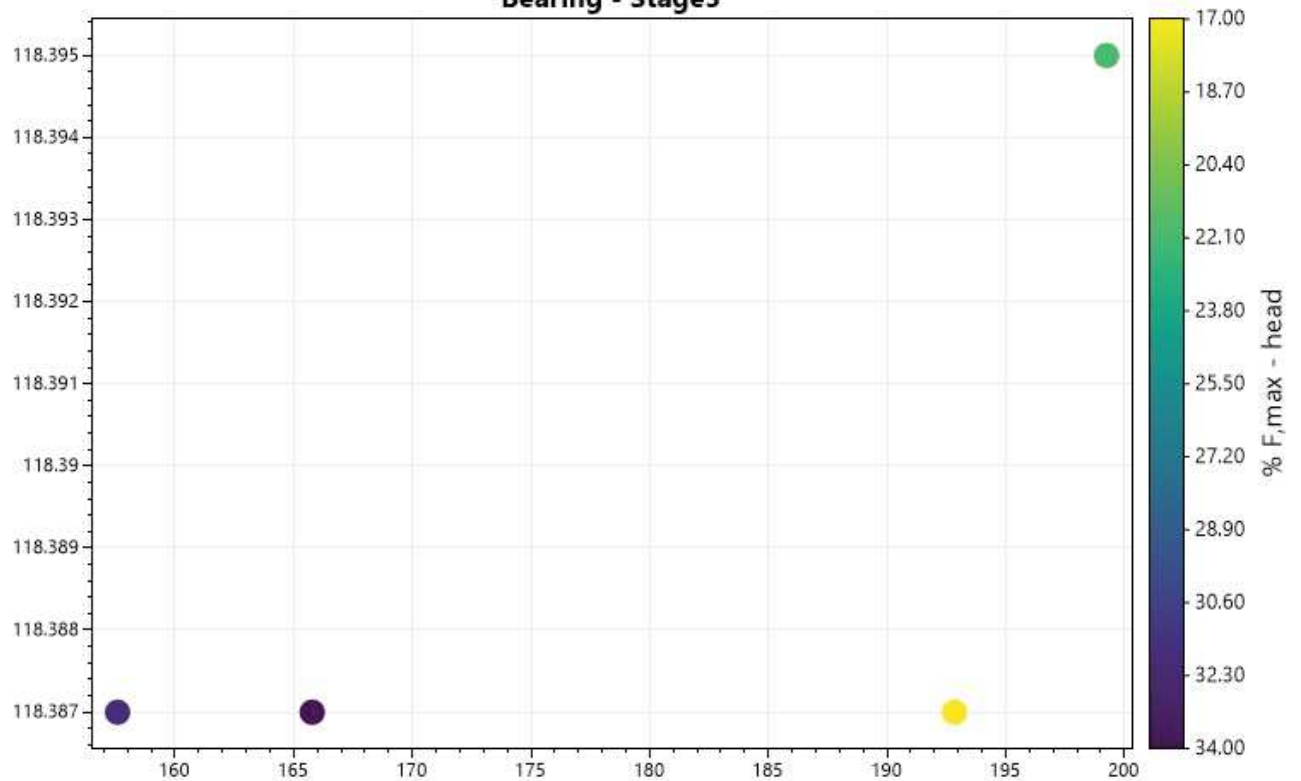
Pictures

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Bearing - Stage3



Bearing - Stage3

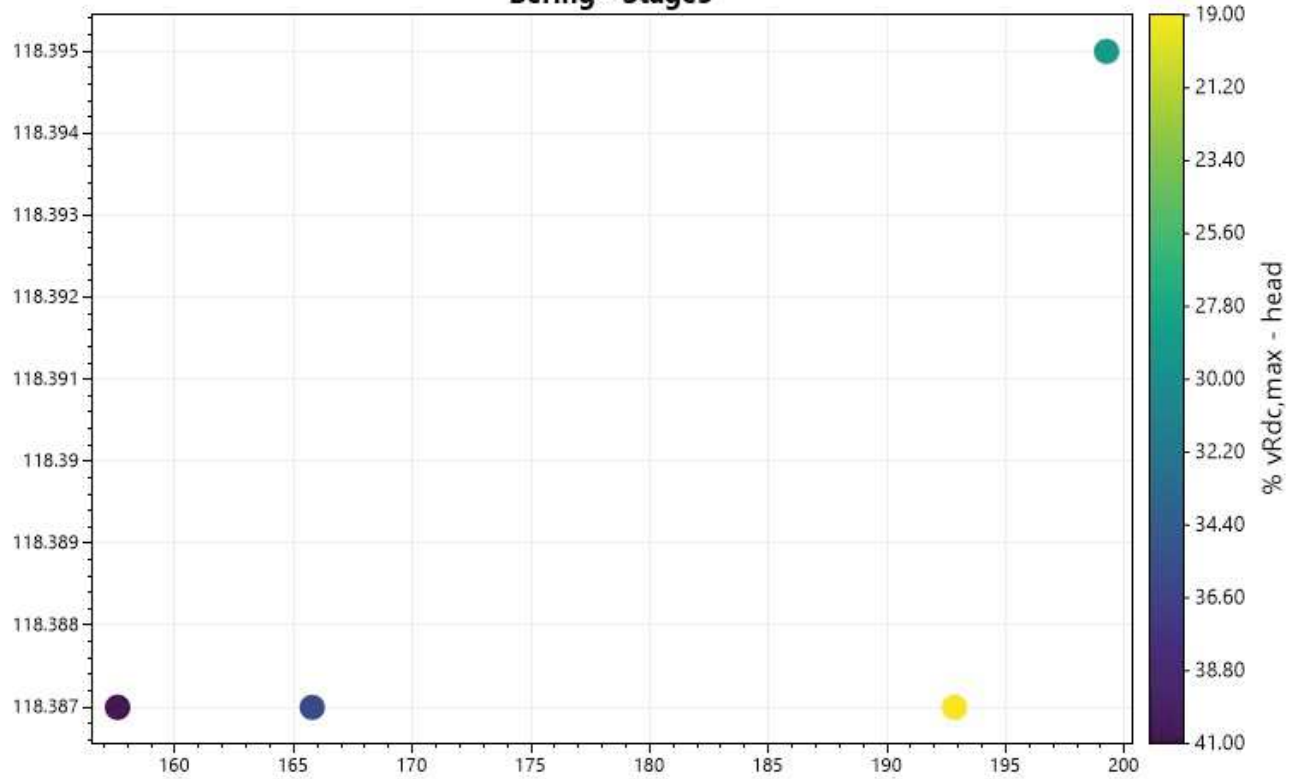


Geometry definition

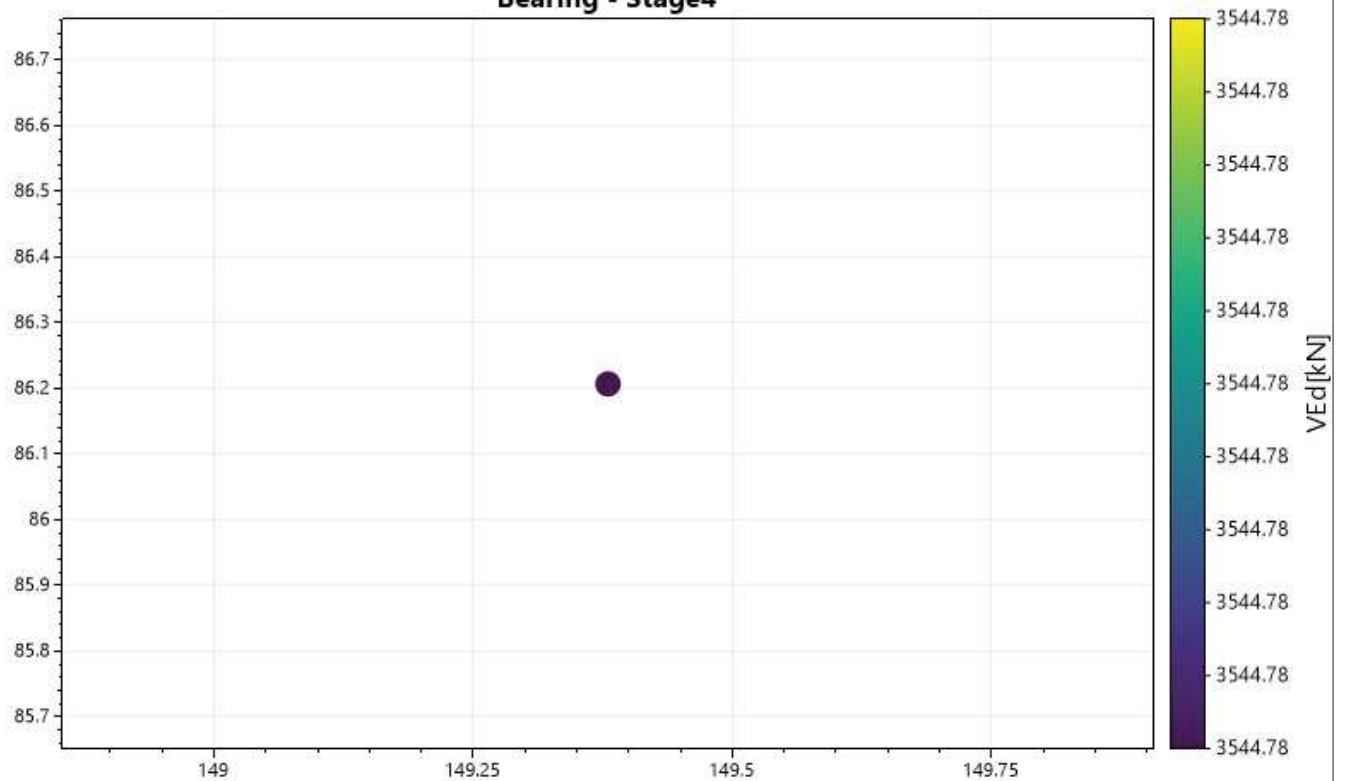
Pictures

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Bering - Stage3



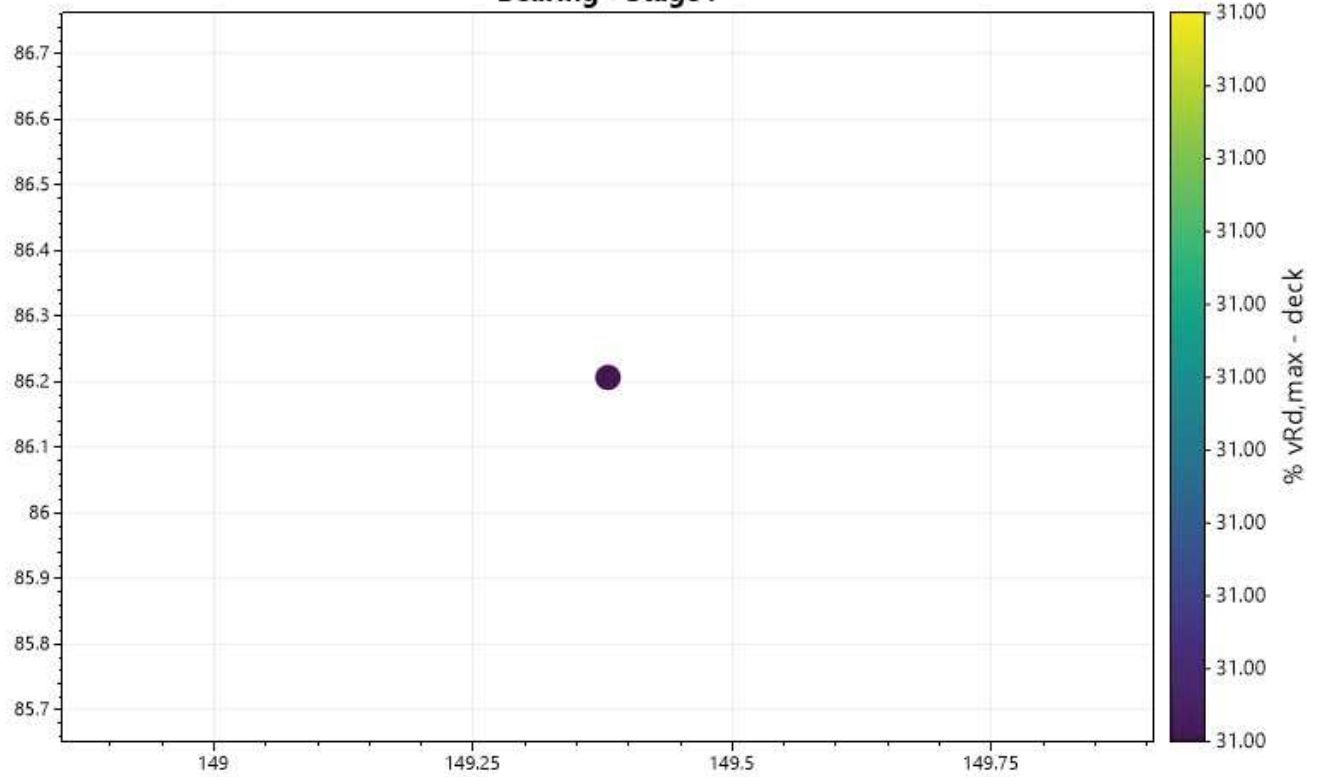
Bearing - Stage4



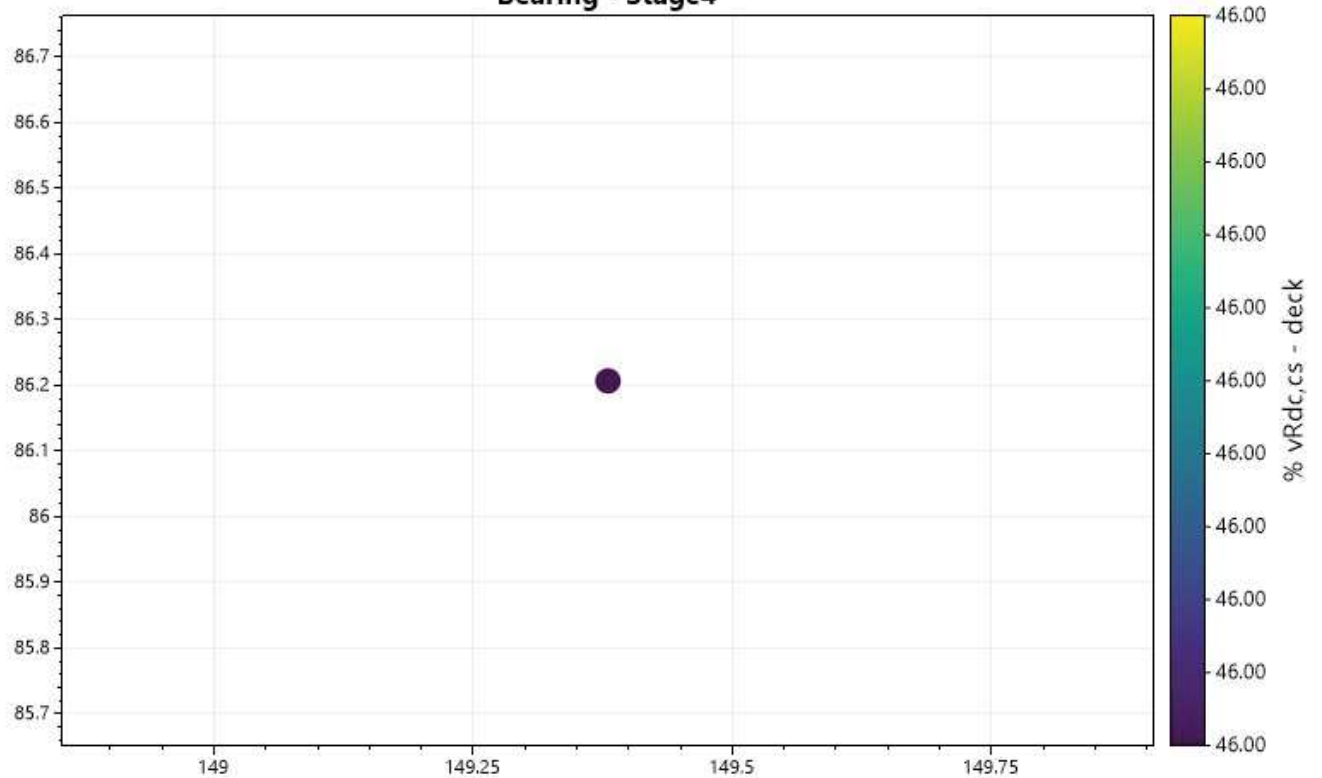
Geometry definition
Pictures

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Bearing - Stage4



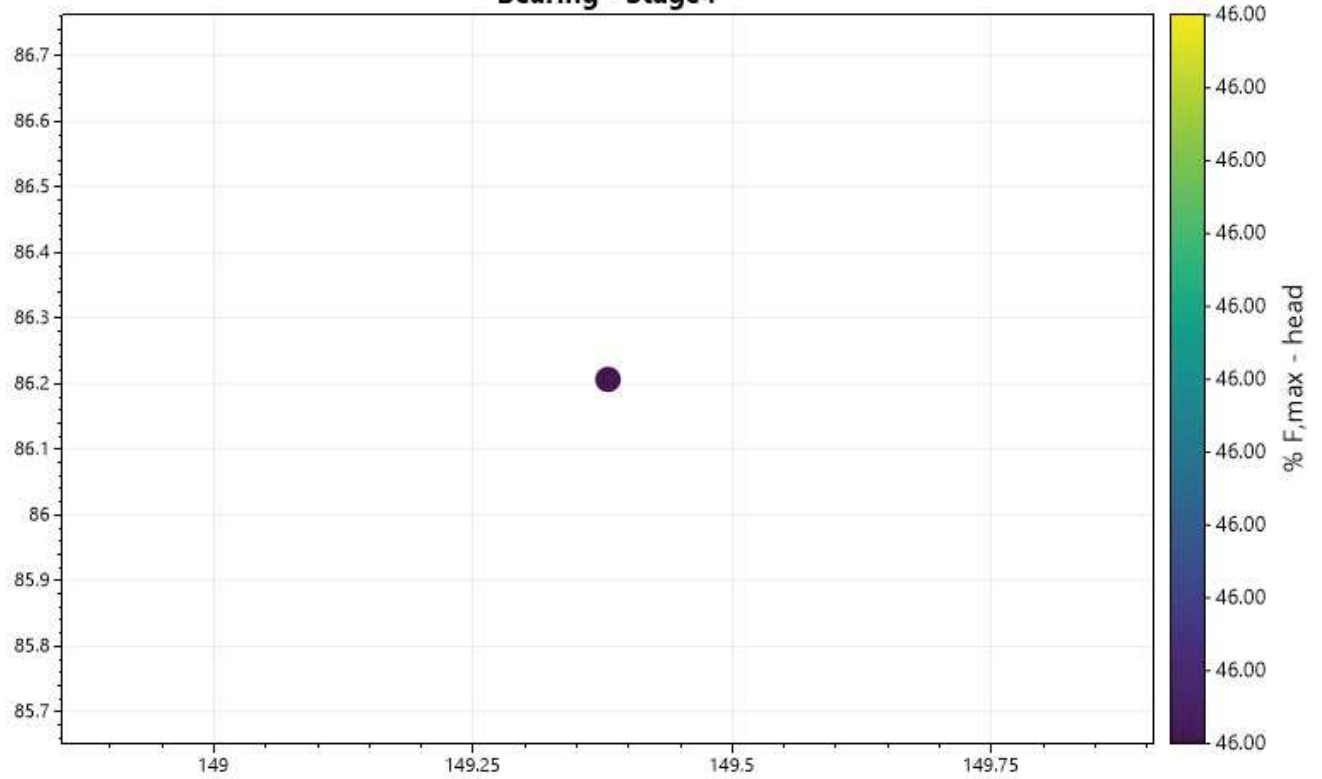
Bearing - Stage4



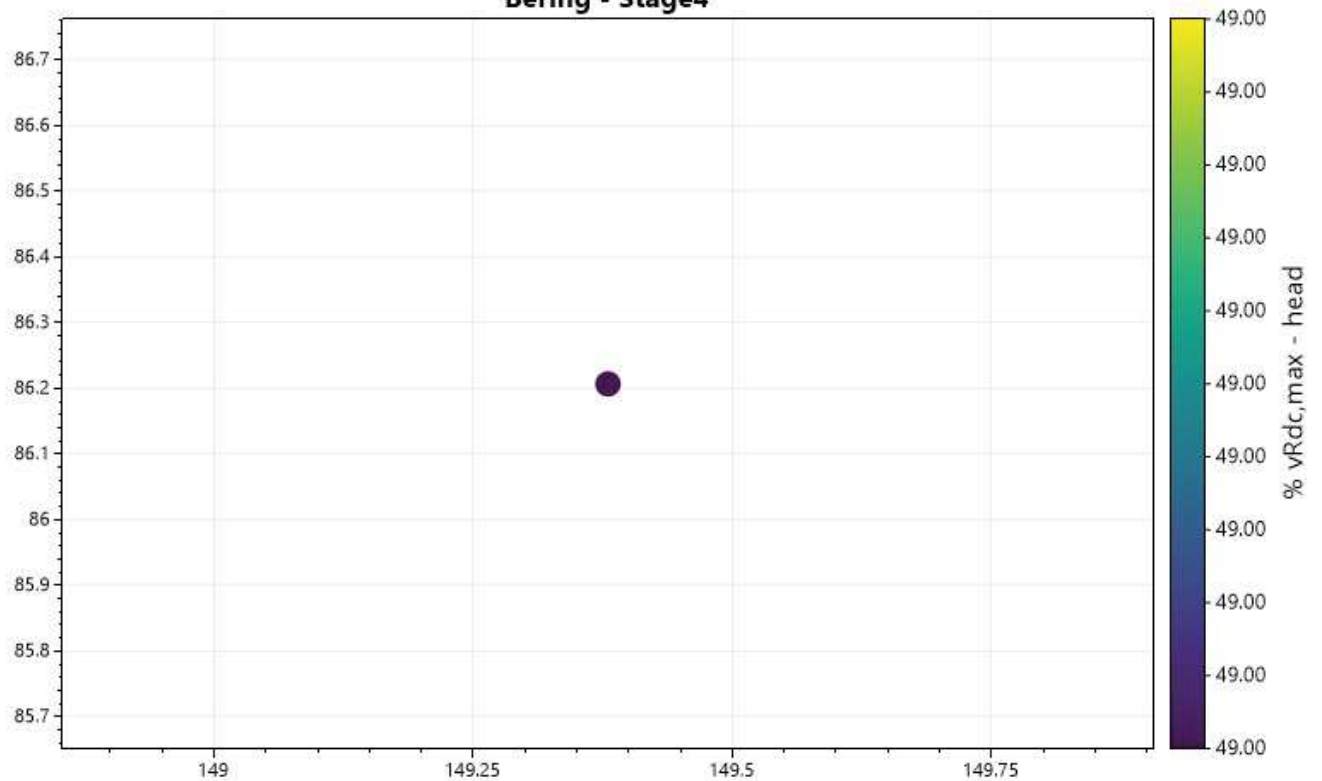
Geometry definition
Pictures

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Bearing - Stage4

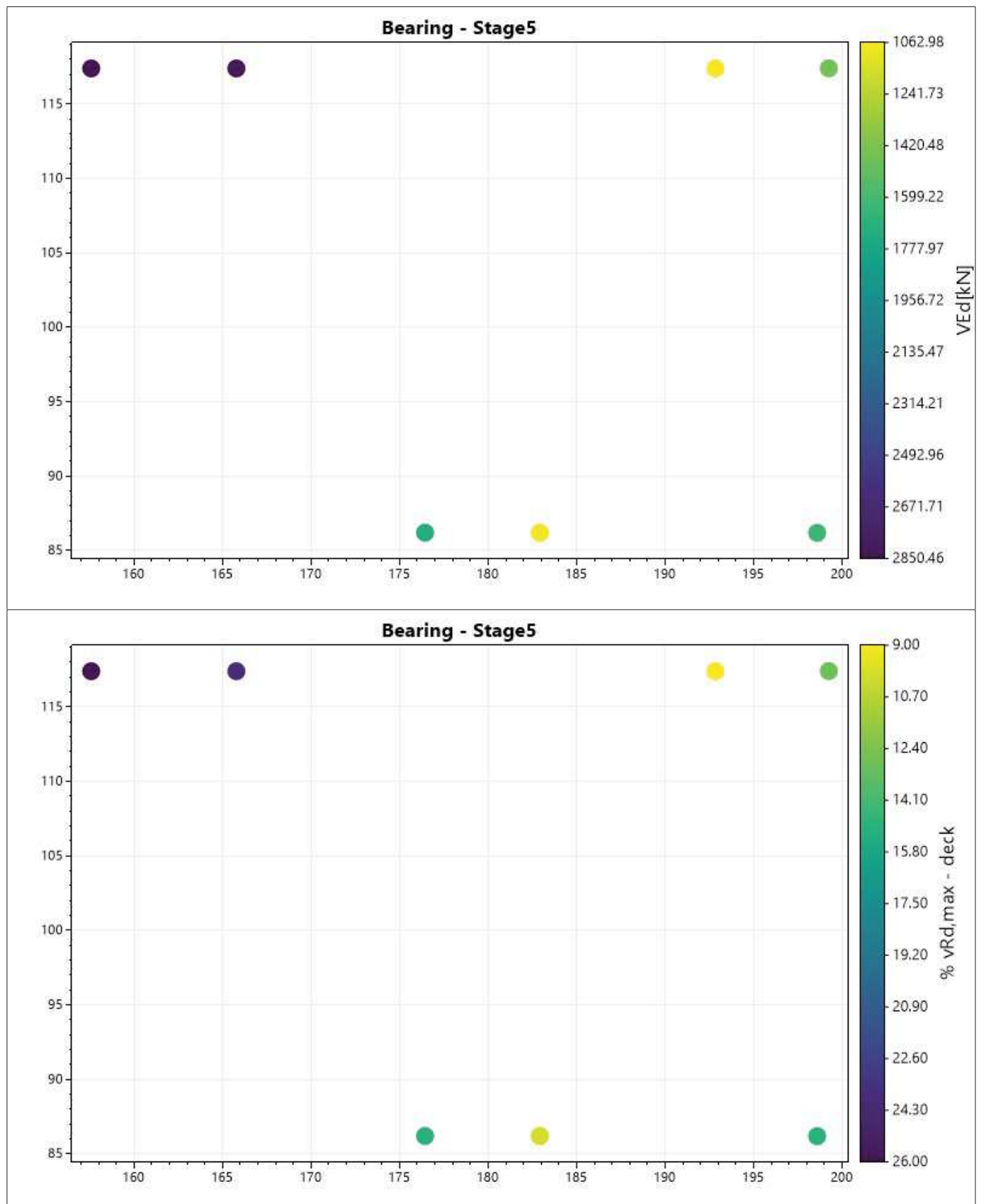


Bering - Stage4



Geometry definition
Pictures

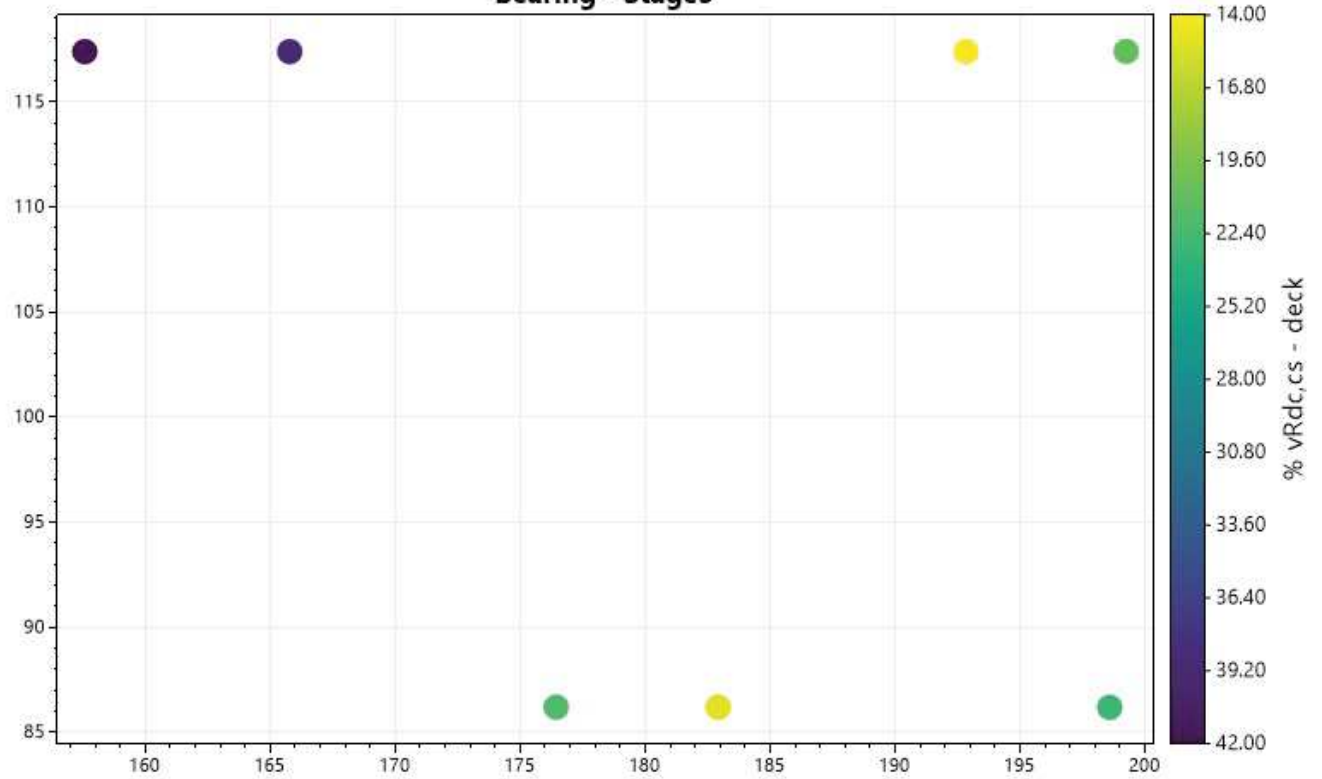
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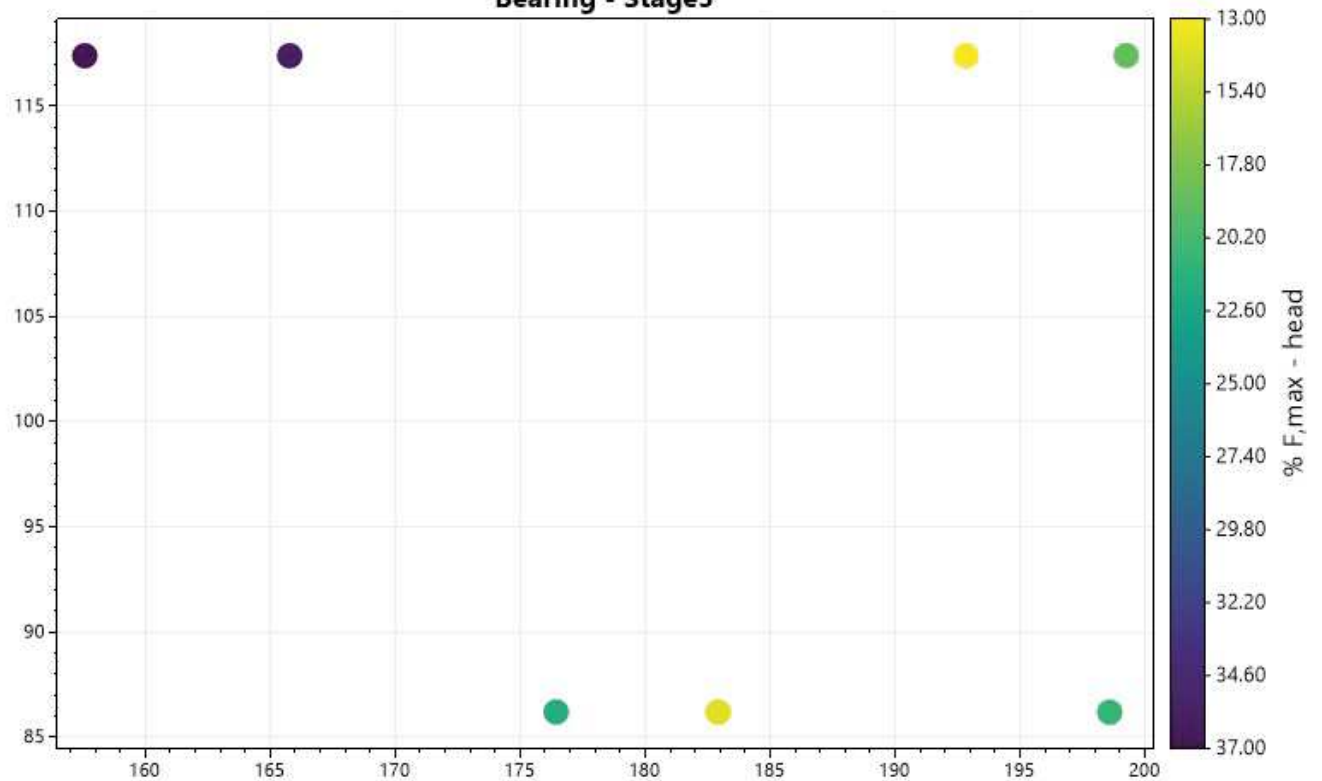
Geometry definition
Pictures

