

**Kucián statika s.r.o.**

**17. listopadu 236, 530 02 PARDUBICE**

**Kraj Vysočina**

**Krajská správa a údržba silnic Vysočiny, příspěvková organizace**

**Projektová dokumentace**

**III/38714 Skorotice – most ev. č. 38714-4**

## **Statický výpočet**

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ZODPOVĚDNÝ PROJEKTANT	Ing. Jaromír Kucián

## 1. Úvod

### 1.1. Úvodní popis

Předmětem statického výpočtu je posouzení nově navržené konstrukce mostu ev. č. 38714-4. Výpočet je součástí dokumentace na akci " III/38714 Skorotice – most ev. č. 38714-4".

Rozpětí mostu:	5 m
Volná šířka komunikace na mostě:	5,26 m

### 1.2. Popis konstrukce

Konstrukce nového mostu je navržena na plošných základech o půdorysných rozměrech 2350\*7200 mm a výšce 450 mm.

Výšková úroveň základové spáry je v projektové dokumentaci navržena na úroveň +411,450 m.n.m. Bpv. Konečnou výškovou polohu základové spáry bude nutné upravit po zjištění stavu po demolici stávající mostní konstrukce. Projekt předpokládá umístění základové spáry pod základovým prahem na stejné úrovni, jako je základová spára stávajícího mostu. Po demolici stávajícího mostu bude nutné zkontrolovat stav a výškovou úroveň základové spáry a podle zjištěného stavu případně upravit návrh délky pilot a dříky opěry. Návrh musí být schválen autorem této dokumentace nebo autorizovanou osobou pro Mosty a inženýrské konstrukce. Opěry jsou navrženy v podobě relativně tenkých (500mm) dříků s monolitickou železobetonovou konstrukcí. Proti sobě zde vystupují požadavky na svislou a ohybovou únosnost s optimálním návrhem plochy výztuže a požadavek na minimální plochu průřezu plynoucí z dominantního zatížení teplotou. Dříky opěr jsou spojeny s deskou mostovky rámovým rohem. Konečná délka dříku se může mírně upravit na základě stavu založení popsaném v kapitole 4.2.3. TZ. Hlavním vodorovným nosným prvkem je monolitická, železobetonová deska mostovky. Tvar desky je patrný z výkresu tvaru nosné konstrukce. Jakost použitého betonu je uvedena na výkresech. Deska je navržena v mírném podélném sklonu, který odpovídá podélnému sklonu komunikace na mostě. Na dřík je deska napojena monolitickým rámovým rohem. Tloušťka desky je 400 mm. Povrch desky by měl být strojně zahrazen tak, aby kvalitativně drsností a rovinností povrchu odpovídal požadavkům pro kladení izolace proti vodě.

Deska mostovky bude betonována do bednění. Podepření bednění musí být provedeno tak, aby mohla pod mostem mohla protékat voda potoka. Odbednění je možné až po splnění následujících podmínek: 1) Nabytí pevnosti v tlaku betonu min. 70% návrhové hodnoty. 2) min. 7 dní po betonáži desky mostovky. Během provádění je třeba klást zvýšený důraz na dokonalé ztuhnutí betonu v místě rámového rohu ve spojení s dříky opěr. Ošetření betonu mostovky během betonáže a po jejím dokončení musí respektovat klimatické podmínky a normová ustanovení.

### 1.3. Použitá literatura

- [1] ČSN EN 1990, Změna A1 Zásady navrhování konstrukcí, Změna A1. Příloha A2: Použití pro mosty
- [2] ČSN EN 1991-1-1 Eurokód 1: Zatížení konstrukcí - Část 1-1: Obecná zatížení – Objemové tíhy, vlastní tíha a užitná zatížení pozemních staveb
- [3] ČSN EN 1991-1-4 Eurokód 1: Zatížení konstrukcí - Část 1-4: Obecná zatížení - Zatížení větrem
- [4] EN 1991-1-5-Eurokód 1: Zatížení konstrukcí -Část 1-5: Obecná zatížení Zatížení teplotou
- [5] ČSN EN 1991-2 Eurokód 1: Zatížení konstrukcí - Část 2: Zatížení mostů dopravou
- [6] ČSN EN 1992-1-1 Eurokód 2: Navrhování betonových konstrukcí - Část 1-1: Obecná pravidla a pravidla pro pozemní stavby
- [7] ČAMBULA, Jaroslav. *Navrhování mostních konstrukcí podle Eurokódů. Praha*
- [8] ČSN EN 1992-2 (736208) Eurokód 2: Navrhování betonových konstrukcí - Část 2: Betonové mosty - Navrhování a konstrukční zásady
- [9] Technické podmínky TP 261 - Integrované mosty

### 1.4. Použitý software

MICROSOFT OFFICE EXCEL tabulkový editor, Microsoft.  
Geo 5, verze 2019, FINE s.r.o.  
Dluba software, Dluba RFEM 5.22

## 2. Zatížení stálé

### 2.1. Vlastní tíha NK

Generováno automaticky programem Dlubal.