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Bearing - Stage5



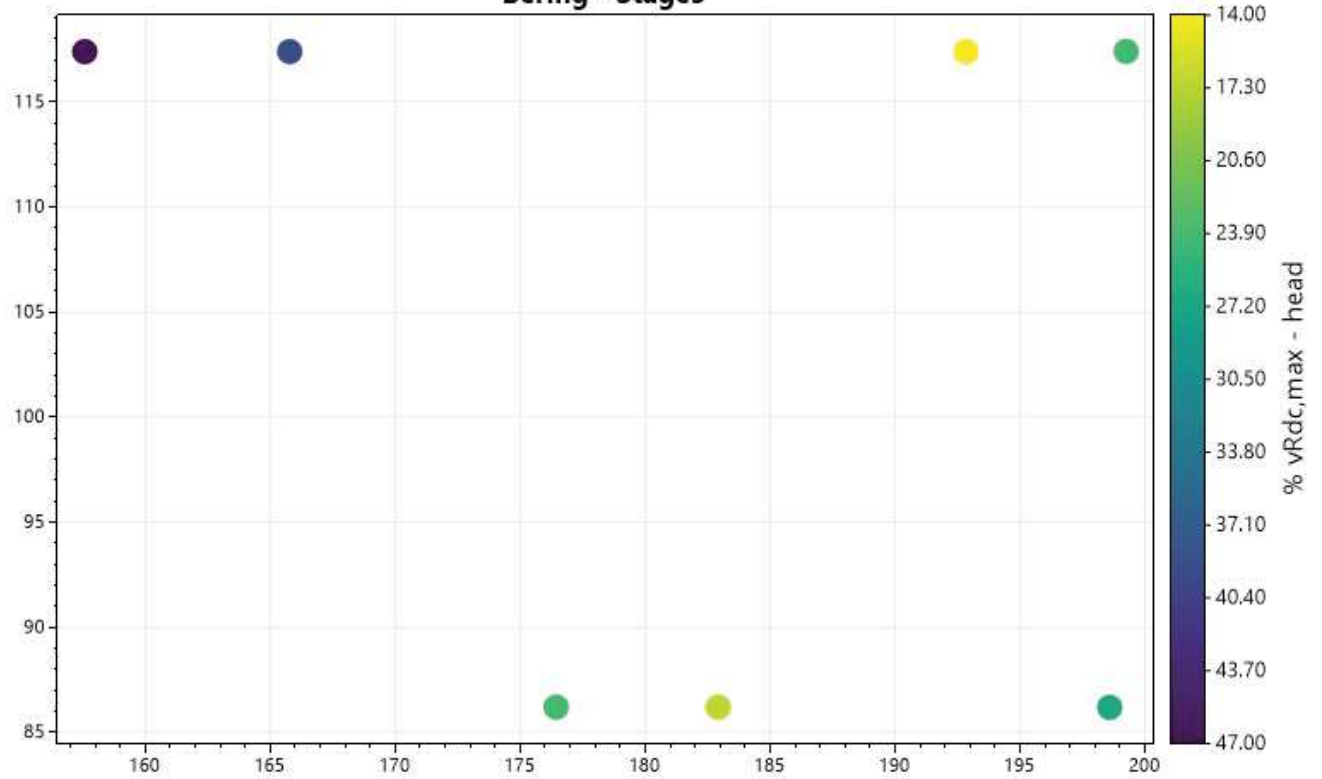
Bearing - Stage5



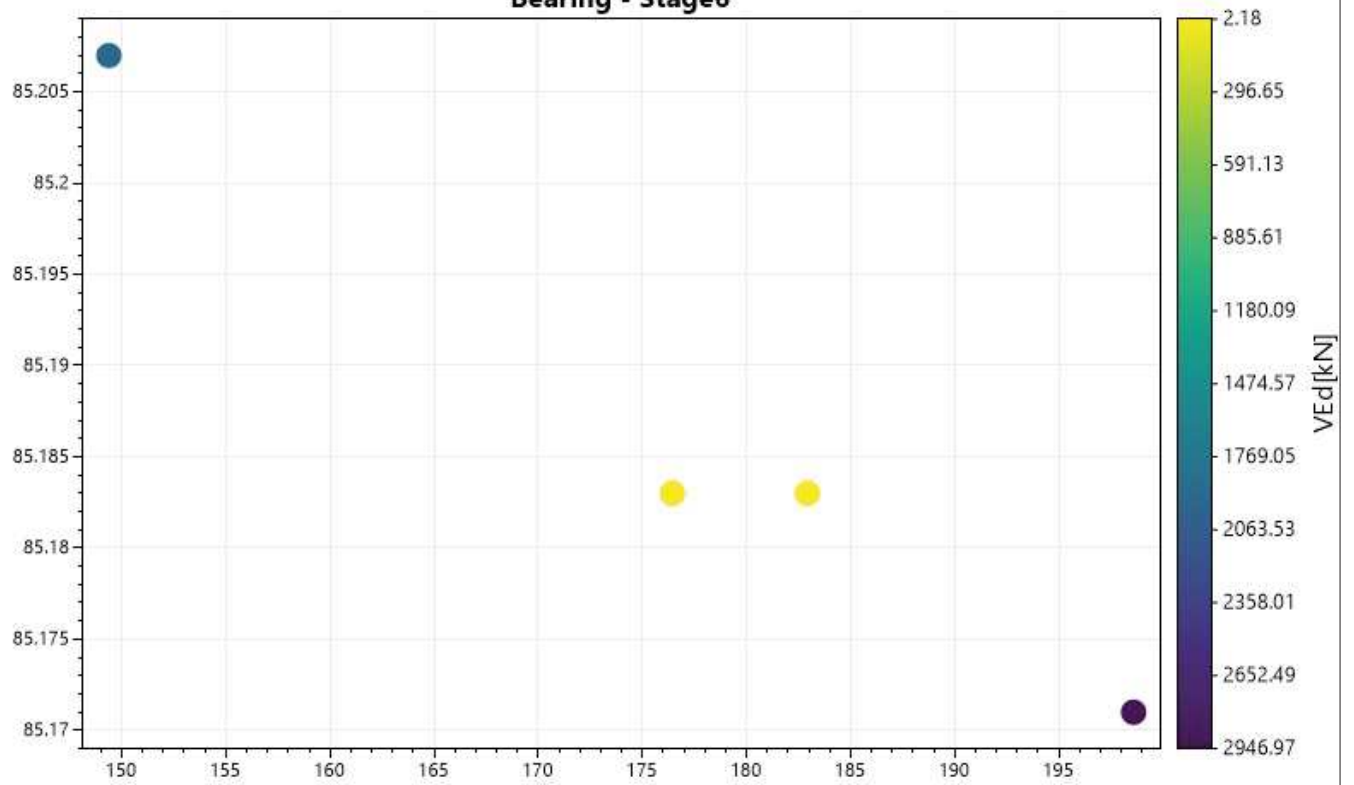
Geometry definition
Pictures

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Bering - Stage5



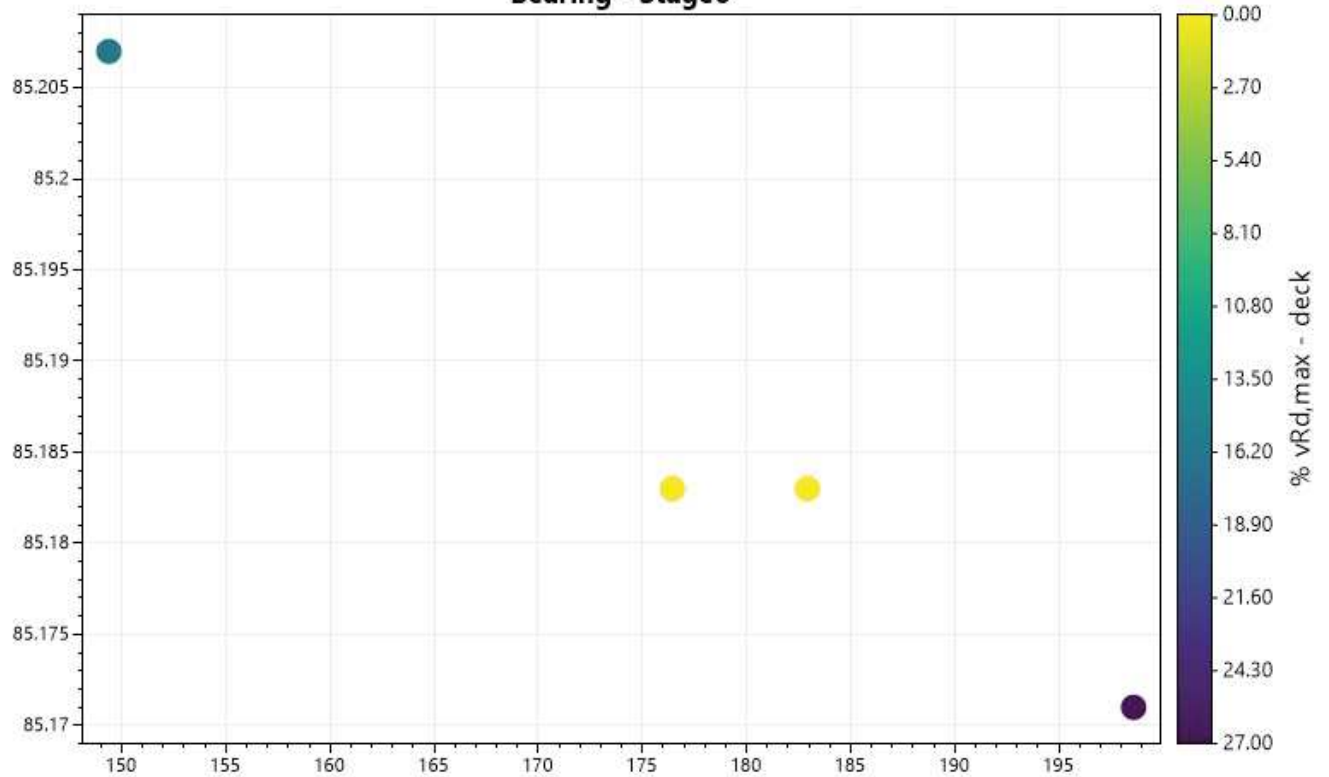
Bearing - Stage6



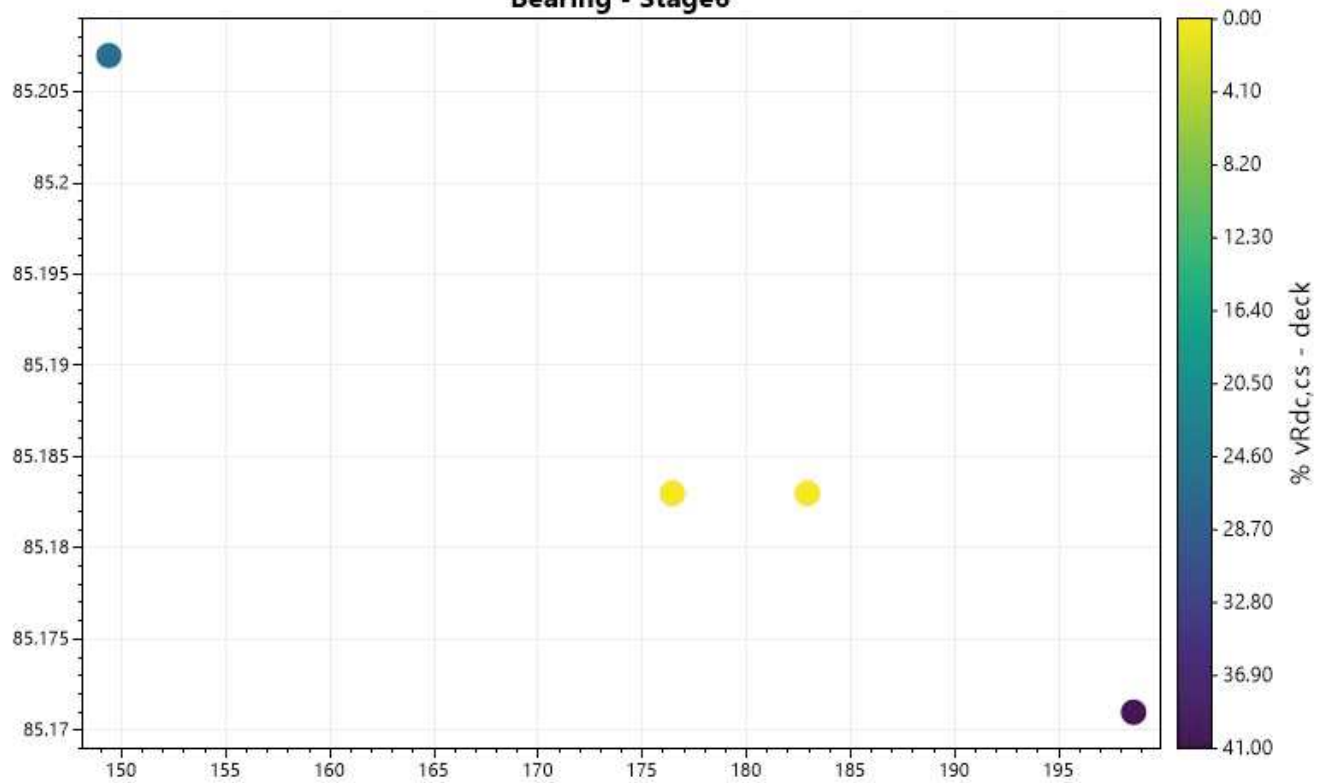
Geometry definition
Pictures

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Bearing - Stage6



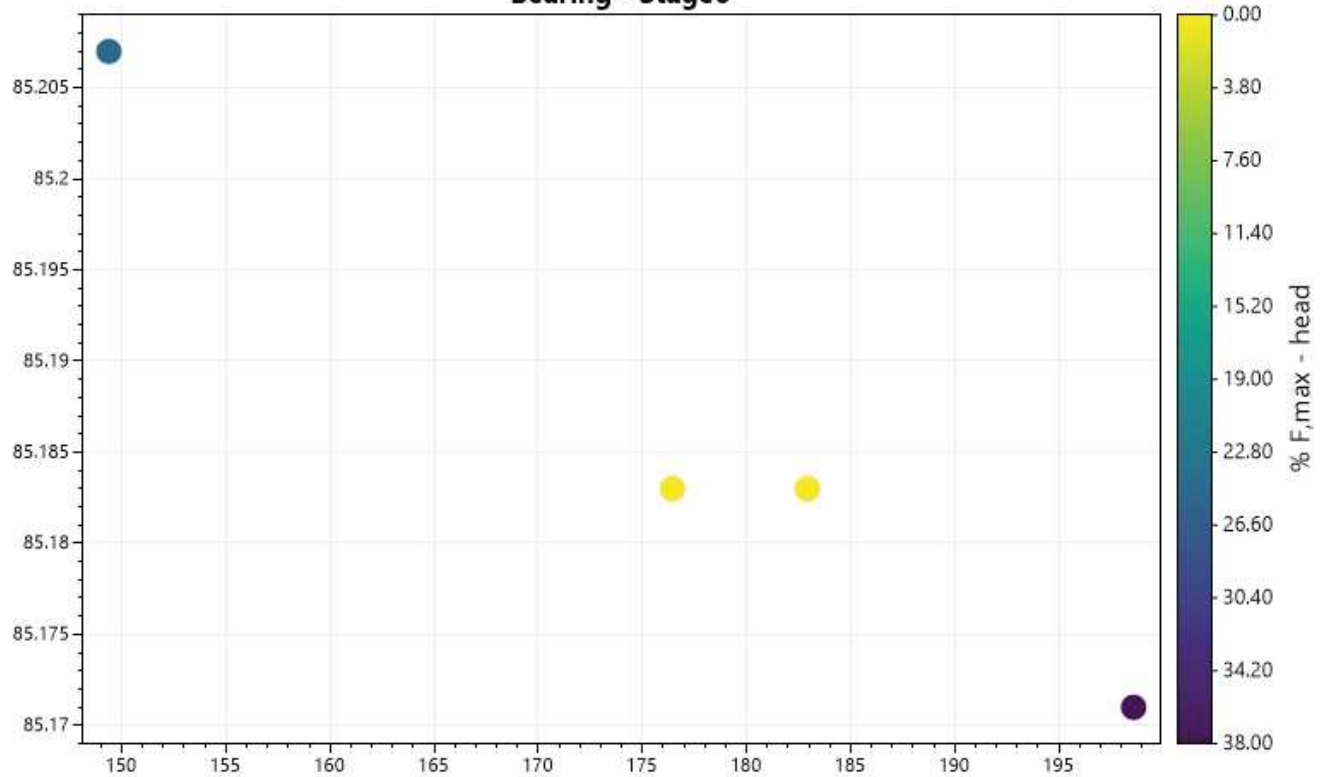
Bearing - Stage6



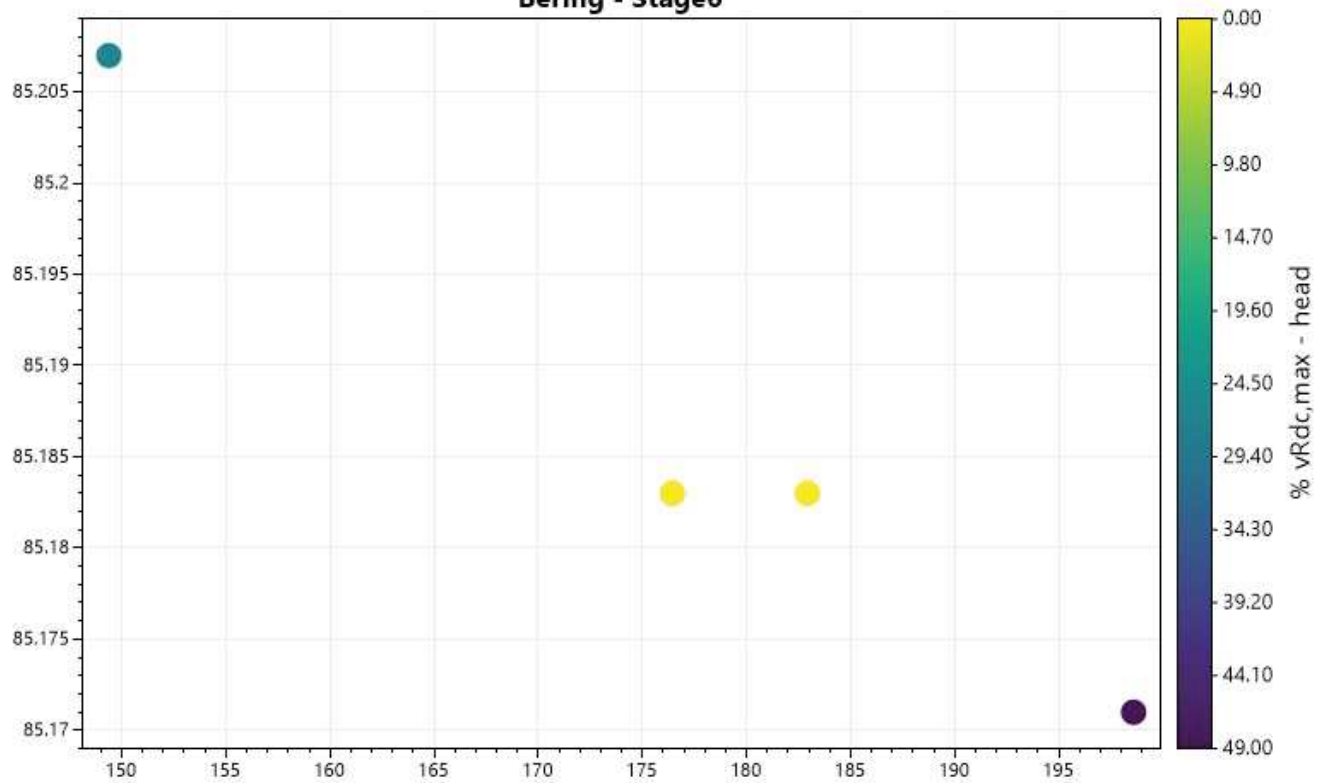
Geometry definition
Pictures

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Bearing - Stage6

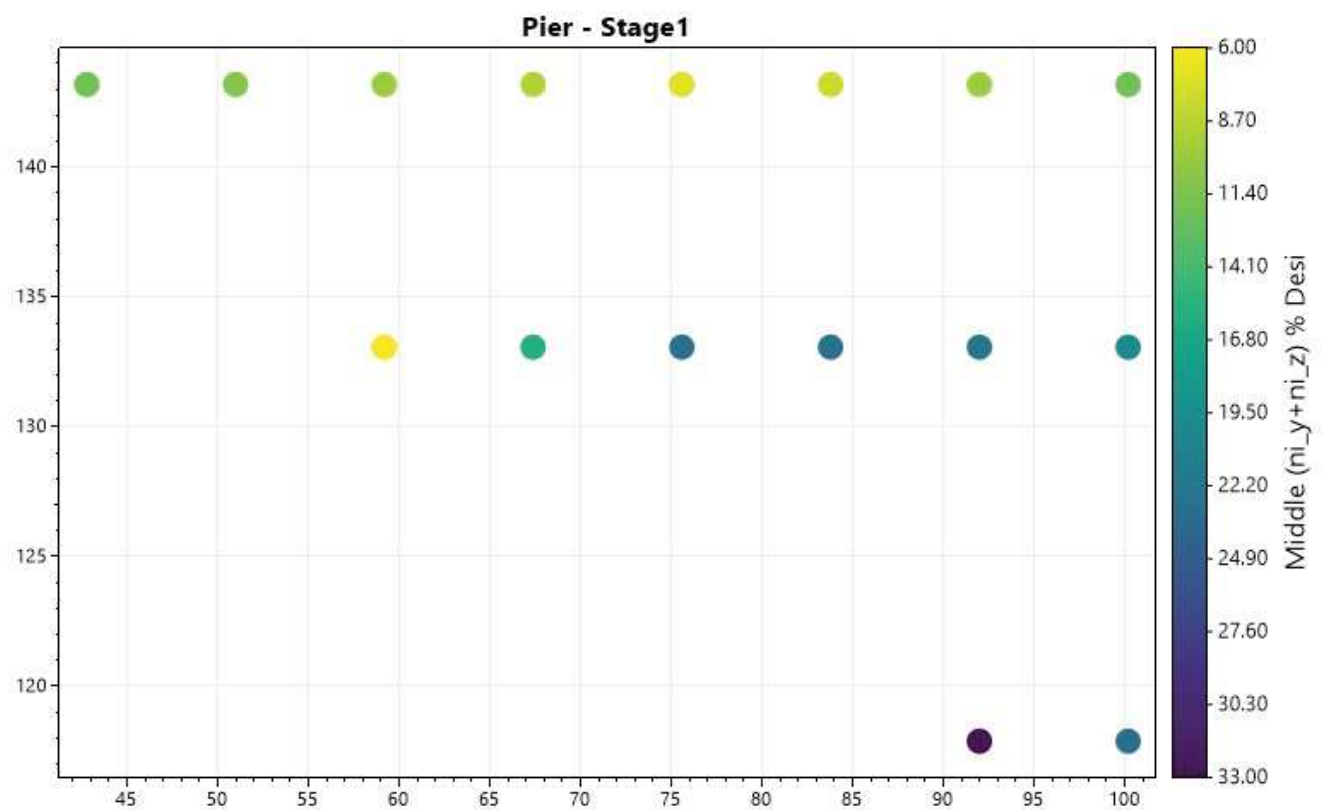
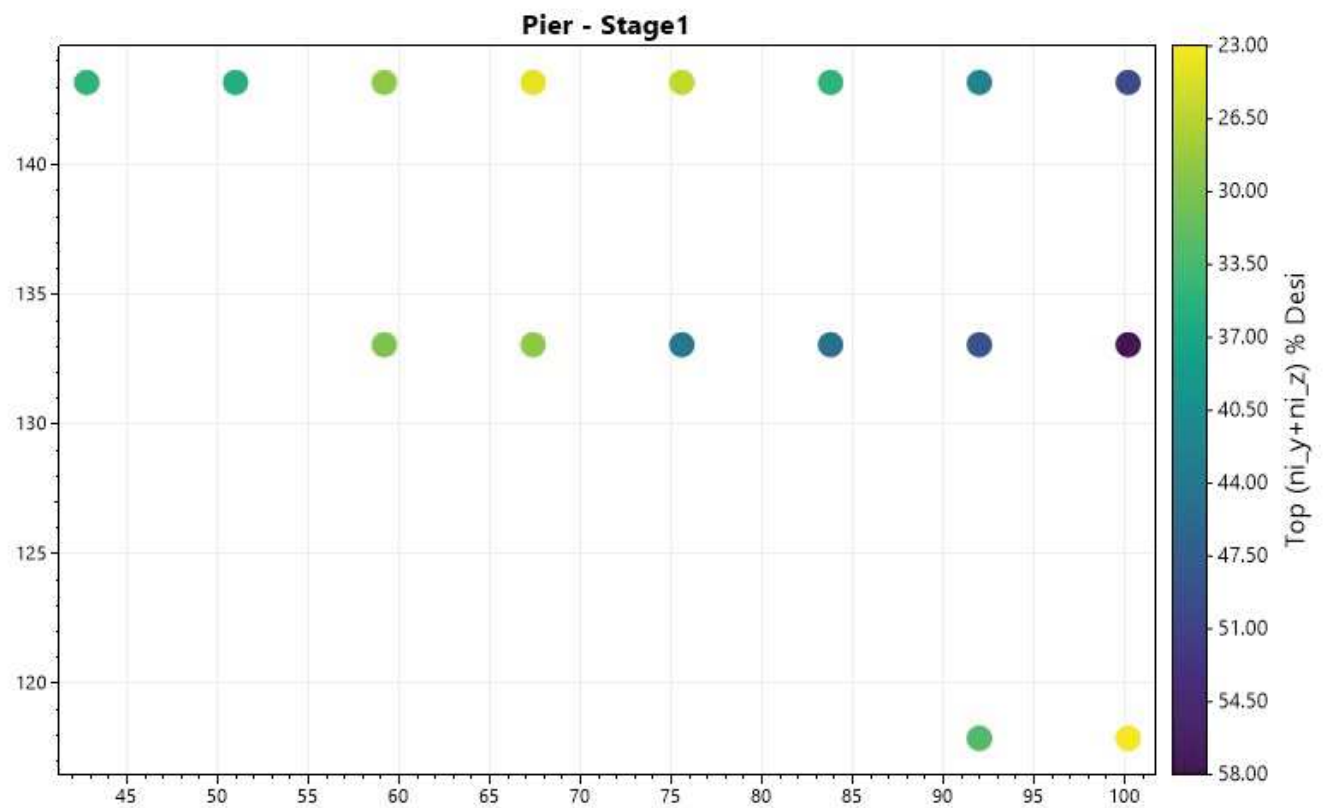


Bering - Stage6



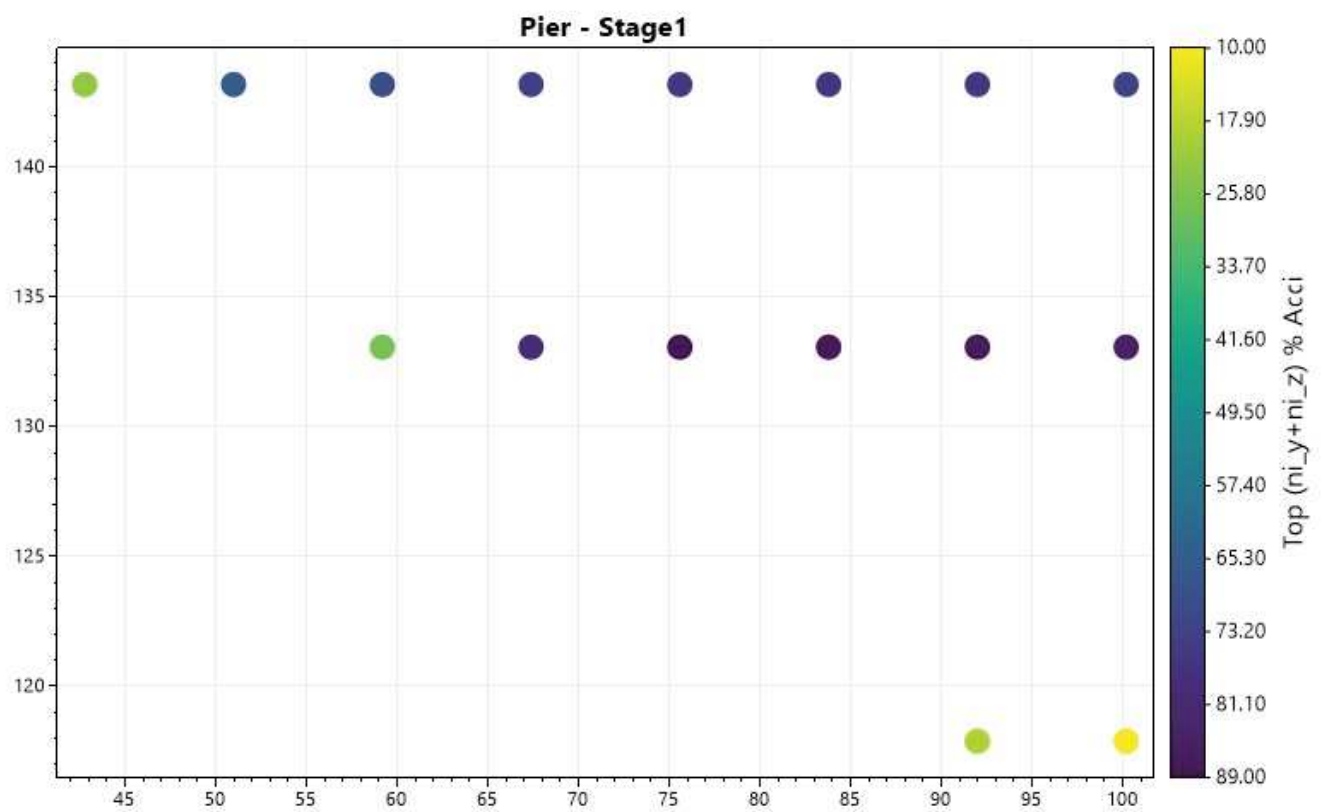
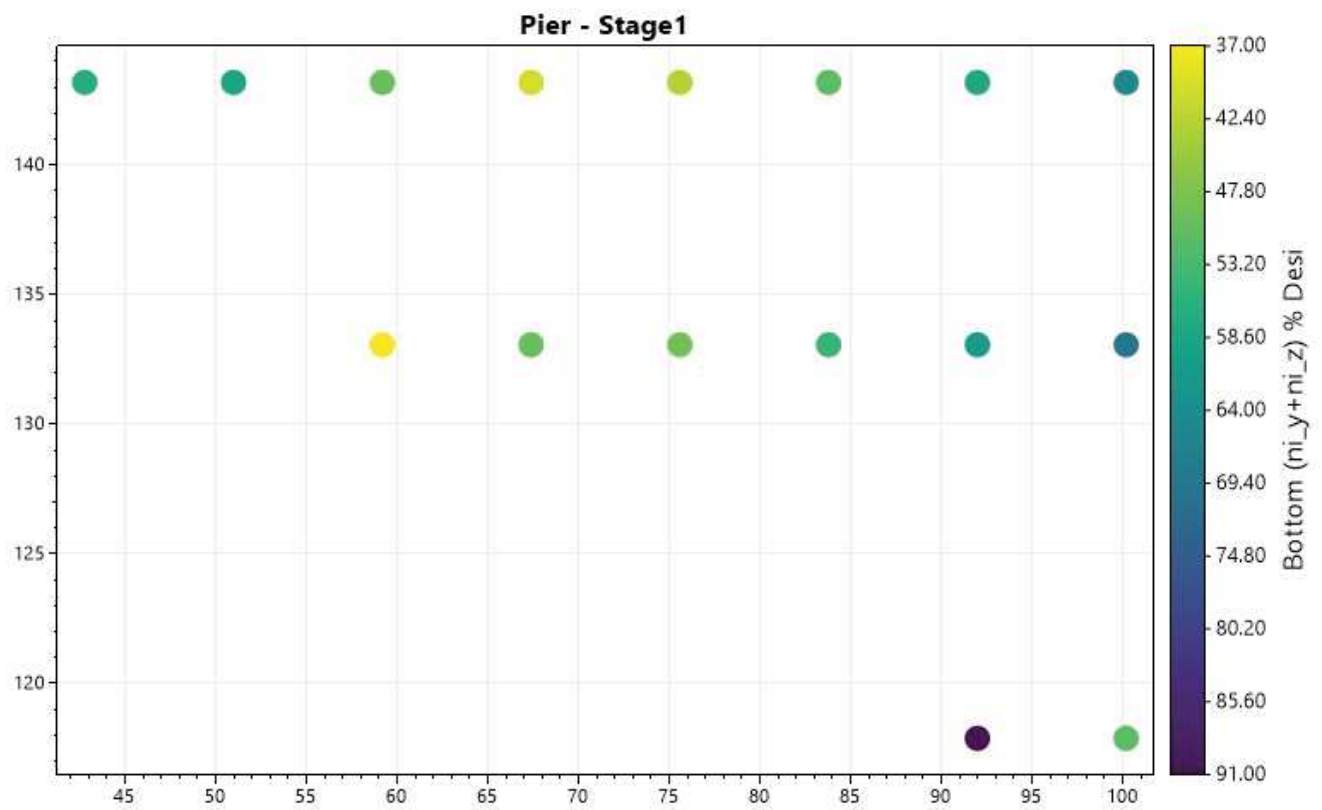
Geometry definition
Pictures

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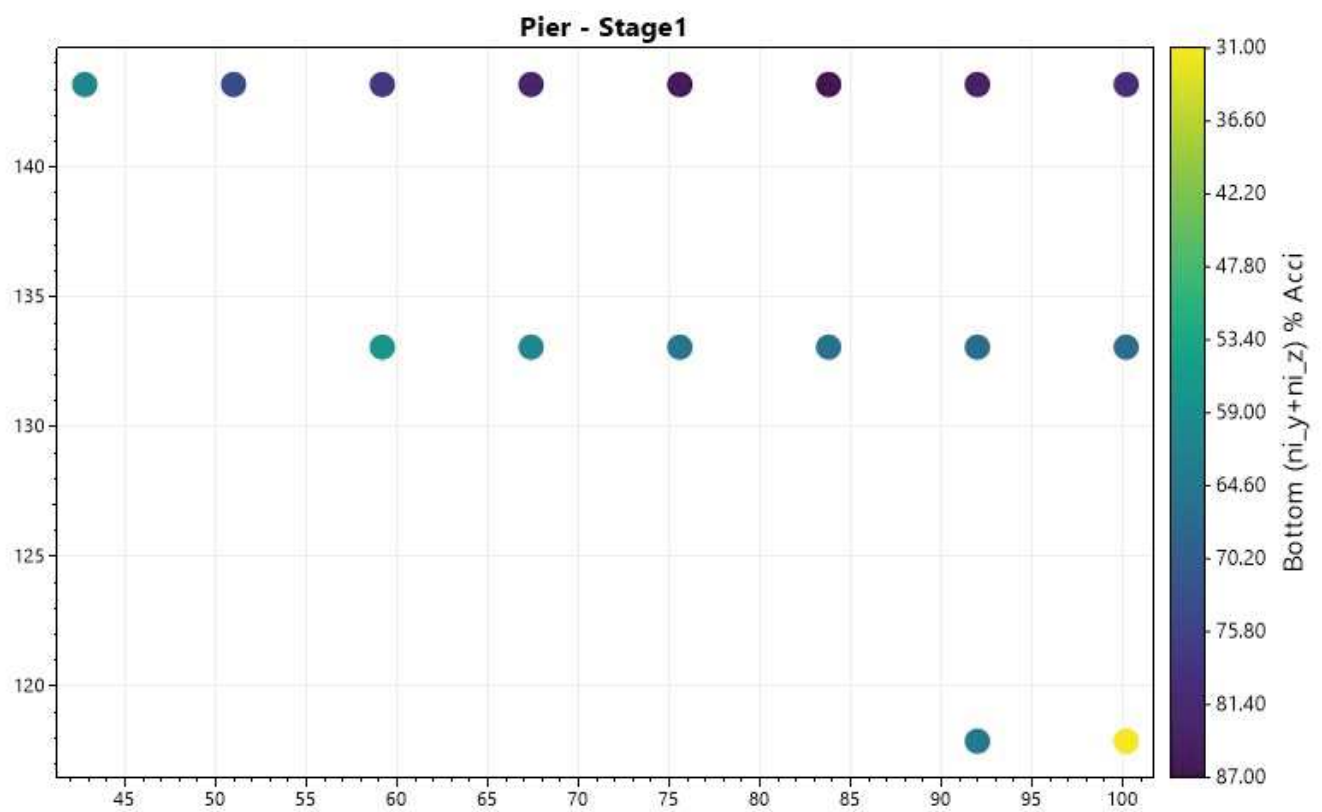
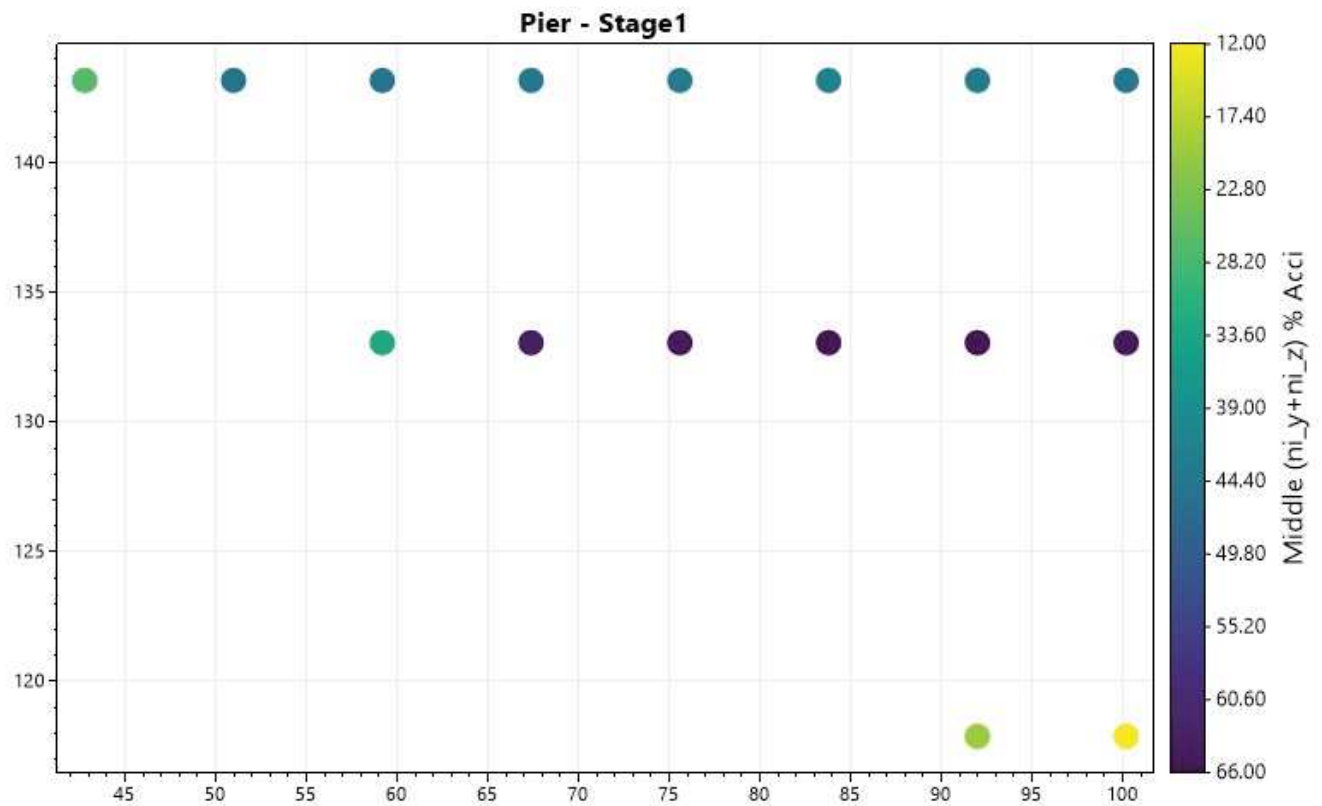
Geometry definition
Pictures

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Geometry definition
Pictures

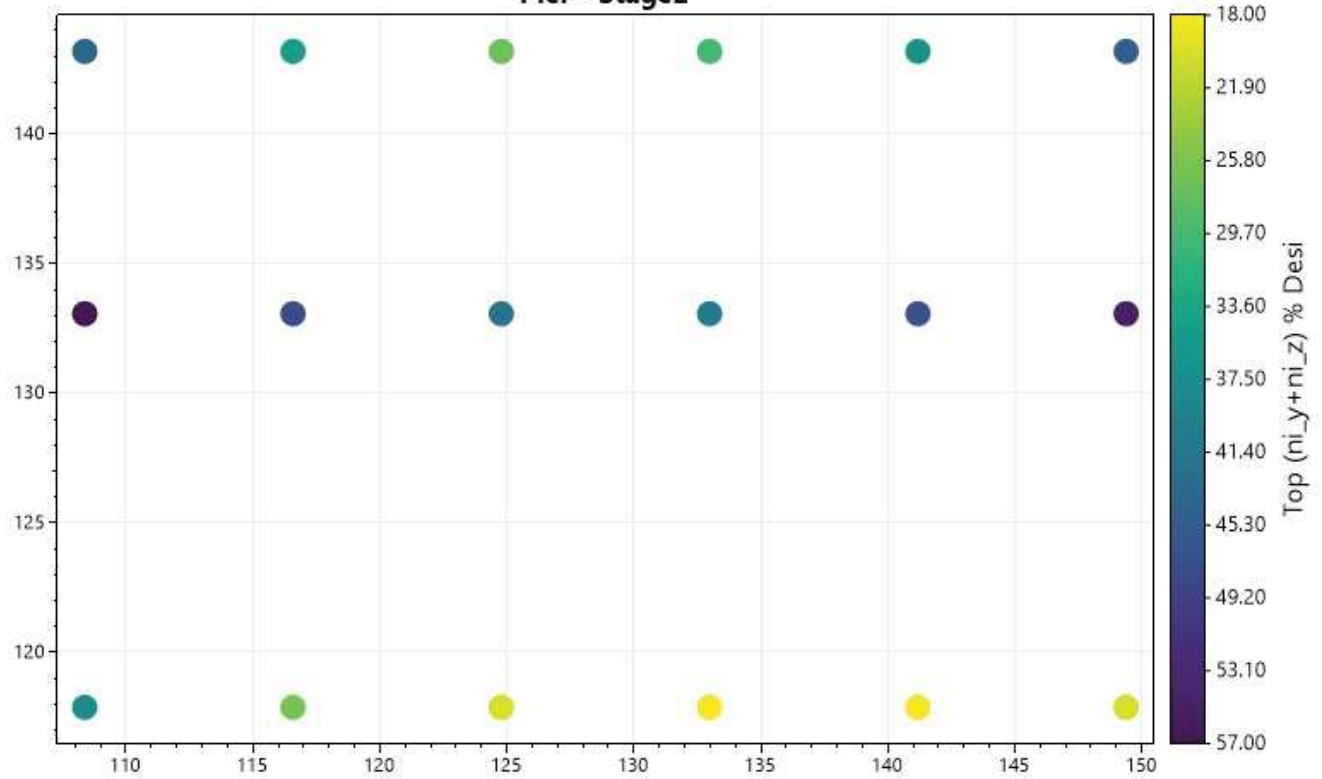
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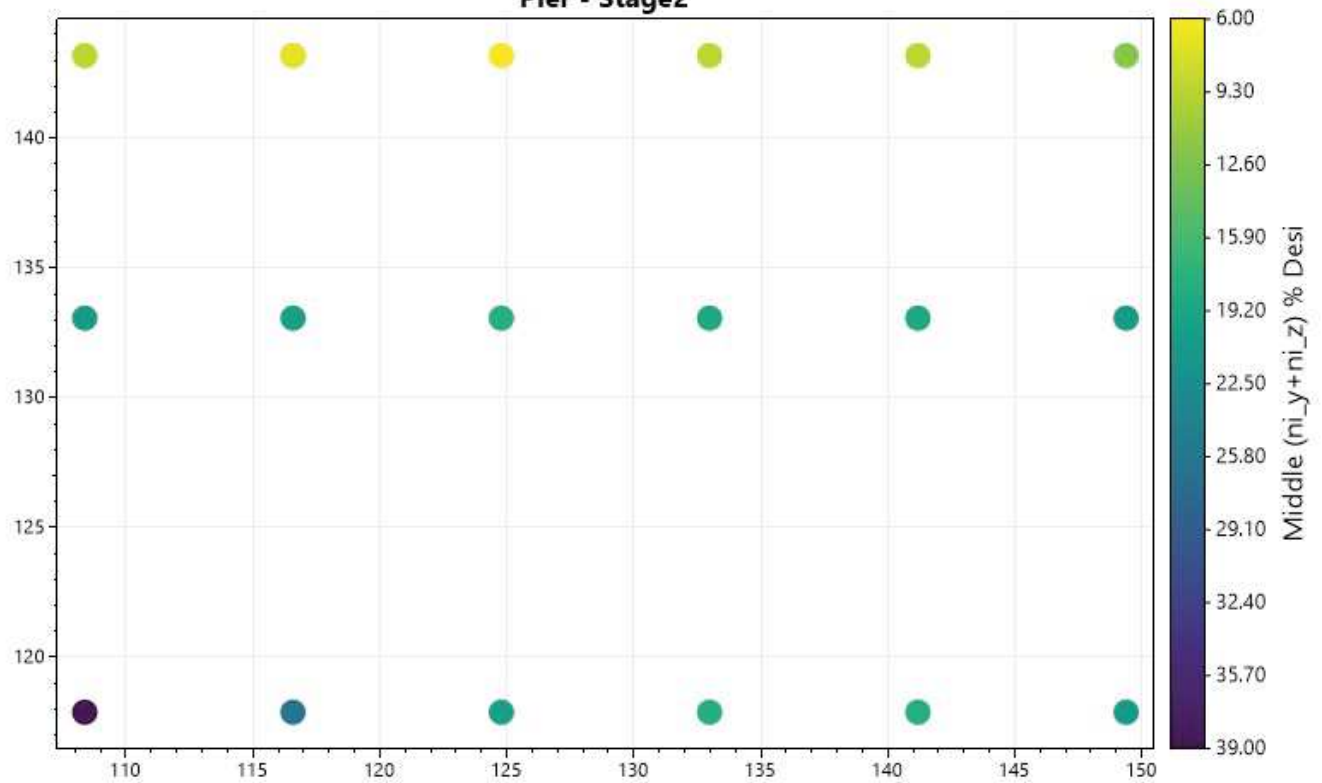
Geometry definition
Pictures

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Pier - Stage2

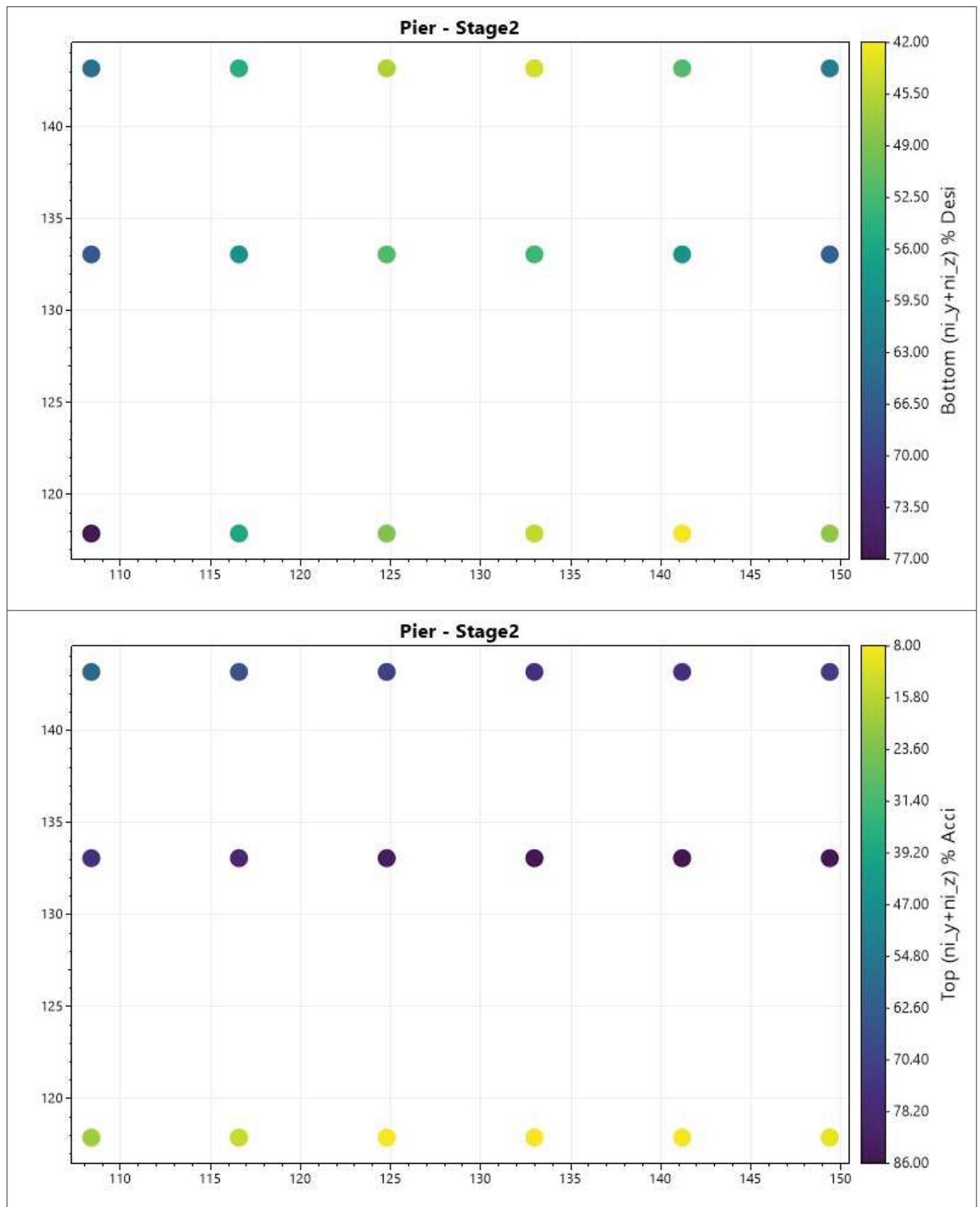


Pier - Stage2



Geometry definition
Pictures

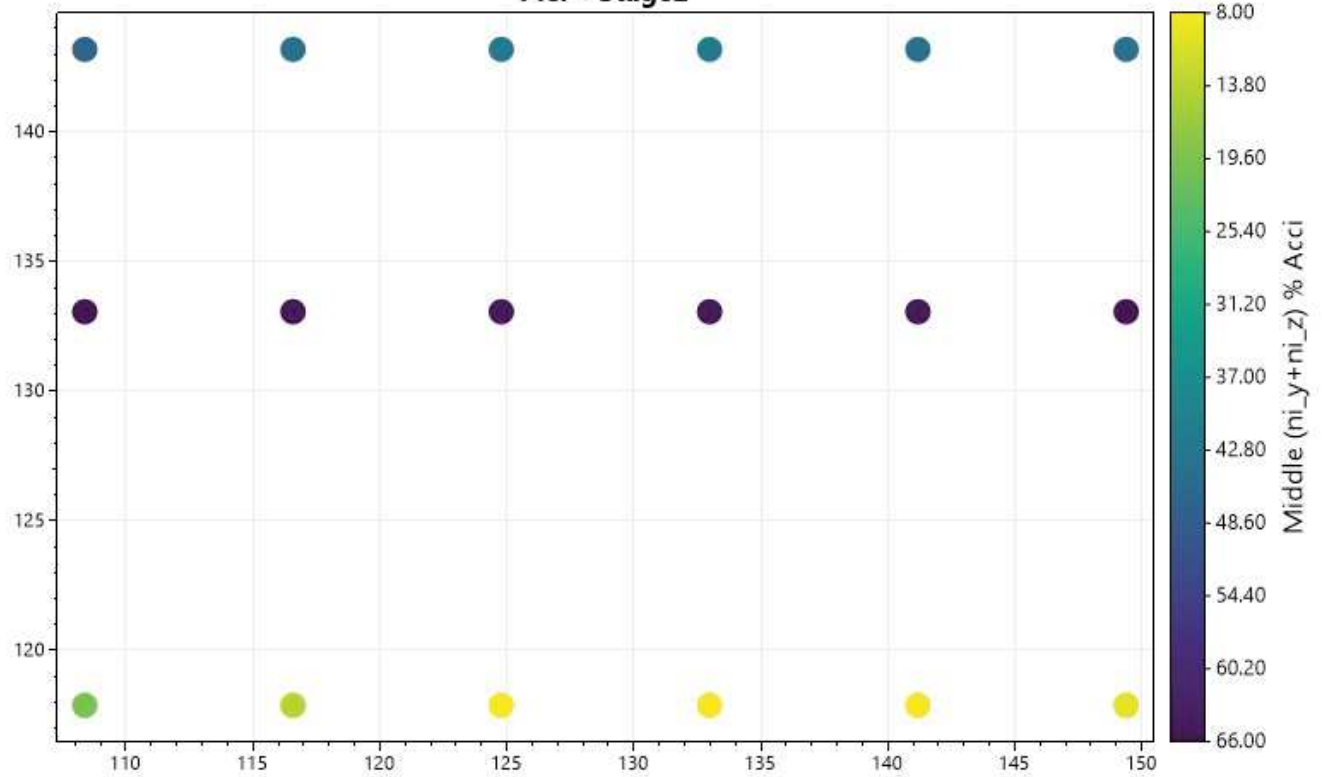
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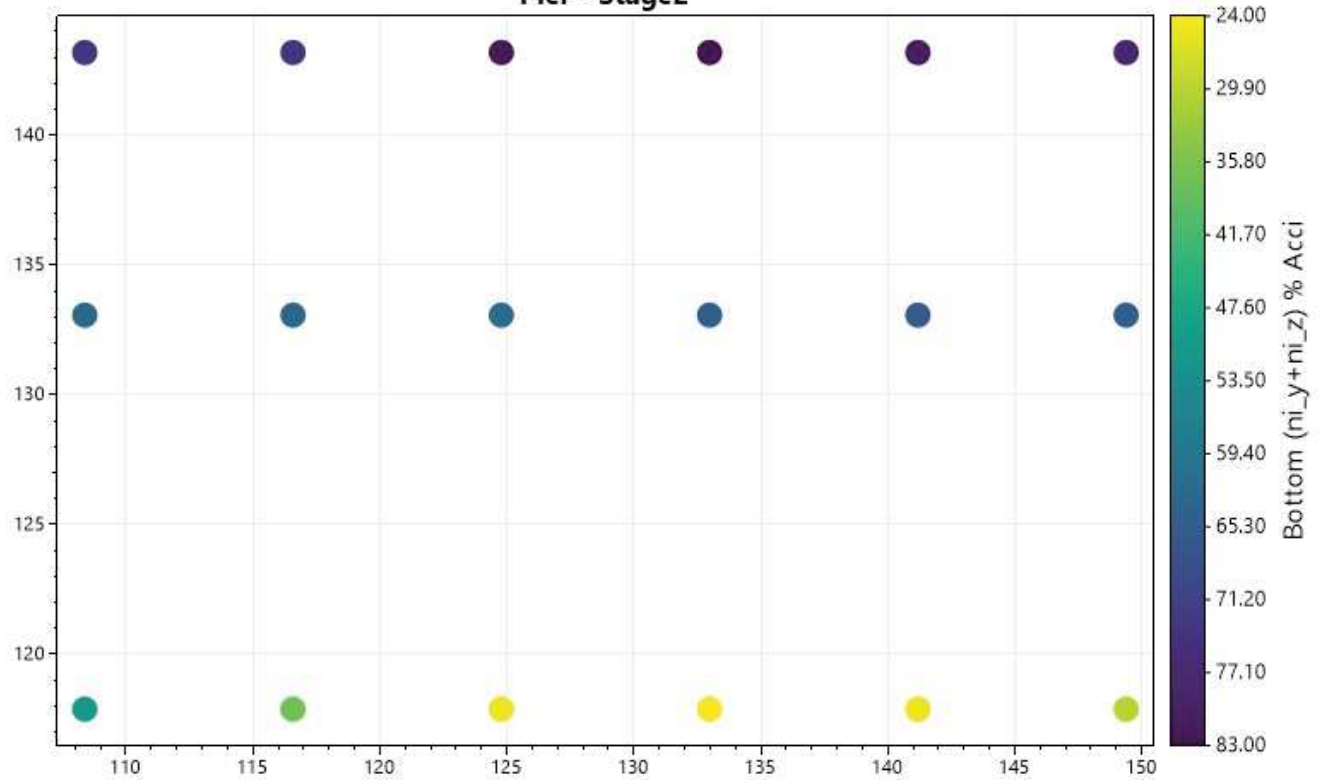
Geometry definition
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Pier - Stage2

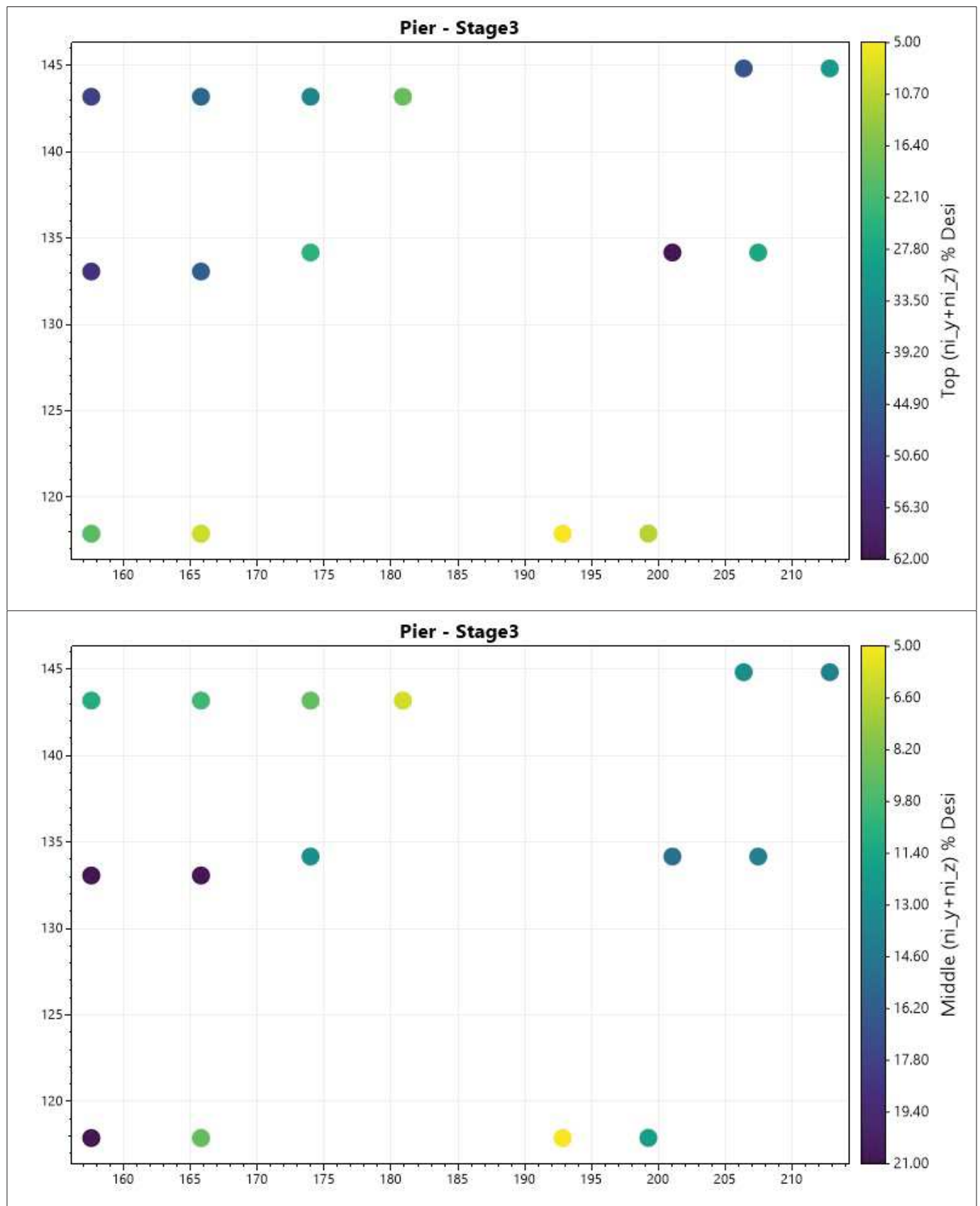


Pier - Stage2



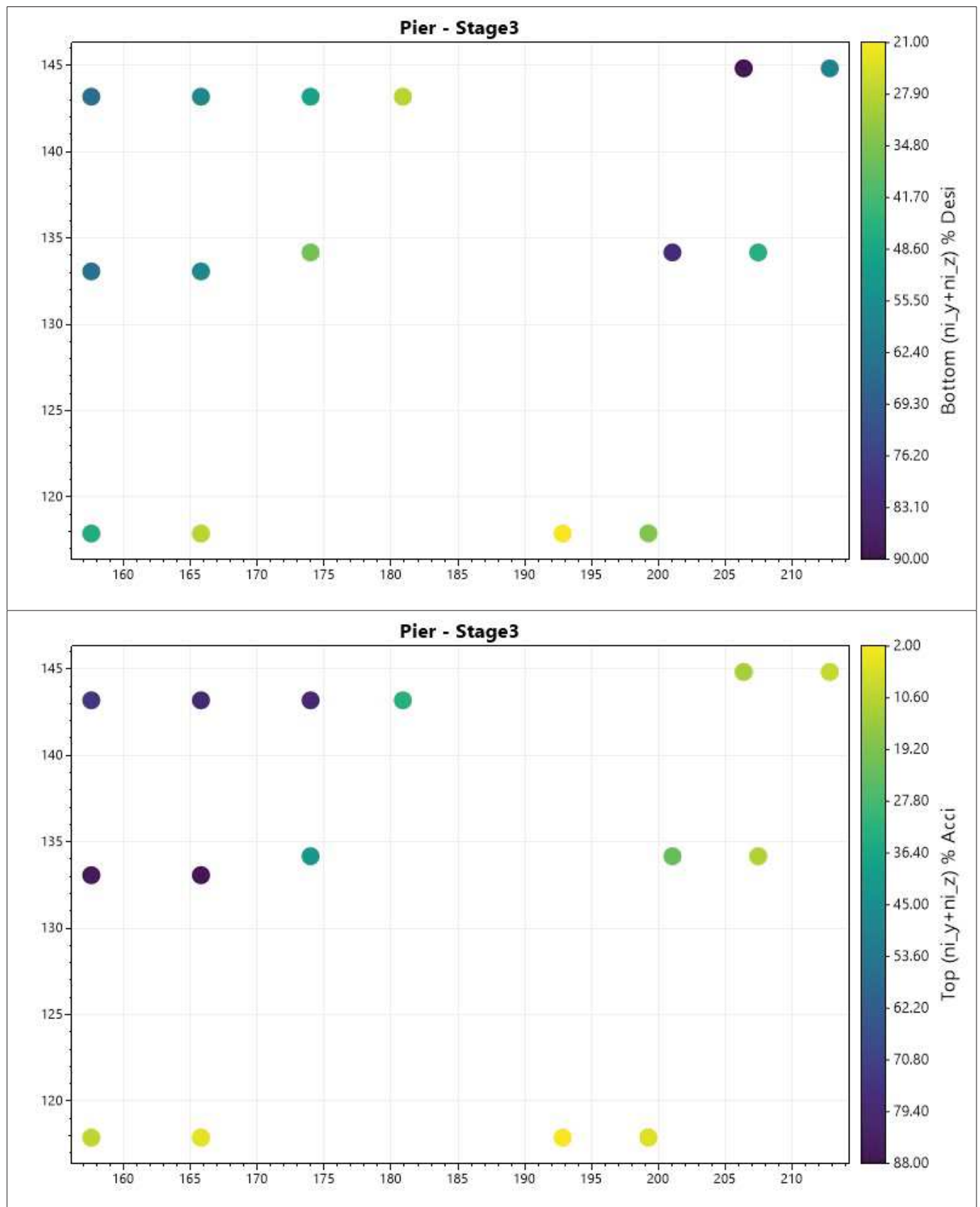
Geometry definition
Pictures

SOFISTIK AG - www.sofistik.de



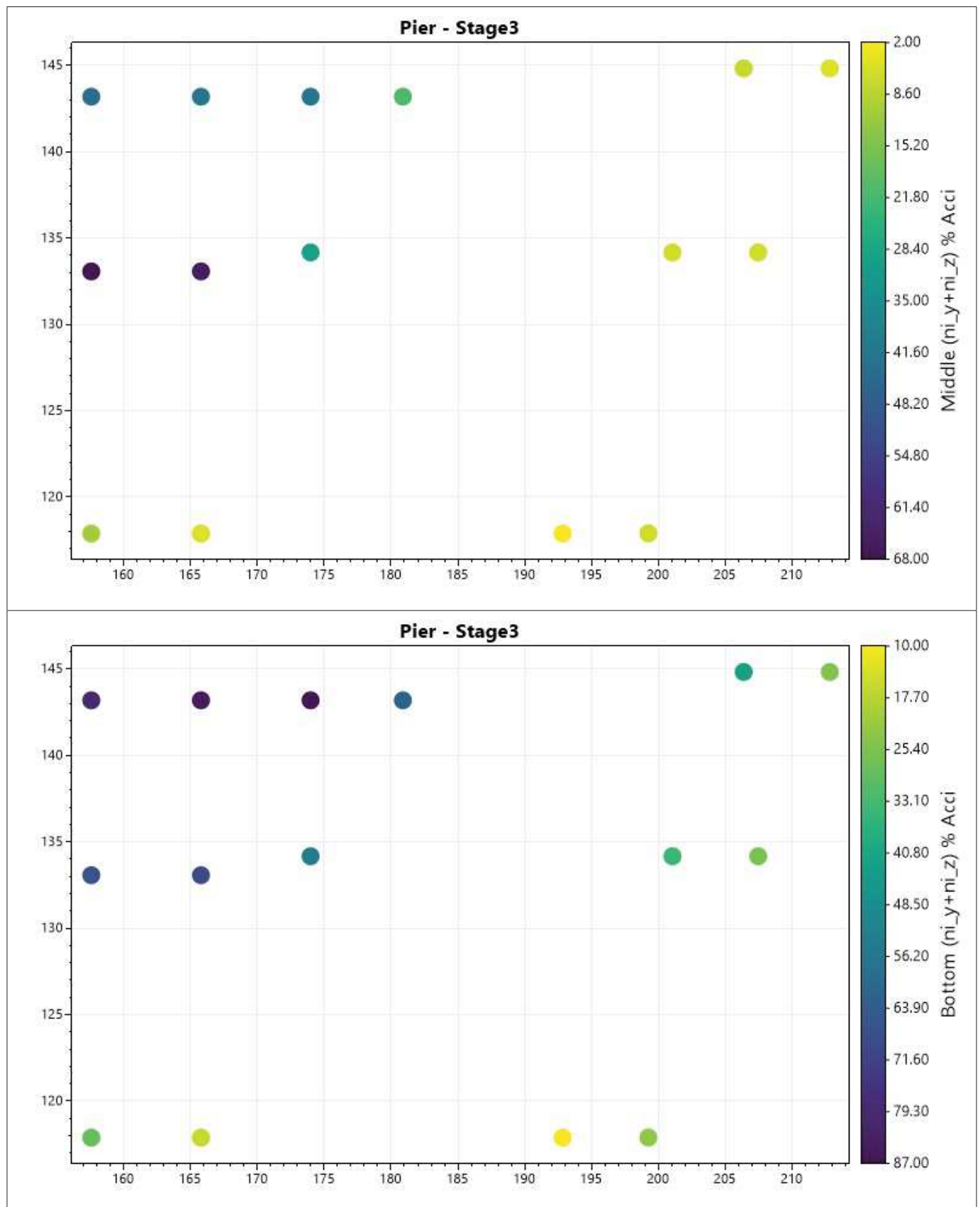
Geometry definition
Pictures

SOFISTIK AG - www.sofistik.de



Geometry definition
Pictures

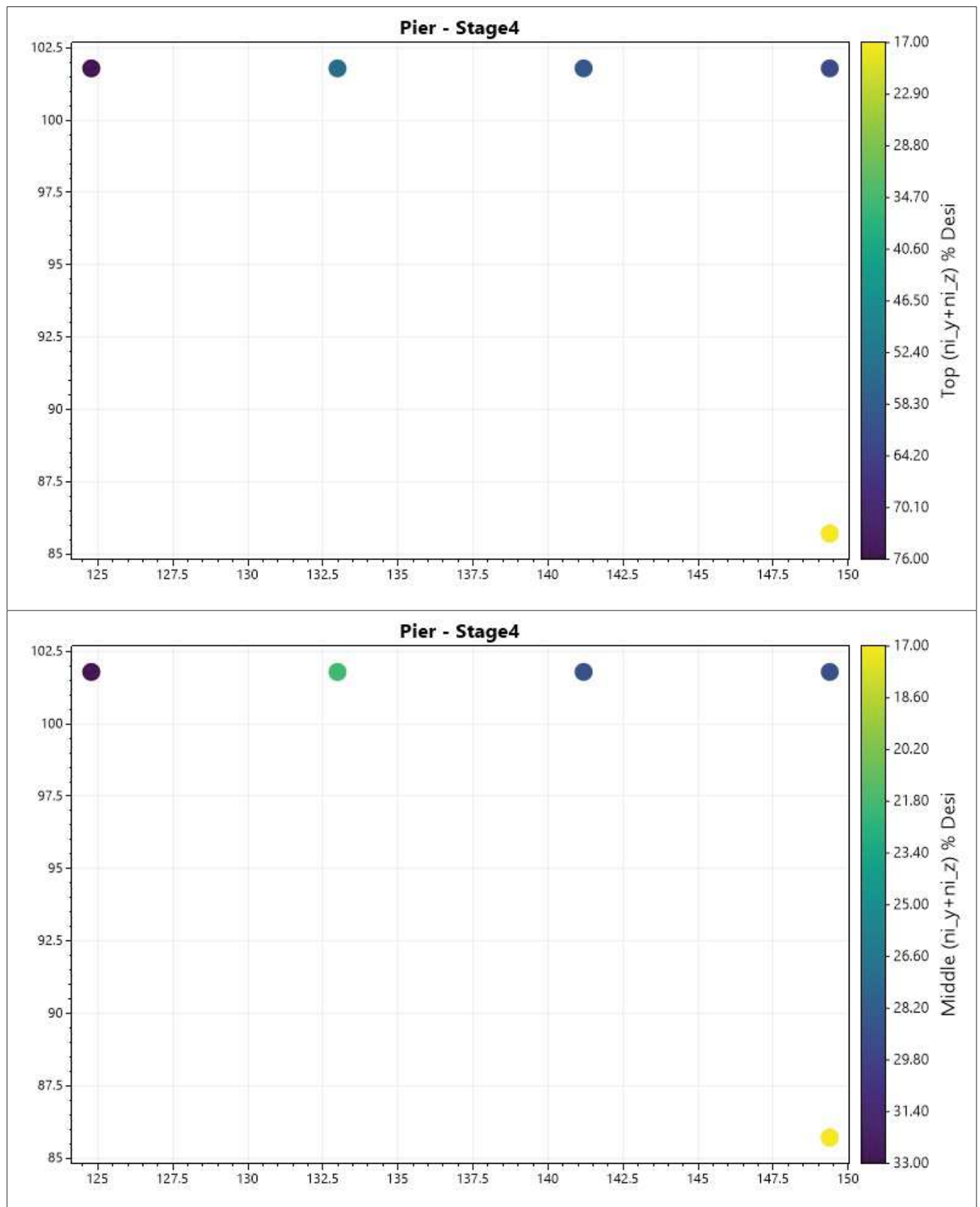
SOFISTIK AG - www.sofistik.de



Geometry definition

Pictures

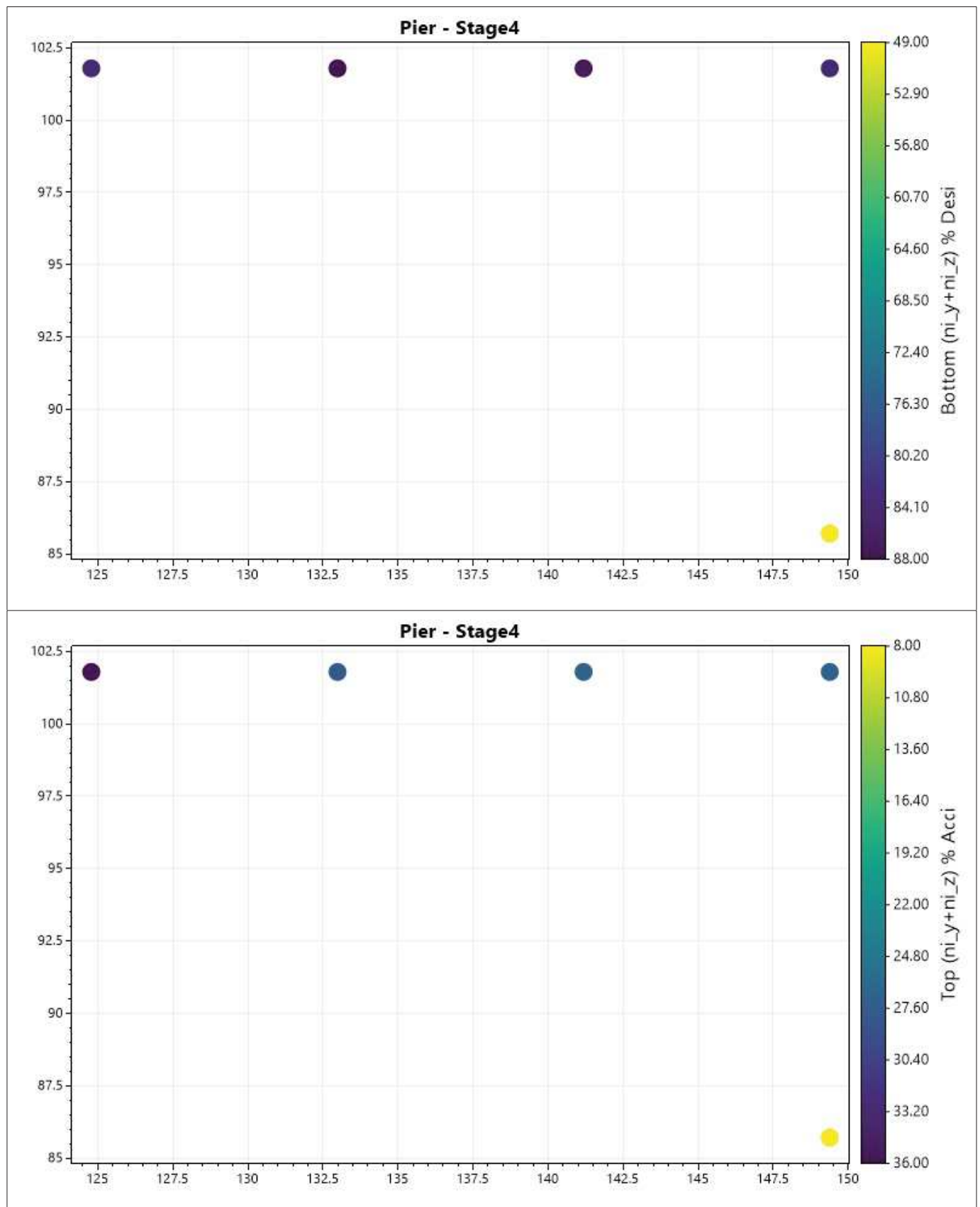
SOFISTIK AG - www.sofistik.de



Geometry definition

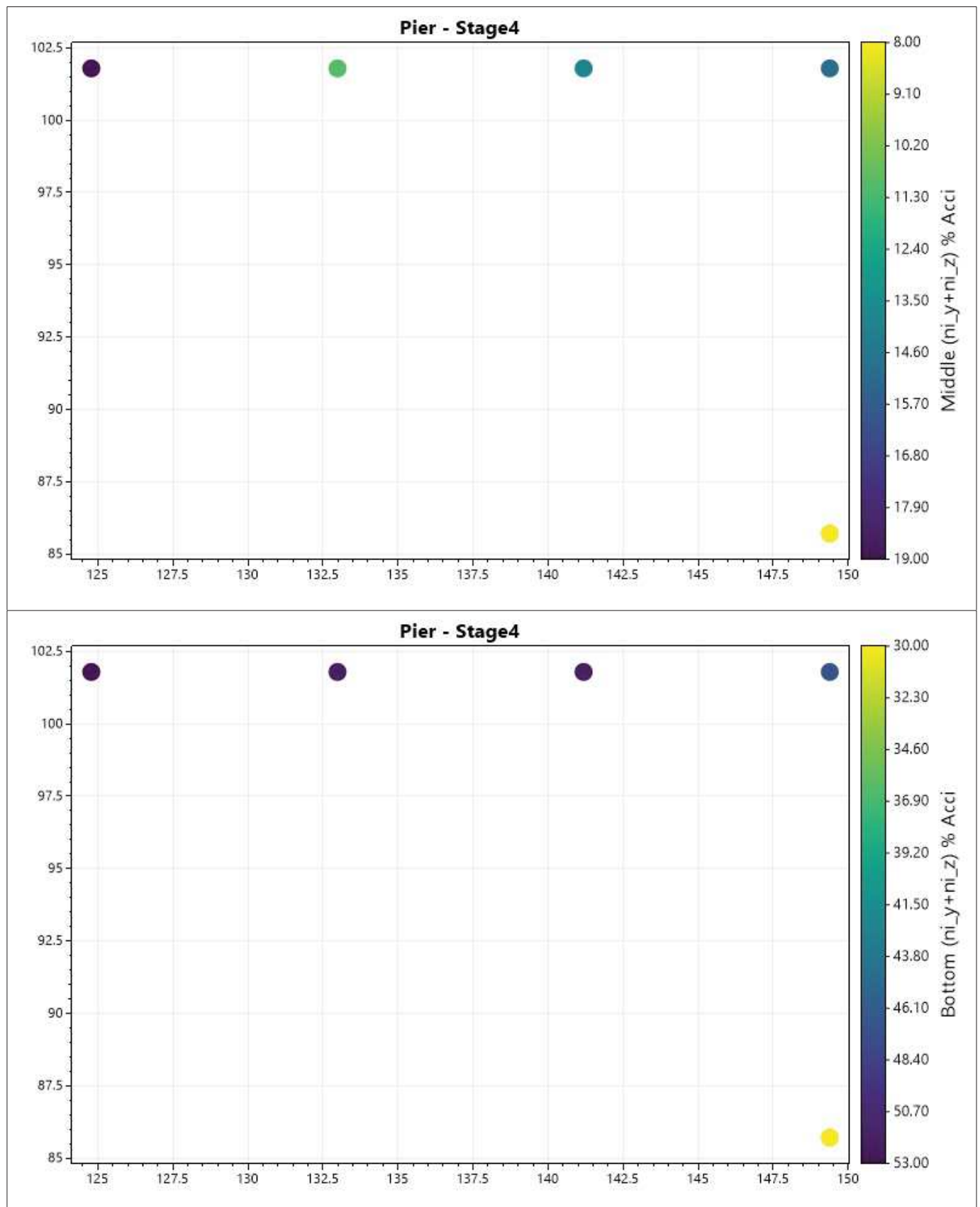
Pictures

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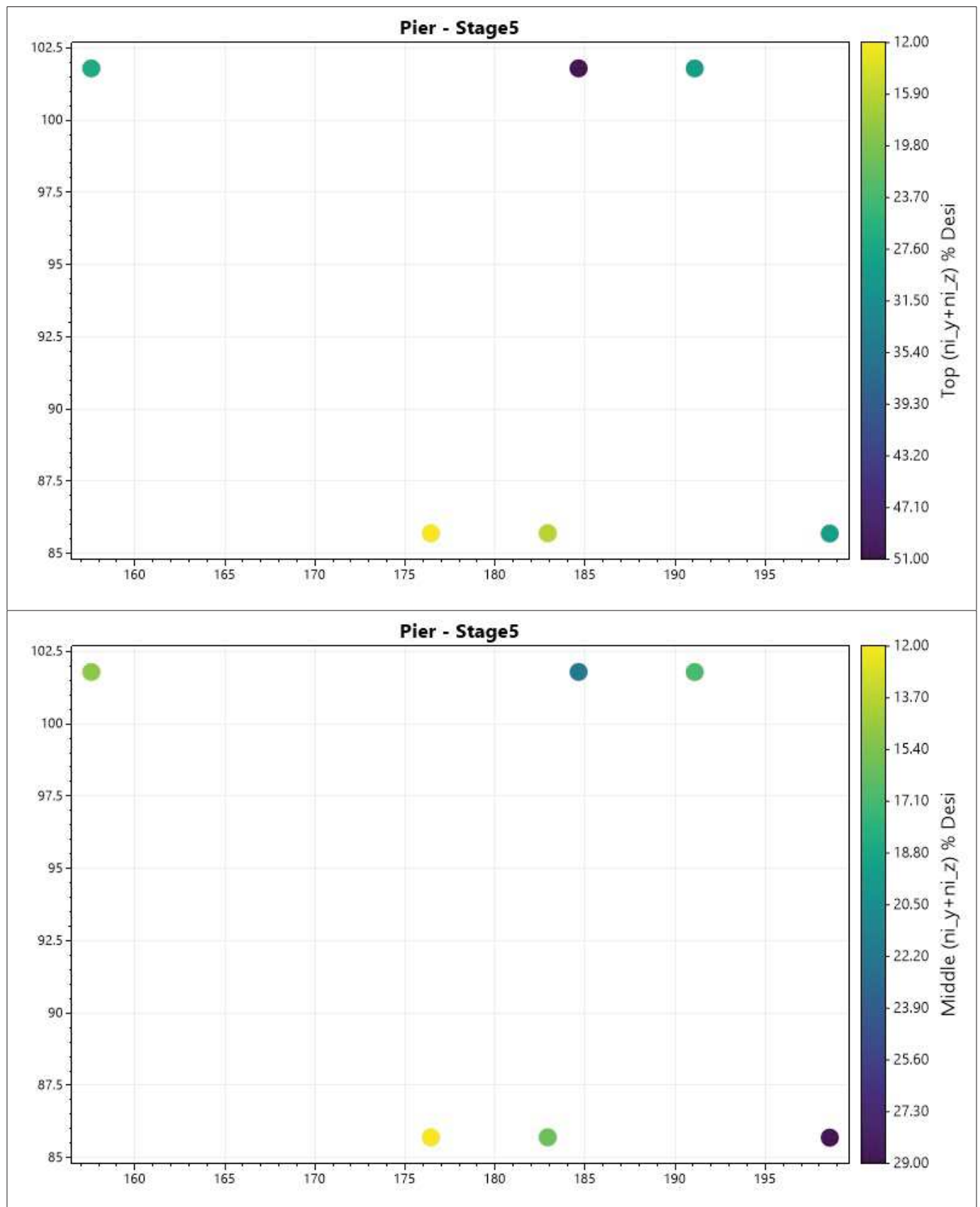
Geometry definition
Pictures

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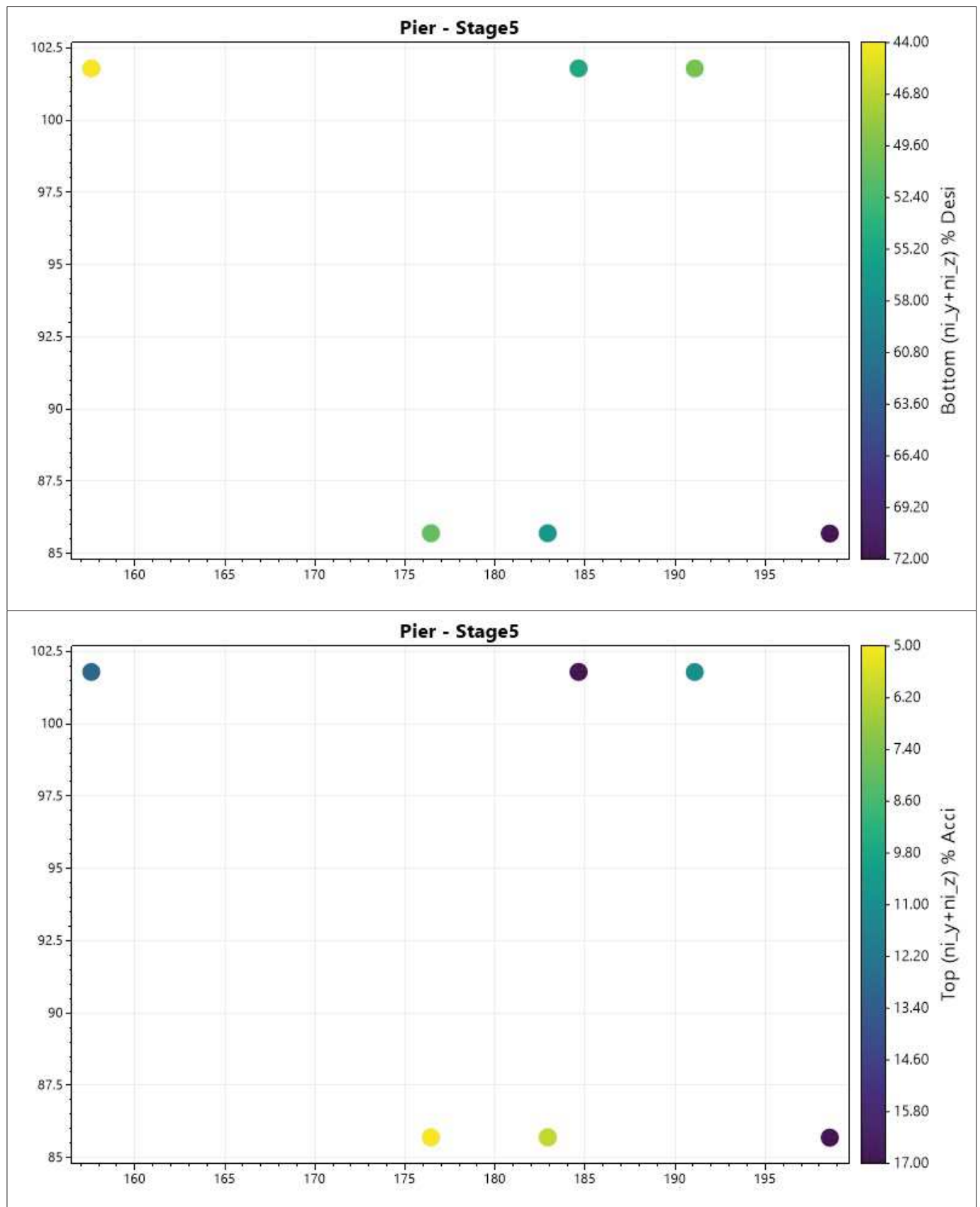
Geometry definition
Pictures

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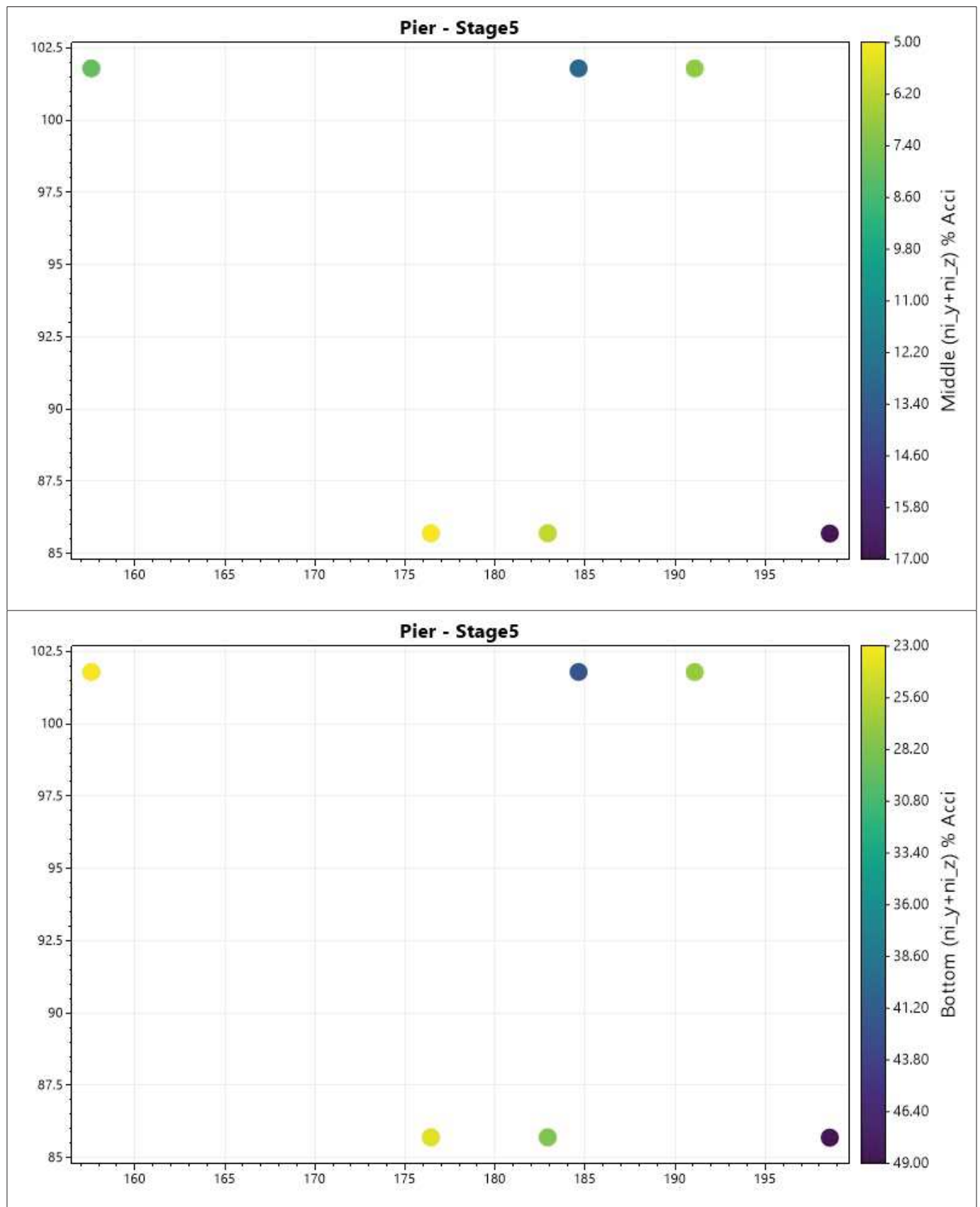
Geometry definition
Pictures

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Geometry definition
Pictures

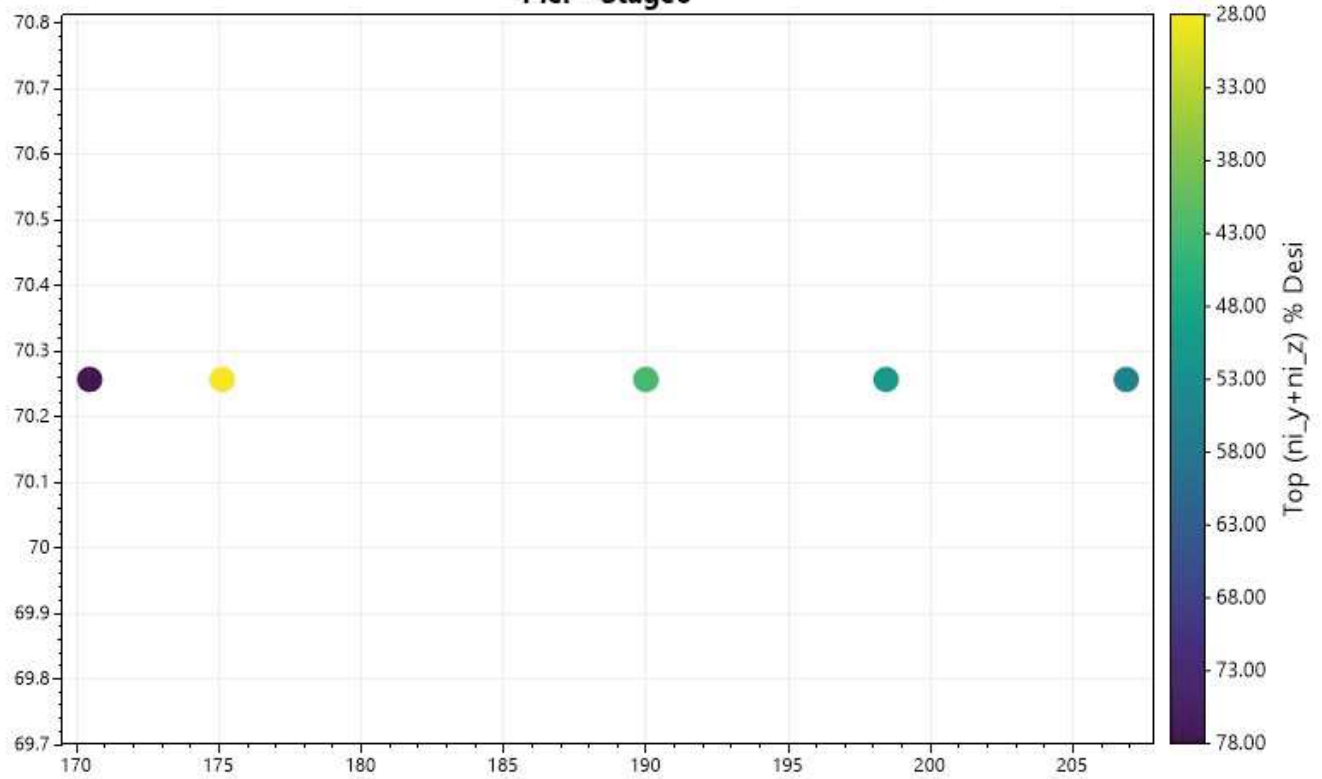
SOFISTIK AG - www.sofistik.de



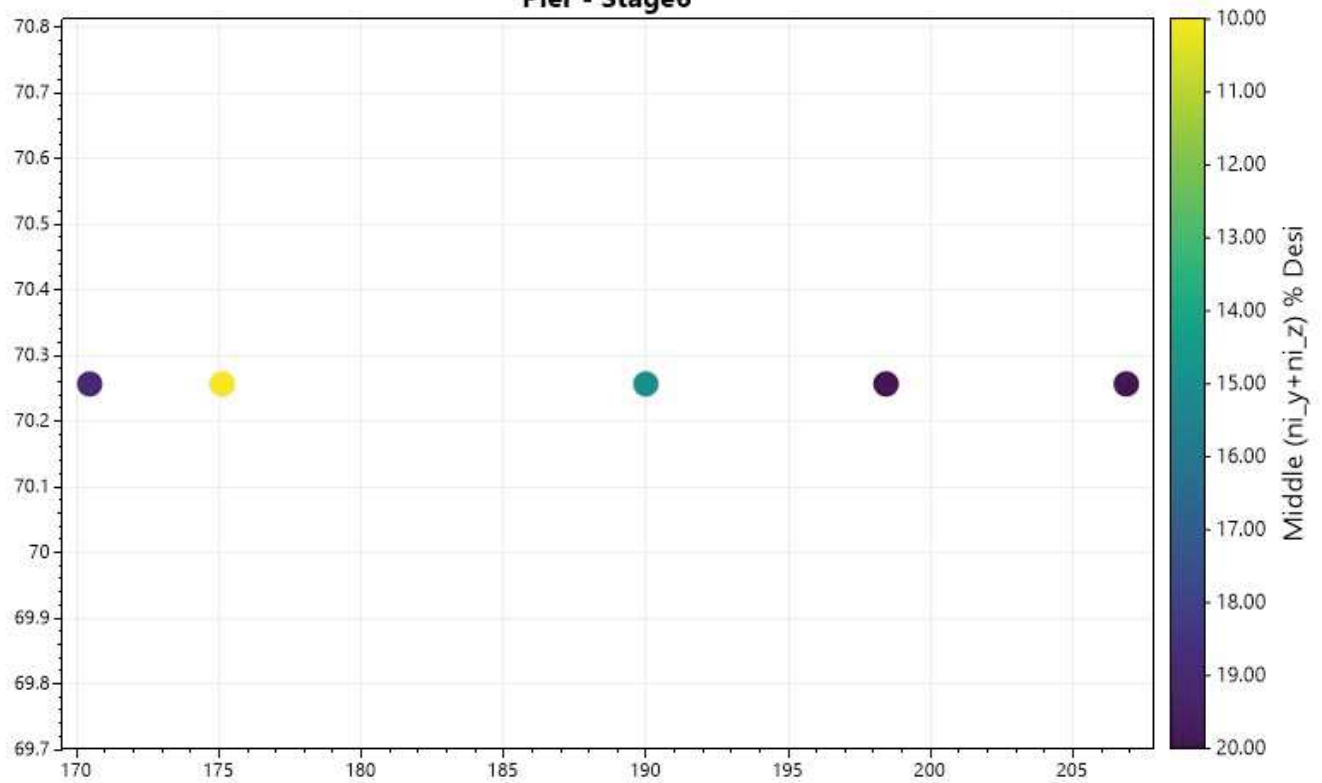
Geometry definition
Pictures

SOFISTIK AG - www.sofistik.de

Pier - Stage6



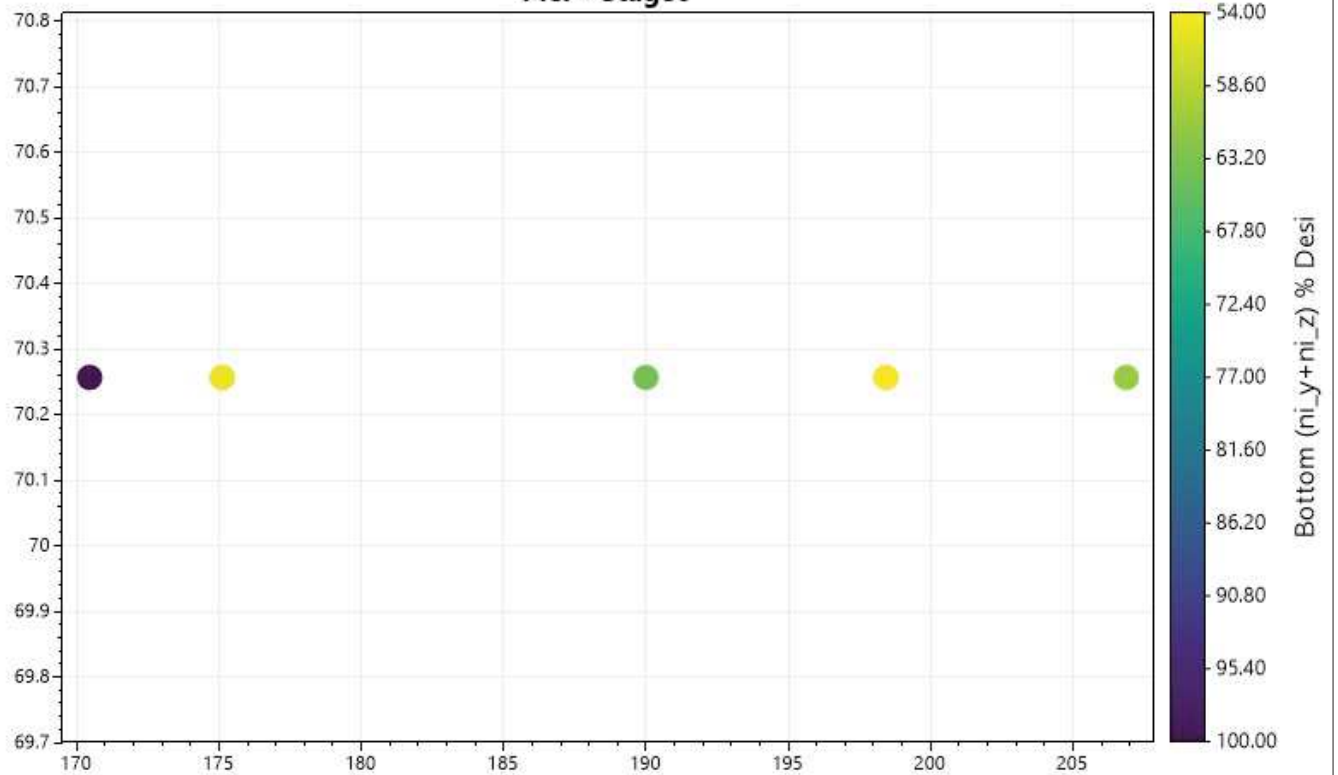
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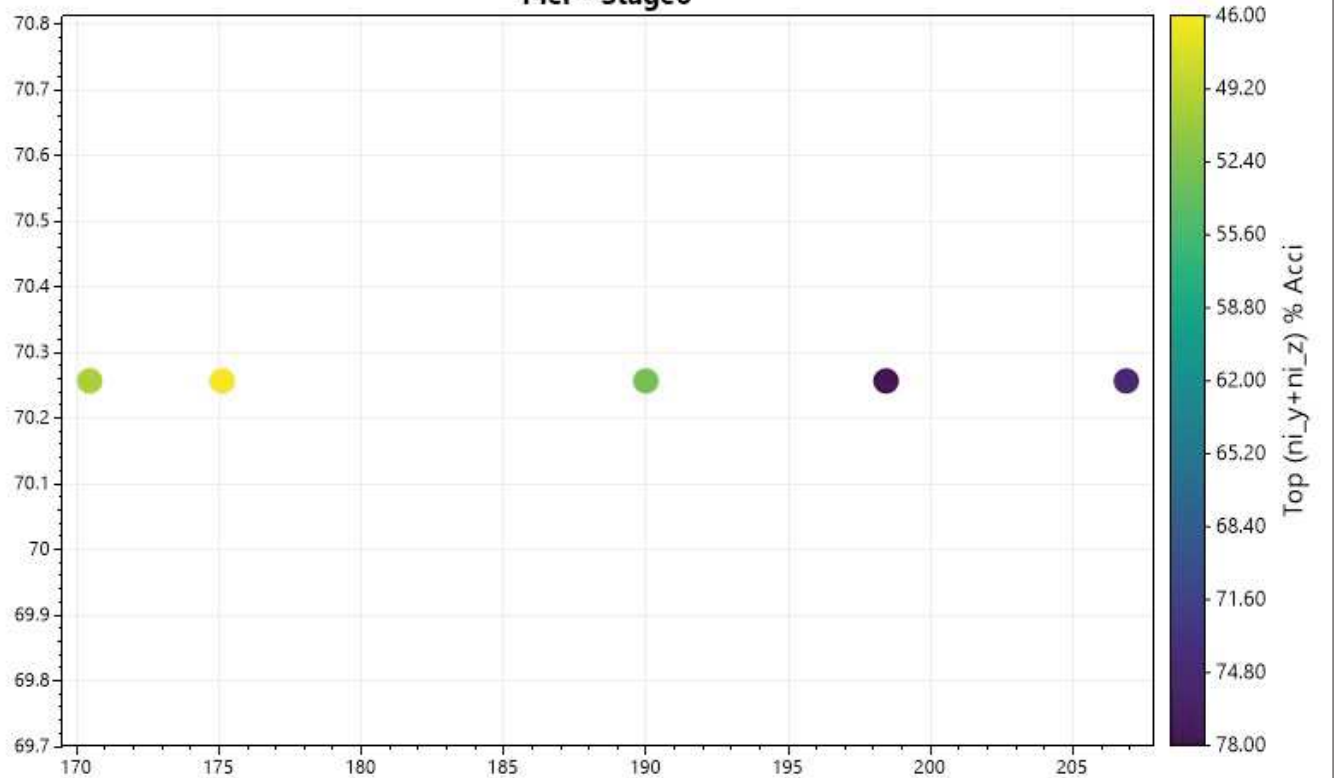
Geometry definition
Pictures

SOFISTIK AG - www.sofistik.de

Pier - Stage6



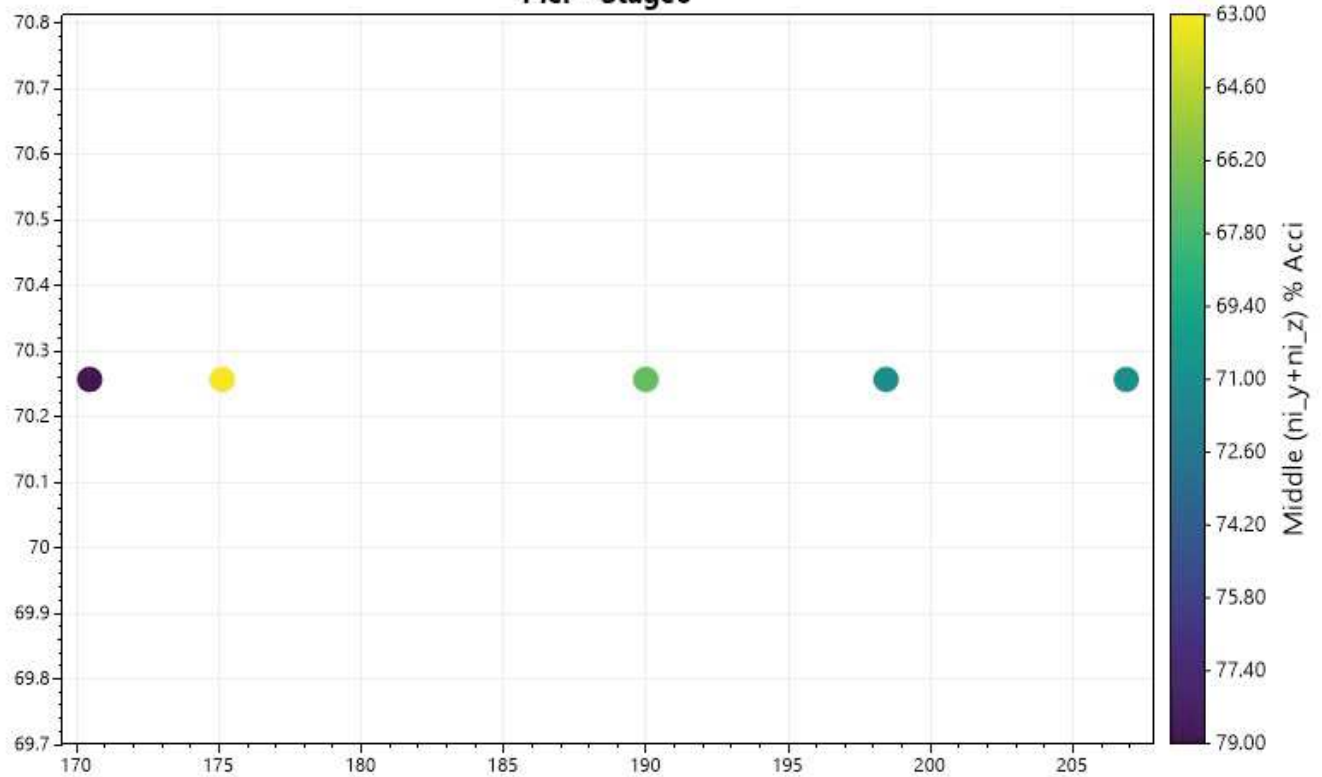
Pier - Stage6



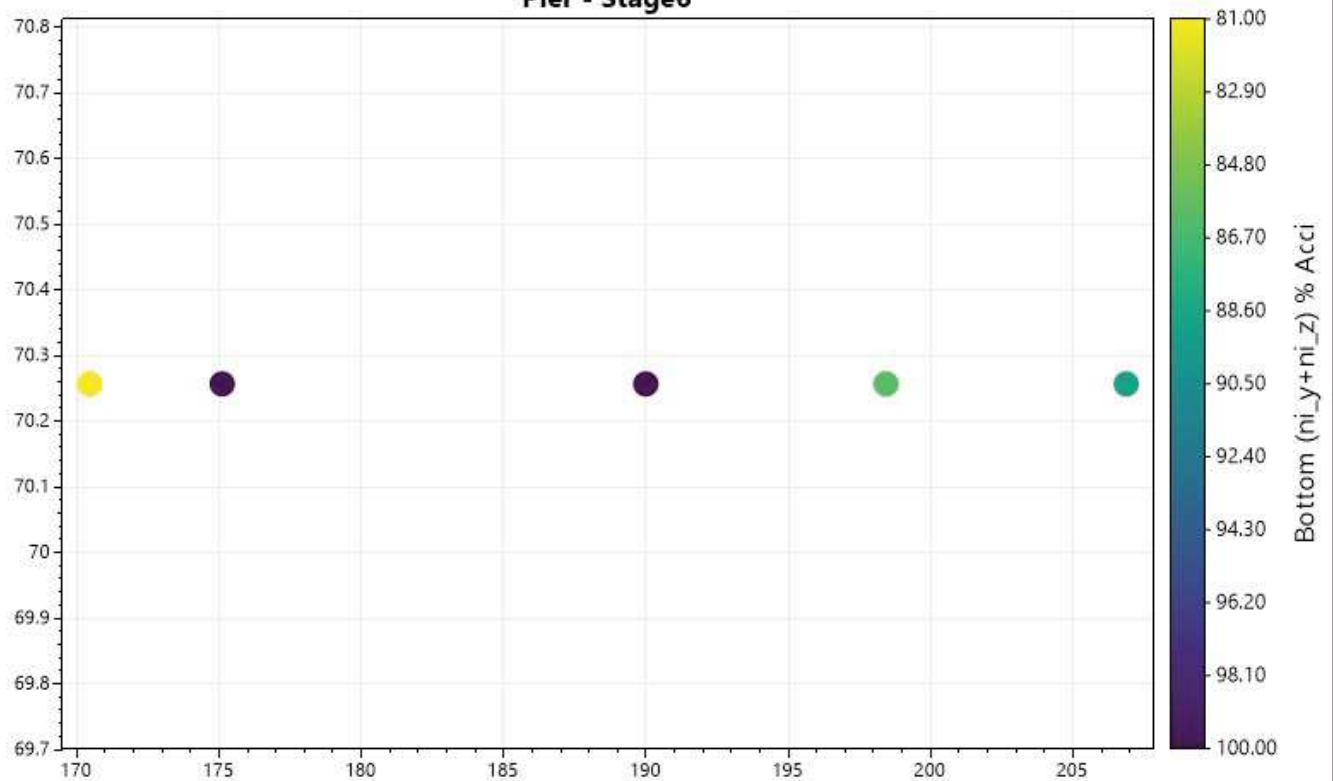
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SOFISTIK AG - www.sofistik.de

Pier - Stage6



Pier - Stage6



Model FL geometry

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Model FL geometry

MAXIMA - SUPERPOSITION OF LOAD CASES

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Model FL geometry

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Model FL geometry

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Design Code

Snow load zone : 1

Mat	Classification
1	C 30/37 (EN 1992) basic mat
2	B 500 B (EN 1992) rc

Cross section No. 1 - Pile D1200

Y

2500. 2000. 1500. 1000. 500. 0. -500. -1000. -1500. -2000. -2500.

mm

Z

500. 0. -500.