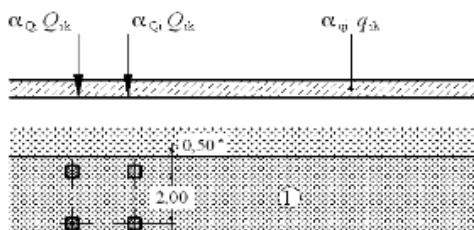
### 2.2. Ostatní stálé

Římsa	$0,27 \cdot 25 =$	6,75 kN/m
Zábradlí+svodidlo		1 kN/m
Vozovka	$0,15 \cdot 22 =$	3,3 kN/m <sup>2</sup>

## 3. Zatížení proměnné

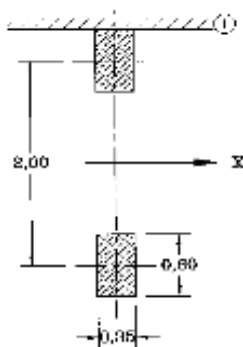
### 3.1. Model zatížení LM1

Šířka vozovky na mostě	$w =$	5,250 m
Počet zatěžovacích pruhů	$n_l =$	1
Šířka zatěžovacího pruhu	$w_l =$	3,000 m
Šířka zbývajících plochy		2,250 m



Umístění	Dvojnáprava ( = 2Q <sub>k</sub> )			Rovnoměrné zatížení		
	$\alpha_Q$	Q <sub>k</sub> [kN/1náp.]	$\alpha_Q Q_k$ [kN/1náp.]	$\alpha_q$	q <sub>k</sub> [kN.m <sup>-2</sup> ]	$\alpha_q q_k$ [kN.m <sup>-2</sup> ]
Pruh č.1	0,8	300,0	<b>240,0</b>	0,5	9,0	<b>4,1</b>
Pruh č. 2	0,8	200,0	<b>160,0</b>	1,6	2,5	<b>4,0</b>
Zbývajících plocha				1,6	2,5	<b>4,0</b>

### 3.2. Model zatížení LM2



Jednonápravová síla  $\beta_Q Q_{ak}$  v nejmémě příznivém místě na vozovce.

V případě potřeby lze uvažovat pouze jedno kolo působící silou  $200 \cdot \beta_Q$  kN.

$\beta_Q$	Q <sub>ak</sub> [kN]	$\beta_Q Q_{ak}$ [kN]
0,7	400,0	<b>260,0</b>

### 3.3. Vodorovné síly

#### Brzdné a rozjezdové

$$Q_{lk} = 0,6 \cdot \alpha_{Q1} (2 \cdot Q_{1k}) + 0,10 \cdot \alpha_{Q1} \cdot q_{1k} \cdot w_l \cdot L_{NK} = 288,8 \text{ kN}$$

$$\begin{array}{rclclcl} 180 \cdot \alpha_{Q1} & \leq & Q_{lk} & \leq & 900 & (\text{kN}) \\ 144 & \leq & 288,81 & \leq & 900 & \text{kN} \end{array}$$

Umístění: podélná síla působící v úrovni povrchu vozovky v ose kteréhokoliv zatěžovacího pruhu.  
Pokud nejsou účinky excentricity významné, lze předpokládat, že síla působí v ose vozovky a je rovnoměrně rozložena po zatěžovací délce.

vodorovné síly přenášené mostními závěry  
nebo působící na nosné prvky, které mohou být zatíženy pouze jednou nápravou

$$Q_{lk} = 0,6 \cdot \alpha_{Q1} \cdot Q_{1k} = 144 \text{ kN}$$

#### Odstředivé a jiné příčné síly

$$\begin{array}{rclcl} Q_{tk} = 0,2 \cdot Q_v & = & 0 \text{ kN} & r < 200 \text{ m} \\ Q_{tk} = 40 \cdot Q_v / r & = & 0 \text{ kN} & 200 \leq r < 1500 \text{ m} \\ Q_{tk} = 0 & = & 0 \text{ kN} & r > 1500 \text{ m} \end{array}$$