1200 1200

1200 1200

SC

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					$\alpha[^\circ]$
1	1	1.1310E+00	9.698E-01	1.018E-01	0.0	0.0	32837	2827.4	
	2 ¹	2.036E-01	9.697E-01	1.018E-01	0.0	0.0	13682	(BEAM)	

SNo	section number	yc[mm],zc[mm]	ordinate of elastic centroid
Mat	material number	ysc[mm],zsc[mm]	ordinate of shear centre
A[m2]	sectional area	E[N/mm2]	Young's modulus
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area	g[kg/m]	mass per length
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia		
I-1[m4],I-2[m4], α°	principal moments of inertia and angle of the principal axes		
MRf	reinforcement material number		
It[m4]	torsional moment of inertia		
G[N/mm2]	Shear modulus		

[illegible]

X[m]	Y[m]	Z[m]	dX[-]	dY[-]	dZ[-]	α [°]	Hgw1[m]	Hgwh[m]
0.000	0.000	22.950	0.000	0.000	1.000	0.0	10.650	10.650
X[m], Y[m], Z[m] dX[-], dY[-], dZ[-] α [°]	coordinates of the start point direction of the bore profile rotation angle of the local axes			Hgw1[m] Hgwh[m]	lowest ground water level highest ground water level			

Model FL geometry
Standard,materials,sections,profiles

Transverse

s [m]	K0-t [kN/m2]	K1-t [kN/m2]	K2-t [kN/m2]	K3-t [kN/m2]	P0 [-]	P1 [-]	P2 [-]	P3 [-]	Pmax [kN/m]
0.000	5000.00				1.00	1.00	1.00	1.00	0.00
3.000									0.00
3.000	24000.00				1.00	1.00	1.00	1.00	0.00
7.000									0.00
7.000	15000.00				1.00	1.00	1.00	1.00	0.00
9.000									0.00
9.000	24000.00				1.00	1.00	1.00	1.00	0.00
10.000									0.00
10.000	68000.00				1.00	1.00	1.00	1.00	0.00
13.000									0.00
13.000	93000.00				1.00	1.00	1.00	1.00	0.00
23.000									0.00
s K0-t,K1-t,K2-t,K3-t P0,P1,P2,P3 Pmax ordinate of the profile axis parameter of the foundation profile form factor as variation along periphery maximum foundation value									

Model FL geometry

Groups

Grp	Number	Type	min-no	max-no	Designation
0	23	BOUN	1	23	
1	576	BEAM	10001	10576	
	48	SPRI	10001	10048	
	624	base	10000	99999	
10	566	QUAD	100001	100566	
11	160	QUAD	110001	110160	
12	1255	QUAD	120001	121255	
20	815	QUAD	200001	200815	
25	1139	QUAD	250001	251139	
30	1002	QUAD	300001	301002	
35	390	QUAD	350001	350390	
40	250	QUAD	400001	400250	
45	194	QUAD	450001	450194	
50	108	QUAD	500001	500108	
55	102	QUAD	550001	550102	
60	88	QUAD	600001	600088	
70	625	QUAD	700001	700625	
75	1540	QUAD	750001	751540	
Grp primary group number Type element type					
Number number of elements within group min-no,max-no minimum/maximum element number					

Summary of beam elements

Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Surface [m2]
1	288.000	0.500	325.720	814.301	1085.734
Sum	288.000		325.720	814.301	1085.734
Grp primary group number					

Summary of quadrilateral elements

Groups

Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material
10	49.888	64.855	162.137	1
11	10.820	11.361	28.402	1
12	118.816	124.757	311.892	1
20	64.535	16.134	40.334	1
25	107.838	26.959	67.399	1
30	81.314	20.328	50.821	1
35	69.613	17.403	43.508	1
40	26.930	6.733	16.831	1
45	19.964	4.991	12.478	1
50	5.797	1.449	3.623	1
55	8.613	2.153	5.383	1
60	5.795	1.449	3.622	1
70	54.905	16.472	41.179	1
75	100.437	30.131	75.328	1
Sum	725.265	345.175	862.938	
Grp primary group number				

Model FL geometry
FL Load definition

Load Case 1 self weight

Factor forces and moments 1.000
Factor dead weight DL-ZZ -1.000

Load Case 5 G1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	10.00 [kN/m2]
				3.936	3.685	26.569		10.00 [kN/m2]
				3.935	9.023	26.570		10.00 [kN/m2]
				0.623	9.023	26.570		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	10.00 [kN/m2]
				9.276	9.023	24.515		10.00 [kN/m2]
				8.046	9.023	24.515		10.00 [kN/m2]
				8.046	3.685	24.515		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	10.00 [kN/m2]
				15.016	9.023	22.260		10.00 [kN/m2]
				13.786	9.023	22.260		10.00 [kN/m2]
				13.786	3.685	22.260		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	10.00 [kN/m2]
				13.786	9.023	22.260		10.00 [kN/m2]
				9.276	9.023	24.515		10.00 [kN/m2]
				9.276	3.685	24.514		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	10.00 [kN/m2]
				19.271	9.023	20.133		10.00 [kN/m2]
				15.016	9.023	22.260		10.00 [kN/m2]
				15.016	3.685	22.260		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	10.00 [kN/m2]
				8.046	9.023	24.515		10.00 [kN/m2]
				3.935	9.023	26.570		10.00 [kN/m2]
				3.936	3.685	26.569		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 29			5.602	0.275	26.570	PG	5.00 [kN/m2]
				5.602	3.685	26.570		5.00 [kN/m2]
				3.326	3.685	26.569		5.00 [kN/m2]
				5.052	0.275	26.570		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 31			8.792	0.275	25.370	PG	5.00 [kN/m2]
				8.792	3.685	25.370		5.00 [kN/m2]
				5.602	3.685	25.370		5.00 [kN/m2]
				5.602	0.275	25.370		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 32	ZZ	0.000	17.710	0.275	20.220	PZZ	5.00 [kN/m2]
				17.710	3.685	20.220		5.00 [kN/m2]
				8.792	3.685	25.370		5.00 [kN/m2]
				8.792	0.275	25.370		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 3			8.553	0.000	18.000	PG	40.00 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				17.710	0.000	18.000		40.00 [kN/m2]
				17.710	3.685	18.000		40.00 [kN/m2]
				15.016	3.685	18.000		40.00 [kN/m2]
				15.016	9.298	18.000		40.00 [kN/m2]
				8.552	9.298	18.000		40.00 [kN/m2]
				activated				100.00 percent
Area	sar 1			0.000	9.298	18.820	PG	40.00 [kN/m2]
				4.723	0.000	18.820		40.00 [kN/m2]
				7.727	0.000	18.820		40.00 [kN/m2]
				7.727	9.298	18.820		40.00 [kN/m2]
				activated				100.00 percent
Line	qgrp 70			5.602	0.275	26.570	PG	15.00 [kN/m]
				5.602	3.685	26.570		15.00 [kN/m]
				activated				100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	28.00 [kN/m]
				17.710	3.685	20.220		28.00 [kN/m]
				activated				100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	12.00 [kN/m]
				23.463	3.685	20.219		12.00 [kN/m]
				activated				100.00 percent

Load Case 50 LL 1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				0.623	9.023	26.570		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				activated				100.00 percent

Load Case 51 LL 2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				9.276	3.685	24.514		7.50 [kN/m2]
							activated	100.00 percent

Load Case 52 LL 3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	7.50 [kN/m2]
				19.271	9.023	20.133		7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				15.016	3.685	22.260		7.50 [kN/m2]
							activated	100.00 percent

Load Case 53 LL 4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 70			5.602	0.275	26.570	PG	38.00 [kN/m]
				5.602	3.685	26.570		38.00 [kN/m]
							activated	100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	68.00 [kN/m]
				17.710	3.685	20.220		68.00 [kN/m]
							activated	100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	30.00 [kN/m]
				23.463	3.685	20.219		30.00 [kN/m]
							activated	100.00 percent

Load Case 54 LL 1+2

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
Selected loads copied from load case 51 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				0.623	9.023	26.570		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				9.276	3.685	24.514		7.50 [kN/m2]
				activated				100.00 percent

Load Case 55 LL 2+3

Factor forces and moments 1.000

Selected loads copied from load case 51 with factor 1.000

Selected loads copied from load case 52 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				9.276	3.685	24.514		7.50 [kN/m2]
				activated				100.00 percent
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	7.50 [kN/m2]
				19.271	9.023	20.133		7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				15.016	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent

Load Case 56 LL 1+2+3

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000

Selected loads copied from load case 51 with factor 1.000

Selected loads copied from load case 52 with factor 1.000

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				0.623	9.023	26.570		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				9.276	3.685	24.514		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	7.50 [kN/m2]
				19.271	9.023	20.133		7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				15.016	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent

Load Case 57 LL 1+2+e

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
 Selected loads copied from load case 51 with factor 1.000
 Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				0.623	9.023	26.570		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar	37		15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Area	sar	36	ZZ	0.000	13.786	3.685	PZZ	7.50 [kN/m2]
					13.786	9.023		7.50 [kN/m2]
					9.276	9.023		7.50 [kN/m2]
					9.276	3.685		7.50 [kN/m2]
				activated				100.00 percent
Line	qgrp	70		5.602	0.275	26.570	PG	38.00 [kN/m]
				5.602	3.685	26.570		38.00 [kN/m]
				activated				100.00 percent
Line	qgrp	50		17.710	0.275	20.220	PG	68.00 [kN/m]
				17.710	3.685	20.220		68.00 [kN/m]
				activated				100.00 percent
Line	qgrp	60		23.463	0.275	20.220	PG	30.00 [kN/m]
				23.463	3.685	20.219		30.00 [kN/m]
				activated				100.00 percent

Load Case 58 LL 2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 51 with factor 1.000
Selected loads copied from load case 52 with factor 1.000
Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value	
				X[m]	Y[m]	Z[m]			
Area	sar	35		9.276	3.685	24.514	PG	7.50 [kN/m2]	
				9.276	9.023	24.515		7.50 [kN/m2]	
				8.046	9.023	24.515		7.50 [kN/m2]	
				8.046	3.685	24.515		7.50 [kN/m2]	
				activated			100.00 percent		
Area	sar	37		15.016	3.685	22.260	PG	7.50 [kN/m2]	
				15.016	9.023	22.260		7.50 [kN/m2]	
				13.786	9.023	22.260		7.50 [kN/m2]	
				13.786	3.685	22.260		7.50 [kN/m2]	
				activated			100.00 percent		
Area	sar	36	ZZ	0.000	13.786	3.685	PZZ	7.50 [kN/m2]	
					13.786	9.023		22.260	7.50 [kN/m2]
					9.276	9.023		24.515	7.50 [kN/m2]
					9.276	3.685		24.514	7.50 [kN/m2]
				activated			100.00 percent		
Area	sar	38	ZZ	0.000	19.271	3.685	PZZ	7.50 [kN/m2]	
					19.271	9.023		20.133	7.50 [kN/m2]
					15.016	9.023		22.260	7.50 [kN/m2]
					15.016	3.685		22.260	7.50 [kN/m2]
				activated			100.00 percent		

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 70			5.602	0.275	26.570	PG	38.00 [kN/m]
				5.602	3.685	26.570		38.00 [kN/m]
				activated				100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	68.00 [kN/m]
				17.710	3.685	20.220		68.00 [kN/m]
				activated				100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	30.00 [kN/m]
				23.463	3.685	20.219		30.00 [kN/m]
				activated				100.00 percent

Load Case 59 LL 1+2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
Selected loads copied from load case 51 with factor 1.000
Selected loads copied from load case 52 with factor 1.000
Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				0.623	9.023	26.570		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				3.935	9.023	26.570		7.50 [kN/m2]
				3.936	3.685	26.569		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				8.046	9.023	24.515		7.50 [kN/m2]
				8.046	3.685	24.515		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				13.786	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	7.50 [kN/m2]
				13.786	9.023	22.260		7.50 [kN/m2]
				9.276	9.023	24.515		7.50 [kN/m2]
				9.276	3.685	24.514		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	7.50 [kN/m2]
				19.271	9.023	20.133		7.50 [kN/m2]
				15.016	9.023	22.260		7.50 [kN/m2]
				15.016	3.685	22.260		7.50 [kN/m2]
				activated				100.00 percent
Line	qgrp 70			5.602	0.275	26.570	PG	38.00 [kN/m]
				5.602	3.685	26.570		38.00 [kN/m]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	68.00 [kN/m]
				17.710	3.685	20.220		68.00 [kN/m]
							activated	100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	30.00 [kN/m]
				23.463	3.685	20.219		30.00 [kN/m]
							activated	100.00 percent

Load Case 60 S 1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				0.623	9.023	26.570		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
							activated	100.00 percent

Load Case 61 S 2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
							activated	100.00 percent

Load Case 62 S 3

Factor forces and moments 1.000

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	2.50 [kN/m2]
				19.271	9.023	20.133		2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				15.016	3.685	22.260		2.50 [kN/m2]
							activated	100.00 percent

Load Case 63 S 4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp 70			5.602	0.275	26.570	PG	13.00 [kN/m]
				5.602	3.685	26.570		13.00 [kN/m]
							activated	100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	23.00 [kN/m]
				17.710	3.685	20.220		23.00 [kN/m]
							activated	100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	10.00 [kN/m]
				23.463	3.685	20.219		10.00 [kN/m]
							activated	100.00 percent

Load Case 64 S 1+2

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
Selected loads copied from load case 61 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				0.623	9.023	26.570		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent

Load Case 65 S 2+3

Factor forces and moments 1.000

Selected loads copied from load case 61 with factor 1.000
Selected loads copied from load case 62 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	2.50 [kN/m2]
				19.271	9.023	20.133		2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				15.016	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent

Load Case 66 S 1+2+3

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
Selected loads copied from load case 61 with factor 1.000
Selected loads copied from load case 62 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				0.623	9.023	26.570		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	2.50 [kN/m2]
				19.271	9.023	20.133		2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				15.016	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent

Load Case 67 S 1+2+e

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
 Selected loads copied from load case 61 with factor 1.000
 Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				0.623	9.023	26.570		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent
Line	qgrp 70			5.602	0.275	26.570	PG	13.00 [kN/m]
				5.602	3.685	26.570		13.00 [kN/m]
				activated				100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	23.00 [kN/m]
				17.710	3.685	20.220		23.00 [kN/m]
				activated				100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	10.00 [kN/m]
				23.463	3.685	20.219		10.00 [kN/m]
				activated				100.00 percent

Load Case 68 S 2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 61 with factor 1.000
Selected loads copied from load case 62 with factor 1.000
Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	2.50 [kN/m2]
				19.271	9.023	20.133		2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				15.016	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Line	qgrp 70			5.602	0.275	26.570	PG	13.00 [kN/m]
				5.602	3.685	26.570		13.00 [kN/m]
				activated				100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	23.00 [kN/m]
				17.710	3.685	20.220		23.00 [kN/m]
				activated				100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	10.00 [kN/m]
				23.463	3.685	20.219		10.00 [kN/m]
				activated				100.00 percent

Model FL geometry
FL Load definition

Load Case 69 S 1+2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
Selected loads copied from load case 61 with factor 1.000
Selected loads copied from load case 62 with factor 1.000
Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 33			3.326	3.685	26.569	PG	2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				0.623	9.023	26.570		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 34	ZZ	0.000	8.046	3.685	24.515	PZZ	2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				3.935	9.023	26.570		2.50 [kN/m2]
				3.936	3.685	26.569		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35			9.276	3.685	24.514	PG	2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				8.046	9.023	24.515		2.50 [kN/m2]
				8.046	3.685	24.515		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 37			15.016	3.685	22.260	PG	2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				13.786	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 36	ZZ	0.000	13.786	3.685	22.260	PZZ	2.50 [kN/m2]
				13.786	9.023	22.260		2.50 [kN/m2]
				9.276	9.023	24.515		2.50 [kN/m2]
				9.276	3.685	24.514		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 38	ZZ	0.000	19.271	3.685	20.133	PZZ	2.50 [kN/m2]
				19.271	9.023	20.133		2.50 [kN/m2]
				15.016	9.023	22.260		2.50 [kN/m2]
				15.016	3.685	22.260		2.50 [kN/m2]
				activated				100.00 percent
Line	qgrp 70			5.602	0.275	26.570	PG	13.00 [kN/m]
				5.602	3.685	26.570		13.00 [kN/m]
				activated				100.00 percent
Line	qgrp 50			17.710	0.275	20.220	PG	23.00 [kN/m]
				17.710	3.685	20.220		23.00 [kN/m]
				activated				100.00 percent
Line	qgrp 60			23.463	0.275	20.220	PG	10.00 [kN/m]
				23.463	3.685	20.219		10.00 [kN/m]
				activated				100.00 percent

Load Case 70 Wind

Factor forces and moments 1.000

Model FL geometry
FL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 5			5.052	0.275	19.470	PYY	10.00 [kN/m2]
				23.463	0.275	19.470		10.00 [kN/m2]
				23.463	0.275	20.220		10.00 [kN/m2]
				17.710	0.275	20.220		10.00 [kN/m2]
				8.792	0.275	25.370		10.00 [kN/m2]
				5.602	0.275	25.370		10.00 [kN/m2]
				5.602	0.275	26.570		10.00 [kN/m2]
				5.052	0.275	26.570		10.00 [kN/m2]
				activated (--)				88.85 percent
Area	sar 4			8.553	0.275	18.520	PYY	10.00 [kN/m2]
				23.463	0.275	18.520		10.00 [kN/m2]
				23.463	0.275	19.470		10.00 [kN/m2]
				8.553	0.275	19.470		10.00 [kN/m2]
				activated				100.00 percent

Load Case 71 Wind

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 11			0.623	9.023	19.470	PYY	-10.00 [kN/m2]
				19.271	9.023	19.470		-10.00 [kN/m2]
				19.271	9.023	20.133		-10.00 [kN/m2]
				15.016	9.023	22.260		-10.00 [kN/m2]
				13.786	9.023	22.260		-10.00 [kN/m2]
				9.276	9.023	24.515		-10.00 [kN/m2]
				8.046	9.023	24.515		-10.00 [kN/m2]
				3.935	9.023	26.570		-10.00 [kN/m2]
				0.623	9.023	26.570		-10.00 [kN/m2]
				activated (--)				85.56 percent
Area	sar 10			19.271	9.023	18.520	PYY	-10.00 [kN/m2]
				8.552	9.023	18.520		-10.00 [kN/m2]
				8.552	9.023	19.470		-10.00 [kN/m2]
				19.271	9.023	19.470		-10.00 [kN/m2]
				activated				100.00 percent

Model FL geometry
Superposition of loads

Design Code

EuroNorm Bridges: EN 1990:2002 Basis of structural design (Europe) V 2023

Combination rule Number 1

CR

Resulting Load Cases type SLS quasi-permanent combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Combination rule Number 2

LL

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
50	1.00	A1	LL 1
51	1.00	A1	LL 2
52	1.00	A1	LL 3
53	1.00	A1	LL 4
54	1.00	A1	LL 1+2
55	1.00	A1	LL 2+3
56	1.00	A1	LL 1+2+3
57	1.00	A1	LL 1+2+e
58	1.00	A1	LL 2+3+e
59	1.00	A1	LL 1+2+3+e
60	0.50	A2	S 1
61	0.50	A2	S 2
62	0.50	A2	S 3
63	0.50	A2	S 4
64	0.50	A2	S 1+2
65	0.50	A2	S 2+3
66	0.50	A2	S 1+2+3
67	0.50	A2	S 1+2+e
68	0.50	A2	S 2+3+e
69	0.50	A2	S 1+2+3+e
70	0.60	A3	Wind
71	0.60	A3	Wind
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

Combination rule Number 3

W

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1

Model FL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
70	1.00	A3	Wind
71	1.00	A3	Wind
50	0.70	A1	LL 1
51	0.70	A1	LL 2
52	0.70	A1	LL 3
53	0.70	A1	LL 4
54	0.70	A1	LL 1+2
55	0.70	A1	LL 2+3
56	0.70	A1	LL 1+2+3
57	0.70	A1	LL 1+2+e
58	0.70	A1	LL 2+3+e
59	0.70	A1	LL 1+2+3+e
60	0.50	A2	S 1
61	0.50	A2	S 2
62	0.50	A2	S 3
63	0.50	A2	S 4
64	0.50	A2	S 1+2
65	0.50	A2	S 2+3
66	0.50	A2	S 1+2+3
67	0.50	A2	S 1+2+e
68	0.50	A2	S 2+3+e
69	0.50	A2	S 1+2+3+e
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 4

WU

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.00	A3	Wind
71	1.00	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 5

Inf-LL

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
50	1.50	A1	LL 1
51	1.50	A1	LL 2
52	1.50	A1	LL 3
53	1.50	A1	LL 4
54	1.50	A1	LL 1+2
55	1.50	A1	LL 2+3
56	1.50	A1	LL 1+2+3

Model FL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
57	1.50	A1	LL 1+2+e
58	1.50	A1	LL 2+3+e
59	1.50	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
70	0.90	A3	Wind
71	0.90	A3	Wind
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

Combination rule Number 6

Sup-LL
Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
50	1.50	A1	LL 1
51	1.50	A1	LL 2
52	1.50	A1	LL 3
53	1.50	A1	LL 4
54	1.50	A1	LL 1+2
55	1.50	A1	LL 2+3
56	1.50	A1	LL 1+2+3
57	1.50	A1	LL 1+2+e
58	1.50	A1	LL 2+3+e
59	1.50	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
70	0.90	A3	Wind
71	0.90	A3	Wind
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

Model FL geometry
Superposition of loads

Combination rule Number 7

Inf-W

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
50	1.05	A1	LL 1
51	1.05	A1	LL 2
52	1.05	A1	LL 3
53	1.05	A1	LL 4
54	1.05	A1	LL 1+2
55	1.05	A1	LL 2+3
56	1.05	A1	LL 1+2+3
57	1.05	A1	LL 1+2+e
58	1.05	A1	LL 2+3+e
59	1.05	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

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Combination rule Number 8

Sup-W

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
50	1.05	A1	LL 1
51	1.05	A1	LL 2
52	1.05	A1	LL 3
53	1.05	A1	LL 4
54	1.05	A1	LL 1+2
55	1.05	A1	LL 2+3
56	1.05	A1	LL 1+2+3
57	1.05	A1	LL 1+2+e
58	1.05	A1	LL 2+3+e
59	1.05	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2

Model FL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 9

Inf-WU

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 10

Sup-WU

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Generated Load Cases

Number	Combination	Designation
1000	1	MAXP-N BEAM CR
1001	1	MINP-N BEAM CR
1002	1	MAXP-MY BEAM CR
1003	1	MINP-MY BEAM CR
1004	1	MAXP-MZ BEAM CR
1005	1	MINP-MZ BEAM CR
1006	1	MAXP-VY BEAM CR
1007	1	MINP-VY BEAM CR
1008	1	MAXP-VZ BEAM CR
1009	1	MINP-VZ BEAM CR
1010	1	MAXP-NXX QUAD CR
1011	1	MINP-NXX QUAD CR
1012	1	MAXP-NYY QUAD CR

Model FL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1013	1	MINP-NYY QUAD CR
1014	1	MAXP-NXY QUAD CR
1015	1	MINP-NXY QUAD CR
1016	1	MAXP-MXX QUAD CR
1017	1	MINP-MXX QUAD CR
1018	1	MAXP-MYY QUAD CR
1019	1	MINP-MYY QUAD CR
1020	1	MAXP-MXY QUAD CR
1021	1	MINP-MXY QUAD CR
1022	1	MAXP-VY QUAD CR
1023	1	MINP-VY QUAD CR
1024	1	MAXP-VX QUAD CR
1025	1	MINP-VX QUAD CR
1100	2	MAXR-N BEAM LL
1101	2	MINR-N BEAM LL
1102	2	MAXR-MY BEAM LL
1103	2	MINR-MY BEAM LL
1104	2	MAXR-MZ BEAM LL
1105	2	MINR-MZ BEAM LL
1106	2	MAXR-VY BEAM LL
1107	2	MINR-VY BEAM LL
1108	2	MAXR-VZ BEAM LL
1109	2	MINR-VZ BEAM LL
1110	2	MAXR-MXX QUAD LL
1111	2	MINR-MXX QUAD LL
1112	2	MAXR-MYY QUAD LL
1113	2	MINR-MYY QUAD LL
1114	2	MAXR-MXY QUAD LL
1115	2	MINR-MXY QUAD LL
1116	2	MAXR-NXX QUAD LL
1117	2	MINR-NXX QUAD LL
1118	2	MAXR-NYY QUAD LL
1119	2	MINR-NYY QUAD LL
1120	2	MAXR-NXY QUAD LL
1121	2	MINR-NXY QUAD LL
1122	2	MAXR-VY QUAD LL
1123	2	MINR-VY QUAD LL
1124	2	MAXR-VX QUAD LL
1125	2	MINR-VX QUAD LL
1126	3	MAXR-N BEAM W
1127	3	MINR-N BEAM W
1128	3	MAXR-MY BEAM W
1129	3	MINR-MY BEAM W
1130	3	MAXR-MZ BEAM W
1131	3	MINR-MZ BEAM W
1132	3	MAXR-VY BEAM W
1133	3	MINR-VY BEAM W
1134	3	MAXR-VZ BEAM W
1135	3	MINR-VZ BEAM W
1136	3	MAXR-MXX QUAD W
1137	3	MINR-MXX QUAD W
1138	3	MAXR-MYY QUAD W
1139	3	MINR-MYY QUAD W
1140	3	MAXR-MXY QUAD W

Model FL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1141	3	MINR-MXY QUAD W
1142	3	MAXR-NXX QUAD W
1143	3	MINR-NXX QUAD W
1144	3	MAXR-NYY QUAD W
1145	3	MINR-NYY QUAD W
1146	3	MAXR-NXY QUAD W
1147	3	MINR-NXY QUAD W
1148	3	MAXR-VY QUAD W
1149	3	MINR-VY QUAD W
1150	3	MAXR-VX QUAD W
1151	3	MINR-VX QUAD W
1152	4	MAXR-N BEAM WU
1153	4	MINR-N BEAM WU
1154	4	MAXR-MY BEAM WU
1155	4	MINR-MY BEAM WU
1156	4	MAXR-MZ BEAM WU
1157	4	MINR-MZ BEAM WU
1158	4	MAXR-VY BEAM WU
1159	4	MINR-VY BEAM WU
1160	4	MAXR-VZ BEAM WU
1161	4	MINR-VZ BEAM WU
1162	4	MAXR-MXX QUAD WU
1163	4	MINR-MXX QUAD WU
1164	4	MAXR-MYY QUAD WU
1165	4	MINR-MYY QUAD WU
1166	4	MAXR-MXY QUAD WU
1167	4	MINR-MXY QUAD WU
1168	4	MAXR-NXX QUAD WU
1169	4	MINR-NXX QUAD WU
1170	4	MAXR-NYY QUAD WU
1171	4	MINR-NYY QUAD WU
1172	4	MAXR-NXY QUAD WU
1173	4	MINR-NXY QUAD WU
1174	4	MAXR-VY QUAD WU
1175	4	MINR-VY QUAD WU
1176	4	MAXR-VX QUAD WU
1177	4	MINR-VX QUAD WU
2000	5	MAX-N BEAM Inf-LL
2001	5	MIN-N BEAM Inf-LL
2002	5	MAX-MY BEAM Inf-LL
2003	5	MIN-MY BEAM Inf-LL
2004	5	MAX-MZ BEAM Inf-LL
2005	5	MIN-MZ BEAM Inf-LL
2006	5	MAX-VY BEAM Inf-LL
2007	5	MIN-VY BEAM Inf-LL
2008	5	MAX-VZ BEAM Inf-LL
2009	5	MIN-VZ BEAM Inf-LL
2010	5	MAX-MXX QUAD Inf-LL
2011	5	MIN-MXX QUAD Inf-LL
2012	5	MAX-MYY QUAD Inf-LL
2013	5	MIN-MYY QUAD Inf-LL
2014	5	MAX-MXY QUAD Inf-LL
2015	5	MIN-MXY QUAD Inf-LL
2016	5	MAX-NXX QUAD Inf-LL

Model FL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2017	5	MIN-NXX QUAD Inf-LL
2018	5	MAX-NYY QUAD Inf-LL
2019	5	MIN-NYY QUAD Inf-LL
2020	5	MAX-NXY QUAD Inf-LL
2021	5	MIN-NXY QUAD Inf-LL
2022	5	MAX-VY QUAD Inf-LL
2023	5	MIN-VY QUAD Inf-LL
2024	5	MAX-VX QUAD Inf-LL
2025	5	MIN-VX QUAD Inf-LL
2026	6	MAX-N BEAM Sup-LL
2027	6	MIN-N BEAM Sup-LL
2028	6	MAX-MY BEAM Sup-LL
2029	6	MIN-MY BEAM Sup-LL
2030	6	MAX-MZ BEAM Sup-LL
2031	6	MIN-MZ BEAM Sup-LL
2032	6	MAX-VY BEAM Sup-LL
2033	6	MIN-VY BEAM Sup-LL
2034	6	MAX-VZ BEAM Sup-LL
2035	6	MIN-VZ BEAM Sup-LL
2036	6	MAX-MXX QUAD Sup-LL
2037	6	MIN-MXX QUAD Sup-LL
2038	6	MAX-MYY QUAD Sup-LL
2039	6	MIN-MYY QUAD Sup-LL
2040	6	MAX-MXY QUAD Sup-LL
2041	6	MIN-MXY QUAD Sup-LL
2042	6	MAX-NXX QUAD Sup-LL
2043	6	MIN-NXX QUAD Sup-LL
2044	6	MAX-NYY QUAD Sup-LL
2045	6	MIN-NYY QUAD Sup-LL
2046	6	MAX-NXY QUAD Sup-LL
2047	6	MIN-NXY QUAD Sup-LL
2048	6	MAX-VY QUAD Sup-LL
2049	6	MIN-VY QUAD Sup-LL
2050	6	MAX-VX QUAD Sup-LL
2051	6	MIN-VX QUAD Sup-LL
2052	7	MAX-N BEAM Inf-W
2053	7	MIN-N BEAM Inf-W
2054	7	MAX-MY BEAM Inf-W
2055	7	MIN-MY BEAM Inf-W
2056	7	MAX-MZ BEAM Inf-W
2057	7	MIN-MZ BEAM Inf-W
2058	7	MAX-VY BEAM Inf-W
2059	7	MIN-VY BEAM Inf-W
2060	7	MAX-VZ BEAM Inf-W
2061	7	MIN-VZ BEAM Inf-W
2062	7	MAX-MXX QUAD Inf-W
2063	7	MIN-MXX QUAD Inf-W
2064	7	MAX-MYY QUAD Inf-W
2065	7	MIN-MYY QUAD Inf-W
2066	7	MAX-MXY QUAD Inf-W
2067	7	MIN-MXY QUAD Inf-W
2068	7	MAX-NXX QUAD Inf-W
2069	7	MIN-NXX QUAD Inf-W
2070	7	MAX-NYY QUAD Inf-W

Model FL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2071	7	MIN-NYY QUAD Inf-W
2072	7	MAX-NXY QUAD Inf-W
2073	7	MIN-NXY QUAD Inf-W
2074	7	MAX-VY QUAD Inf-W
2075	7	MIN-VY QUAD Inf-W
2076	7	MAX-VX QUAD Inf-W
2077	7	MIN-VX QUAD Inf-W
2078	8	MAX-N BEAM Sup-W
2079	8	MIN-N BEAM Sup-W
2080	8	MAX-MY BEAM Sup-W
2081	8	MIN-MY BEAM Sup-W
2082	8	MAX-MZ BEAM Sup-W
2083	8	MIN-MZ BEAM Sup-W
2084	8	MAX-VY BEAM Sup-W
2085	8	MIN-VY BEAM Sup-W
2086	8	MAX-VZ BEAM Sup-W
2087	8	MIN-VZ BEAM Sup-W
2088	8	MAX-MXX QUAD Sup-W
2089	8	MIN-MXX QUAD Sup-W
2090	8	MAX-MYY QUAD Sup-W
2091	8	MIN-MYY QUAD Sup-W
2092	8	MAX-MXY QUAD Sup-W
2093	8	MIN-MXY QUAD Sup-W
2094	8	MAX-NXX QUAD Sup-W
2095	8	MIN-NXX QUAD Sup-W
2096	8	MAX-NYY QUAD Sup-W
2097	8	MIN-NYY QUAD Sup-W
2098	8	MAX-NXY QUAD Sup-W
2099	8	MIN-NXY QUAD Sup-W
2100	8	MAX-VY QUAD Sup-W
2101	8	MIN-VY QUAD Sup-W
2102	8	MAX-VX QUAD Sup-W
2103	8	MIN-VX QUAD Sup-W
2104	9	MAX-N BEAM Inf-WU
2105	9	MIN-N BEAM Inf-WU
2106	9	MAX-MY BEAM Inf-WU
2107	9	MIN-MY BEAM Inf-WU
2108	9	MAX-MZ BEAM Inf-WU
2109	9	MIN-MZ BEAM Inf-WU
2110	9	MAX-VY BEAM Inf-WU
2111	9	MIN-VY BEAM Inf-WU
2112	9	MAX-VZ BEAM Inf-WU
2113	9	MIN-VZ BEAM Inf-WU
2114	9	MAX-MXX QUAD Inf-WU
2115	9	MIN-MXX QUAD Inf-WU
2116	9	MAX-MYY QUAD Inf-WU
2117	9	MIN-MYY QUAD Inf-WU
2118	9	MAX-MXY QUAD Inf-WU
2119	9	MIN-MXY QUAD Inf-WU
2120	9	MAX-NXX QUAD Inf-WU
2121	9	MIN-NXX QUAD Inf-WU
2122	9	MAX-NYY QUAD Inf-WU
2123	9	MIN-NYY QUAD Inf-WU
2124	9	MAX-NXY QUAD Inf-WU

Model FL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2125	9	MIN-NXY QUAD Inf-WU
2126	9	MAX-VY QUAD Inf-WU
2127	9	MIN-VY QUAD Inf-WU
2128	9	MAX-VX QUAD Inf-WU
2129	9	MIN-VX QUAD Inf-WU
2130	10	MAX-N BEAM Sup-WU
2131	10	MIN-N BEAM Sup-WU
2132	10	MAX-MY BEAM Sup-WU
2133	10	MIN-MY BEAM Sup-WU
2134	10	MAX-MZ BEAM Sup-WU
2135	10	MIN-MZ BEAM Sup-WU
2136	10	MAX-VY BEAM Sup-WU
2137	10	MIN-VY BEAM Sup-WU
2138	10	MAX-VZ BEAM Sup-WU
2139	10	MIN-VZ BEAM Sup-WU
2140	10	MAX-MXX QUAD Sup-WU
2141	10	MIN-MXX QUAD Sup-WU
2142	10	MAX-MYY QUAD Sup-WU
2143	10	MIN-MYY QUAD Sup-WU
2144	10	MAX-MXY QUAD Sup-WU
2145	10	MIN-MXY QUAD Sup-WU
2146	10	MAX-NXX QUAD Sup-WU
2147	10	MIN-NXX QUAD Sup-WU
2148	10	MAX-NYY QUAD Sup-WU
2149	10	MIN-NYY QUAD Sup-WU
2150	10	MAX-NXY QUAD Sup-WU
2151	10	MIN-NXY QUAD Sup-WU
2152	10	MAX-VY QUAD Sup-WU
2153	10	MIN-VY QUAD Sup-WU
2154	10	MAX-VX QUAD Sup-WU
2155	10	MIN-VX QUAD Sup-WU

Model FL geometry
FL Parameters

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigsl	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
default	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
10	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
12	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
11	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
20	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
25	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
30	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
35	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
40	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
45	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
50	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
55	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
60	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
70	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
75	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.

Model FL geometry
Uls design, foundation

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model FL geometry
Uls design, foundation

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model FL geometry
Uls design, foundation

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

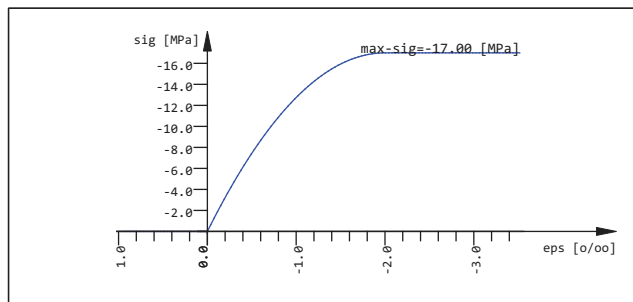
Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

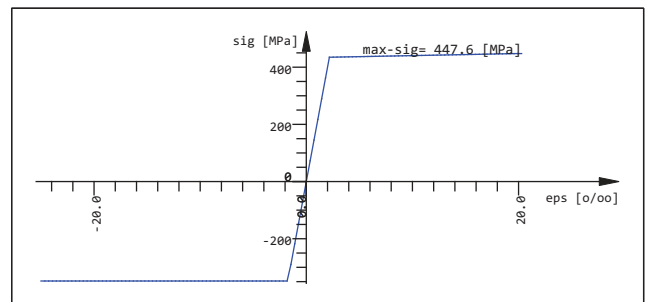
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.
For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].
Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm]	100.0 [mm]	ds-u 2.lay ds-l 2.lay [mm]	12 [mm]	wk-u 2.lay wk-l 2.lay [mm]	- [mm]	sigsu 2.lay sigsl 2.lay [MPa]	- [MPa]	asu 2.lay asl 2.lay [cm2/m]	- [cm2/m]
default	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
10	70.0	100.0	28	28	-	-	-	-	-	-
	70.0	100.0	28	28	-	-	-	-	-	-
12	70.0	100.0	28	28	-	-	-	-	-	-
	70.0	100.0	28	28	-	-	-	-	-	-
11	70.0	100.0	28	28	-	-	-	-	-	-
	70.0	100.0	28	28	-	-	-	-	-	-
20	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
25	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
30	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
35	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
40	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
45	70.0	100.0	12	12	-	-	-	-	-	-

Model FL geometry
Uls design, foundation

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	as1	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
50	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
11	110047	1.050		50.77			5.31			2	28.33
	110056	1.050	22.40	25.89		23.31	23.49			2	20.46
	110057	1.050	43.67	7.21		36.34				2	8.81
Grp	primary group number				asu3	Third reinforcements		Top			
Element	element number				as1	Principal reinforcements (1st layer)		Bottom			
t	plate thickness				as12	Cross reinforcements (2nd layer)		Bottom			
asu	Principal reinforcements (1st layer)				as13	Third reinforcements		Bottom			
asu2	Cross reinforcements (2nd layer)				Top						
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	Shear reinforcement										
	Elements with maximum values are printed										

Model FL geometry
Sls design foundations

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

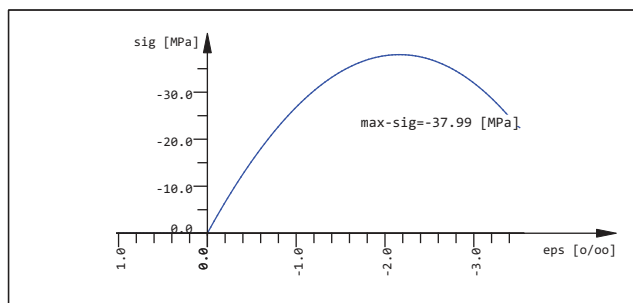
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

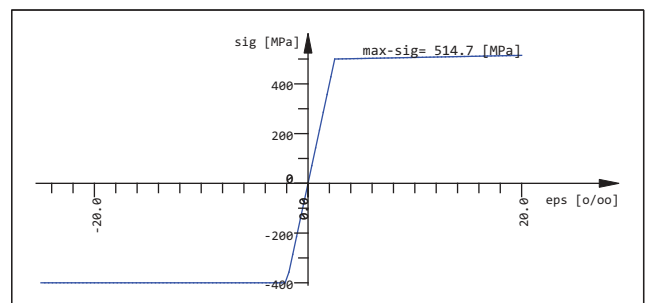
MAT material number
 fck nominal strength of the concrete
 fc strength of the concrete
 fctm tensile strength of the concrete
 fy yield stress reinforcing steel
 ft tensile stress reinforcing steel
 eps,ud maximum strain - limited to max. 0.9*50 o/oo
 minT minimum transverse reinforcement
 Type character of the loading

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model FL geometry
Sls design foundations

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
1968	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model FL geometry
Sls design foundations

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	110047	1.050		50.77			5.31				
	110056	1.050	22.40	25.89		23.31	23.49				
	110057	1.050	43.67	7.21		36.34					
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					as1	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					as12	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					as13	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
110047	1010 U		0.49	0.00	50.8		28	28		0.30	0.00	71.0	
110056	L		0.68	23.3	23.5		28	28		0.30	33.9	39.5	
110057	L		0.54	36.3	0.00		28	28		0.30	51.8	0.00	
	U		0.94	43.7	7.21		28	28		0.30	64.2	20.0	
120319	U		1.12	0.60	2.10		28	28		0.30	2.21	6.76	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3												
	Calculation of crack width according to EN 1992-1-1 7.3.4 (first element):												
	kt= 0.40 k1= 0.80 k2= 0.50 k3= variable k4= 0.425												
	Elements with maximum values are printed												

Model FL geometry
Sls check, foundations

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

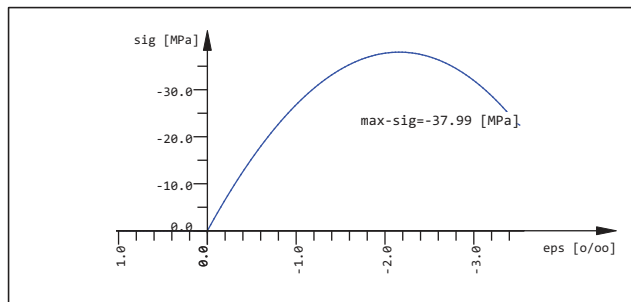
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model FL geometry
Sls check, foundations

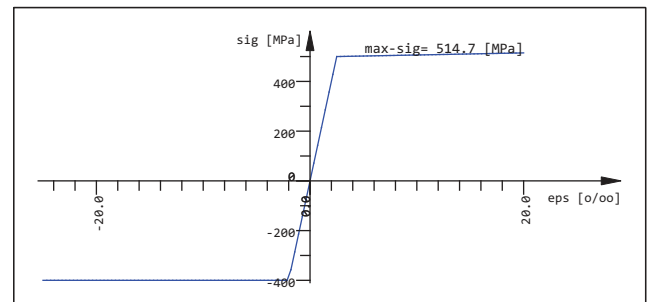
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	

Model FL geometry
Sls check, foundations

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

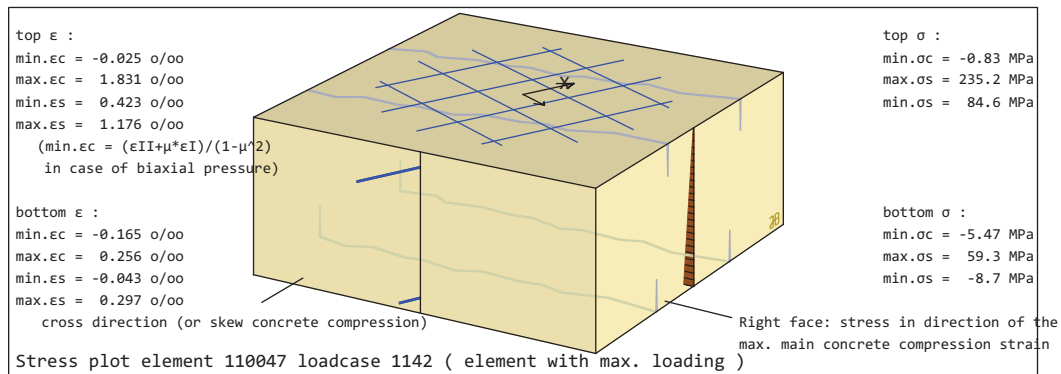
The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	1.00	0.80

Reinforcement was not increased by SLS design in this run✓

sigS Stress range for reinforcement in [MPa]
sigT Stress range for link reinforcement in [MPa]
CHKC Control of the concrete compressive stress:factor on fck or [MPa]
CHKR Control of the steel stress: factor on fyk or [MPa]



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	110047	1.050		71.04			8.88				28.33
	110048	1.050		61.05			41.97		0.00		
	110057	1.050	64.15	20.04		51.85					8.81

Grp primary group number
Element element number
t plate thickness
asu Principal reinforcements (1st layer) Top
asu2 Cross reinforcements (2nd layer) Top
supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design
shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3= in a SLS design no shear design is done
ass Elements with maximum values are printed

asu3 Third reinforcements
asl Principal reinforcements (1st layer) Bottom
asl2 Cross reinforcements (2nd layer) Bottom
asl3 Third reinforcements Bottom

Steel stress, concrete pressure, stress range

		stress range on top			stress range bottom			links	concre	steel-1	steel-s
E=ELEM		asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
N=NODE		[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 100042		82.29	139.02	-	372.74	341.26	-	-	-1.30	374.06	-
E 100082		374.37	292.97	-	72.25	36.03	-	-	-1.68	375.49	-
E 110056		35.39	26.74	-	83.61	76.29	-	27.69	-11.74	222.71	320.77
E 120448		82.43	56.78	-	89.15	141.17	-	74.75	-11.65	244.10	343.22
E 120778		63.12	55.06	-	55.27	70.08	-	167.60	-8.36	174.16	304.98
E 120952		-	102.13	-	-	386.19	-	-	-1.64	399.48	-

Model FL geometry
 Sls check, foundations

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 121049	70.74	357.92	-	82.42	253.94	-	-	-1.60	360.72	-
Maximum	374.37	357.92	-	372.74	386.19	-	167.60	-11.74	399.48	346.13
stress range on top longitudinal reinforcement links stress range in shear reinforcements concre maximum concrete compression (# greater that allowed) steel-l maximum stress in longitudinal reinforcement steel-s maximum stress in the shear reinforcement Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
 The steel stresses were checked - they are inside the allowable limits.
 links are also checked to CHKR but not printed.

Model FL geometry
Uls design, walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model FL geometry
Uls design, walls

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model FL geometry
Uls design, walls

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

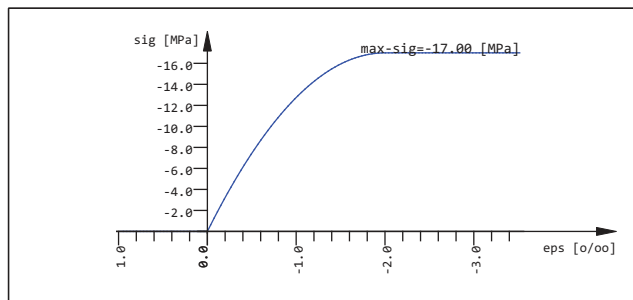
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

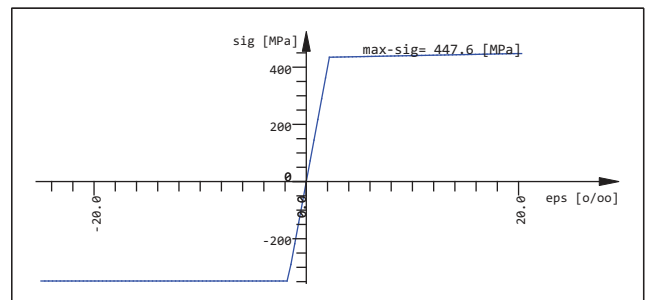
At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.

For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].

Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
10	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
12	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
11	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
20	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
25	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
30	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
35	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
40	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
45	70.0 100.0		12 12		- -		- -		- -	

Model FL geometry
Uls design, walls

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
50	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t	asu	asu2	asu3	asl	asl2	asl3	supp	shear	ass
		[m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[-]	[-]	[cm2/m2]
20	200264	0.250	5.55	4.36		5.95	5.30			1	
25	250427	0.250	0.67	0.15		0.54			0.99	2	13.63
30	300474	0.250	1.27	7.10		1.25	3.39			2m	8.76
	300660	0.250	2.45	4.35		4.24	8.92			1	
Grp primary group number Element element number t plate thickness asu Principal reinforcements (1st layer) Top asu2 Cross reinforcements (2nd layer) Top supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=Shear reinforcement ass Elements with maximum values are printed											
					asu3	Third reinforcements				Top	
					asl	Principal reinforcements (1st layer)				Bottom	
					asl2	Cross reinforcements (2nd layer)				Bottom	
					asl3	Third reinforcements				Bottom	

Model FL geometry
Sls design walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

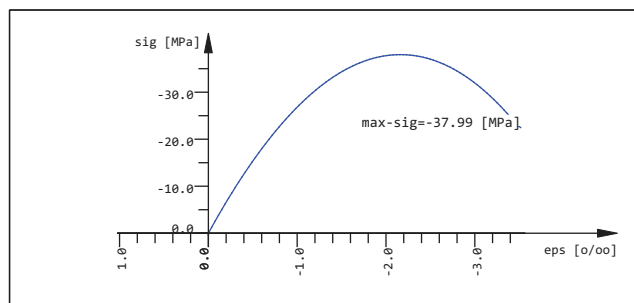
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

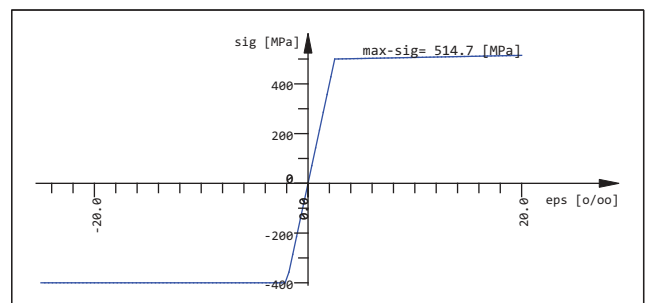
MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model FL geometry
Sls design walls

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
3682	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model FL geometry
Sls design walls

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	200264	0.250	5.55	4.36		5.95	5.30				
	250427	0.250	0.67	0.15		0.54					
	300474	0.250	1.27	7.10		1.25	3.39				
	300660	0.250	2.45	4.35		4.24	8.92				
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					as1	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					as12	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					as13	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
200141	1010 L		0.59	4.18	7.22		12	12		0.30	6.26	10.9	
	U		0.64	4.24	5.69		12	12		0.30	6.68	9.86	
200264	L		0.84	5.95	5.30		12	12		0.30	8.83	10.6	
250155	U		0.87	4.44	1.00		12	12		0.30	8.25	1.03	
250190	U		0.87	3.89	0.31		12	12		0.30	7.60	0.31	
250192	U		0.88	3.32	0.17		12	12		0.30	6.94	0.17	
300660	L		0.33	4.24	8.92		12	12		0.30	4.50	8.92	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3												
	Calculation of crack width according to EN 1992-1-1 7.3.4 (first element):												
	kt= 0.40 k1= 0.80 k2= 0.50 k3= variable k4= 0.425												
	Elements with maximum values are printed												

Model FL geometry
Sls check, walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

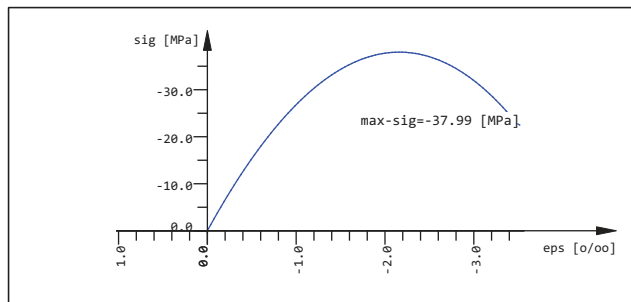
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model FL geometry
Sls check, walls

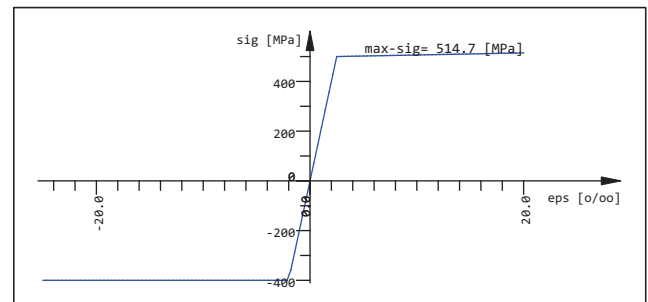
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	

Model FL geometry
Sls check, walls

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

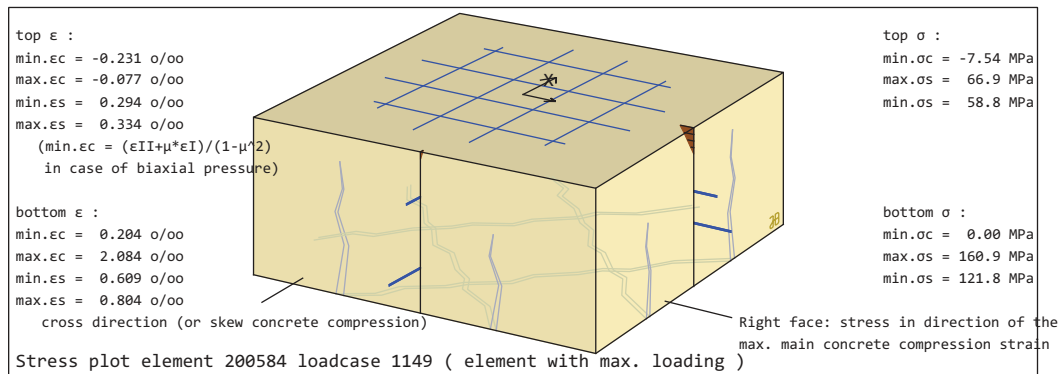
The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	0.60	0.80

Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓

sigS Stress range for reinforcement in [MPa]
sigT Stress range for link reinforcement in [MPa]
CHKC Control of the concrete compressive stress:factor on fck or [MPa]
CHKR Control of the steel stress: factor on fyk or [MPa]



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm ² /m]	asu2 [cm ² /m]	asu3 [cm ² /m]	asl [cm ² /m]	asl2 [cm ² /m]	asl3 [cm ² /m]	supp [-]	shear [-]	ass [cm ² /m ²]
0	200141	0.250	6.68	9.86		6.26	10.92				
	200264	0.250	7.76	8.03		8.83	10.64				
	250155	0.250	8.25	1.03		7.73	0.83				
	250427	0.250	0.67	0.15		0.54					

Grp primary group number
Element element number
t plate thickness
asu Principal reinforcements (1st layer) Top
asu2 Cross reinforcements (2nd layer) Top
supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design
shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=
ass in a SLS design no shear design is done
Elements with maximum values are printed

asu3 Third reinforcements
asl Principal reinforcements (1st layer) Bottom
asl2 Cross reinforcements (2nd layer) Bottom
asl3 Third reinforcements Bottom

Steel stress, concrete pressure, stress range

E=ELEM	N=NODE	stress range asu [MPa]	stress range asu2 [MPa]	stress range asu3 [MPa]	stress range asl [MPa]	stress range asl2 [MPa]	stress range asl3 [MPa]	links Ass [MPa]	concre sig-max [MPa]	steel-1 sig-max [MPa]	steel-s sig-max
E	200587	205.40	-	-	74.88	43.48	-	400.00	-7.28	319.60	267.57
E	200592	105.12	44.80	-	278.77	-	-	-	-2.58	400.00	-
E	250161	167.64	257.00	-	61.09	169.96	-	-	-2.19	385.89	-
E	250422	231.56 ¹	-	-	225.70 ¹	184.25 ¹	-	-	-3.14 ¹	400.00 ¹	-
E	250427	230.28	81.12	-	225.34	-	-	400.00	-2.27	268.79	306.72

Model FL geometry
Sls check, walls

Steel stress, concrete pressure, stress range

	stress range on top			stress range bottom			links	concre	steel-l	steel-s
E=ELEM	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
N=NODE	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 250571	388.30	299.50	-	168.65	-	-	-	-2.75	388.34	-
E 250826	-	380.59	-	93.90	-	-	-	-1.43	381.77	-
E 300012	178.38	225.19	-	-	-	-	-	-5.11	399.30	-
E 300812	228.41	97.74	-	194.63	164.50	-	-	-12.68	301.97	-
E 300818	290.07	245.93	-	61.41	116.53	-	-	-10.08	336.79	-
E 350030	123.21	-	-	320.96	224.16	-	-	-3.70	400.00	-
E 500075	168.01	263.47	-	400.28	394.23	-	-	-1.04	399.33	-
Maximum	388.30	380.59	-	400.28	394.23	-	400.00	-12.68	400.00	309.24
¹ reinforcement increased, stress with new increased reinforcement										
stress range on top longitudinal reinforcement										
links stress range in shear reinforcements										
concre maximum concrete compression (# greater that allowed)										
steel-l maximum stress in longitudinal reinforcement										
steel-s maximum stress in the shear reinforcement										
Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
links are also checked to CHKR but not printed.

Model FL geometry
Uls design, decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model FL geometry
Uls design, decks

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model FL geometry
Uls design, decks

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

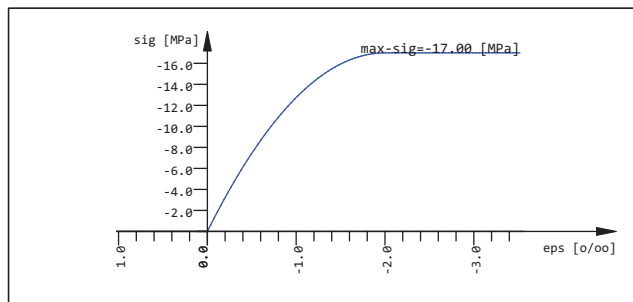
Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

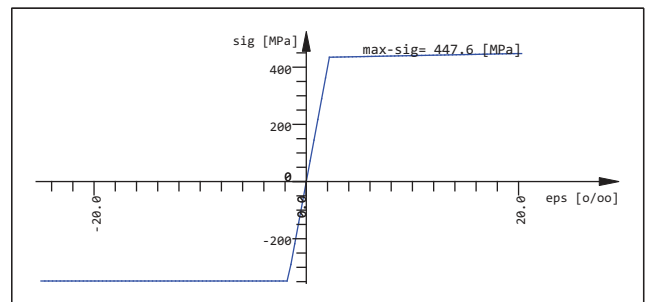
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.
For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].
Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
10	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
12	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
11	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
20	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
25	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
30	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
35	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
40	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
45	70.0 100.0		12 12		- -		- -		- -	

Model FL geometry
Uls design, decks

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
50	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t	asu	asu2	asu3	asl	asl2	asl3	supp	shear	ass
		[m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[-]	[-]	[cm2/m2]
70	700078	0.300	1.38	0.73		2.80	1.21		0.00	1	
	700398	0.300	3.83	1.75		0.49	1.20		0.35	1	
	700525	0.300	3.52	3.94			2.32		0.76	1	
75	750419	0.300	1.15	1.03		1.55	3.63		0.00	1	
Grp primary group number Element element number t plate thickness asu Principal reinforcements (1st layer) Top asu2 Cross reinforcements (2nd layer) Top supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3= ass Shear reinforcement Elements with maximum values are printed											
					asu3	Third reinforcements			Top		
					asl	Principal reinforcements (1st layer)			Bottom		
					asl2	Cross reinforcements (2nd layer)			Bottom		
					asl3	Third reinforcements			Bottom		

Model FL geometry
Sls design decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

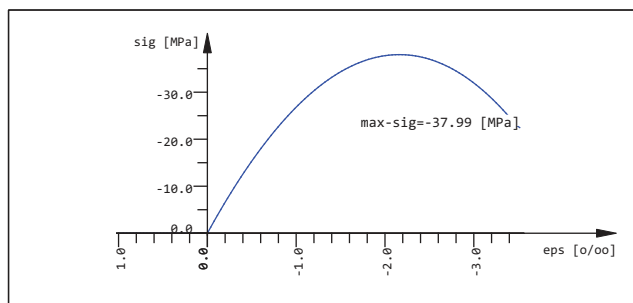
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

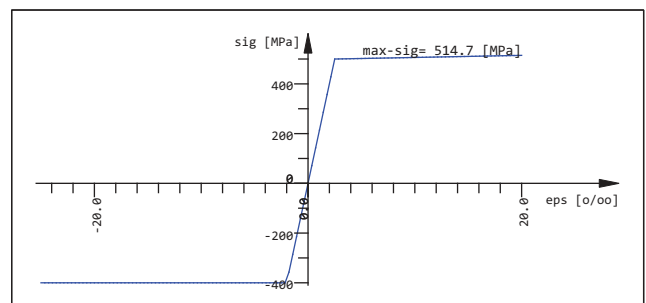
MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model FL geometry
Sls design decks

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
2143	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model FL geometry
Sls design decks

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	700078	0.300	1.38	0.73		2.80	1.21				
	700398	0.300	3.83	1.75		0.49	1.20				
	700525	0.300	3.52	3.94			2.32				
	750419	0.300	1.15	1.03		1.55	3.63				
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					as1	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					as12	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					as13	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
700281	1010	U	0.46	2.80	2.79		12	12		0.30	6.06	3.79	
700366		L	0.72	0.45	2.46		12	12		0.30	0.45	5.88	
700398		U	0.32	3.83	1.75		12	12		0.30	3.98	1.75	
700444		L	0.72	0.23	2.54		12	12		0.30	0.23	5.91	
		U	0.72	3.55	3.03		12	12		0.30	3.55	6.63	
700498		U	0.69	3.22	3.13		12	12		0.30	3.22	6.59	
700512		L	0.73	0.32	2.69		12	12		0.30	0.32	6.30	
		U	0.74	3.41	2.82		12	12		0.30	3.41	6.54	
700513		U	0.73	3.65	3.02		12	12		0.30	3.65	6.67	
700522		U	0.77	2.77	2.87		12	12		0.30	2.77	6.92	
700524		U	0.79	3.36	3.73		12	12		0.30	3.36	7.76	
700525		U	0.81	3.52	3.94		12	12		0.30	3.52	8.31	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3												
	Calculation of crack width according to EN 1992-1-1 7.3.4 (first element): kt= 0.40 k1= 0.80 k2= 1.00 k3= variable k4= 0.425 Elements with maximum values are printed												

Model FL geometry
Sls check, decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

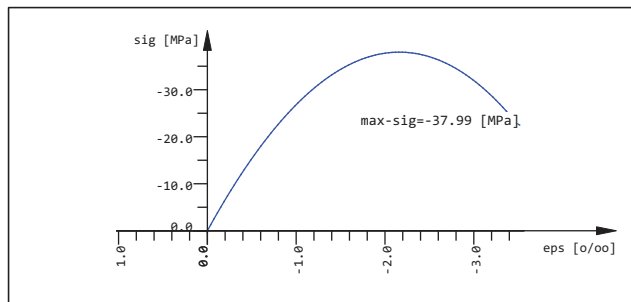
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model FL geometry
Sls check, decks

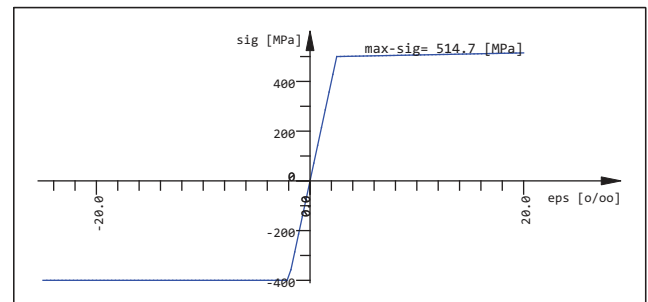
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
12	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
11	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	

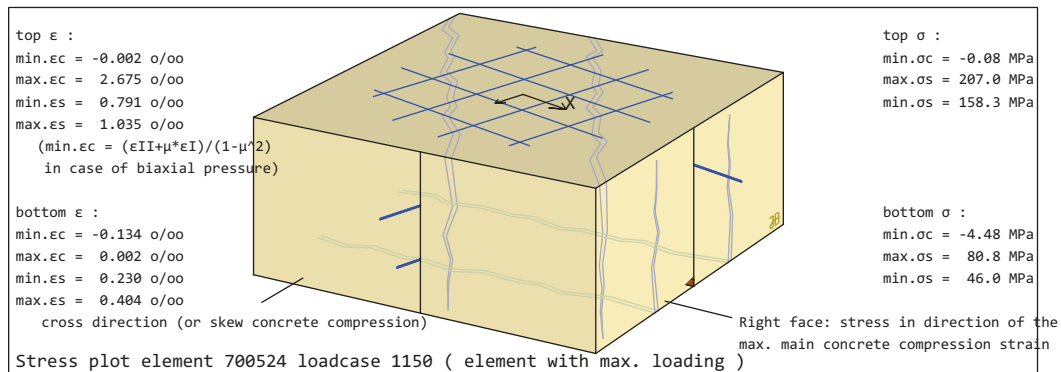
Model FL geometry
Sls check, decks

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	0.60	0.80
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓					
sigS Stress range for reinforcement in [MPa]					
sigT Stress range for link reinforcement in [MPa]					
CHKC Control of the concrete compressive stress:factor on fck or [MPa]					
CHKR Control of the steel stress: factor on fyk or [MPa]					



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	700078	0.300	1.38	0.73		2.80	1.21				
	700281	0.300	6.06	3.79		2.43					
	700525	0.300	3.52	8.31			5.65				
	700609	0.300	3.25	5.87		0.10	7.20				
Grp	primary group number					asu3	Third reinforcements				
Element	element number					asl	Principal reinforcements (1st layer)				
t	plate thickness					asl2	Cross reinforcements (2nd layer)				
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements				
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Steel stress, concrete pressure, stress range

E=ELEM	stress range on top			stress range bottom			links	concre	steel-l	steel-s
N=NODE	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]
E 700029	-	361.83	-	169.32	-	-	-	-1.92	380.58	-
E 700580	382.07	300.76	-	273.52	247.77	-	-	-1.24	382.64	-
E 750013	-	-	-	125.58	306.19	-	-	-6.53	306.38	-
E 750305	223.48	190.73	-	214.37	150.30	-	-	-7.92	247.94	-
E 750501	336.33	235.98	-	214.73	194.79	-	-	-2.42	394.90	-

Model FL geometry
Sls check, decks

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 750627	-	262.97	-	219.72	290.26	-	-	-3.80	394.04	-
E 750926	234.35	254.76	-	370.94	281.19	-	-	-3.89	400.00	-
E 751121	-	197.32	-	223.61	388.17	-	-	-4.63	387.84	-
E 751448	336.07	215.23	-	382.52	209.24	-	-	-2.58	387.07	-
Maximum	382.07	361.83	-	382.52	388.17	-	-	-7.92	400.00	-
stress range on top longitudinal reinforcement links stress range in shear reinforcements concre maximum concrete compression (# greater than allowed) steel-l maximum stress in longitudinal reinforcement steel-s maximum stress in the shear reinforcement Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
 The steel stresses were checked - they are inside the allowable limits.
 links are also checked to CHKR but not printed.

Model FL geometry

```
1 +PROG AQB
2 $ Dat : D:\DPP\MasNa\2022\S_FL\Model\ModelFl.dat (#00g)      21. 8. 2023
3 $ Job : DURIS_DELL_NB:001404                                17:37
4 HEAD PILES DESIGN ULS
5 BEAM GRP 1
6 DESI STAT ULTI  AM1 - AM2 - AM3 - AM4 - SC1 1.5 SC2 1.5 SCS 1.5 SS1 1.15
7 LC (D)
8 END
```

Model FL geometry
Piles design ULS

Design Code

EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures (Europe) V 2023
Structure: B (Road bridges)

Materials

Mat	Classification
1	C 30/37 (EN 1992) basic mat
2	B 500 B (EN 1992) rc

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
Grp 1	10001			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Biaxial bending, uniaxial stress calculated in y-z axis
Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Considered Load Cases

LC	ACT	REF	CS	Designation
2000	(D)			MAX-N BEAM Inf-LL
2001	(D)			MIN-N BEAM Inf-LL
2002	(D)			MAX-MY BEAM Inf-LL
2003	(D)			MIN-MY BEAM Inf-LL
2004	(D)			MAX-MZ BEAM Inf-LL
2005	(D)			MIN-MZ BEAM Inf-LL
2006	(D)			MAX-VY BEAM Inf-LL
2007	(D)			MIN-VY BEAM Inf-LL
2008	(D)			MAX-VZ BEAM Inf-LL
2009	(D)			MIN-VZ BEAM Inf-LL
2026	(D)			MAX-N BEAM Sup-LL
2027	(D)			MIN-N BEAM Sup-LL
2028	(D)			MAX-MY BEAM Sup-LL
2029	(D)			MIN-MY BEAM Sup-LL
2030	(D)			MAX-MZ BEAM Sup-LL
2031	(D)			MIN-MZ BEAM Sup-LL
2032	(D)			MAX-VY BEAM Sup-LL
2033	(D)			MIN-VY BEAM Sup-LL
2034	(D)			MAX-VZ BEAM Sup-LL
2035	(D)			MIN-VZ BEAM Sup-LL
2052	(D)			MAX-N BEAM Inf-W
2053	(D)			MIN-N BEAM Inf-W
2054	(D)			MAX-MY BEAM Inf-W
2055	(D)			MIN-MY BEAM Inf-W
2056	(D)			MAX-MZ BEAM Inf-W
2057	(D)			MIN-MZ BEAM Inf-W
2058	(D)			MAX-VY BEAM Inf-W
2059	(D)			MIN-VY BEAM Inf-W
2060	(D)			MAX-VZ BEAM Inf-W
2061	(D)			MIN-VZ BEAM Inf-W
2078	(D)			MAX-N BEAM Sup-W
2079	(D)			MIN-N BEAM Sup-W
2080	(D)			MAX-MY BEAM Sup-W
2081	(D)			MIN-MY BEAM Sup-W
2082	(D)			MAX-MZ BEAM Sup-W

Model FL geometry
Piles design ULS

Considered Load Cases

LC	ACT	REF	CS	Designation
2083	(D)			MIN-MZ BEAM Sup-W
2084	(D)			MAX-VY BEAM Sup-W
2085	(D)			MIN-VY BEAM Sup-W
2086	(D)			MAX-VZ BEAM Sup-W
2087	(D)			MIN-VZ BEAM Sup-W
2104	(D)			MAX-N BEAM Inf-WU
2105	(D)			MIN-N BEAM Inf-WU
2106	(D)			MAX-MY BEAM Inf-WU
2107	(D)			MIN-MY BEAM Inf-WU
2108	(D)			MAX-MZ BEAM Inf-WU
2109	(D)			MIN-MZ BEAM Inf-WU
2110	(D)			MAX-VY BEAM Inf-WU
2111	(D)			MIN-VY BEAM Inf-WU
2112	(D)			MAX-VZ BEAM Inf-WU
2113	(D)			MIN-VZ BEAM Inf-WU
2130	(D)			MAX-N BEAM Sup-WU
2131	(D)			MIN-N BEAM Sup-WU
2132	(D)			MAX-MY BEAM Sup-WU
2133	(D)			MIN-MY BEAM Sup-WU
2134	(D)			MAX-MZ BEAM Sup-WU
2135	(D)			MIN-MZ BEAM Sup-WU
2136	(D)			MAX-VY BEAM Sup-WU
2137	(D)			MIN-VY BEAM Sup-WU
2138	(D)			MAX-VZ BEAM Sup-WU
2139	(D)			MIN-VZ BEAM Sup-WU

LC load case REF reference point for forces and moments
ACT action CS section the load case is acting on

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Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
10001	0.000	1	1.00	112.93		112.93'					
10001	0.500	1	1.00	112.93		112.93'					
10002	0.000	1	1.00	112.93		112.93'					
10002	0.500	1	1.00	112.93		112.93'					
10003	0.000	1	1.00	112.93		112.93'					
10003	0.500	1	1.00	112.93		112.93'					
10004	0.000	1	1.00	112.93		112.93'					
10004	0.500	1	1.00	112.93		112.93'					
10005	0.000	1	1.00	112.93		112.93'					
10005	0.500	1	1.00	112.93		112.93'					
10006	0.000	1	1.00	112.93		112.93'					
10006	0.500	1	1.00	112.93		112.93'					
10007	0.000	1	1.00	112.93		112.93'					
10007	0.500	1	1.00	112.93		112.93'					
10008	0.000	1	1.00	112.93		112.93'					
10008	0.500	1	1.00	112.93		112.93'					
10009	0.000	1	1.00	112.93		112.93'					
10009	0.500	1	1.00	112.93		112.93'					
10010	0.000	1	1.00	112.93		112.93'					
10010	0.500	1	1.00	112.93		112.93'					
10011	0.000	1	1.00	112.93		112.93'					
10011	0.500	1	1.00	112.93		112.93'					
10012	0.000	1	1.00	112.93		112.93'					
10012	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10013	0.000	1	1.00	112.93		112.93'					
10013	0.500	1	1.00	112.93		112.93'					
10014	0.000	1	1.00	112.93		112.93'					
10014	0.500	1	1.00	112.93		112.93'					
10015	0.000	1	1.00	112.93		112.93'					
10015	0.500	1	1.00	112.93		112.93'					
10016	0.000	1	1.00	112.93		112.93'					
10016	0.500	1	1.00	112.93		112.93'					
10017	0.000	1	1.00	112.93		112.93'					
10017	0.500	1	1.00	112.93		112.93'					
10018	0.000	1	1.00	112.93		112.93'					
10018	0.500	1	1.00	112.93		112.93'					
10019	0.000	1	1.00	112.93		112.93'					
10019	0.500	1	1.00	112.93		112.93					
10020	0.000	1	1.00	112.93		112.93					
10020	0.500	1	1.00	112.93		112.93					
10021	0.000	1	1.00	112.93		112.93					
10021	0.500	1	1.00	112.93		112.93					
10022	0.000	1	1.00	112.93		112.93					
10022	0.500	1	1.00	112.93		112.93					
10023	0.000	1	1.00	112.93		112.93					
10023	0.500	1	1.00	112.93		112.93					
10024	0.000	1	1.00	112.93		112.93					
10024	0.500	1	1.00	112.93		112.93					
10025	0.000	1	1.00	112.93		112.93					
10025	0.500	1	1.00	112.93		112.93					
10026	0.000	1	1.00	112.93		112.93					
10026	0.500	1	1.00	112.93		112.93					
10027	0.000	1	1.00	112.93		112.93					
10027	0.500	1	1.00	112.93		112.93					
10028	0.000	1	1.00	112.93		112.93					
10028	0.500	1	1.00	112.93		112.93					
10029	0.000	1	1.00	112.93		112.93					
10029	0.500	1	1.00	112.93		112.93					
10030	0.000	1	1.00	112.93		112.93					
10030	0.500	1	1.00	112.93		112.93					
10031	0.000	1	1.00	112.93		112.93					
10031	0.500	1	1.00	112.93		112.93					
10032	0.000	1	1.00	112.93		112.93					
10032	0.500	1	1.00	112.93		112.93					
10033	0.000	1	1.00	112.93		112.93					
10033	0.500	1	1.00	112.93		112.93					
10034	0.000	1	1.00	112.93		112.93					
10034	0.500	1	1.00	112.93		112.93					
10035	0.000	1	1.00	112.93		112.93					
10035	0.500	1	1.00	112.93		112.93					
10036	0.000	1	1.00	112.93		112.93					
10036	0.500	1	1.00	112.93		112.93					
10037	0.000	1	1.00	112.93		112.93'					
10037	0.500	1	1.00	112.93		112.93'					
10038	0.000	1	1.00	112.93		112.93'					
10038	0.500	1	1.00	112.93		112.93'					
10039	0.000	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10039	0.500	1	1.00	112.93		112.93'					
10040	0.000	1	1.00	112.93		112.93'					
10040	0.500	1	1.00	112.93		112.93'					
10041	0.000	1	1.00	112.93		112.93'					
10041	0.500	1	1.00	112.93		112.93'					
10042	0.000	1	1.00	112.93		112.93'					
10042	0.500	1	1.00	112.93		112.93'					
10043	0.000	1	1.00	112.93		112.93'					
10043	0.500	1	1.00	112.93		112.93'					
10044	0.000	1	1.00	112.93		112.93'					
10044	0.500	1	1.00	112.93		112.93'					
10045	0.000	1	1.00	112.93		112.93'					
10045	0.500	1	1.00	112.93		112.93'					
10046	0.000	1	1.00	112.93		112.93'					
10046	0.500	1	1.00	112.93		112.93'					
10047	0.000	1	1.00	112.93		112.93'					
10047	0.500	1	1.00	112.93		112.93'					
10048	0.000	1	1.00	112.93		112.93'					
10048	0.500	1	1.00	112.93		112.93'					
10049	0.000	1	1.00	112.93		112.93'					
10049	0.500	1	1.00	112.93		112.93'					
10050	0.000	1	1.00	112.93		112.93'					
10050	0.500	1	1.00	112.93		112.93'					
10051	0.000	1	1.00	112.93		112.93'					
10051	0.500	1	1.00	112.93		112.93'					
10052	0.000	1	1.00	112.93		112.93'					
10052	0.500	1	1.00	112.93		112.93'					
10053	0.000	1	1.00	112.93		112.93'					
10053	0.500	1	1.00	112.93		112.93'					
10054	0.000	1	1.00	112.93		112.93'					
10054	0.500	1	1.00	112.93		112.93'					
10055	0.000	1	1.00	112.93		112.93'					
10055	0.500	1	1.00	112.93		112.93'					
10056	0.000	1	1.00	112.93		112.93'					
10056	0.500	1	1.00	112.93		112.93'					
10057	0.000	1	1.00	112.93		112.93'					
10057	0.500	1	1.00	112.93		112.93'					
10058	0.000	1	1.00	112.93		112.93'					
10058	0.500	1	1.00	112.93		112.93					
10059	0.000	1	1.00	112.93		112.93					
10059	0.500	1	1.00	112.93		112.93					
10060	0.000	1	1.00	112.93		112.93					
10060	0.500	1	1.00	112.93		112.93					
10061	0.000	1	1.00	112.93		112.93					
10061	0.500	1	1.00	112.93		112.93					
10062	0.000	1	1.00	112.93		112.93					
10062	0.500	1	1.00	112.93		112.93					
10063	0.000	1	1.00	112.93		112.93					
10063	0.500	1	1.00	112.93		112.93					
10064	0.000	1	1.00	112.93		112.93					
10064	0.500	1	1.00	112.93		112.93					
10065	0.000	1	1.00	112.93		112.93					
10065	0.500	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10066	0.000	1	1.00	112.93		112.93					
10066	0.500	1	1.00	112.93		112.93					
10067	0.000	1	1.00	112.93		112.93					
10067	0.500	1	1.00	112.93		112.93					
10068	0.000	1	1.00	112.93		112.93					
10068	0.500	1	1.00	112.93		112.93					
10069	0.000	1	1.00	112.93		112.93					
10069	0.500	1	1.00	112.93		112.93					
10070	0.000	1	1.00	112.93		112.93					
10070	0.500	1	1.00	112.93		112.93					
10071	0.000	1	1.00	112.93		112.93					
10071	0.500	1	1.00	112.93		112.93					
10072	0.000	1	1.00	112.93		112.93					
10072	0.500	1	1.00	112.93		112.93					
10073	0.000	1	1.00	112.93		112.93 ¹					
10073	0.500	1	1.00	112.93		112.93 ¹					
10074	0.000	1	1.00	112.93		112.93 ¹					
10074	0.500	1	1.00	112.93		112.93 ¹					
10075	0.000	1	1.00	112.93		112.93 ¹					
10075	0.500	1	1.00	112.93		112.93 ¹					
10076	0.000	1	1.00	112.93		112.93 ¹					
10076	0.500	1	1.00	112.93		112.93 ¹					
10077	0.000	1	1.00	112.93		112.93 ¹					
10077	0.500	1	1.00	112.93		112.93 ¹					
10078	0.000	1	1.00	112.93		112.93 ¹					
10078	0.500	1	1.00	112.93		112.93 ¹					
10079	0.000	1	1.00	112.93		112.93 ¹					
10079	0.500	1	1.00	112.93		112.93 ¹					
10080	0.000	1	1.00	112.93		112.93 ¹					
10080	0.500	1	1.00	112.93		112.93 ¹					
10081	0.000	1	1.00	112.93		112.93 ¹					
10081	0.500	1	1.00	112.93		112.93 ¹					
10082	0.000	1	1.00	112.93		112.93 ¹					
10082	0.500	1	1.00	112.93		112.93 ¹					
10083	0.000	1	1.00	112.93		112.93 ¹					
10083	0.500	1	1.00	112.93		112.93 ¹					
10084	0.000	1	1.00	112.93		112.93 ¹					
10084	0.500	1	1.00	112.93		112.93 ¹					
10085	0.000	1	1.00	112.93		112.93 ¹					
10085	0.500	1	1.00	112.93		112.93 ¹					
10086	0.000	1	1.00	112.93		112.93 ¹					
10086	0.500	1	1.00	112.93		112.93 ¹					
10087	0.000	1	1.00	112.93		112.93 ¹					
10087	0.500	1	1.00	112.93		112.93 ¹					
10088	0.000	1	1.00	112.93		112.93 ¹					
10088	0.500	1	1.00	112.93		112.93 ¹					
10089	0.000	1	1.00	112.93		112.93 ¹					
10089	0.500	1	1.00	112.93		112.93 ¹					
10090	0.000	1	1.00	112.93		112.93 ¹					
10090	0.500	1	1.00	112.93		112.93 ¹					
10091	0.000	1	1.00	112.93		112.93 ¹					
10091	0.500	1	1.00	112.93		112.93 ¹					
10092	0.000	1	1.00	112.93		112.93 ¹					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10092	0.500	1	1.00	112.93		112.93'					
10093	0.000	1	1.00	112.93		112.93'					
10093	0.500	1	1.00	112.93		112.93'					
10094	0.000	1	1.00	112.93		112.93'					
10094	0.500	1	1.00	112.93		112.93'					
10095	0.000	1	1.00	112.93		112.93'					
10095	0.500	1	1.00	112.93		112.93'					
10096	0.000	1	1.00	112.93		112.93'					
10096	0.500	1	1.00	112.93		112.93'					
10097	0.000	1	1.00	112.93		112.93'					
10097	0.500	1	1.00	112.93		112.93'					
10098	0.000	1	1.00	112.93		112.93'					
10098	0.500	1	1.00	112.93		112.93'					
10099	0.000	1	1.00	112.93		112.93'					
10099	0.500	1	1.00	112.93		112.93'					
10100	0.000	1	1.00	112.93		112.93'					
10100	0.500	1	1.00	112.93		112.93'					
10101	0.000	1	1.00	112.93		112.93'					
10101	0.500	1	1.00	112.93		112.93'					
10102	0.000	1	1.00	112.93		112.93'					
10102	0.500	1	1.00	112.93		112.93'					
10103	0.000	1	1.00	112.93		112.93'					
10103	0.500	1	1.00	112.93		112.93'					
10104	0.000	1	1.00	112.93		112.93'					
10104	0.500	1	1.00	112.93		112.93'					
10105	0.000	1	1.00	112.93		112.93'					
10105	0.500	1	1.00	112.93		112.93					
10106	0.000	1	1.00	112.93		112.93					
10106	0.500	1	1.00	112.93		112.93					
10107	0.000	1	1.00	112.93		112.93					
10107	0.500	1	1.00	112.93		112.93					
10108	0.000	1	1.00	112.93		112.93					
10108	0.500	1	1.00	112.93		112.93					
10109	0.000	1	1.00	112.93		112.93'					
10109	0.500	1	1.00	112.93		112.93'					
10110	0.000	1	1.00	112.93		112.93'					
10110	0.500	1	1.00	112.93		112.93'					
10111	0.000	1	1.00	112.93		112.93'					
10111	0.500	1	1.00	112.93		112.93'					
10112	0.000	1	1.00	112.93		112.93'					
10112	0.500	1	1.00	112.93		112.93'					
10113	0.000	1	1.00	112.93		112.93'					
10113	0.500	1	1.00	112.93		112.93'					
10114	0.000	1	1.00	112.93		112.93'					
10114	0.500	1	1.00	112.93		112.93'					
10115	0.000	1	1.00	112.93		112.93'					
10115	0.500	1	1.00	112.93		112.93'					
10116	0.000	1	1.00	112.93		112.93'					
10116	0.500	1	1.00	112.93		112.93'					
10117	0.000	1	1.00	112.93		112.93'					
10117	0.500	1	1.00	112.93		112.93'					
10118	0.000	1	1.00	112.93		112.93'					
10118	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10119	0.000	1	1.00	112.93		112.93'					
10119	0.500	1	1.00	112.93		112.93'					
10120	0.000	1	1.00	112.93		112.93'					
10120	0.500	1	1.00	112.93		112.93'					
10121	0.000	1	1.00	112.93		112.93'					
10121	0.500	1	1.00	112.93		112.93'					
10122	0.000	1	1.00	112.93		112.93'					
10122	0.500	1	1.00	112.93		112.93'					
10123	0.000	1	1.00	112.93		112.93'					
10123	0.500	1	1.00	112.93		112.93'					
10124	0.000	1	1.00	112.93		112.93'					
10124	0.500	1	1.00	112.93		112.93'					
10125	0.000	1	1.00	112.93		112.93'					
10125	0.500	1	1.00	112.93		112.93'					
10126	0.000	1	1.00	112.93		112.93'					
10126	0.500	1	1.00	112.93		112.93'					
10127	0.000	1	1.00	112.93		112.93'					
10127	0.500	1	1.00	112.93		112.93'					
10128	0.000	1	1.00	112.93		112.93'					
10128	0.500	1	1.00	112.93		112.93'					
10129	0.000	1	1.00	112.93		112.93'					
10129	0.500	1	1.00	112.93		112.93'					
10130	0.000	1	1.00	112.93		112.93'					
10130	0.500	1	1.00	112.93		112.93					
10131	0.000	1	1.00	112.93		112.93					
10131	0.500	1	1.00	112.93		112.93					
10132	0.000	1	1.00	112.93		112.93					
10132	0.500	1	1.00	112.93		112.93					
10133	0.000	1	1.00	112.93		112.93					
10133	0.500	1	1.00	112.93		112.93					
10134	0.000	1	1.00	112.93		112.93					
10134	0.500	1	1.00	112.93		112.93					
10135	0.000	1	1.00	112.93		112.93					
10135	0.500	1	1.00	112.93		112.93					
10136	0.000	1	1.00	112.93		112.93					
10136	0.500	1	1.00	112.93		112.93					
10137	0.000	1	1.00	112.93		112.93					
10137	0.500	1	1.00	112.93		112.93					
10138	0.000	1	1.00	112.93		112.93					
10138	0.500	1	1.00	112.93		112.93					
10139	0.000	1	1.00	112.93		112.93					
10139	0.500	1	1.00	112.93		112.93					
10140	0.000	1	1.00	112.93		112.93					
10140	0.500	1	1.00	112.93		112.93					
10141	0.000	1	1.00	112.93		112.93					
10141	0.500	1	1.00	112.93		112.93					
10142	0.000	1	1.00	112.93		112.93					
10142	0.500	1	1.00	112.93		112.93					
10143	0.000	1	1.00	112.93		112.93					
10143	0.500	1	1.00	112.93		112.93					
10144	0.000	1	1.00	112.93		112.93					
10144	0.500	1	1.00	112.93		112.93					
10145	0.000	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10145	0.500	1	1.00	112.93		112.93'					
10146	0.000	1	1.00	112.93		112.93'					
10146	0.500	1	1.00	112.93		112.93'					
10147	0.000	1	1.00	112.93		112.93'					
10147	0.500	1	1.00	112.93		112.93'					
10148	0.000	1	1.00	112.93		112.93'					
10148	0.500	1	1.00	112.93		112.93'					
10149	0.000	1	1.00	112.93		112.93'					
10149	0.500	1	1.00	112.93		112.93'					
10150	0.000	1	1.00	112.93		112.93'					
10150	0.500	1	1.00	112.93		112.93'					
10151	0.000	1	1.00	112.93		112.93'					
10151	0.500	1	1.00	112.93		112.93'					
10152	0.000	1	1.00	112.93		112.93'					
10152	0.500	1	1.00	112.93		112.93'					
10153	0.000	1	1.00	112.93		112.93'					
10153	0.500	1	1.00	112.93		112.93'					
10154	0.000	1	1.00	112.93		112.93'					
10154	0.500	1	1.00	112.93		112.93'					
10155	0.000	1	1.00	112.93		112.93'					
10155	0.500	1	1.00	112.93		112.93'					
10156	0.000	1	1.00	112.93		112.93'					
10156	0.500	1	1.00	112.93		112.93'					
10157	0.000	1	1.00	112.93		112.93'					
10157	0.500	1	1.00	112.93		112.93'					
10158	0.000	1	1.00	112.93		112.93'					
10158	0.500	1	1.00	112.93		112.93'					
10159	0.000	1	1.00	112.93		112.93'					
10159	0.500	1	1.00	112.93		112.93'					
10160	0.000	1	1.00	112.93		112.93'					
10160	0.500	1	1.00	112.93		112.93'					
10161	0.000	1	1.00	112.93		112.93'					
10161	0.500	1	1.00	112.93		112.93'					
10162	0.000	1	1.00	112.93		112.93'					
10162	0.500	1	1.00	112.93		112.93'					
10163	0.000	1	1.00	112.93		112.93'					
10163	0.500	1	1.00	112.93		112.93					
10164	0.000	1	1.00	112.93		112.93					
10164	0.500	1	1.00	112.93		112.93					
10165	0.000	1	1.00	112.93		112.93					
10165	0.500	1	1.00	112.93		112.93					
10166	0.000	1	1.00	112.93		112.93					
10166	0.500	1	1.00	112.93		112.93					
10167	0.000	1	1.00	112.93		112.93					
10167	0.500	1	1.00	112.93		112.93					
10168	0.000	1	1.00	112.93		112.93					
10168	0.500	1	1.00	112.93		112.93					
10169	0.000	1	1.00	112.93		112.93					
10169	0.500	1	1.00	112.93		112.93					
10170	0.000	1	1.00	112.93		112.93					
10170	0.500	1	1.00	112.93		112.93					
10171	0.000	1	1.00	112.93		112.93					
10171	0.500	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10172	0.000	1	1.00	112.93		112.93					
10172	0.500	1	1.00	112.93		112.93					
10173	0.000	1	1.00	112.93		112.93					
10173	0.500	1	1.00	112.93		112.93					
10174	0.000	1	1.00	112.93		112.93					
10174	0.500	1	1.00	112.93		112.93					
10175	0.000	1	1.00	112.93		112.93					
10175	0.500	1	1.00	112.93		112.93					
10176	0.000	1	1.00	112.93		112.93					
10176	0.500	1	1.00	112.93		112.93					
10177	0.000	1	1.00	112.93		112.93					
10177	0.500	1	1.00	112.93		112.93					
10178	0.000	1	1.00	112.93		112.93					
10178	0.500	1	1.00	112.93		112.93					
10179	0.000	1	1.00	112.93		112.93					
10179	0.500	1	1.00	112.93		112.93					
10180	0.000	1	1.00	112.93		112.93					
10180	0.500	1	1.00	112.93		112.93					
10181	0.000	1	1.00	112.93		112.93 ¹					
10181	0.500	1	1.00	112.93		112.93 ¹					
10182	0.000	1	1.00	112.93		112.93 ¹					
10182	0.500	1	1.00	112.93		112.93 ¹					
10183	0.000	1	1.00	112.93		112.93 ¹					
10183	0.500	1	1.00	112.93		112.93 ¹					
10184	0.000	1	1.00	112.93		112.93 ¹					
10184	0.500	1	1.00	112.93		112.93 ¹					
10185	0.000	1	1.00	112.93		112.93 ¹					
10185	0.500	1	1.00	112.93		112.93 ¹					
10186	0.000	1	1.00	112.93		112.93 ¹					
10186	0.500	1	1.00	112.93		112.93 ¹					
10187	0.000	1	1.00	112.93		112.93 ¹					
10187	0.500	1	1.00	112.93		112.93 ¹					
10188	0.000	1	1.00	112.93		112.93 ¹					
10188	0.500	1	1.00	112.93		112.93 ¹					
10189	0.000	1	1.00	112.93		112.93 ¹					
10189	0.500	1	1.00	112.93		112.93 ¹					
10190	0.000	1	1.00	112.93		112.93 ¹					
10190	0.500	1	1.00	112.93		112.93 ¹					
10191	0.000	1	1.00	112.93		112.93 ¹					
10191	0.500	1	1.00	112.93		112.93 ¹					
10192	0.000	1	1.00	112.93		112.93 ¹					
10192	0.500	1	1.00	112.93		112.93 ¹					
10193	0.000	1	1.00	112.93		112.93 ¹					
10193	0.500	1	1.00	112.93		112.93 ¹					
10194	0.000	1	1.00	112.93		112.93 ¹					
10194	0.500	1	1.00	112.93		112.93 ¹					
10195	0.000	1	1.00	112.93		112.93 ¹					
10195	0.500	1	1.00	112.93		112.93 ¹					
10196	0.000	1	1.00	112.93		112.93 ¹					
10196	0.500	1	1.00	112.93		112.93 ¹					
10197	0.000	1	1.00	112.93		112.93 ¹					
10197	0.500	1	1.00	112.93		112.93 ¹					
10198	0.000	1	1.00	112.93		112.93 ¹					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10198	0.500	1	1.00	112.93		112.93'					
10199	0.000	1	1.00	112.93		112.93'					
10199	0.500	1	1.00	112.93		112.93'					
10200	0.000	1	1.00	112.93		112.93'					
10200	0.500	1	1.00	112.93		112.93					
10201	0.000	1	1.00	112.93		112.93					
10201	0.500	1	1.00	112.93		112.93					
10202	0.000	1	1.00	112.93		112.93					
10202	0.500	1	1.00	112.93		112.93					
10203	0.000	1	1.00	112.93		112.93					
10203	0.500	1	1.00	112.93		112.93					
10204	0.000	1	1.00	112.93		112.93					
10204	0.500	1	1.00	112.93		112.93					
10205	0.000	1	1.00	112.93		112.93					
10205	0.500	1	1.00	112.93		112.93					
10206	0.000	1	1.00	112.93		112.93					
10206	0.500	1	1.00	112.93		112.93					
10207	0.000	1	1.00	112.93		112.93					
10207	0.500	1	1.00	112.93		112.93					
10208	0.000	1	1.00	112.93		112.93					
10208	0.500	1	1.00	112.93		112.93					
10209	0.000	1	1.00	112.93		112.93					
10209	0.500	1	1.00	112.93		112.93					
10210	0.000	1	1.00	112.93		112.93					
10210	0.500	1	1.00	112.93		112.93					
10211	0.000	1	1.00	112.93		112.93					
10211	0.500	1	1.00	112.93		112.93					
10212	0.000	1	1.00	112.93		112.93					
10212	0.500	1	1.00	112.93		112.93					
10213	0.000	1	1.00	112.93		112.93					
10213	0.500	1	1.00	112.93		112.93					
10214	0.000	1	1.00	112.93		112.93					
10214	0.500	1	1.00	112.93		112.93					
10215	0.000	1	1.00	112.93		112.93					
10215	0.500	1	1.00	112.93		112.93					
10216	0.000	1	1.00	112.93		112.93					
10216	0.500	1	1.00	112.93		112.93					
10217	0.000	1	1.00	112.93		112.93'					
10217	0.500	1	1.00	112.93		112.93'					
10218	0.000	1	1.00	112.93		112.93'					
10218	0.500	1	1.00	112.93		112.93'					
10219	0.000	1	1.00	112.93		112.93'					
10219	0.500	1	1.00	112.93		112.93'					
10220	0.000	1	1.00	112.93		112.93'					
10220	0.500	1	1.00	112.93		112.93'					
10221	0.000	1	1.00	112.93		112.93'					
10221	0.500	1	1.00	112.93		112.93'					
10222	0.000	1	1.00	112.93		112.93'					
10222	0.500	1	1.00	112.93		112.93'					
10223	0.000	1	1.00	112.93		112.93'					
10223	0.500	1	1.00	112.93		112.93'					
10224	0.000	1	1.00	112.93		112.93'					
10224	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10225	0.000	1	1.00	112.93		112.93'					
10225	0.500	1	1.00	112.93		112.93'					
10226	0.000	1	1.00	112.93		112.93'					
10226	0.500	1	1.00	112.93		112.93'					
10227	0.000	1	1.00	112.93		112.93'					
10227	0.500	1	1.00	112.93		112.93'					
10228	0.000	1	1.00	112.93		112.93'					
10228	0.500	1	1.00	112.93		112.93'					
10229	0.000	1	1.00	112.93		112.93'					
10229	0.500	1	1.00	112.93		112.93'					
10230	0.000	1	1.00	112.93		112.93'					
10230	0.500	1	1.00	112.93		112.93'					
10231	0.000	1	1.00	112.93		112.93'					
10231	0.500	1	1.00	112.93		112.93'					
10232	0.000	1	1.00	112.93		112.93'					
10232	0.500	1	1.00	112.93		112.93'					
10233	0.000	1	1.00	112.93		112.93'					
10233	0.500	1	1.00	112.93		112.93'					
10234	0.000	1	1.00	112.93		112.93'					
10234	0.500	1	1.00	112.93		112.93'					
10235	0.000	1	1.00	112.93		112.93'					
10235	0.500	1	1.00	112.93		112.93'					
10236	0.000	1	1.00	112.93		112.93'					
10236	0.500	1	1.00	112.93		112.93'					
10237	0.000	1	1.00	112.93		112.93'					
10237	0.500	1	1.00	112.93		112.93'					
10238	0.000	1	1.00	112.93		112.93'					
10238	0.500	1	1.00	112.93		112.93					
10239	0.000	1	1.00	112.93		112.93					
10239	0.500	1	1.00	112.93		112.93					
10240	0.000	1	1.00	112.93		112.93					
10240	0.500	1	1.00	112.93		112.93					
10241	0.000	1	1.00	112.93		112.93					
10241	0.500	1	1.00	112.93		112.93					
10242	0.000	1	1.00	112.93		112.93					
10242	0.500	1	1.00	112.93		112.93					
10243	0.000	1	1.00	112.93		112.93					
10243	0.500	1	1.00	112.93		112.93					
10244	0.000	1	1.00	112.93		112.93					
10244	0.500	1	1.00	112.93		112.93					
10245	0.000	1	1.00	112.93		112.93					
10245	0.500	1	1.00	112.93		112.93					
10246	0.000	1	1.00	112.93		112.93					
10246	0.500	1	1.00	112.93		112.93					
10247	0.000	1	1.00	112.93		112.93					
10247	0.500	1	1.00	112.93		112.93					
10248	0.000	1	1.00	112.93		112.93					
10248	0.500	1	1.00	112.93		112.93					
10249	0.000	1	1.00	112.93		112.93					
10249	0.500	1	1.00	112.93		112.93					
10250	0.000	1	1.00	112.93		112.93					
10250	0.500	1	1.00	112.93		112.93					
10251	0.000	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10251	0.500	1	1.00	112.93		112.93					
10252	0.000	1	1.00	112.93		112.93					
10252	0.500	1	1.00	112.93		112.93					
10253	0.000	1	1.00	112.93		112.93 ¹					
10253	0.500	1	1.00	112.93		112.93 ¹					
10254	0.000	1	1.00	112.93		112.93 ¹					
10254	0.500	1	1.00	112.93		112.93 ¹					
10255	0.000	1	1.00	112.93		112.93 ¹					
10255	0.500	1	1.00	112.93		112.93 ¹					
10256	0.000	1	1.00	112.93		112.93 ¹					
10256	0.500	1	1.00	112.93		112.93 ¹					
10257	0.000	1	1.00	112.93		112.93 ¹					
10257	0.500	1	1.00	112.93		112.93 ¹					
10258	0.000	1	1.00	112.93		112.93 ¹					
10258	0.500	1	1.00	112.93		112.93 ¹					
10259	0.000	1	1.00	112.93		112.93 ¹					
10259	0.500	1	1.00	112.93		112.93 ¹					
10260	0.000	1	1.00	112.93		112.93 ¹					
10260	0.500	1	1.00	112.93		112.93 ¹					
10261	0.000	1	1.00	112.93		112.93 ¹					
10261	0.500	1	1.00	112.93		112.93 ¹					
10262	0.000	1	1.00	112.93		112.93 ¹					
10262	0.500	1	1.00	112.93		112.93 ¹					
10263	0.000	1	1.00	112.93		112.93 ¹					
10263	0.500	1	1.00	112.93		112.93 ¹					
10264	0.000	1	1.00	112.93		112.93 ¹					
10264	0.500	1	1.00	112.93		112.93 ¹					
10265	0.000	1	1.00	112.93		112.93 ¹					
10265	0.500	1	1.00	112.93		112.93 ¹					
10266	0.000	1	1.00	112.93		112.93 ¹					
10266	0.500	1	1.00	112.93		112.93 ¹					
10267	0.000	1	1.00	112.93		112.93 ¹					
10267	0.500	1	1.00	112.93		112.93 ¹					
10268	0.000	1	1.00	112.93		112.93 ¹					
10268	0.500	1	1.00	112.93		112.93 ¹					
10269	0.000	1	1.00	112.93		112.93 ¹					
10269	0.500	1	1.00	112.93		112.93 ¹					
10270	0.000	1	1.00	112.93		112.93 ¹					
10270	0.500	1	1.00	112.93		112.93 ¹					
10271	0.000	1	1.00	112.93		112.93 ¹					
10271	0.500	1	1.00	112.93		112.93 ¹					
10272	0.000	1	1.00	112.93		112.93 ¹					
10272	0.500	1	1.00	112.93		112.93 ¹					
10273	0.000	1	1.00	112.93		112.93 ¹					
10273	0.500	1	1.00	112.93		112.93 ¹					
10274	0.000	1	1.00	112.93		112.93 ¹					
10274	0.500	1	1.00	112.93		112.93 ¹					
10275	0.000	1	1.00	112.93		112.93 ¹					
10275	0.500	1	1.00	112.93		112.93 ¹					
10276	0.000	1	1.00	112.93		112.93 ¹					
10276	0.500	1	1.00	112.93		112.93 ¹					
10277	0.000	1	1.00	112.93		112.93 ¹					
10277	0.500	1	1.00	112.93		112.93 ¹					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10278	0.000	1	1.00	112.93		112.93'					
10278	0.500	1	1.00	112.93		112.93'					
10279	0.000	1	1.00	112.93		112.93'					
10279	0.500	1	1.00	112.93		112.93'					
10280	0.000	1	1.00	112.93		112.93'					
10280	0.500	1	1.00	112.93		112.93'					
10281	0.000	1	1.00	112.93		112.93'					
10281	0.500	1	1.00	112.93		112.93'					
10282	0.000	1	1.00	112.93		112.93'					
10282	0.500	1	1.00	112.93		112.93'					
10283	0.000	1	1.00	112.93		112.93'					
10283	0.500	1	1.00	112.93		112.93'					
10284	0.000	1	1.00	112.93		112.93'					
10284	0.500	1	1.00	112.93		112.93'					
10285	0.000	1	1.00	112.93		112.93'					
10285	0.500	1	1.00	112.93		112.93					
10286	0.000	1	1.00	112.93		112.93					
10286	0.500	1	1.00	112.93		112.93					
10287	0.000	1	1.00	112.93		112.93					
10287	0.500	1	1.00	112.93		112.93					
10288	0.000	1	1.00	112.93		112.93					
10288	0.500	1	1.00	112.93		112.93					
10289	0.000	1	1.00	112.93		112.93'					
10289	0.500	1	1.00	112.93		112.93'					
10290	0.000	1	1.00	112.93		112.93'					
10290	0.500	1	1.00	112.93		112.93'					
10291	0.000	1	1.00	112.93		112.93'					
10291	0.500	1	1.00	112.93		112.93'					
10292	0.000	1	1.00	112.93		112.93'					
10292	0.500	1	1.00	112.93		112.93'					
10293	0.000	1	1.00	112.93		112.93'					
10293	0.500	1	1.00	112.93		112.93'					
10294	0.000	1	1.00	112.93		112.93'					
10294	0.500	1	1.00	112.93		112.93'					
10295	0.000	1	1.00	112.93		112.93'					
10295	0.500	1	1.00	112.93		112.93'					
10296	0.000	1	1.00	112.93		112.93'					
10296	0.500	1	1.00	112.93		112.93'					
10297	0.000	1	1.00	112.93		112.93'					
10297	0.500	1	1.00	112.93		112.93'					
10298	0.000	1	1.00	112.93		112.93'					
10298	0.500	1	1.00	112.93		112.93'					
10299	0.000	1	1.00	112.93		112.93'					
10299	0.500	1	1.00	112.93		112.93'					
10300	0.000	1	1.00	112.93		112.93'					
10300	0.500	1	1.00	112.93		112.93'					
10301	0.000	1	1.00	112.93		112.93'					
10301	0.500	1	1.00	112.93		112.93'					
10302	0.000	1	1.00	112.93		112.93'					
10302	0.500	1	1.00	112.93		112.93'					
10303	0.000	1	1.00	112.93		112.93'					
10303	0.500	1	1.00	112.93		112.93'					
10304	0.000	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10304	0.500	1	1.00	112.93		112.93'					
10305	0.000	1	1.00	112.93		112.93'					
10305	0.500	1	1.00	112.93		112.93'					
10306	0.000	1	1.00	112.93		112.93'					
10306	0.500	1	1.00	112.93		112.93'					
10307	0.000	1	1.00	112.93		112.93'					
10307	0.500	1	1.00	112.93		112.93'					
10308	0.000	1	1.00	112.93		112.93'					
10308	0.500	1	1.00	112.93		112.93'					
10309	0.000	1	1.00	112.93		112.93'					
10309	0.500	1	1.00	112.93		112.93'					
10310	0.000	1	1.00	112.93		112.93'					
10310	0.500	1	1.00	112.93		112.93'					
10311	0.000	1	1.00	112.93		112.93'					
10311	0.500	1	1.00	112.93		112.93'					
10312	0.000	1	1.00	112.93		112.93'					
10312	0.500	1	1.00	112.93		112.93'					
10313	0.000	1	1.00	112.93		112.93'					
10313	0.500	1	1.00	112.93		112.93'					
10314	0.000	1	1.00	112.93		112.93'					
10314	0.500	1	1.00	112.93		112.93					
10315	0.000	1	1.00	112.93		112.93					
10315	0.500	1	1.00	112.93		112.93					
10316	0.000	1	1.00	112.93		112.93					
10316	0.500	1	1.00	112.93		112.93					
10317	0.000	1	1.00	112.93		112.93					
10317	0.500	1	1.00	112.93		112.93					
10318	0.000	1	1.00	112.93		112.93					
10318	0.500	1	1.00	112.93		112.93					
10319	0.000	1	1.00	112.93		112.93					
10319	0.500	1	1.00	112.93		112.93					
10320	0.000	1	1.00	112.93		112.93					
10320	0.500	1	1.00	112.93		112.93					
10321	0.000	1	1.00	112.93		112.93					
10321	0.500	1	1.00	112.93		112.93					
10322	0.000	1	1.00	112.93		112.93					
10322	0.500	1	1.00	112.93		112.93					
10323	0.000	1	1.00	112.93		112.93					
10323	0.500	1	1.00	112.93		112.93					
10324	0.000	1	1.00	112.93		112.93					
10324	0.500	1	1.00	112.93		112.93					
10325	0.000	1	1.00	112.93		112.93'					
10325	0.500	1	1.00	112.93		112.93'					
10326	0.000	1	1.00	112.93		112.93'					
10326	0.500	1	1.00	112.93		112.93'					
10327	0.000	1	1.00	112.93		112.93'					
10327	0.500	1	1.00	112.93		112.93'					
10328	0.000	1	1.00	112.93		112.93'					
10328	0.500	1	1.00	112.93		112.93'					
10329	0.000	1	1.00	112.93		112.93'					
10329	0.500	1	1.00	112.93		112.93'					
10330	0.000	1	1.00	112.93		112.93'					
10330	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10331	0.000	1	1.00	112.93		112.93'					
10331	0.500	1	1.00	112.93		112.93'					
10332	0.000	1	1.00	112.93		112.93'					
10332	0.500	1	1.00	112.93		112.93'					
10333	0.000	1	1.00	112.93		112.93'					
10333	0.500	1	1.00	112.93		112.93'					
10334	0.000	1	1.00	112.93		112.93'					
10334	0.500	1	1.00	112.93		112.93'					
10335	0.000	1	1.00	112.93		112.93'					
10335	0.500	1	1.00	112.93		112.93'					
10336	0.000	1	1.00	112.93		112.93'					
10336	0.500	1	1.00	112.93		112.93'					
10337	0.000	1	1.00	112.93		112.93'					
10337	0.500	1	1.00	112.93		112.93'					
10338	0.000	1	1.00	112.93		112.93'					
10338	0.500	1	1.00	112.93		112.93'					
10339	0.000	1	1.00	112.93		112.93'					
10339	0.500	1	1.00	112.93		112.93'					
10340	0.000	1	1.00	112.93		112.93'					
10340	0.500	1	1.00	112.93		112.93'					
10341	0.000	1	1.00	112.93		112.93'					
10341	0.500	1	1.00	112.93		112.93'					
10342	0.000	1	1.00	112.93		112.93'					
10342	0.500	1	1.00	112.93		112.93'					
10343	0.000	1	1.00	112.93		112.93'					
10343	0.500	1	1.00	112.93		112.93'					
10344	0.000	1	1.00	112.93		112.93'					
10344	0.500	1	1.00	112.93		112.93					
10345	0.000	1	1.00	112.93		112.93					
10345	0.500	1	1.00	112.93		112.93					
10346	0.000	1	1.00	112.93		112.93					
10346	0.500	1	1.00	112.93		112.93					
10347	0.000	1	1.00	112.93		112.93					
10347	0.500	1	1.00	112.93		112.93					
10348	0.000	1	1.00	112.93		112.93					
10348	0.500	1	1.00	112.93		112.93					
10349	0.000	1	1.00	112.93		112.93					
10349	0.500	1	1.00	112.93		112.93					
10350	0.000	1	1.00	112.93		112.93					
10350	0.500	1	1.00	112.93		112.93					
10351	0.000	1	1.00	112.93		112.93					
10351	0.500	1	1.00	112.93		112.93					
10352	0.000	1	1.00	112.93		112.93					
10352	0.500	1	1.00	112.93		112.93					
10353	0.000	1	1.00	112.93		112.93					
10353	0.500	1	1.00	112.93		112.93					
10354	0.000	1	1.00	112.93		112.93					
10354	0.500	1	1.00	112.93		112.93					
10355	0.000	1	1.00	112.93		112.93					
10355	0.500	1	1.00	112.93		112.93					
10356	0.000	1	1.00	112.93		112.93					
10356	0.500	1	1.00	112.93		112.93					
10357	0.000	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10357	0.500	1	1.00	112.93		112.93					
10358	0.000	1	1.00	112.93		112.93					
10358	0.500	1	1.00	112.93		112.93					
10359	0.000	1	1.00	112.93		112.93					
10359	0.500	1	1.00	112.93		112.93					
10360	0.000	1	1.00	112.93		112.93					
10360	0.500	1	1.00	112.93		112.93					
10361	0.000	1	1.00	112.93		112.93 ¹					
10361	0.500	1	1.00	112.93		112.93 ¹					
10362	0.000	1	1.00	112.93		112.93 ¹					
10362	0.500	1	1.00	112.93		112.93 ¹					
10363	0.000	1	1.00	112.93		112.93 ¹					
10363	0.500	1	1.00	112.93		112.93 ¹					
10364	0.000	1	1.00	112.93		112.93 ¹					
10364	0.500	1	1.00	112.93		112.93 ¹					
10365	0.000	1	1.00	112.93		112.93 ¹					
10365	0.500	1	1.00	112.93		112.93 ¹					
10366	0.000	1	1.00	112.93		112.93 ¹					
10366	0.500	1	1.00	112.93		112.93 ¹					
10367	0.000	1	1.00	112.93		112.93 ¹					
10367	0.500	1	1.00	112.93		112.93 ¹					
10368	0.000	1	1.00	112.93		112.93 ¹					
10368	0.500	1	1.00	112.93		112.93 ¹					
10369	0.000	1	1.00	112.93		112.93 ¹					
10369	0.500	1	1.00	112.93		112.93 ¹					
10370	0.000	1	1.00	112.93		112.93 ¹					
10370	0.500	1	1.00	112.93		112.93 ¹					
10371	0.000	1	1.00	112.93		112.93 ¹					
10371	0.500	1	1.00	112.93		112.93 ¹					
10372	0.000	1	1.00	112.93		112.93 ¹					
10372	0.500	1	1.00	112.93		112.93 ¹					
10373	0.000	1	1.00	112.93		112.93 ¹					
10373	0.500	1	1.00	112.93		112.93 ¹					
10374	0.000	1	1.00	112.93		112.93 ¹					
10374	0.500	1	1.00	112.93		112.93 ¹					
10375	0.000	1	1.00	112.93		112.93 ¹					
10375	0.500	1	1.00	112.93		112.93 ¹					
10376	0.000	1	1.00	112.93		112.93 ¹					
10376	0.500	1	1.00	112.93		112.93 ¹					
10377	0.000	1	1.00	112.93		112.93 ¹					
10377	0.500	1	1.00	112.93		112.93 ¹					
10378	0.000	1	1.00	112.93		112.93 ¹					
10378	0.500	1	1.00	112.93		112.93 ¹					
10379	0.000	1	1.00	112.93		112.93 ¹					
10379	0.500	1	1.00	112.93		112.93 ¹					
10380	0.000	1	1.00	112.93		112.93 ¹					
10380	0.500	1	1.00	112.93		112.93 ¹					
10381	0.000	1	1.00	112.93		112.93 ¹					
10381	0.500	1	1.00	112.93		112.93 ¹					
10382	0.000	1	1.00	112.93		112.93 ¹					
10382	0.500	1	1.00	112.93		112.93 ¹					
10383	0.000	1	1.00	112.93		112.93 ¹					
10383	0.500	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10384	0.000	1	1.00	112.93		112.93					
10384	0.500	1	1.00	112.93		112.93					
10385	0.000	1	1.00	112.93		112.93					
10385	0.500	1	1.00	112.93		112.93					
10386	0.000	1	1.00	112.93		112.93					
10386	0.500	1	1.00	112.93		112.93					
10387	0.000	1	1.00	112.93		112.93					
10387	0.500	1	1.00	112.93		112.93					
10388	0.000	1	1.00	112.93		112.93					
10388	0.500	1	1.00	112.93		112.93					
10389	0.000	1	1.00	112.93		112.93					
10389	0.500	1	1.00	112.93		112.93					
10390	0.000	1	1.00	112.93		112.93					
10390	0.500	1	1.00	112.93		112.93					
10391	0.000	1	1.00	112.93		112.93					
10391	0.500	1	1.00	112.93		112.93					
10392	0.000	1	1.00	112.93		112.93					
10392	0.500	1	1.00	112.93		112.93					
10393	0.000	1	1.00	112.93		112.93					
10393	0.500	1	1.00	112.93		112.93					
10394	0.000	1	1.00	112.93		112.93					
10394	0.500	1	1.00	112.93		112.93					
10395	0.000	1	1.00	112.93		112.93					
10395	0.500	1	1.00	112.93		112.93					
10396	0.000	1	1.00	112.93		112.93					
10396	0.500	1	1.00	112.93		112.93					
10397	0.000	1	1.00	112.93		112.93'					
10397	0.500	1	1.00	112.93		112.93'					
10398	0.000	1	1.00	112.93		112.93'					
10398	0.500	1	1.00	112.93		112.93'					
10399	0.000	1	1.00	112.93		112.93'					
10399	0.500	1	1.00	112.93		112.93'					
10400	0.000	1	1.00	112.93		112.93'					
10400	0.500	1	1.00	112.93		112.93'					
10401	0.000	1	1.00	112.93		112.93'					
10401	0.500	1	1.00	112.93		112.93'					
10402	0.000	1	1.00	112.93		112.93'					
10402	0.500	1	1.00	112.93		112.93'					
10403	0.000	1	1.00	112.93		112.93'					
10403	0.500	1	1.00	112.93		112.93'					
10404	0.000	1	1.00	112.93		112.93'					
10404	0.500	1	1.00	112.93		112.93'					
10405	0.000	1	1.00	112.93		112.93'					
10405	0.500	1	1.00	112.93		112.93'					
10406	0.000	1	1.00	112.93		112.93'					
10406	0.500	1	1.00	112.93		112.93'					
10407	0.000	1	1.00	112.93		112.93'					
10407	0.500	1	1.00	112.93		112.93'					
10408	0.000	1	1.00	112.93		112.93'					
10408	0.500	1	1.00	112.93		112.93'					
10409	0.000	1	1.00	112.93		112.93'					
10409	0.500	1	1.00	112.93		112.93'					
10410	0.000	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10410	0.500	1	1.00	112.93		112.93'					
10411	0.000	1	1.00	112.93		112.93'					
10411	0.500	1	1.00	112.93		112.93'					
10412	0.000	1	1.00	112.93		112.93'					
10412	0.500	1	1.00	112.93		112.93'					
10413	0.000	1	1.00	112.93		112.93'					
10413	0.500	1	1.00	112.93		112.93'					
10414	0.000	1	1.00	112.93		112.93'					
10414	0.500	1	1.00	112.93		112.93'					
10415	0.000	1	1.00	112.93		112.93'					
10415	0.500	1	1.00	112.93		112.93'					
10416	0.000	1	1.00	112.93		112.93'					
10416	0.500	1	1.00	112.93		112.93					
10417	0.000	1	1.00	112.93		112.93					
10417	0.500	1	1.00	112.93		112.93					
10418	0.000	1	1.00	112.93		112.93					
10418	0.500	1	1.00	112.93		112.93					
10419	0.000	1	1.00	112.93		112.93					
10419	0.500	1	1.00	112.93		112.93					
10420	0.000	1	1.00	112.93		112.93					
10420	0.500	1	1.00	112.93		112.93					
10421	0.000	1	1.00	112.93		112.93					
10421	0.500	1	1.00	112.93		112.93					
10422	0.000	1	1.00	112.93		112.93					
10422	0.500	1	1.00	112.93		112.93					
10423	0.000	1	1.00	112.93		112.93					
10423	0.500	1	1.00	112.93		112.93					
10424	0.000	1	1.00	112.93		112.93					
10424	0.500	1	1.00	112.93		112.93					
10425	0.000	1	1.00	112.93		112.93					
10425	0.500	1	1.00	112.93		112.93					
10426	0.000	1	1.00	112.93		112.93					
10426	0.500	1	1.00	112.93		112.93					
10427	0.000	1	1.00	112.93		112.93					
10427	0.500	1	1.00	112.93		112.93					
10428	0.000	1	1.00	112.93		112.93					
10428	0.500	1	1.00	112.93		112.93					
10429	0.000	1	1.00	112.93		112.93					
10429	0.500	1	1.00	112.93		112.93					
10430	0.000	1	1.00	112.93		112.93					
10430	0.500	1	1.00	112.93		112.93					
10431	0.000	1	1.00	112.93		112.93					
10431	0.500	1	1.00	112.93		112.93					
10432	0.000	1	1.00	112.93		112.93					
10432	0.500	1	1.00	112.93		112.93					
10433	0.000	1	1.00	112.93		112.93'					
10433	0.500	1	1.00	112.93		112.93'					
10434	0.000	1	1.00	112.93		112.93'					
10434	0.500	1	1.00	112.93		112.93'					
10435	0.000	1	1.00	112.93		112.93'					
10435	0.500	1	1.00	112.93		112.93'					
10436	0.000	1	1.00	112.93		112.93'					
10436	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10437	0.000	1	1.00	112.93		112.93'					
10437	0.500	1	1.00	112.93		112.93'					
10438	0.000	1	1.00	112.93		112.93'					
10438	0.500	1	1.00	112.93		112.93'					
10439	0.000	1	1.00	112.93		112.93'					
10439	0.500	1	1.00	112.93		112.93'					
10440	0.000	1	1.00	112.93		112.93'					
10440	0.500	1	1.00	112.93		112.93'					
10441	0.000	1	1.00	112.93		112.93'					
10441	0.500	1	1.00	112.93		112.93'					
10442	0.000	1	1.00	112.93		112.93'					
10442	0.500	1	1.00	112.93		112.93'					
10443	0.000	1	1.00	112.93		112.93'					
10443	0.500	1	1.00	112.93		112.93'					
10444	0.000	1	1.00	112.93		112.93'					
10444	0.500	1	1.00	112.93		112.93'					
10445	0.000	1	1.00	112.93		112.93'					
10445	0.500	1	1.00	112.93		112.93'					
10446	0.000	1	1.00	112.93		112.93'					
10446	0.500	1	1.00	112.93		112.93'					
10447	0.000	1	1.00	112.93		112.93'					
10447	0.500	1	1.00	112.93		112.93'					
10448	0.000	1	1.00	112.93		112.93'					
10448	0.500	1	1.00	112.93		112.93'					
10449	0.000	1	1.00	112.93		112.93'					
10449	0.500	1	1.00	112.93		112.93'					
10450	0.000	1	1.00	112.93		112.93'					
10450	0.500	1	1.00	112.93		112.93'					
10451	0.000	1	1.00	112.93		112.93'					
10451	0.500	1	1.00	112.93		112.93'					
10452	0.000	1	1.00	112.93		112.93'					
10452	0.500	1	1.00	112.93		112.93					
10453	0.000	1	1.00	112.93		112.93					
10453	0.500	1	1.00	112.93		112.93					
10454	0.000	1	1.00	112.93		112.93					
10454	0.500	1	1.00	112.93		112.93					
10455	0.000	1	1.00	112.93		112.93					
10455	0.500	1	1.00	112.93		112.93					
10456	0.000	1	1.00	112.93		112.93					
10456	0.500	1	1.00	112.93		112.93					
10457	0.000	1	1.00	112.93		112.93					
10457	0.500	1	1.00	112.93		112.93					
10458	0.000	1	1.00	112.93		112.93					
10458	0.500	1	1.00	112.93		112.93					
10459	0.000	1	1.00	112.93		112.93					
10459	0.500	1	1.00	112.93		112.93					
10460	0.000	1	1.00	112.93		112.93					
10460	0.500	1	1.00	112.93		112.93					
10461	0.000	1	1.00	112.93		112.93					
10461	0.500	1	1.00	112.93		112.93					
10462	0.000	1	1.00	112.93		112.93					
10462	0.500	1	1.00	112.93		112.93					
10463	0.000	1	1.00	112.93		112.93					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10463	0.500	1	1.00	112.93		112.93					
10464	0.000	1	1.00	112.93		112.93					
10464	0.500	1	1.00	112.93		112.93					
10465	0.000	1	1.00	112.93		112.93					
10465	0.500	1	1.00	112.93		112.93					
10466	0.000	1	1.00	112.93		112.93					
10466	0.500	1	1.00	112.93		112.93					
10467	0.000	1	1.00	112.93		112.93					
10467	0.500	1	1.00	112.93		112.93					
10468	0.000	1	1.00	112.93		112.93					
10468	0.500	1	1.00	112.93		112.93					
10469	0.000	1	1.00	112.93		112.93 ¹					
10469	0.500	1	1.00	112.93		112.93 ¹					
10470	0.000	1	1.00	112.93		112.93 ¹					
10470	0.500	1	1.00	112.93		112.93 ¹					
10471	0.000	1	1.00	112.93		112.93 ¹					
10471	0.500	1	1.00	112.93		112.93 ¹					
10472	0.000	1	1.00	112.93		112.93 ¹					
10472	0.500	1	1.00	112.93		112.93 ¹					
10473	0.000	1	1.00	112.93		112.93 ¹					
10473	0.500	1	1.00	112.93		112.93 ¹					
10474	0.000	1	1.00	112.93		112.93 ¹					
10474	0.500	1	1.00	112.93		112.93 ¹					
10475	0.000	1	1.00	112.93		112.93 ¹					
10475	0.500	1	1.00	112.93		112.93 ¹					
10476	0.000	1	1.00	112.93		112.93 ¹					
10476	0.500	1	1.00	112.93		112.93 ¹					
10477	0.000	1	1.00	112.93		112.93 ¹					
10477	0.500	1	1.00	112.93		112.93 ¹					
10478	0.000	1	1.00	112.93		112.93 ¹					
10478	0.500	1	1.00	112.93		112.93 ¹					
10479	0.000	1	1.00	112.93		112.93 ¹					
10479	0.500	1	1.00	112.93		112.93 ¹					
10480	0.000	1	1.00	112.93		112.93 ¹					
10480	0.500	1	1.00	112.93		112.93 ¹					
10481	0.000	1	1.00	112.93		112.93 ¹					
10481	0.500	1	1.00	112.93		112.93 ¹					
10482	0.000	1	1.00	112.93		112.93 ¹					
10482	0.500	1	1.00	112.93		112.93 ¹					
10483	0.000	1	1.00	112.93		112.93 ¹					
10483	0.500	1	1.00	112.93		112.93 ¹					
10484	0.000	1	1.00	112.93		112.93 ¹					
10484	0.500	1	1.00	112.93		112.93 ¹					
10485	0.000	1	1.00	112.93		112.93 ¹					
10485	0.500	1	1.00	112.93		112.93 ¹					
10486	0.000	1	1.00	112.93		112.93 ¹					
10486	0.500	1	1.00	112.93		112.93 ¹					
10487	0.000	1	1.00	112.93		112.93 ¹					
10487	0.500	1	1.00	112.93		112.93 ¹					
10488	0.000	1	1.00	112.93		112.93 ¹					
10488	0.500	1	1.00	112.93		112.93 ¹					
10489	0.000	1	1.00	112.93		112.93 ¹					
10489	0.500	1	1.00	112.93		112.93 ¹					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10490	0.000	1	1.00	112.93		112.93'					
10490	0.500	1	1.00	112.93		112.93'					
10491	0.000	1	1.00	112.93		112.93'					
10491	0.500	1	1.00	112.93		112.93					
10492	0.000	1	1.00	112.93		112.93					
10492	0.500	1	1.00	112.93		112.93					
10493	0.000	1	1.00	112.93		112.93					
10493	0.500	1	1.00	112.93		112.93					
10494	0.000	1	1.00	112.93		112.93					
10494	0.500	1	1.00	112.93		112.93					
10495	0.000	1	1.00	112.93		112.93					
10495	0.500	1	1.00	112.93		112.93					
10496	0.000	1	1.00	112.93		112.93					
10496	0.500	1	1.00	112.93		112.93					
10497	0.000	1	1.00	112.93		112.93					
10497	0.500	1	1.00	112.93		112.93					
10498	0.000	1	1.00	112.93		112.93					
10498	0.500	1	1.00	112.93		112.93					
10499	0.000	1	1.00	112.93		112.93					
10499	0.500	1	1.00	112.93		112.93					
10500	0.000	1	1.00	112.93		112.93					
10500	0.500	1	1.00	112.93		112.93					
10501	0.000	1	1.00	112.93		112.93					
10501	0.500	1	1.00	112.93		112.93					
10502	0.000	1	1.00	112.93		112.93					
10502	0.500	1	1.00	112.93		112.93					
10503	0.000	1	1.00	112.93		112.93					
10503	0.500	1	1.00	112.93		112.93					
10504	0.000	1	1.00	112.93		112.93					
10504	0.500	1	1.00	112.93		112.93					
10505	0.000	1	1.00	112.93		112.93'					
10505	0.500	1	1.00	112.93		112.93'					
10506	0.000	1	1.00	112.93		112.93'					
10506	0.500	1	1.00	112.93		112.93'					
10507	0.000	1	1.00	112.93		112.93'					
10507	0.500	1	1.00	112.93		112.93'					
10508	0.000	1	1.00	112.93		112.93'					
10508	0.500	1	1.00	112.93		112.93'					
10509	0.000	1	1.00	112.93		112.93'					
10509	0.500	1	1.00	112.93		112.93'					
10510	0.000	1	1.00	112.93		112.93'					
10510	0.500	1	1.00	112.93		112.93'					
10511	0.000	1	1.00	112.93		112.93'					
10511	0.500	1	1.00	112.93		112.93'					
10512	0.000	1	1.00	112.93		112.93'					
10512	0.500	1	1.00	112.93		112.93'					
10513	0.000	1	1.00	112.93		112.93'					
10513	0.500	1	1.00	112.93		112.93'					
10514	0.000	1	1.00	112.93		112.93'					
10514	0.500	1	1.00	112.93		112.93'					
10515	0.000	1	1.00	112.93		112.93'					
10515	0.500	1	1.00	112.93		112.93'					
10516	0.000	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10516	0.500	1	1.00	112.93		112.93'					
10517	0.000	1	1.00	112.93		112.93'					
10517	0.500	1	1.00	112.93		112.93'					
10518	0.000	1	1.00	112.93		112.93'					
10518	0.500	1	1.00	112.93		112.93'					
10519	0.000	1	1.00	112.93		112.93'					
10519	0.500	1	1.00	112.93		112.93'					
10520	0.000	1	1.00	112.93		112.93'					
10520	0.500	1	1.00	112.93		112.93'					
10521	0.000	1	1.00	112.93		112.93'					
10521	0.500	1	1.00	112.93		112.93'					
10522	0.000	1	1.00	112.93		112.93'					
10522	0.500	1	1.00	112.93		112.93'					
10523	0.000	1	1.00	112.93		112.93'					
10523	0.500	1	1.00	112.93		112.93'					
10524	0.000	1	1.00	112.93		112.93'					
10524	0.500	1	1.00	112.93		112.93'					
10525	0.000	1	1.00	112.93		112.93'					
10525	0.500	1	1.00	112.93		112.93'					
10526	0.000	1	1.00	112.93		112.93'					
10526	0.500	1	1.00	112.93		112.93'					
10527	0.000	1	1.00	112.93		112.93'					
10527	0.500	1	1.00	112.93		112.93					
10528	0.000	1	1.00	112.93		112.93					
10528	0.500	1	1.00	112.93		112.93					
10529	0.000	1	1.00	112.93		112.93					
10529	0.500	1	1.00	112.93		112.93					
10530	0.000	1	1.00	112.93		112.93					
10530	0.500	1	1.00	112.93		112.93					
10531	0.000	1	1.00	112.93		112.93					
10531	0.500	1	1.00	112.93		112.93					
10532	0.000	1	1.00	112.93		112.93					
10532	0.500	1	1.00	112.93		112.93					
10533	0.000	1	1.00	112.93		112.93					
10533	0.500	1	1.00	112.93		112.93					
10534	0.000	1	1.00	112.93		112.93					
10534	0.500	1	1.00	112.93		112.93					
10535	0.000	1	1.00	112.93		112.93					
10535	0.500	1	1.00	112.93		112.93					
10536	0.000	1	1.00	112.93		112.93					
10536	0.500	1	1.00	112.93		112.93					
10537	0.000	1	1.00	112.93		112.93					
10537	0.500	1	1.00	112.93		112.93					
10538	0.000	1	1.00	112.93		112.93					
10538	0.500	1	1.00	112.93		112.93					
10539	0.000	1	1.00	112.93		112.93					
10539	0.500	1	1.00	112.93		112.93					
10540	0.000	1	1.00	112.93		112.93					
10540	0.500	1	1.00	112.93		112.93					
10541	0.000	1	1.00	112.93		112.93'					
10541	0.500	1	1.00	112.93		112.93'					
10542	0.000	1	1.00	112.93		112.93'					
10542	0.500	1	1.00	112.93		112.93'					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
10543	0.000	1	1.00	112.93		112.93 ¹					
10543	0.500	1	1.00	112.93		112.93 ¹					
10544	0.000	1	1.00	112.93		112.93 ¹					
10544	0.500	1	1.00	112.93		112.93 ¹					
10545	0.000	1	1.00	112.93		112.93 ¹					
10545	0.500	1	1.00	112.93		112.93 ¹					
10546	0.000	1	1.00	112.93		112.93 ¹					
10546	0.500	1	1.00	112.93		112.93 ¹					
10547	0.000	1	1.00	112.93		112.93 ¹					
10547	0.500	1	1.00	112.93		112.93 ¹					
10548	0.000	1	1.00	112.93		112.93 ¹					
10548	0.500	1	1.00	112.93		112.93 ¹					
10549	0.000	1	1.00	112.93		112.93 ¹					
10549	0.500	1	1.00	112.93		112.93 ¹					
10550	0.000	1	1.00	112.93		112.93 ¹					
10550	0.500	1	1.00	112.93		112.93 ¹					
10551	0.000	1	1.00	112.93		112.93 ¹					
10551	0.500	1	1.00	112.93		112.93 ¹					
10552	0.000	1	1.00	112.93		112.93 ¹					
10552	0.500	1	1.00	112.93		112.93 ¹					
10553	0.000	1	1.00	112.93		112.93 ¹					
10553	0.500	1	1.00	112.93		112.93 ¹					
10554	0.000	1	1.00	112.93		112.93 ¹					
10554	0.500	1	1.00	112.93		112.93 ¹					
10555	0.000	1	1.00	112.93		112.93 ¹					
10555	0.500	1	1.00	112.93		112.93 ¹					
10556	0.000	1	1.00	112.93		112.93 ¹					
10556	0.500	1	1.00	112.93		112.93 ¹					
10557	0.000	1	1.00	112.93		112.93 ¹					
10557	0.500	1	1.00	112.93		112.93 ¹					
10558	0.000	1	1.00	112.93		112.93 ¹					
10558	0.500	1	1.00	112.93		112.93 ¹					
10559	0.000	1	1.00	112.93		112.93 ¹					
10559	0.500	1	1.00	112.93		112.93 ¹					
10560	0.000	1	1.00	112.93		112.93 ¹					
10560	0.500	1	1.00	112.93		112.93 ¹					
10561	0.000	1	1.00	112.93		112.93 ¹					
10561	0.500	1	1.00	112.93		112.93 ¹					
10562	0.000	1	1.00	112.93		112.93 ¹					
10562	0.500	1	1.00	112.93		112.93 ¹					
10563	0.000	1	1.00	112.93		112.93 ¹					
10563	0.500	1	1.00	112.93		112.93 ¹					
10564	0.000	1	1.00	112.93		112.93 ¹					
10564	0.500	1	1.00	112.93		112.93 ¹					
10565	0.000	1	1.00	112.93		112.93 ¹					
10565	0.500	1	1.00	112.93		112.93 ¹					
10566	0.000	1	1.00	112.93		112.93 ¹					
10566	0.500	1	1.00	112.93		112.93 ¹					
10567	0.000	1	1.00	112.93		112.93 ¹					
10567	0.500	1	1.00	112.93		112.93 ¹					
10568	0.000	1	1.00	112.93		112.93 ¹					
10568	0.500	1	1.00	112.93		112.93 ¹					
10569	0.000	1	1.00	112.93		112.93 ¹					

Model FL geometry
Piles design ULS

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
10569	0.500	1	1.00	112.93		112.93'					
10570	0.000	1	1.00	112.93		112.93'					
10570	0.500	1	1.00	112.93		112.93					
10571	0.000	1	1.00	112.93		112.93					
10571	0.500	1	1.00	112.93		112.93					
10572	0.000	1	1.00	112.93		112.93					
10572	0.500	1	1.00	112.93		112.93					
10573	0.000	1	1.00	112.93		112.93					
10573	0.500	1	1.00	112.93		112.93					
10574	0.000	1	1.00	112.93		112.93					
10574	0.500	1	1.00	112.93		112.93					
10575	0.000	1	1.00	112.93		112.93					
10575	0.500	1	1.00	112.93		112.93					
10576	0.000	1	1.00	112.93		112.93					
10576	0.500	1	1.00	112.93		112.93					

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

ρ	geometric part of reinforcements
Asl	total longitudinal reinforcement
vm	shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0, Asl-1, Asl-2, Asl-3, Asl-4, Asl-5	longitudinal reinforcement per layer

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	σ -x	σ +x	τ	σ -v	σ -s	σ -dyn	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	-	-	0.126
Pile D1200	0.000	0.000	0.000	0.000	-	-	0.126	-	-	-	

N	normal force	τ	shear stress
Vy, Vz	shear force	σ -v	principal or von Mises stress
My, Mz	bending	σ -s	stress in reinforcements
Mtp, Mts	torsion (p)primary and (s)econdary	σ -dyn	stress range
Mb	warping moment	As-l	longitudinal reinforcements
Ncr	flexural buckling	As-v	transverse reinforcements or concrete shear strength
SCL	cross-section class	crack	crack width
σ -x	longitud. compressive stress	c/t	stress dependant utilisation level (see AQB Manual 2.3.2)
σ +x	longitud. tensile stress	Total	most unfavorable utilisation for all checks

Model FL geometry
Piles design SLS

Design Code

EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures (Europe) V 2023
Structure: B (Road bridges)

Materials

Mat	Classification
1	C 30/37 (EN 1992) basic mat
2	B 500 B (EN 1992) rc

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
Grp 1	10001			
NoA, NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Biaxial bending, uniaxial stress calculated in y-z axis
Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

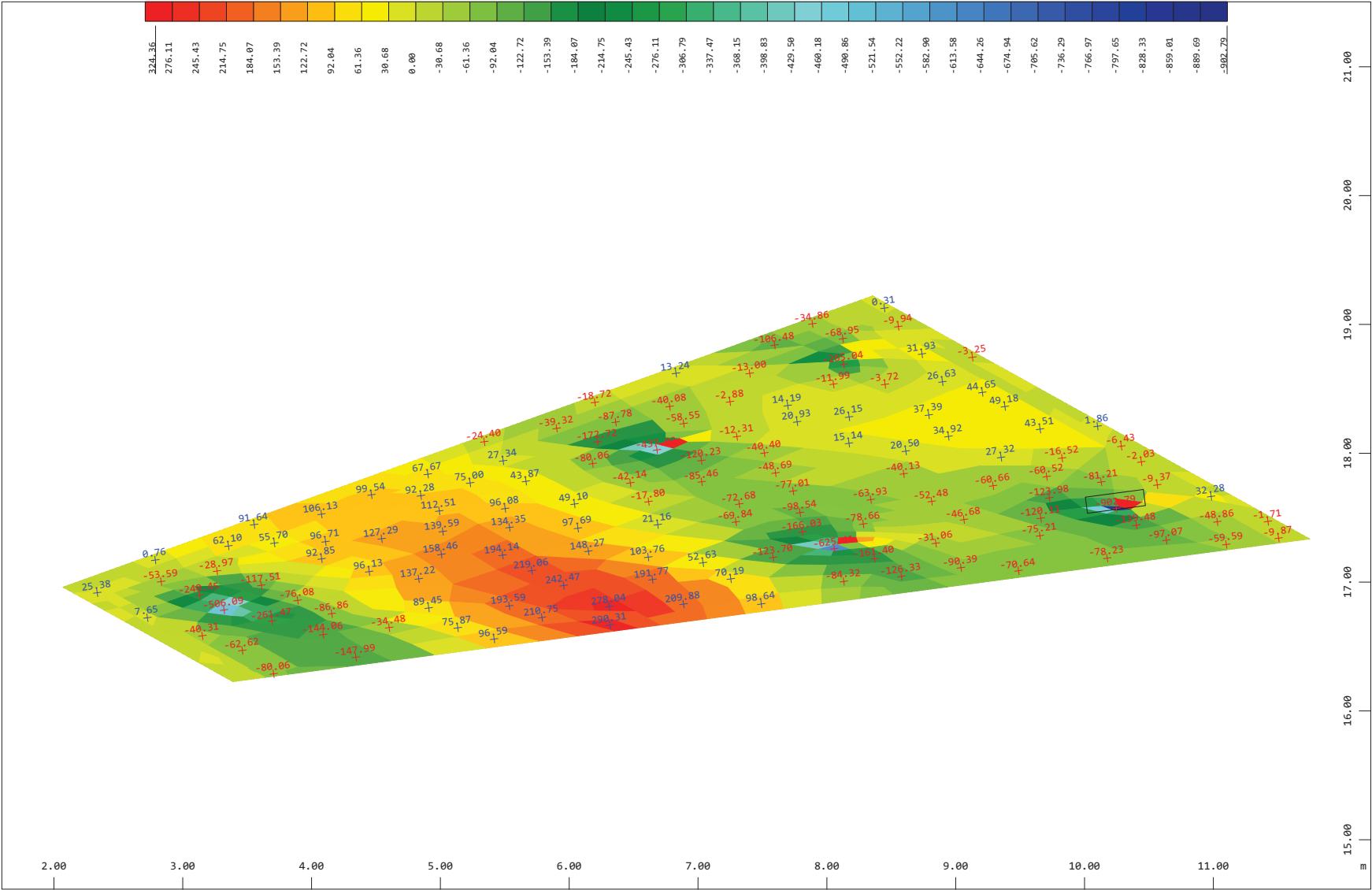
Considered Load Cases

LC	ACT	REF	CS	Designation
1100	(R)			MAXR-N BEAM LL
1101	(R)			MINR-N BEAM LL
1102	(R)			MAXR-MY BEAM LL
1103	(R)			MINR-MY BEAM LL
1104	(R)			MAXR-MZ BEAM LL
1105	(R)			MINR-MZ BEAM LL
1106	(R)			MAXR-VY BEAM LL
1107	(R)			MINR-VY BEAM LL
1108	(R)			MAXR-VZ BEAM LL
1109	(R)			MINR-VZ BEAM LL
1126	(R)			MAXR-N BEAM W
1127	(R)			MINR-N BEAM W
1128	(R)			MAXR-MY BEAM W
1129	(R)			MINR-MY BEAM W
1130	(R)			MAXR-MZ BEAM W
1131	(R)			MINR-MZ BEAM W
1132	(R)			MAXR-VY BEAM W
1133	(R)			MINR-VY BEAM W
1134	(R)			MAXR-VZ BEAM W
1135	(R)			MINR-VZ BEAM W
1152	(R)			MAXR-N BEAM WU
1153	(R)			MINR-N BEAM WU
1154	(R)			MAXR-MY BEAM WU
1155	(R)			MINR-MY BEAM WU
1156	(R)			MAXR-MZ BEAM WU
1157	(R)			MINR-MZ BEAM WU
1158	(R)			MAXR-VY BEAM WU
1159	(R)			MINR-VY BEAM WU
1160	(R)			MAXR-VZ BEAM WU
1161	(R)			MINR-VZ BEAM WU
LC load case		REF reference point for forces and moments		
ACT action		CS section the load case is acting on		

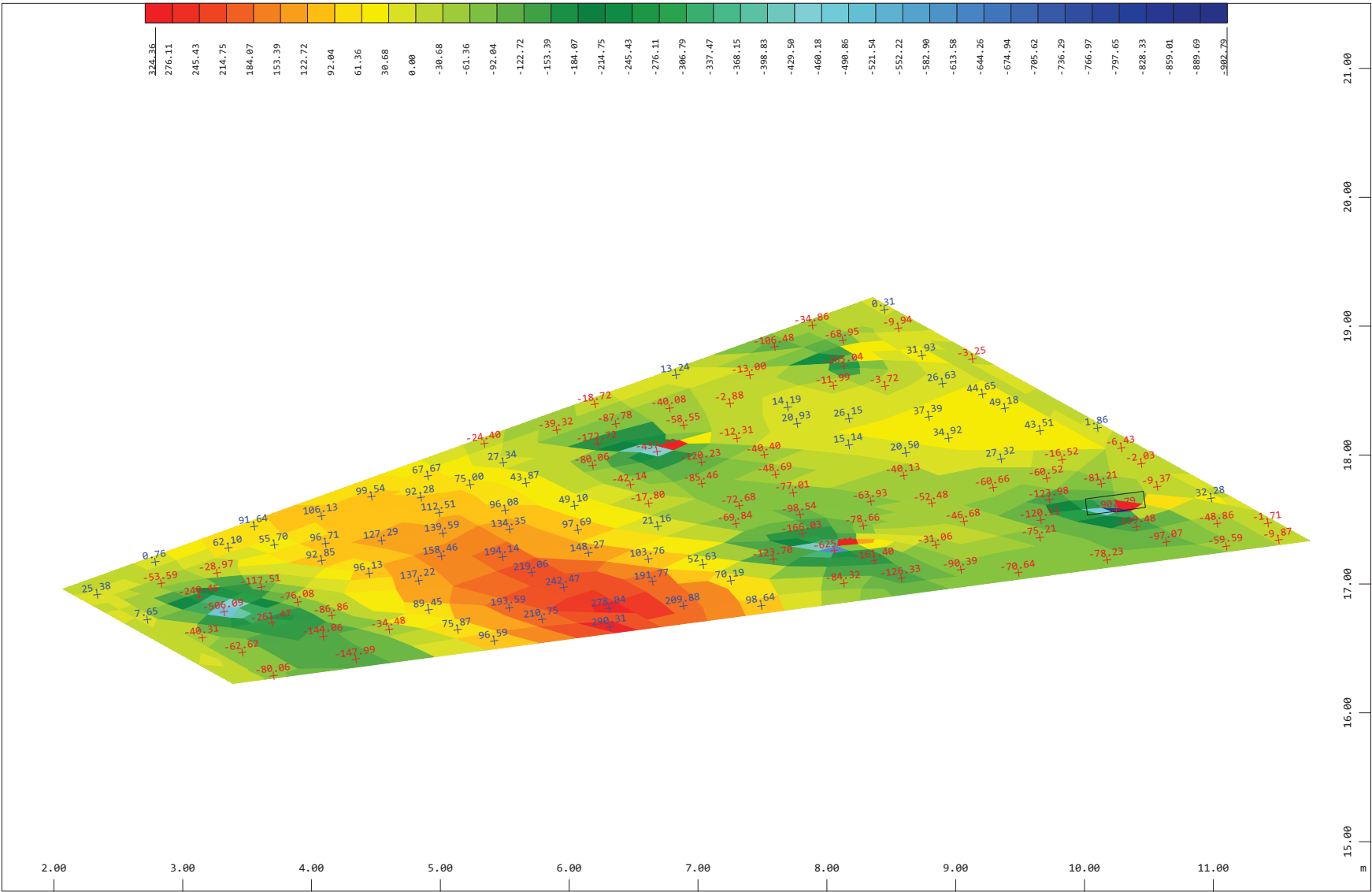
Model FL geometry
Piles design SLS

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	0.000
Pile D1200	0.116	0.055	0.000	0.000	-	-	-	-	-	-	
<p>N normal force τ shear stress</p> <p>Vy,Vz shear force $\sigma-v$ principal or von Mises stress</p> <p>My,Mz bending $\sigma-s$ stress in reinforcements</p> <p>Mtp,Mts torsion (p)primary and (s)econdary $\sigma-dyn$ stress range</p> <p>Mb warping moment As-l longitudinal reinforcements</p> <p>Ncr flexural buckling As-v transverse reinforcements or concrete shear strength</p> <p>SCL cross-section class crack crack width</p> <p>$\sigma-x$ longitud. compressive stress c/t stress dependant utilisation level (see AQB Manual 2.3.2)</p> <p>$\sigma+x$ longitud. tensile stress Total most unfavorable utilisation for all checks</p>											



z
Y
Sector of system Group 10
Bending moment m-yy in local y in Element
↔ in kNm/m, Loadcase 2089 MIN-MXX QUAD Sup-W (Min=-902.79) (Max=324.36)
M 1 : 42
X * 0.502
Y * 0.906
Z * 0.962



Sector of system Group 10
Bending moment m-yy in local y in Element
in kNm/m, Loadcase 2089 MIN-MXX QUAD Sup-W (Min=-902.79) (Max=324.36)
M 1 : 42
X * 0.502
Y * 0.906
Z * 0.962

Model OPL geometry

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Model OPL geometry

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BEMESS - DESIGN OF PLATES AND SHELLS

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Model OPL geometry

BEMESS - DESIGN OF PLATES AND SHELLS

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OPL Reinforcement design - beams**FL Reinforcement design - pictures****GRAPHIC - GRAPHICS FOR FINITE ELEMENTS**

All loads LC: 68	68
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Design Code

Snow load zone : 1

Mat	Classification
1	C 30/37 (EN 1992) basic mat
2	B 500 B (EN 1992) rc

Cross section No. 1 - Pile D1200

Diagram illustrating the cross-section of a pile (Pile D1200) showing dimensions and reinforcement details. The pile has a diameter of 1200 mm. The reinforcement details include 12 bars (12Ø) and 12 bars (12Ø) arranged in two concentric circles. The vertical axis is labeled Z and the horizontal axis is labeled Y. The vertical axis has markings at 500, 0, and -500 mm. The horizontal axis has markings at 2500, 2000, 1500, 1000, 500, 0, -500, -1000, -1500, -2000, and -2500 mm. The pile is centered at (0,0). The concrete layer is 1200 mm thick, extending from 600 mm to 1800 mm from the center. The pile is labeled 'D1200' and 'SC'.

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					$\alpha[^\circ]$
1	1	1.1310E+00	9.698E-01	1.018E-01	0.0	0.0	32837	2827.4	
	2 ¹	2.036E-01	9.697E-01	1.018E-01	0.0	0.0	13682	(BEAM)	

SNo	section number	yc[mm],zc[mm]	ordinate of elastic centroid
Mat	material number	ysc[mm],zsc[mm]	ordinate of shear centre
A[m ²]	sectional area	E[N/mm ²]	Young's modulus
Ay[m ²],Az[m ²],Ayz[m ²]	transverse shear deformation area	g[kg/m]	mass per length
Iy[m ⁴],Iz[m ⁴],Iyz[m ⁴]	bending moment of inertia		
I-1[m ⁴],I-2[m ⁴], α°	principal moments of inertia and angle of the principal axes		
MRf	reinforcement material number		
It[m ⁴]	torsional moment of inertia		
G[N/mm ²]	Shear modulus		

[illegible][illegible]

Model OPL geometry
Standard,materials,sections,profiles

Transverse

s [m]	K0-t [kN/m2]	K1-t [kN/m2]	K2-t [kN/m2]	K3-t [kN/m2]	P0 [-]	P1 [-]	P2 [-]	P3 [-]	Pmax [kN/m]
0.000	7000.00				1.00	1.00	1.00	1.00	0.00
6.000									0.00
6.000	20000.00				1.00	1.00	1.00	1.00	0.00
8.000									0.00
8.000	32000.00				1.00	1.00	1.00	1.00	0.00
12.000									0.00
12.000	7000.00				1.00	1.00	1.00	1.00	0.00
14.000									0.00
14.000	27000.00				1.00	1.00	1.00	1.00	0.00
23.000									0.00
s ordinate of the profile axis K0-t,K1-t,K2-t,K3-t parameter of the foundation profile P0,P1,P2,P3 form factor as variation along periphery Pmax maximum foundation value									

Model OPL geometry

Groups

Grp	Number	Type	min-no	max-no	Designation
1	1440	BEAM	10001	11440	
	54	SPRI	10001	10054	
	1494	base	10000	99999	
10	1021	QUAD	100001	101021	
15	1150	QUAD	150001	151150	
20	2035	QUAD	200001	202035	
25	730	QUAD	250001	250730	
30	1829	QUAD	300001	301829	
35	1786	QUAD	350001	351786	
40	2853	QUAD	400001	402853	
45	1932	QUAD	450001	451932	
50	2176	QUAD	500001	502176	
55	1574	QUAD	550001	551574	
60	317	QUAD	600001	600317	
65	327	QUAD	650001	650327	
70	3608	QUAD	700001	703608	
75	3629	QUAD	750001	753629	
Grp primary group number Type element type					
Number number of elements within group			min-no,max-no minimum/maximum element number		

Summary of beam elements

Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Surface [m2]
1	360.000	0.250	407.150	1017.876	1357.168
Sum	360.000		407.150	1017.876	1357.168
Grp primary group number					

Summary of quadrilateral elements

Groups

Grp	TotArea [m2]	TotVolume [m3]	TotWeight [t]	Material
10	43.057	55.975	139.937	1
15	58.747	29.374	73.434	1
20	99.780	129.714	324.286	1
25	22.456	8.982	22.456	1
30	60.236	15.059	37.647	1
35	56.517	14.129	35.323	1
40	120.584	30.146	75.365	1
45	73.642	18.410	46.026	1
50	58.711	14.678	36.694	1
55	42.059	10.515	26.287	1
60	5.999	1.500	3.750	1
65	11.425	2.856	7.141	1
70	106.585	31.975	79.939	1
75	81.441	24.432	61.081	1
Sum	841.239	387.746	969.364	
Grp primary group number				

Model OPL geometry
OPL Load definition

Load Case 1 self weight

Factor forces and moments 1.000
Factor dead weight DL-ZZ -1.000

Load Case 5 G1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 30			19.376	9.299	27.700	PG	10.00 [kN/m2]
				19.445	3.960	27.700		10.00 [kN/m2]
				23.790	3.952	27.700		10.00 [kN/m2]
				21.100	9.299	27.700		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	10.00 [kN/m2]
				14.052	3.960	25.720		10.00 [kN/m2]
				15.357	3.960	25.720		10.00 [kN/m2]
				15.288	9.299	25.720		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 34			8.308	9.299	23.540	PG	10.00 [kN/m2]
				8.378	3.960	23.540		10.00 [kN/m2]
				10.279	3.960	23.540		10.00 [kN/m2]
				10.210	9.299	23.540		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	10.00 [kN/m2]
				13.053	9.299	25.183		10.00 [kN/m2]
				13.053	3.960	25.143		10.00 [kN/m2]
				14.052	3.960	25.720		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	10.00 [kN/m2]
				18.569	3.960	27.276		10.00 [kN/m2]
				19.445	3.960	27.700		10.00 [kN/m2]
				19.376	9.299	27.700		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	10.00 [kN/m2]
				10.279	3.960	23.540		10.00 [kN/m2]
				13.053	3.960	25.143		10.00 [kN/m2]
				13.053	9.299	25.183		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	10.00 [kN/m2]
				4.579	3.960	21.700		10.00 [kN/m2]
				8.378	3.960	23.540		10.00 [kN/m2]
				8.308	9.299	23.540		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	10.00 [kN/m2]
				15.357	3.960	25.720		10.00 [kN/m2]
				18.569	3.960	27.276		10.00 [kN/m2]
				18.569	9.299	27.309		10.00 [kN/m2]
				activated				100.00 percent
Area	sar 25			18.569	3.960	27.700	PG	5.00 [kN/m2]
				18.569	0.000	27.700		5.00 [kN/m2]
				25.796	0.000	27.700		5.00 [kN/m2]
				23.790	3.952	27.700		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 27			15.362	3.960	26.477	PG	5.00 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				15.362	0.000	26.477		5.00 [kN/m2]
				18.569	0.000	26.477		5.00 [kN/m2]
				18.569	3.960	26.477		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 28	ZZ	0.000	13.053	3.960	25.143	PZZ	5.00 [kN/m2]
				13.053	0.000	25.143		5.00 [kN/m2]
				15.362	0.000	26.477		5.00 [kN/m2]
				15.362	3.960	26.477		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 29	ZZ	0.000	6.774	3.960	21.515	PZZ	5.00 [kN/m2]
				6.774	0.000	21.515		5.00 [kN/m2]
				13.053	0.000	25.143		5.00 [kN/m2]
				13.053	3.960	25.143		5.00 [kN/m2]
				activated				100.00 percent
Area	sar 2			13.053	3.960	20.000	PG	40.00 [kN/m2]
				13.053	0.000	20.000		40.00 [kN/m2]
				26.195	0.000	20.000		40.00 [kN/m2]
				24.195	3.962	20.000		40.00 [kN/m2]
				activated				99.99 percent
Area	sar -mult-			24.194	3.960	21.100	PG	40.00 [kN/m2]
				21.500	9.299	21.100		40.00 [kN/m2]
				13.053	9.299	21.100		40.00 [kN/m2]
				13.053	3.960	21.100		40.00 [kN/m2]
				activated				100.01 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	15.00 [kN/m]
				18.569	0.000	27.700		15.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	28.00 [kN/m]
				6.774	0.000	21.515		28.00 [kN/m]
				activated				100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	12.00 [kN/m]
				0.275	0.000	21.515		12.00 [kN/m]
				activated				100.00 percent

SOFISTIK AG - www.sofistik.de

Load Case 50 LL 1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				10.210	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	7.50 [kN/m2]
				4.579	3.960	21.700		7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				8.308	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				13.053	9.299	25.183		7.50 [kN/m2]
				activated				100.00 percent

Load Case 51 LL 2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
				activated				100.00 percent

Load Case 52 LL 3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 30			19.376	9.299	27.700	PG	7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				23.790	3.952	27.700		7.50 [kN/m2]
				21.100	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				19.376	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent

Load Case 53 LL 4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp -mult-			18.569	3.960	27.700	PG	38.00 [kN/m]
				18.569	0.000	27.700		38.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	68.00 [kN/m]
				6.774	0.000	21.515		68.00 [kN/m]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	30.00 [kN/m]
				0.275	0.000	21.515		30.00 [kN/m]
							activated	100.00 percent

Load Case 54 LL 1+2

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
Selected loads copied from load case 51 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				10.210	9.299	23.540		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	7.50 [kN/m2]
				4.579	3.960	21.700		7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				8.308	9.299	23.540		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
							activated	100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
							activated	100.00 percent

Load Case 55 LL 2+3

Factor forces and moments 1.000

Selected loads copied from load case 51 with factor 1.000
Selected loads copied from load case 52 with factor 1.000

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				23.790	3.952	27.700		7.50 [kN/m2]
				21.100	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				19.376	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent

Load Case 56 LL 1+2+3

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
 Selected loads copied from load case 51 with factor 1.000
 Selected loads copied from load case 52 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				10.210	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	7.50 [kN/m2]
				4.579	3.960	21.700		7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				8.308	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				23.790	3.952	27.700		7.50 [kN/m2]
				21.100	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				19.376	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent

Load Case 57 LL 1+2+e

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
 Selected loads copied from load case 51 with factor 1.000
 Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				10.210	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	7.50 [kN/m2]
				4.579	3.960	21.700		7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				8.308	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	38.00 [kN/m]
				18.569	0.000	27.700		38.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	68.00 [kN/m]
				6.774	0.000	21.515		68.00 [kN/m]
				activated				100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	30.00 [kN/m]
				0.275	0.000	21.515		30.00 [kN/m]
				activated				100.00 percent

Load Case 58 LL 2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 51 with factor 1.000
 Selected loads copied from load case 52 with factor 1.000
 Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				23.790	3.952	27.700		7.50 [kN/m2]
				21.100	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				19.445	3.960	27.700		7.50 [kN/m2]
				19.376	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	38.00 [kN/m]
				18.569	0.000	27.700		38.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	68.00 [kN/m]
				6.774	0.000	21.515		68.00 [kN/m]
				activated				100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	30.00 [kN/m]
				0.275	0.000	21.515		30.00 [kN/m]
				activated				100.00 percent

Load Case 59 LL 1+2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 50 with factor 1.000
Selected loads copied from load case 51 with factor 1.000
Selected loads copied from load case 52 with factor 1.000
Selected loads copied from load case 53 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				10.210	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	7.50 [kN/m2]
				4.579	3.960	21.700		7.50 [kN/m2]
				8.378	3.960	23.540		7.50 [kN/m2]
				8.308	9.299	23.540		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	7.50 [kN/m2]
				10.279	3.960	23.540		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				15.288	9.299	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	7.50 [kN/m2]
				13.053	9.299	25.183		7.50 [kN/m2]
				13.053	3.960	25.143		7.50 [kN/m2]
				14.052	3.960	25.720		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	7.50 [kN/m2]
				15.357	3.960	25.720		7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				18.569	9.299	27.309		7.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				23.790	3.952	27.700		7.50 [kN/m2]
				21.100	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	7.50 [kN/m2]
				18.569	3.960	27.276		7.50 [kN/m2]
				19.445	3.960	27.700		7.50 [kN/m2]
				19.376	9.299	27.700		7.50 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	38.00 [kN/m]
				18.569	0.000	27.700		38.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	68.00 [kN/m]
				6.774	0.000	21.515		68.00 [kN/m]
				activated				100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	30.00 [kN/m]
				0.275	0.000	21.515		30.00 [kN/m]
				activated				100.00 percent

Load Case 60 S 1

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				10.210	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	2.50 [kN/m2]
				4.579	3.960	21.700		2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				8.308	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				activated				100.00 percent

Load Case 61 S 2

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent

Load Case 62 S 3

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 30			19.376	9.299	27.700	PG	2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				23.790	3.952	27.700		2.50 [kN/m2]
				21.100	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				19.376	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent

Load Case 63 S 4

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Line	qgrp -mult-			18.569	3.960	27.700	PG	13.00 [kN/m]
				18.569	0.000	27.700		13.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	23.00 [kN/m]
				6.774	0.000	21.515		23.00 [kN/m]
				activated				100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	10.00 [kN/m]
				0.275	0.000	21.515		10.00 [kN/m]
				activated				100.00 percent

Load Case 64 S 1+2

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
Selected loads copied from load case 61 with factor 1.000

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				10.210	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	2.50 [kN/m2]
				4.579	3.960	21.700		2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				8.308	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent

Load Case 65 S 2+3

Factor forces and moments 1.000

Selected loads copied from load case 61 with factor 1.000

Selected loads copied from load case 62 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				23.790	3.952	27.700		2.50 [kN/m2]
				21.100	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				19.376	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent

Load Case 66 S 1+2+3

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
 Selected loads copied from load case 61 with factor 1.000
 Selected loads copied from load case 62 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				10.210	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	2.50 [kN/m2]
				4.579	3.960	21.700		2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				8.308	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 30			19.376	9.299	27.700	PG	2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				23.790	3.952	27.700		2.50 [kN/m2]
				21.100	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				19.376	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent

Load Case 67 S 1+2+e

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
 Selected loads copied from load case 61 with factor 1.000
 Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				10.210	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	2.50 [kN/m2]
				4.579	3.960	21.700		2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				8.308	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	13.00 [kN/m]
				18.569	0.000	27.700		13.00 [kN/m]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated (++)	100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	23.00 [kN/m]
				6.774	0.000	21.515		23.00 [kN/m]
							activated	100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	10.00 [kN/m]
				0.275	0.000	21.515		10.00 [kN/m]
							activated	100.00 percent

Load Case 68 S 2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 61 with factor 1.000
 Selected loads copied from load case 62 with factor 1.000
 Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				23.790	3.952	27.700		2.50 [kN/m2]
				21.100	9.299	27.700		2.50 [kN/m2]
							activated	100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				19.376	9.299	27.700		2.50 [kN/m2]
							activated	100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	13.00 [kN/m]
				18.569	0.000	27.700		13.00 [kN/m]
							activated (++)	100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	23.00 [kN/m]
				6.774	0.000	21.515		23.00 [kN/m]
							activated	100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	10.00 [kN/m]
				0.275	0.000	21.515		10.00 [kN/m]
							activated	100.00 percent

Model OPL geometry
OPL Load definition

Load Case 69 S 1+2+3+e

Factor forces and moments 1.000

Selected loads copied from load case 60 with factor 1.000
Selected loads copied from load case 61 with factor 1.000
Selected loads copied from load case 62 with factor 1.000
Selected loads copied from load case 63 with factor 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 34			8.308	9.299	23.540	PG	2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				10.210	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 35	ZZ	0.000	4.509	9.299	21.700	PZZ	2.50 [kN/m2]
				4.579	3.960	21.700		2.50 [kN/m2]
				8.378	3.960	23.540		2.50 [kN/m2]
				8.308	9.299	23.540		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	10.210	9.299	23.540	PZZ	2.50 [kN/m2]
				10.279	3.960	23.540		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 32			13.983	9.299	25.720	PG	2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				15.288	9.299	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 33	ZZ	0.000	13.983	9.299	25.720	PZZ	2.50 [kN/m2]
				13.053	9.299	25.183		2.50 [kN/m2]
				13.053	3.960	25.143		2.50 [kN/m2]
				14.052	3.960	25.720		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	15.288	9.299	25.720	PZZ	2.50 [kN/m2]
				15.357	3.960	25.720		2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				18.569	9.299	27.309		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 30			19.376	9.299	27.700	PG	2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				23.790	3.952	27.700		2.50 [kN/m2]
				21.100	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent
Area	sar 31	ZZ	0.000	18.569	9.299	27.309	PZZ	2.50 [kN/m2]
				18.569	3.960	27.276		2.50 [kN/m2]
				19.445	3.960	27.700		2.50 [kN/m2]
				19.376	9.299	27.700		2.50 [kN/m2]
				activated				100.00 percent
Line	qgrp -mult-			18.569	3.960	27.700	PG	13.00 [kN/m]
				18.569	0.000	27.700		13.00 [kN/m]
				activated (++)				100.15 percent
Line	qgrp -mult-			6.774	3.960	21.515	PG	23.00 [kN/m]
				6.774	0.000	21.515		23.00 [kN/m]

Model OPL geometry
OPL Load definition

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
							activated	100.04 percent
Line	qgrp 65			0.275	3.960	21.515	PG	10.00 [kN/m]
				0.275	0.000	21.515		10.00 [kN/m]
							activated	100.00 percent

Load Case 70 Wind

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 6			4.509	9.299	21.100	PYY	10.00 [kN/m2]
				21.100	9.299	21.100		10.00 [kN/m2]
				21.100	9.299	27.700		10.00 [kN/m2]
				19.376	9.299	27.700		10.00 [kN/m2]
				15.288	9.299	25.720		10.00 [kN/m2]
				13.983	9.299	25.720		10.00 [kN/m2]
				10.210	9.299	23.540		10.00 [kN/m2]
				8.308	9.299	23.540		10.00 [kN/m2]
				4.509	9.299	21.700		10.00 [kN/m2]
							activated (--)	94.01 percent

Load Case 71 Wind

Factor forces and moments 1.000

Loads

Kind	Reference to	Projection Designation	W[m]	Coordinates			Type	Load value
				X[m]	Y[m]	Z[m]		
Area	sar 8			0.275	0.000	20.000	PYY	-10.00 [kN/m2]
				25.796	0.000	20.000		-10.00 [kN/m2]
				25.796	0.000	27.700		-10.00 [kN/m2]
				18.569	0.000	27.700		-10.00 [kN/m2]
				18.569	0.000	26.477		-10.00 [kN/m2]
				15.362	0.000	26.477		-10.00 [kN/m2]
				6.774	0.000	21.515		-10.00 [kN/m2]
				0.275	0.000	21.515		-10.00 [kN/m2]
							activated	100.00 percent

Model OPL geometry
Superposition of loads

Design Code

EuroNorm Bridges: EN 1990:2002 Basis of structural design (Europe) V 2023

Combination rule Number 1

CR

Resulting Load Cases type SLS quasi-permanent combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
Fact factor for load case Type type of the load case AG exclusive load permanent			

Combination rule Number 2

LL

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
50	1.00	A1	LL 1
51	1.00	A1	LL 2
52	1.00	A1	LL 3
53	1.00	A1	LL 4
54	1.00	A1	LL 1+2
55	1.00	A1	LL 2+3
56	1.00	A1	LL 1+2+3
57	1.00	A1	LL 1+2+e
58	1.00	A1	LL 2+3+e
59	1.00	A1	LL 1+2+3+e
60	0.50	A2	S 1
61	0.50	A2	S 2
62	0.50	A2	S 3
63	0.50	A2	S 4
64	0.50	A2	S 1+2
65	0.50	A2	S 2+3
66	0.50	A2	S 1+2+3
67	0.50	A2	S 1+2+e
68	0.50	A2	S 2+3+e
69	0.50	A2	S 1+2+3+e
70	0.60	A3	Wind
71	0.60	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 3

W

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1

Model OPL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
70	1.00	A3	Wind
71	1.00	A3	Wind
50	0.70	A1	LL 1
51	0.70	A1	LL 2
52	0.70	A1	LL 3
53	0.70	A1	LL 4
54	0.70	A1	LL 1+2
55	0.70	A1	LL 2+3
56	0.70	A1	LL 1+2+3
57	0.70	A1	LL 1+2+e
58	0.70	A1	LL 2+3+e
59	0.70	A1	LL 1+2+3+e
60	0.50	A2	S 1
61	0.50	A2	S 2
62	0.50	A2	S 3
63	0.50	A2	S 4
64	0.50	A2	S 1+2
65	0.50	A2	S 2+3
66	0.50	A2	S 1+2+3
67	0.50	A2	S 1+2+e
68	0.50	A2	S 2+3+e
69	0.50	A2	S 1+2+3+e
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 4

WU

Resulting Load Cases type SLS characteristic combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.00	A3	Wind
71	1.00	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 5

Inf-LL

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
50	1.50	A1	LL 1
51	1.50	A1	LL 2
52	1.50	A1	LL 3
53	1.50	A1	LL 4
54	1.50	A1	LL 1+2
55	1.50	A1	LL 2+3
56	1.50	A1	LL 1+2+3

Model OPL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
57	1.50	A1	LL 1+2+e
58	1.50	A1	LL 2+3+e
59	1.50	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
70	0.90	A3	Wind
71	0.90	A3	Wind
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

Combination rule Number 6

Sup-LL
Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
50	1.50	A1	LL 1
51	1.50	A1	LL 2
52	1.50	A1	LL 3
53	1.50	A1	LL 4
54	1.50	A1	LL 1+2
55	1.50	A1	LL 2+3
56	1.50	A1	LL 1+2+3
57	1.50	A1	LL 1+2+e
58	1.50	A1	LL 2+3+e
59	1.50	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
70	0.90	A3	Wind
71	0.90	A3	Wind
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

Model OPL geometry
Superposition of loads

Combination rule Number 7

Inf-W

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
50	1.05	A1	LL 1
51	1.05	A1	LL 2
52	1.05	A1	LL 3
53	1.05	A1	LL 4
54	1.05	A1	LL 1+2
55	1.05	A1	LL 2+3
56	1.05	A1	LL 1+2+3
57	1.05	A1	LL 1+2+e
58	1.05	A1	LL 2+3+e
59	1.05	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			
A exclusive load			

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Combination rule Number 8

Sup-W

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
50	1.05	A1	LL 1
51	1.05	A1	LL 2
52	1.05	A1	LL 3
53	1.05	A1	LL 4
54	1.05	A1	LL 1+2
55	1.05	A1	LL 2+3
56	1.05	A1	LL 1+2+3
57	1.05	A1	LL 1+2+e
58	1.05	A1	LL 2+3+e
59	1.05	A1	LL 1+2+3+e
60	0.75	A2	S 1
61	0.75	A2	S 2

Model OPL geometry
Superposition of loads

Load Case selection

Number	Fact	Type	Designation
62	0.75	A2	S 3
63	0.75	A2	S 4
64	0.75	A2	S 1+2
65	0.75	A2	S 2+3
66	0.75	A2	S 1+2+3
67	0.75	A2	S 1+2+e
68	0.75	A2	S 2+3+e
69	0.75	A2	S 1+2+3+e
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 9

Inf-WU
Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.00	AG1	self weight
5	1.00	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Combination rule Number 10

Sup-WU
Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
1	1.35	AG1	self weight
5	1.35	AG2	G1
70	1.50	A3	Wind
71	1.50	A3	Wind
Fact factor for load case Type type of the load case AG exclusive load permanent A exclusive load			

Generated Load Cases

Number	Combination	Designation
1000	1	MAXP-N BEAM CR
1001	1	MINP-N BEAM CR
1002	1	MAXP-MY BEAM CR
1003	1	MINP-MY BEAM CR
1004	1	MAXP-MZ BEAM CR
1005	1	MINP-MZ BEAM CR
1006	1	MAXP-VY BEAM CR
1007	1	MINP-VY BEAM CR
1008	1	MAXP-VZ BEAM CR
1009	1	MINP-VZ BEAM CR
1010	1	MAXP-NXX QUAD CR
1011	1	MINP-NXX QUAD CR
1012	1	MAXP-NYY QUAD CR

Model OPL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1013	1	MINP-NYY QUAD CR
1014	1	MAXP-NXY QUAD CR
1015	1	MINP-NXY QUAD CR
1016	1	MAXP-MXX QUAD CR
1017	1	MINP-MXX QUAD CR
1018	1	MAXP-MYY QUAD CR
1019	1	MINP-MYY QUAD CR
1020	1	MAXP-MXY QUAD CR
1021	1	MINP-MXY QUAD CR
1022	1	MAXP-VY QUAD CR
1023	1	MINP-VY QUAD CR
1024	1	MAXP-VX QUAD CR
1025	1	MINP-VX QUAD CR
1100	2	MAXR-N BEAM LL
1101	2	MINR-N BEAM LL
1102	2	MAXR-MY BEAM LL
1103	2	MINR-MY BEAM LL
1104	2	MAXR-MZ BEAM LL
1105	2	MINR-MZ BEAM LL
1106	2	MAXR-VY BEAM LL
1107	2	MINR-VY BEAM LL
1108	2	MAXR-VZ BEAM LL
1109	2	MINR-VZ BEAM LL
1110	2	MAXR-MXX QUAD LL
1111	2	MINR-MXX QUAD LL
1112	2	MAXR-MYY QUAD LL
1113	2	MINR-MYY QUAD LL
1114	2	MAXR-MXY QUAD LL
1115	2	MINR-MXY QUAD LL
1116	2	MAXR-NXX QUAD LL
1117	2	MINR-NXX QUAD LL
1118	2	MAXR-NYY QUAD LL
1119	2	MINR-NYY QUAD LL
1120	2	MAXR-NXY QUAD LL
1121	2	MINR-NXY QUAD LL
1122	2	MAXR-VY QUAD LL
1123	2	MINR-VY QUAD LL
1124	2	MAXR-VX QUAD LL
1125	2	MINR-VX QUAD LL
1126	3	MAXR-N BEAM W
1127	3	MINR-N BEAM W
1128	3	MAXR-MY BEAM W
1129	3	MINR-MY BEAM W
1130	3	MAXR-MZ BEAM W
1131	3	MINR-MZ BEAM W
1132	3	MAXR-VY BEAM W
1133	3	MINR-VY BEAM W
1134	3	MAXR-VZ BEAM W
1135	3	MINR-VZ BEAM W
1136	3	MAXR-MXX QUAD W
1137	3	MINR-MXX QUAD W
1138	3	MAXR-MYY QUAD W
1139	3	MINR-MYY QUAD W
1140	3	MAXR-MXY QUAD W

Model OPL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
1141	3	MINR-MXY QUAD W
1142	3	MAXR-NXX QUAD W
1143	3	MINR-NXX QUAD W
1144	3	MAXR-NYY QUAD W
1145	3	MINR-NYY QUAD W
1146	3	MAXR-NXY QUAD W
1147	3	MINR-NXY QUAD W
1148	3	MAXR-VY QUAD W
1149	3	MINR-VY QUAD W
1150	3	MAXR-VX QUAD W
1151	3	MINR-VX QUAD W
1152	4	MAXR-N BEAM WU
1153	4	MINR-N BEAM WU
1154	4	MAXR-MY BEAM WU
1155	4	MINR-MY BEAM WU
1156	4	MAXR-MZ BEAM WU
1157	4	MINR-MZ BEAM WU
1158	4	MAXR-VY BEAM WU
1159	4	MINR-VY BEAM WU
1160	4	MAXR-VZ BEAM WU
1161	4	MINR-VZ BEAM WU
1162	4	MAXR-MXX QUAD WU
1163	4	MINR-MXX QUAD WU
1164	4	MAXR-MYY QUAD WU
1165	4	MINR-MYY QUAD WU
1166	4	MAXR-MXY QUAD WU
1167	4	MINR-MXY QUAD WU
1168	4	MAXR-NXX QUAD WU
1169	4	MINR-NXX QUAD WU
1170	4	MAXR-NYY QUAD WU
1171	4	MINR-NYY QUAD WU
1172	4	MAXR-NXY QUAD WU
1173	4	MINR-NXY QUAD WU
1174	4	MAXR-VY QUAD WU
1175	4	MINR-VY QUAD WU
1176	4	MAXR-VX QUAD WU
1177	4	MINR-VX QUAD WU
2000	5	MAX-N BEAM Inf-LL
2001	5	MIN-N BEAM Inf-LL
2002	5	MAX-MY BEAM Inf-LL
2003	5	MIN-MY BEAM Inf-LL
2004	5	MAX-MZ BEAM Inf-LL
2005	5	MIN-MZ BEAM Inf-LL
2006	5	MAX-VY BEAM Inf-LL
2007	5	MIN-VY BEAM Inf-LL
2008	5	MAX-VZ BEAM Inf-LL
2009	5	MIN-VZ BEAM Inf-LL
2010	5	MAX-MXX QUAD Inf-LL
2011	5	MIN-MXX QUAD Inf-LL
2012	5	MAX-MYY QUAD Inf-LL
2013	5	MIN-MYY QUAD Inf-LL
2014	5	MAX-MXY QUAD Inf-LL
2015	5	MIN-MXY QUAD Inf-LL
2016	5	MAX-NXX QUAD Inf-LL

Model OPL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2017	5	MIN-NXX QUAD Inf-LL
2018	5	MAX-NYY QUAD Inf-LL
2019	5	MIN-NYY QUAD Inf-LL
2020	5	MAX-NXY QUAD Inf-LL
2021	5	MIN-NXY QUAD Inf-LL
2022	5	MAX-VY QUAD Inf-LL
2023	5	MIN-VY QUAD Inf-LL
2024	5	MAX-VX QUAD Inf-LL
2025	5	MIN-VX QUAD Inf-LL
2026	6	MAX-N BEAM Sup-LL
2027	6	MIN-N BEAM Sup-LL
2028	6	MAX-MY BEAM Sup-LL
2029	6	MIN-MY BEAM Sup-LL
2030	6	MAX-MZ BEAM Sup-LL
2031	6	MIN-MZ BEAM Sup-LL
2032	6	MAX-VY BEAM Sup-LL
2033	6	MIN-VY BEAM Sup-LL
2034	6	MAX-VZ BEAM Sup-LL
2035	6	MIN-VZ BEAM Sup-LL
2036	6	MAX-MXX QUAD Sup-LL
2037	6	MIN-MXX QUAD Sup-LL
2038	6	MAX-MYY QUAD Sup-LL
2039	6	MIN-MYY QUAD Sup-LL
2040	6	MAX-MXY QUAD Sup-LL
2041	6	MIN-MXY QUAD Sup-LL
2042	6	MAX-NXX QUAD Sup-LL
2043	6	MIN-NXX QUAD Sup-LL
2044	6	MAX-NYY QUAD Sup-LL
2045	6	MIN-NYY QUAD Sup-LL
2046	6	MAX-NXY QUAD Sup-LL
2047	6	MIN-NXY QUAD Sup-LL
2048	6	MAX-VY QUAD Sup-LL
2049	6	MIN-VY QUAD Sup-LL
2050	6	MAX-VX QUAD Sup-LL
2051	6	MIN-VX QUAD Sup-LL
2052	7	MAX-N BEAM Inf-W
2053	7	MIN-N BEAM Inf-W
2054	7	MAX-MY BEAM Inf-W
2055	7	MIN-MY BEAM Inf-W
2056	7	MAX-MZ BEAM Inf-W
2057	7	MIN-MZ BEAM Inf-W
2058	7	MAX-VY BEAM Inf-W
2059	7	MIN-VY BEAM Inf-W
2060	7	MAX-VZ BEAM Inf-W
2061	7	MIN-VZ BEAM Inf-W
2062	7	MAX-MXX QUAD Inf-W
2063	7	MIN-MXX QUAD Inf-W
2064	7	MAX-MYY QUAD Inf-W
2065	7	MIN-MYY QUAD Inf-W
2066	7	MAX-MXY QUAD Inf-W
2067	7	MIN-MXY QUAD Inf-W
2068	7	MAX-NXX QUAD Inf-W
2069	7	MIN-NXX QUAD Inf-W
2070	7	MAX-NYY QUAD Inf-W

Model OPL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2071	7	MIN-NYY QUAD Inf-W
2072	7	MAX-NXY QUAD Inf-W
2073	7	MIN-NXY QUAD Inf-W
2074	7	MAX-VY QUAD Inf-W
2075	7	MIN-VY QUAD Inf-W
2076	7	MAX-VX QUAD Inf-W
2077	7	MIN-VX QUAD Inf-W
2078	8	MAX-N BEAM Sup-W
2079	8	MIN-N BEAM Sup-W
2080	8	MAX-MY BEAM Sup-W
2081	8	MIN-MY BEAM Sup-W
2082	8	MAX-MZ BEAM Sup-W
2083	8	MIN-MZ BEAM Sup-W
2084	8	MAX-VY BEAM Sup-W
2085	8	MIN-VY BEAM Sup-W
2086	8	MAX-VZ BEAM Sup-W
2087	8	MIN-VZ BEAM Sup-W
2088	8	MAX-MXX QUAD Sup-W
2089	8	MIN-MXX QUAD Sup-W
2090	8	MAX-MYY QUAD Sup-W
2091	8	MIN-MYY QUAD Sup-W
2092	8	MAX-MXY QUAD Sup-W
2093	8	MIN-MXY QUAD Sup-W
2094	8	MAX-NXX QUAD Sup-W
2095	8	MIN-NXX QUAD Sup-W
2096	8	MAX-NYY QUAD Sup-W
2097	8	MIN-NYY QUAD Sup-W
2098	8	MAX-NXY QUAD Sup-W
2099	8	MIN-NXY QUAD Sup-W
2100	8	MAX-VY QUAD Sup-W
2101	8	MIN-VY QUAD Sup-W
2102	8	MAX-VX QUAD Sup-W
2103	8	MIN-VX QUAD Sup-W
2104	9	MAX-N BEAM Inf-WU
2105	9	MIN-N BEAM Inf-WU
2106	9	MAX-MY BEAM Inf-WU
2107	9	MIN-MY BEAM Inf-WU
2108	9	MAX-MZ BEAM Inf-WU
2109	9	MIN-MZ BEAM Inf-WU
2110	9	MAX-VY BEAM Inf-WU
2111	9	MIN-VY BEAM Inf-WU
2112	9	MAX-VZ BEAM Inf-WU
2113	9	MIN-VZ BEAM Inf-WU
2114	9	MAX-MXX QUAD Inf-WU
2115	9	MIN-MXX QUAD Inf-WU
2116	9	MAX-MYY QUAD Inf-WU
2117	9	MIN-MYY QUAD Inf-WU
2118	9	MAX-MXY QUAD Inf-WU
2119	9	MIN-MXY QUAD Inf-WU
2120	9	MAX-NXX QUAD Inf-WU
2121	9	MIN-NXX QUAD Inf-WU
2122	9	MAX-NYY QUAD Inf-WU
2123	9	MIN-NYY QUAD Inf-WU
2124	9	MAX-NXY QUAD Inf-WU

Model OPL geometry
Superposition of loads

Generated Load Cases

Number	Combination	Designation
2125	9	MIN-NXY QUAD Inf-WU
2126	9	MAX-VY QUAD Inf-WU
2127	9	MIN-VY QUAD Inf-WU
2128	9	MAX-VX QUAD Inf-WU
2129	9	MIN-VX QUAD Inf-WU
2130	10	MAX-N BEAM Sup-WU
2131	10	MIN-N BEAM Sup-WU
2132	10	MAX-MY BEAM Sup-WU
2133	10	MIN-MY BEAM Sup-WU
2134	10	MAX-MZ BEAM Sup-WU
2135	10	MIN-MZ BEAM Sup-WU
2136	10	MAX-VY BEAM Sup-WU
2137	10	MIN-VY BEAM Sup-WU
2138	10	MAX-VZ BEAM Sup-WU
2139	10	MIN-VZ BEAM Sup-WU
2140	10	MAX-MXX QUAD Sup-WU
2141	10	MIN-MXX QUAD Sup-WU
2142	10	MAX-MYY QUAD Sup-WU
2143	10	MIN-MYY QUAD Sup-WU
2144	10	MAX-MXY QUAD Sup-WU
2145	10	MIN-MXY QUAD Sup-WU
2146	10	MAX-NXX QUAD Sup-WU
2147	10	MIN-NXX QUAD Sup-WU
2148	10	MAX-NYY QUAD Sup-WU
2149	10	MIN-NYY QUAD Sup-WU
2150	10	MAX-NXY QUAD Sup-WU
2151	10	MIN-NXY QUAD Sup-WU
2152	10	MAX-VY QUAD Sup-WU
2153	10	MIN-VY QUAD Sup-WU
2154	10	MAX-VX QUAD Sup-WU
2155	10	MIN-VX QUAD Sup-WU

Model OPL geometry
FL Parameters

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigsl	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
default	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
10	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
15	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
20	70.0	100.0	28	28	0.30	0.30	-	-	-	-
	70.0	100.0	28	28	0.30	0.30	-	-	-	-
25	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
30	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
35	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
40	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
45	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
50	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
55	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
60	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
65	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
70	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
75	70.0	100.0	12	12	0.30	0.30	-	-	-	-
	70.0	100.0	12	12	0.30	0.30	-	-	-	-
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.

Model OPL geometry
Uls design, foundation

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model OPL geometry
Uls design, foundation

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model OPL geometry
Uls design, foundation

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

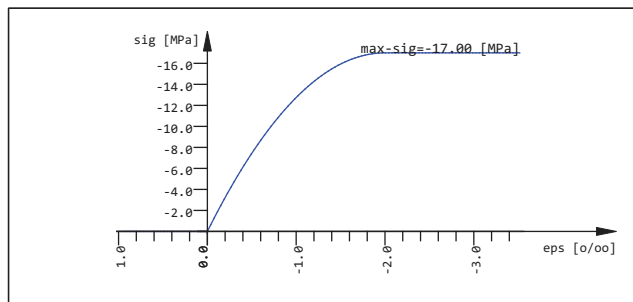
Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

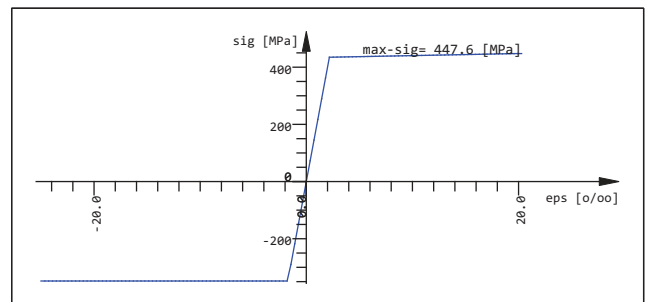
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.
For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].
Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
10	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
15	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
20	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
25	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
30	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
35	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
40	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
45	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
50	70.0 100.0		12 12		- -		- -		- -	

Model OPL geometry
Uls design, foundation

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
65	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]	
20	200109	1.300	10.56	10.16		14.76				2	23.02	
	200828	1.300	9.24	23.72		6.36				2	34.33	
	200860	1.300	36.01	19.48		5.81	0.56			2	64.54	
	201284	1.300	10.21	0.51		2.91	12.62			2	24.43	
Grp	primary group number				asu3	Third reinforcements			Top			
Element	element number				asl	Principal reinforcements (1st layer)			Bottom			
t	plate thickness				asl2	Cross reinforcements (2nd layer)			Bottom			
asu	Principal reinforcements (1st layer)				asl3	Third reinforcements			Bottom			
asu2	Cross reinforcements (2nd layer)				Top							
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design											
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=											
ass	Shear reinforcement											
	Elements with maximum values are printed											

Model OPL geometry
Sls design foundations

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

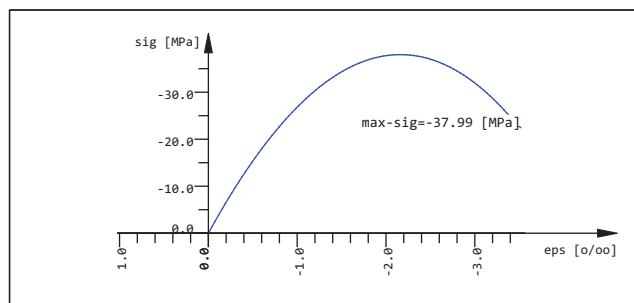
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

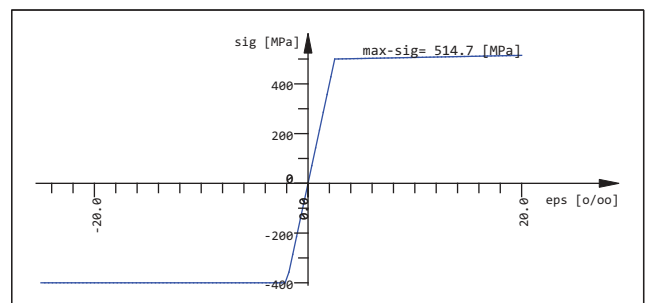
MAT material number
 fck nominal strength of the concrete
 fc strength of the concrete
 fctm tensile strength of the concrete
 fy yield stress reinforcing steel
 ft tensile stress reinforcing steel
 eps,ud maximum strain - limited to max. 0.9*50 o/oo
 minT minimum transverse reinforcement
 Type character of the loading

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model OPL geometry
Sls design foundations

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
4197	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model OPL geometry
Sls design foundations

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	200109	1.300	10.56	10.16		14.76					
	200828	1.300	9.24	23.72		6.36					
	200860	1.300	36.01	19.48		5.81	0.56				
	201284	1.300	10.21	0.51		2.91	12.62				
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					as1	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					as12	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					as13	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
200452	1010 L		1.41	0.00	0.24		28	28		0.30	0.00	1.12	
200828	U		0.54	9.24	23.7		28	28		0.30	15.4	33.5	
200860	U		0.73	36.0	19.5		28	28		0.30	36.0	33.7	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3 Calculation of crack width according to EN 1992-1-1 7.3.4 (first element): kt= 0.40 k1= 0.80 k2= 0.50 k3= variable k4= 0.425 Elements with maximum values are printed												

Model OPL geometry
Sls check, foundations

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

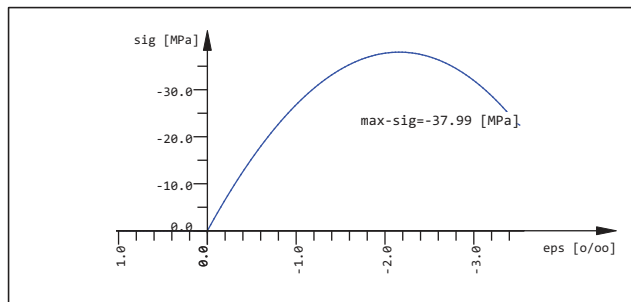
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model OPL geometry
Sls check, foundations

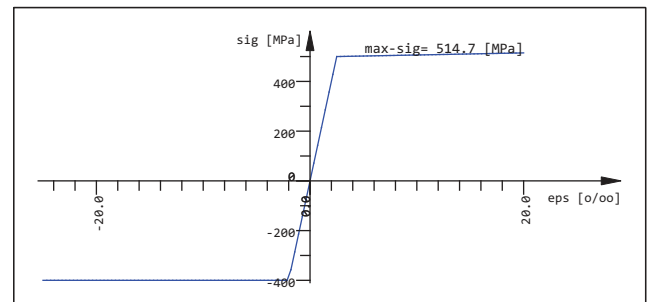
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	

Model OPL geometry
SIs check, foundations

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

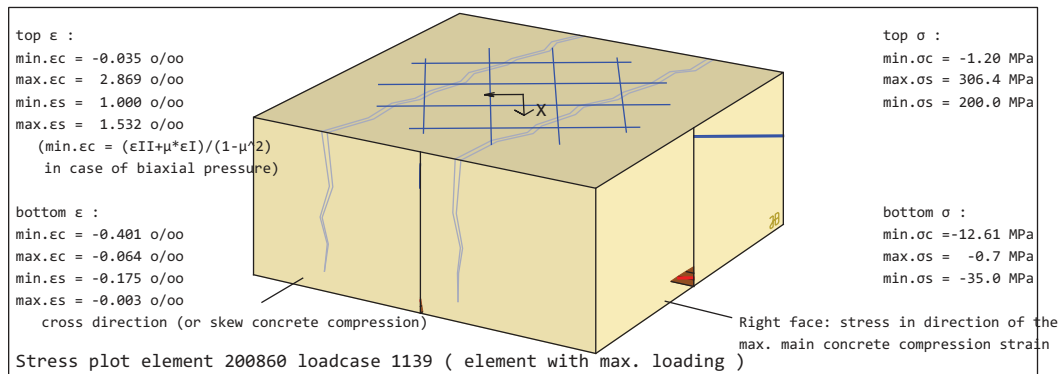
The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	1.00	0.80

Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓

sigS Stress range for reinforcement in [MPa]
sigT Stress range for link reinforcement in [MPa]
CHKC Control of the concrete compressive stress: factor on fck or [MPa]
CHKR Control of the steel stress: factor on fyk or [MPa]



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	200109	1.300	12.38	19.63		14.76					23.02
	200860	1.300	36.01	33.71		5.81	0.56				64.54
	201964	1.300	6.51			12.80	25.79				14.04

Grp primary group number
Element element number
t plate thickness
asu Principal reinforcements (1st layer) Top
asu2 Cross reinforcements (2nd layer) Top
supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design
shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=
ass in a SLS design no shear design is done
Elements with maximum values are printed

asu3 Third reinforcements
asl Principal reinforcements (1st layer) Bottom
asl2 Cross reinforcements (2nd layer) Bottom
asl3 Third reinforcements Bottom

Steel stress, concrete pressure, stress range

E=ELEM	N=NODE	stress range on top			stress range bottom			links	concre	steel-1	steel-s
		asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
		[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E	100706	148.19	46.79	-	399.38	329.06	-	-	-2.20	400.00	-
E	100836	171.00	85.07	-	95.39	3.22	-	217.17	-4.98	219.91	315.01
E	150033	278.28	397.63	-	226.85	199.85	-	-	-3.94	398.37	-
E	200786	56.64	71.86	-	290.19	222.60	-	81.02	-8.91	281.62	288.10
E	200860	217.67	73.01	-	138.26	67.34	-	79.73	-12.61	306.40	188.59
E	200893	398.40	-	-	309.21	310.89	-	-	-1.20	398.75	-

Model OPL geometry
Sls check, foundations

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 201076	58.93	121.81	-	-	396.07	-	-	-1.56	400.00	-
E 201347	398.34	-	-	168.52	330.87	-	-	-0.87	398.95	-
E 201501	330.19	386.25	-	44.12	291.76	-	-	-1.57	398.74	-
Maximum	398.40	397.63	-	399.38	396.07	-	217.17	-12.61	400.00	342.99
stress range on top longitudinal reinforcement links stress range in shear reinforcements concre maximum concrete compression (# greater that allowed) steel-l maximum stress in longitudinal reinforcement steel-s maximum stress in the shear reinforcement Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
 The steel stresses were checked - they are inside the allowable limits.
 links are also checked to CHKR but not printed.

Model OPL geometry
Uls design, walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model OPL geometry
Uls design, walls

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model OPL geometry
Uls design, walls

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

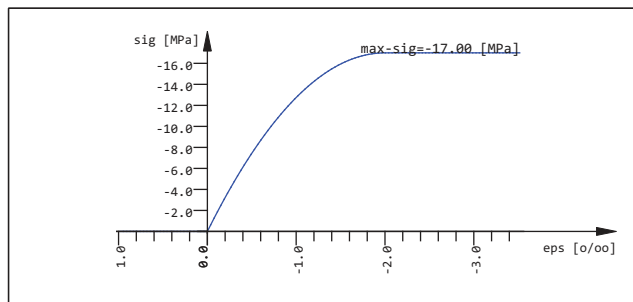
Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

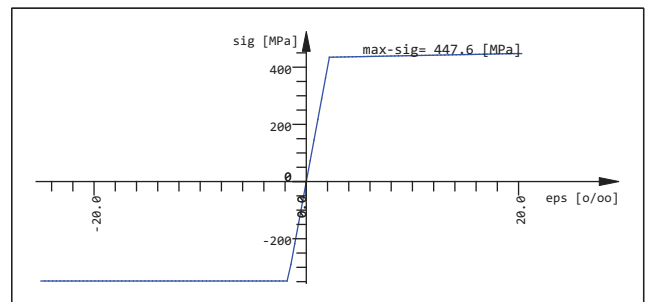
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.
For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].
Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection	distance	bar-diameter	crackwidth	steelstress	min.reinf.
Grp elem	d1-u 2.lay	ds-u 2.lay	wk-u 2.lay	sigsu 2.lay	asu 2.lay
no. no.	d1-l 2.lay	ds-l 2.lay	wk-l 2.lay	sigsl 2.lay	asl 2.lay
	[mm]	[mm]	[mm]	[MPa]	[cm2/m]
default	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
10	70.0 100.0	28 28	- -	- -	- -
	70.0 100.0	28 28	- -	- -	- -
15	70.0 100.0	28 28	- -	- -	- -
	70.0 100.0	28 28	- -	- -	- -
20	70.0 100.0	28 28	- -	- -	- -
	70.0 100.0	28 28	- -	- -	- -
25	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
30	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
35	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
40	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
45	70.0 100.0	12 12	- -	- -	- -
	70.0 100.0	12 12	- -	- -	- -
50	70.0 100.0	12 12	- -	- -	- -

Model OPL geometry
Uls design, walls

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	asl	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
65	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t	asu	asu2	asu3	asl	asl2	asl3	supp	shear	ass
		[m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[-]	[-]	[cm2/m2]
30	301461	0.250	0.54	0.94		1.16	6.19			2m	8.76
40	400335	0.250	5.09	1.35		0.01			0.71	1	
	400511	0.250	1.58	6.87		0.83	0.31		0.72	1	
45	451008	0.250				4.58	1.33		0.00	1	
Grp primary group number Element element number t plate thickness asu Principal reinforcements (1st layer) Top asu2 Cross reinforcements (2nd layer) Top asu3 Third reinforcements asl Principal reinforcements (1st layer) Bottom asl2 Cross reinforcements (2nd layer) Bottom asl3 Third reinforcements Bottom supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear shear zone: 1=0k, punc=punching area, 1s=asu/1 increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=Shear reinforcement ass Elements with maximum values are printed											

Model OPL geometry
Sls design walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

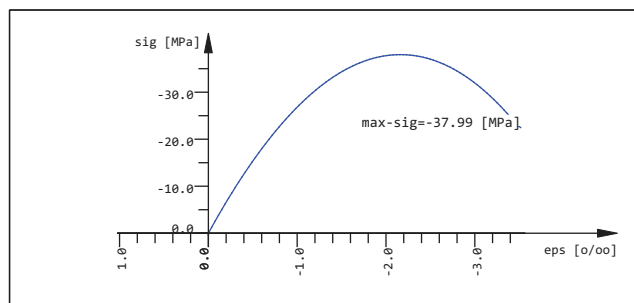
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

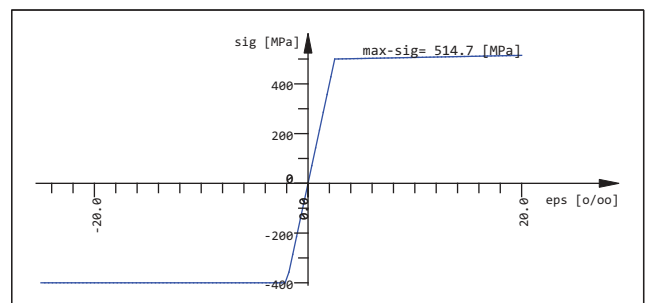
MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model OPL geometry
Sls design walls

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
12310	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model OPL geometry
Sls design walls

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	as1 [cm2/m]	as12 [cm2/m]	as13 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	301461	0.250	0.54	0.94		1.16	6.19				
	400335	0.250	5.09	1.35		0.01					
	400511	0.250	1.58	6.87		0.83	0.31				
	451008	0.250				4.58	1.33				
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					as1	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					as12	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					as13	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
250628	1010	L	0.76	3.28	5.57		12	12		0.30	5.84	7.42	
500117		L	0.39	4.11	1.04		12	12		0.30	4.82	1.04	
500118		L	0.39	4.45	1.03		12	12		0.30	5.17	1.03	
500842		L	0.84	3.20	2.41		12	12		0.30	4.71	5.29	
502090		L	0.61	4.33	0.21		12	12		0.30	6.54	0.21	
		U	0.77	3.44	0.00		12	12		0.30	6.55	0.00	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3												
	Calculation of crack width according to EN 1992-1-1 7.3.4 (first element):												
	kt= 0.40 k1= 0.80 k2= 0.50 k3= variable k4= 0.425												
	Elements with maximum values are printed												

Model OPL geometry
Sls check, walls

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

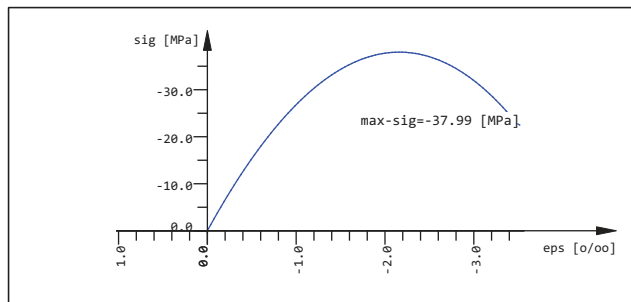
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model OPL geometry
Sls check, walls

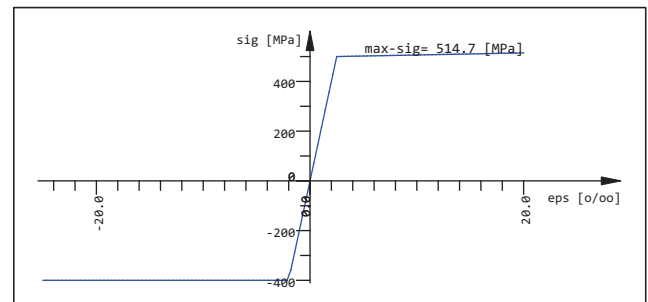
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		12 12		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		28 28		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	

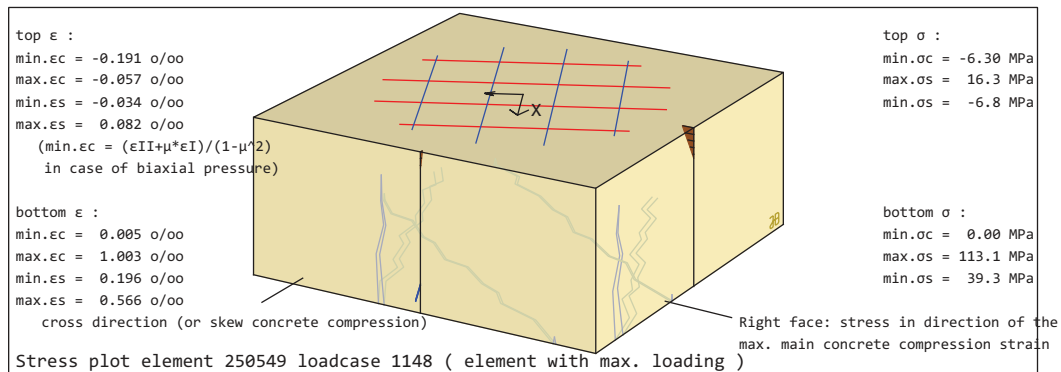
Model OPL geometry Sls check, walls

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	0.60	0.80
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓					
sigS Stress range for reinforcement in [MPa]					
sigT Stress range for link reinforcement in [MPa]					
CHKC Control of the concrete compressive stress: factor on fck or [MPa]					
CHKR Control of the steel stress: factor on fyk or [MPa]					



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]						
0	250628	0.400	1.19			5.84	7.42										
	301461	0.250	0.54	0.94		1.16	6.19										
	400511	0.250	1.58	6.87		0.83	0.31										
	502090	0.250	6.55			6.54	0.21										
Grp	primary group number					asu3	Third reinforcements										
Element	element number					asl	Principal reinforcements (1st layer) Bottom										
t	plate thickness					asl2	Cross reinforcements (2nd layer) Bottom										
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements Bottom										
asu2	Cross reinforcements (2nd layer) Top					Elements with maximum values are printed											
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design																
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=																
ass	in a SLS design no shear design is done																

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 250123	361.10	315.57	-	400.01	-	-	-	-2.70	400.00	-
E 300012	399.75	322.07	-	-	-	-	-	-4.21	400.00	-
E 300279	398.54	309.92	-	-	-	-	-	-4.73	400.00	-
E 300395	399.20	315.46	-	-	-	-	-	-4.75	400.00	-
E 300442	399.38	317.88	-	-	-	-	-	-5.50	400.00	-

Model OPL geometry
Sls check, walls

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 300501	399.99	169.43	-	-	-	-	-	-5.59	399.27	-
E 301365	179.01	164.04	-	400.20	256.96	-	-	-4.91	399.95	-
E 301433	339.15	302.52	-	134.51	194.83	-	-	-3.66	400.00	-
E 301461	190.40	178.04	-	358.11	288.86	-	260.83	-7.54	357.34	165.66
E 350453	-	119.52	-	242.46	178.85	-	-	-1.01	386.95	-
E 351153	271.68	399.09	-	141.10	284.48	-	-	-0.89	400.00	-
E 400512	257.12	260.47	-	120.42	120.28	-	-	-12.02	328.66	-
E 400918	144.19	-	-	308.53	255.53	-	-	-3.75	400.00	-
E 401105	-	-	-	265.35	274.84	-	-	-10.18	310.46	-
E 402156	204.35	66.83	-	286.62	-	-	-	-2.28	400.00	-
E 402468	271.30	287.02	-	359.42	371.30	-	-	-2.76	370.47	-
E 451055	312.05	-	-	177.65	-	-	-	-2.97	400.00	-
Maximum	399.99	399.09	-	400.20	371.30	-	260.83	-12.02	400.00	165.66
stress range on top longitudinal reinforcement links stress range in shear reinforcements concre maximum concrete compression (# greater that allowed) steel-l maximum stress in longitudinal reinforcement steel-s maximum stress in the shear reinforcement Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
 The steel stresses were checked - they are inside the allowable limits.
 links are also checked to CHKR but not printed.

Model OPL geometry
Uls design, decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Ultimate Limit State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
2010	1.000	MAX-MXX QUAD Inf-LL
2011	1.000	MIN-MXX QUAD Inf-LL
2012	1.000	MAX-MYY QUAD Inf-LL
2013	1.000	MIN-MYY QUAD Inf-LL
2014	1.000	MAX-MXY QUAD Inf-LL
2015	1.000	MIN-MXY QUAD Inf-LL
2016	1.000	MAX-NXX QUAD Inf-LL
2017	1.000	MIN-NXX QUAD Inf-LL
2018	1.000	MAX-NYY QUAD Inf-LL
2019	1.000	MIN-NYY QUAD Inf-LL
2020	1.000	MAX-NXY QUAD Inf-LL
2021	1.000	MIN-NXY QUAD Inf-LL
2022	1.000	MAX-VY QUAD Inf-LL
2023	1.000	MIN-VY QUAD Inf-LL
2024	1.000	MAX-VX QUAD Inf-LL
2025	1.000	MIN-VX QUAD Inf-LL
2036	1.000	MAX-MXX QUAD Sup-LL
2037	1.000	MIN-MXX QUAD Sup-LL
2038	1.000	MAX-MYY QUAD Sup-LL
2039	1.000	MIN-MYY QUAD Sup-LL
2040	1.000	MAX-MXY QUAD Sup-LL
2041	1.000	MIN-MXY QUAD Sup-LL
2042	1.000	MAX-NXX QUAD Sup-LL
2043	1.000	MIN-NXX QUAD Sup-LL
2044	1.000	MAX-NYY QUAD Sup-LL
2045	1.000	MIN-NYY QUAD Sup-LL
2046	1.000	MAX-NXY QUAD Sup-LL
2047	1.000	MIN-NXY QUAD Sup-LL
2048	1.000	MAX-VY QUAD Sup-LL
2049	1.000	MIN-VY QUAD Sup-LL
2050	1.000	MAX-VX QUAD Sup-LL
2051	1.000	MIN-VX QUAD Sup-LL
2062	1.000	MAX-MXX QUAD Inf-W
2063	1.000	MIN-MXX QUAD Inf-W
2064	1.000	MAX-MYY QUAD Inf-W
2065	1.000	MIN-MYY QUAD Inf-W
2066	1.000	MAX-MXY QUAD Inf-W
2067	1.000	MIN-MXY QUAD Inf-W
2068	1.000	MAX-NXX QUAD Inf-W
2069	1.000	MIN-NXX QUAD Inf-W
2070	1.000	MAX-NYY QUAD Inf-W
2071	1.000	MIN-NYY QUAD Inf-W
2072	1.000	MAX-NXY QUAD Inf-W
2073	1.000	MIN-NXY QUAD Inf-W
2074	1.000	MAX-VY QUAD Inf-W
2075	1.000	MIN-VY QUAD Inf-W
2076	1.000	MAX-VX QUAD Inf-W
2077	1.000	MIN-VX QUAD Inf-W

Model OPL geometry
Uls design, decks

Load Cases for the Design

Loadcase	factor	Designation
2088	1.000	MAX-MXX QUAD Sup-W
2089	1.000	MIN-MXX QUAD Sup-W
2090	1.000	MAX-MYY QUAD Sup-W
2091	1.000	MIN-MYY QUAD Sup-W
2092	1.000	MAX-MXY QUAD Sup-W
2093	1.000	MIN-MXY QUAD Sup-W
2094	1.000	MAX-NXX QUAD Sup-W
2095	1.000	MIN-NXX QUAD Sup-W
2096	1.000	MAX-NYY QUAD Sup-W
2097	1.000	MIN-NYY QUAD Sup-W
2098	1.000	MAX-NXY QUAD Sup-W
2099	1.000	MIN-NXY QUAD Sup-W
2100	1.000	MAX-VY QUAD Sup-W
2101	1.000	MIN-VY QUAD Sup-W
2102	1.000	MAX-VX QUAD Sup-W
2103	1.000	MIN-VX QUAD Sup-W
2114	1.000	MAX-MXX QUAD Inf-WU
2115	1.000	MIN-MXX QUAD Inf-WU
2116	1.000	MAX-MYY QUAD Inf-WU
2117	1.000	MIN-MYY QUAD Inf-WU
2118	1.000	MAX-MXY QUAD Inf-WU
2119	1.000	MIN-MXY QUAD Inf-WU
2120	1.000	MAX-NXX QUAD Inf-WU
2121	1.000	MIN-NXX QUAD Inf-WU
2122	1.000	MAX-NYY QUAD Inf-WU
2123	1.000	MIN-NYY QUAD Inf-WU
2124	1.000	MAX-NXY QUAD Inf-WU
2125	1.000	MIN-NXY QUAD Inf-WU
2126	1.000	MAX-VY QUAD Inf-WU
2127	1.000	MIN-VY QUAD Inf-WU
2128	1.000	MAX-VX QUAD Inf-WU
2129	1.000	MIN-VX QUAD Inf-WU
2140	1.000	MAX-MXX QUAD Sup-WU
2141	1.000	MIN-MXX QUAD Sup-WU
2142	1.000	MAX-MYY QUAD Sup-WU
2143	1.000	MIN-MYY QUAD Sup-WU
2144	1.000	MAX-MXY QUAD Sup-WU
2145	1.000	MIN-MXY QUAD Sup-WU
2146	1.000	MAX-NXX QUAD Sup-WU
2147	1.000	MIN-NXX QUAD Sup-WU
2148	1.000	MAX-NYY QUAD Sup-WU
2149	1.000	MIN-NYY QUAD Sup-WU
2150	1.000	MAX-NXY QUAD Sup-WU
2151	1.000	MIN-NXY QUAD Sup-WU
2152	1.000	MAX-VY QUAD Sup-WU
2153	1.000	MIN-VY QUAD Sup-WU
2154	1.000	MAX-VX QUAD Sup-WU
2155	1.000	MIN-VX QUAD Sup-WU

Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

Model OPL geometry
Uls design, decks

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

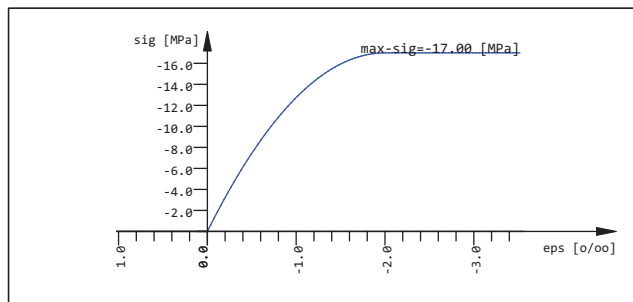
Reduction of FC in case of transvers tension = 25.0 [o/o]

Material-safety-factors:

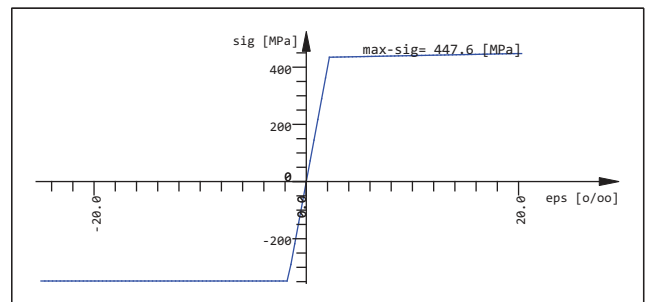
MAT	concr SC1	SC2	steel SS1	SS2
1	1.50	1.50		
2			1.15	1.15

MAT material number
concr SC1 material safety SC1/SC2 = bending/compression
steel SS1 material safety steel bending/compression

At direct supports the shear force is linear reduced from $1.0 \cdot d$ up to the face of the support to 70%.
The maximum shear capacity is checked at the face of the support without reduction.
For punching design, the longitudinal reinforcement will be increased up to 1.50%
to avoid shear reinforcement [input PUNC...RO_V].
Outside the punching area, the normal slab shear design may increase the
longitudinal reinforcement up to 0.20% [input CTRL...RO_V].



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
10	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
15	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
20	70.0 100.0		28 28		- -		- -		- -	
	70.0 100.0		28 28		- -		- -		- -	
25	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
30	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
35	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
40	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
45	70.0 100.0		12 12		- -		- -		- -	
	70.0 100.0		12 12		- -		- -		- -	
50	70.0 100.0		12 12		- -		- -		- -	

Model OPL geometry
Uls design, decks

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u	2.lay	ds-u	2.lay	wk-u	2.lay	sigsu	2.lay	asu	2.lay
	d1-l	2.lay	ds-l	2.lay	wk-l	2.lay	sigs1	2.lay	as1	2.lay
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[MPa]	[MPa]	[cm2/m]	[cm2/m]
	70.0	100.0	12	12	-	-	-	-	-	-
55	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
60	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
65	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
70	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
75	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
	70.0	100.0	12	12	-	-	-	-	-	-
distance upper / lower distance center of bar to surface bar-diameter upper / lower bar diameter crackwidth upper / lower required crack width steelstress upper / lower maximum steel stress in SLS check min.reinf. upper / lower minimum reinforcement										

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

The reinforcement is saved in the data base as reinforcement distribution number 1

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t	asu	asu2	asu3	as1	as12	as13	supp	shear	ass
		[m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[cm2/m]	[-]	[-]	[cm2/m2]
70	702601	0.300				2.78	1.93			1	
75	750168	0.300	0.08	3.67					0.00	1	
	750515	0.300		0.01		1.45	4.78		0.99	1	
	750779	0.300	2.68	1.19		0.03			0.00	1	
Grp primary group number Element element number t plate thickness asu Principal reinforcements (1st layer) Top asu2 Cross reinforcements (2nd layer) Top supp reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design shear shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3= ass Shear reinforcement Elements with maximum values are printed											
					asu3	Third reinforcements			Top		
					as1	Principal reinforcements (1st layer)			Bottom		
					as12	Cross reinforcements (2nd layer)			Bottom		
					as13	Third reinforcements			Bottom		

Model OPL geometry
Sls design decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The design uses the Baumann method.

Load Cases for the Design

Loadcase	factor	Designation
1010	1.000	MAXP-NXX QUAD CR
1011	1.000	MINP-NXX QUAD CR
1012	1.000	MAXP-NYY QUAD CR
1013	1.000	MINP-NYY QUAD CR
1014	1.000	MAXP-NXY QUAD CR
1015	1.000	MINP-NXY QUAD CR
1016	1.000	MAXP-MXX QUAD CR
1017	1.000	MINP-MXX QUAD CR
1018	1.000	MAXP-MYY QUAD CR
1019	1.000	MINP-MYY QUAD CR
1020	1.000	MAXP-MXY QUAD CR
1021	1.000	MINP-MXY QUAD CR
1022	1.000	MAXP-VY QUAD CR
1023	1.000	MINP-VY QUAD CR
1024	1.000	MAXP-VX QUAD CR
1025	1.000	MINP-VX QUAD CR

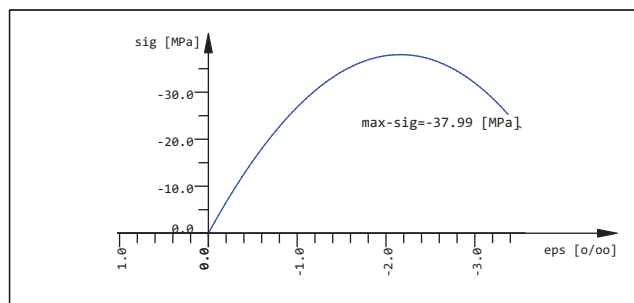
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

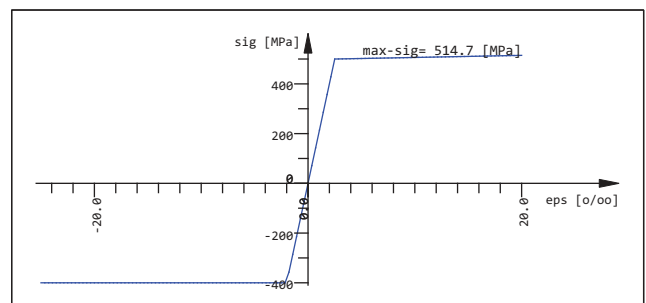
MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		

A robustness minimum reinforcement has not been requested and has to be checked separately.

A minimum reinforcement has not been requested and has to be checked separately.



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Model OPL geometry
Sls design decks

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
distance	upper / lower distance center of bar to surface									
bar-diameter	upper / lower bar diameter									
crackwidth	upper / lower required crack width									
steelstress	upper / lower maximum steel stress in SLS check									
min.reinf.	upper / lower minimum reinforcement									

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.

With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters. The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	wk [mm]	
1	EN-1992	->para	Calculation of crack-width acc. EN 1992 7.3.4
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓			
wk	Required crack width: ->para = values from design parameter definition		
6218	elements/nodes were designed with direct calculation of crack width EN 1992-1-1 7.3.4		

Model OPL geometry
Sls design decks

Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	702601	0.300				2.78	1.93				
	750168	0.300	0.08	3.67							
	750515	0.300		0.01		1.45	4.78				
	750779	0.300	2.68	1.19		0.03					
Grp	primary group number					asu3	Third reinforcements		Top		
Element	element number					asl	Principal reinforcements (1st layer)		Bottom		
t	plate thickness					asl2	Cross reinforcements (2nd layer)		Bottom		
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements		Bottom		
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Serviceability load results according to EN 1992-1-1

ELEM No	LC No	x [m]	wk [mm]	as1	as2	as3	d1 [mm]	d2 [mm]	d3 [mm]	wk+ [mm]	as1+ [mm]	as2+ [mm]	as3+ [mm]
702674	1010	L	0.84	1.80	2.42		12	12		0.30	1.80	5.30	
702736		L	0.44	2.72	2.07		12	12		0.30	2.72	3.81	
702889		L	0.45	2.74	2.07		12	12		0.30	2.74	3.82	
750020		L	0.40	1.14	3.64		12	12		0.30	1.14	4.31	
750055		L	0.41	1.44	3.81		12	12		0.30	1.44	4.60	
750059		L	0.36	1.46	4.01		12	12		0.30	1.46	4.47	
750116		L	0.32	1.49	4.18		12	12		0.30	1.49	4.31	
750176		L	0.32	1.51	4.24		12	12		0.30	1.51	4.37	
x	height of compression zone												
wk	crack width before increase of reinforcement												
as1	reinforcement 1. layer before increase of reinforcement												
as2	reinforcement 2. layer before increase of reinforcement												
as3	reinforcement 3. layer before increase of reinforcement												
d1	reinforcement diameter layer 1-3												
wk+	crack width after increase of reinforcement - interim -> ECHO REIN EXTR												
as1+	reinforcement after increase of reinforcement layer 1-3												
	Calculation of crack width according to EN 1992-1-1 7.3.4 (first element):												
	kt= 0.40 k1= 0.80 k2= 0.50 k3= variable k4= 0.425												
	Elements with maximum values are printed												

Model OPL geometry
Sls check, decks

Design Code

EuroNorm Bridges: EN 1992-2:2005, EN 1993-2:2006, EN 1994-2:2005 (Europe) V 2023
Design according to EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures
Loadcases have been calculated in the Serviceability State
The SLS checks are performed using the layer design method (iteration of strain state).

Load Cases for the Design

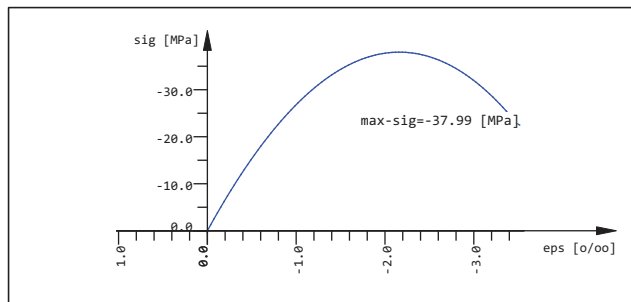
Loadcase	factor	Designation
1110	1.000	MAXR-MXX QUAD LL
1111	1.000	MINR-MXX QUAD LL
1112	1.000	MAXR-MYY QUAD LL
1113	1.000	MINR-MYY QUAD LL
1114	1.000	MAXR-MXY QUAD LL
1115	1.000	MINR-MXY QUAD LL
1116	1.000	MAXR-NXX QUAD LL
1117	1.000	MINR-NXX QUAD LL
1118	1.000	MAXR-NYY QUAD LL
1119	1.000	MINR-NYY QUAD LL
1120	1.000	MAXR-NXY QUAD LL
1121	1.000	MINR-NXY QUAD LL
1122	1.000	MAXR-VY QUAD LL
1123	1.000	MINR-VY QUAD LL
1124	1.000	MAXR-VX QUAD LL
1125	1.000	MINR-VX QUAD LL
1136	1.000	MAXR-MXX QUAD W
1137	1.000	MINR-MXX QUAD W
1138	1.000	MAXR-MYY QUAD W
1139	1.000	MINR-MYY QUAD W
1140	1.000	MAXR-MXY QUAD W
1141	1.000	MINR-MXY QUAD W
1142	1.000	MAXR-NXX QUAD W
1143	1.000	MINR-NXX QUAD W
1144	1.000	MAXR-NYY QUAD W
1145	1.000	MINR-NYY QUAD W
1146	1.000	MAXR-NXY QUAD W
1147	1.000	MINR-NXY QUAD W
1148	1.000	MAXR-VY QUAD W
1149	1.000	MINR-VY QUAD W
1150	1.000	MAXR-VX QUAD W
1151	1.000	MINR-VX QUAD W
1162	1.000	MAXR-MXX QUAD WU
1163	1.000	MINR-MXX QUAD WU
1164	1.000	MAXR-MYY QUAD WU
1165	1.000	MINR-MYY QUAD WU
1166	1.000	MAXR-MXY QUAD WU
1167	1.000	MINR-MXY QUAD WU
1168	1.000	MAXR-NXX QUAD WU
1169	1.000	MINR-NXX QUAD WU
1170	1.000	MAXR-NYY QUAD WU
1171	1.000	MINR-NYY QUAD WU
1172	1.000	MAXR-NXY QUAD WU
1173	1.000	MINR-NXY QUAD WU
1174	1.000	MAXR-VY QUAD WU
1175	1.000	MINR-VY QUAD WU
1176	1.000	MAXR-VX QUAD WU
1177	1.000	MINR-VX QUAD WU

Model OPL geometry
Sls check, decks

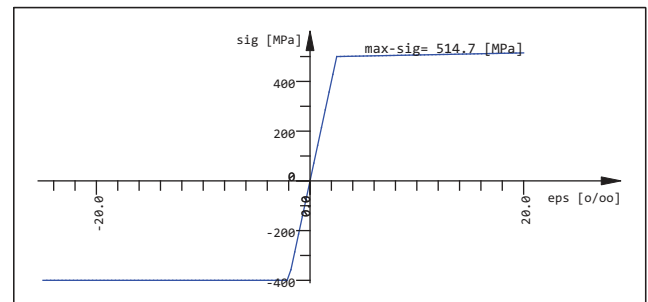
Material (EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures)

MAT	fck [MPa]	fc [MPa]	fctm [MPa]	fy [MPa]	ft [MPa]	eps,ud [o/oo]	minT	Type
1	30.00	25.50	2.90				0.00	
2				500.00	514.74	20.0		

MAT	material number	ft	tensile stress reinforcing steel
fck	nominal strength of the concrete	eps,ud	maximum strain - limited to max. 0.9*50 o/oo
fc	strength of the concrete	minT	minimum transverse reinforcement
fctm	tensile strength of the concrete	Type	character of the loading
fy	yield stress reinforcing steel		



Used work law Mno: 1 (first concrete)



Used work law Mno: 2 (first steel)

Reinforcementparameter two layer reinforcement

Selection Grp elem no. no.	distance		bar-diameter		crackwidth		steelstress		min.reinf.	
	d1-u 2.lay d1-l 2.lay [mm] [mm]		ds-u 2.lay ds-l 2.lay [mm] [mm]		wk-u 2.lay wk-l 2.lay [mm] [mm]		sigsu 2.lay sigsl 2.lay [MPa] [MPa]		asu 2.lay asl 2.lay [cm2/m] [cm2/m]	
default	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
10	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
15	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
20	70.0 100.0		28 28		0.30 0.30		- -		- -	
	70.0 100.0		28 28		0.30 0.30		- -		- -	
25	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
30	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
35	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
40	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
45	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
50	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
55	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
60	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
65	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
70	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	
75	70.0 100.0		12 12		0.30 0.30		- -		- -	
	70.0 100.0		12 12		0.30 0.30		- -		- -	

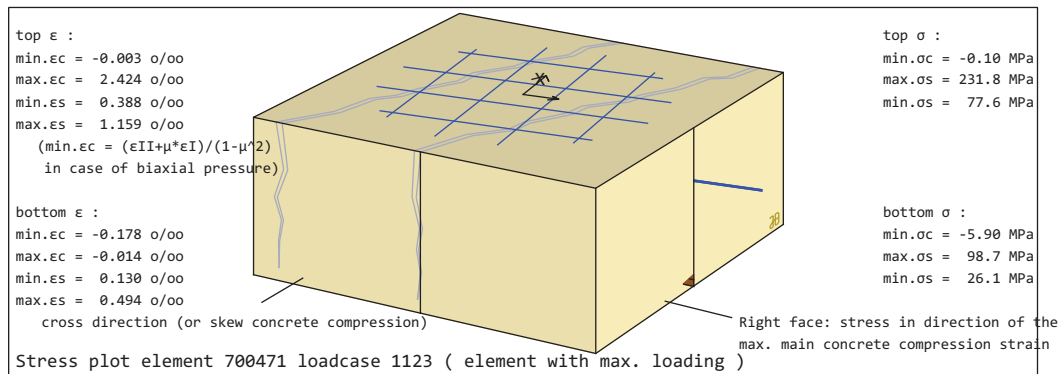
Model OPL geometry Sls check, decks

distance	upper / lower distance center of bar to surface
bar-diameter	upper / lower bar diameter
crackwidth	upper / lower required crack width
steelstress	upper / lower maximum steel stress in SLS check
min.reinf.	upper / lower minimum reinforcement

The reinforcement directions relate to the local coordinate system of the elements and have to be plotted graphically.
With the input of a steel stress sigsu... the 'crack design according tables' uses this given stress sigsu for the corresponding layer. With this input, the check can be done for bar distances instead of bar diameters, see legend SLS control parameters.
The reinforcement is saved in the data base as reinforcement distribution number 1

Serviceability limit state control parameters

No	Code	sigS	sigT	CHKC	CHKR
1	EN-1992	-	-	0.60	0.80
Reinforcement has been increased by SLS design -> WINGRAF: Decisive design check✓					
sigS	Stress range for reinforcement in [MPa]				
sigT	Stress range for link reinforcement in [MPa]				
CHKC	Control of the concrete compressive stress:factor on fck or [MPa]				
CHKR	Control of the steel stress: factor on fyk or [MPa]				



Required Reinforcement EuroNorm Bridges: EN 1992-2:2005 Design of concrete structures

Grp	Element	t [m]	asu [cm2/m]	asu2 [cm2/m]	asu3 [cm2/m]	asl [cm2/m]	asl2 [cm2/m]	asl3 [cm2/m]	supp [-]	shear [-]	ass [cm2/m2]
0	702601	0.300				2.78	1.93				
	702674	0.300		0.55		1.80	5.30				
	750168	0.300	0.08	5.03							
	750779	0.300	2.68	1.19							
Grp	primary group number					asu3	Third reinforcements				
Element	element number					asl	Principal reinforcements (1st layer) Bottom				
t	plate thickness					asl2	Cross reinforcements (2nd layer) Bottom				
asu	Principal reinforcements (1st layer) Top					asl3	Third reinforcements Bottom				
asu2	Cross reinforcements (2nd layer) Top										
supp	reduction factor for the shear force near supports, punc=point in punching zone -> punching shear design										
shear	shear zone: 1=0k, punc=punching area, 1s=asu/l increased for shear, 1d=for punching, 2=required ass, 2m=minimum shear reinf., 3=										
ass	in a SLS design no shear design is done										
	Elements with maximum values are printed										

Steel stress, concrete pressure, stress range

	stress range on top			stress range bottom			links	concre	steel-l	steel-s
E=ELEM	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
N=NODE	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]
E 700068	-	-	-	174.86	393.02	-	-	-4.15	393.01	-
E 700471	-	88.66	-	-	-	-	-	-6.06	238.85	-
E 702612	-	209.93	-	127.16	-	-	-	-4.32	398.22	-
E 750501	-	-	-	168.00	207.02	-	-	-8.46	309.72	-
E 750892	398.94	-	-	-	97.08	-	-	-2.40	399.22	-

Model OPL geometry
Sls check, decks

Steel stress, concrete pressure, stress range

E=ELEM N=NODE	stress range on top			stress range bottom			links	concre	steel-l	steel-s
	asu	asu2	asu3	asl	asl2	asl3	Ass	sig-max	sig-max	sig-max
	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	[MPa]	
E 750921	-	-	-	396.75	234.46	-	-	-4.14	396.66	-
E 751502	-	-	-	296.90	245.83	-	-	-3.57	398.47	-
E 751706	375.61	383.52	-	-	201.74	-	-	-2.10	383.04	-
Maximum	398.94	383.52	-	396.75	393.02	-	-	-8.46	399.22	-
stress range on top longitudinal reinforcement links stress range in shear reinforcements concre maximum concrete compression (# greater that allowed) steel-l maximum stress in longitudinal reinforcement steel-s maximum stress in the shear reinforcement Elements with maximum values are printed										

The concrete stresses were checked - they are inside the allowable limits.
 The steel stresses were checked - they are inside the allowable limits.
 links are also checked to CHKR but not printed.



Free area load (force) in global Z (Unit=22.86 kN/m2,Min=-2.50 Max=2.50