Celková max. tíha svislého soustředěného zatížení dvojnápravami LM1

$$Q_v = \sum \alpha_{Qi} \cdot (2 \cdot Q_{lk}) = 480 \text{ kN}$$

### 3.4. Zatížení větrem

Oblast zatížení větrem: III

Kategorie terénu : III

Základní rychlost větru:  $v_{b,o} = 27,5 \text{ m/s}$

Referenční výška:  $z_e = 4 \text{ m}$

Měrná hmotnost vzduchu:  $\rho = 1,25 \text{ kg/m}^3$

Charakteristický maximální dynamický tlak:

$$q_b = 0,5 \cdot \rho \cdot v_b^2 = 0,5 \cdot 1,25 \cdot 27,5^2 = 472,66 \text{ N/m}^2$$

#### Síly ve směru x

Celkový tlak větru:

$$\begin{array}{rclcl} W_{net} & = & q_b \cdot C \\ & & C = c_e \cdot c_{f,x} \\ & & c_e = 1,35 \\ & & c_{f,x} = 1,3 \\ \text{Součinitel zatížení větre } C & = & 1,755 \text{ (dle ČSN EN 1991-1-4} \\ & & \text{pro } b/d_{tot}=5) \end{array}$$

$$\begin{array}{rclcl} W_{net,x} & = & 472,66 \cdot 1,755 = 829,5 \text{ N/m}^2 \\ & & = 0,83 \text{ kN/m}^2 \end{array}$$

### 3.5. Zatížení teplotou

Maximální teplota vzduchu ve vestínu  $t_{max} = 40 \text{ }^\circ\text{C}$

Minimální teplota vzduchu ve vestínu	$t_{\min} =$	-32	°C
Součinitel teplotní roztažnosti:	$\alpha_T =$	0,000012	
Základní teplota	$t_0 =$	10	°C

#### **Rovnoměrná složka teploty - betonová konstrukce (typ 3.)**

Maximální mezní teplota konstrukce	$t_{e,\max} =$	40	°C	(obr. 6.1 ČSN EN 1991-1-5)
Minimální mezní teplota konstrukce	$t_{e,\min} =$	-25	°C	(obr. 6.1 ČSN EN 1991-1-5)

Maximální oteplení konstrukce:  $\Delta t^+ = t_{e,\max} - t_0$

$$\Delta t^+ = 40 - 10 = 30 \text{ °C}$$

Maximální ochlazení konstrukce:  $\Delta t^- = t_{e,\min} - t_0$

$$\Delta t^- = -25 - 10 = -35 \text{ °C}$$

#### **Rozdílové složky teploty - Typ 3**

Stanoveny pomocí ČSN-EN 1991-1-5 6.1.4.1 (postup 1)

Typ konstrukce: 3. typ

$k_{\text{sur}} = 0,7$  (Horní povrch teplejší než dolní)  $k_{\text{sur}} = 1$  (Dolní povrch teplejší než horní)

Horní povrch teplejší než dolní:

$$T_{M,\text{heat}} = 10,5 \text{ °C}$$

Dolní povrch teplejší než horní:

$$T_{M,\text{cool}} = 8 \text{ °C}$$

## **5. Zatížení od smršťování betonu**

$$\varepsilon_{cs} = \varepsilon_{cd} + \varepsilon_{ca}$$

kde je

- $\varepsilon_{cs}$  celkové poměrné smršťování;
- $\varepsilon_{cd}$  poměrné smršťování vysycháním;
- $\varepsilon_{ca}$  poměrné autogenní smršťování.

Vývoj poměrného smršťování vysycháním v čase vyplývá ze vztahu:

$$\varepsilon_{cd}(t) = \beta_{ds}(t, t_s) k_h \varepsilon_{cd,0}$$

$$\varepsilon_{cd,0} = 0,3 \text{ (dle tab. 3.2. ČSN EN 1992-1-1)}$$

$$k_h = 0,73 \text{ (dle tab. 3.3. ČSN EN 1992-1-1)}$$

koeficient  $k_h$  dle tab. 3.3. pro:

$$h_0 = 289,1566$$

$$A_c = 2400000 \text{ mm}^2$$

$$u = 16600 \text{ mm}$$

$$\beta_{ds}(t, t_s) = \frac{(t - t_s)}{(t - t_s) + 0,04 \sqrt{h_0^3}} \quad (3.10)$$

kde je

- $t$  stáří betonu v uvažovaném okamžiku, ve dnech;
- $t_s$  stáří betonu (dní) na začátku smršťování vysycháním (nebo nabýváním); obvykle je to na konci ošetřování betonu;
- $h_0$  náhradní rozměr průřezu  $= 2A_c/u$  [mm],  
kde  $A_c$  je průřezová plocha betonu a  $u$  je obvod částí průřezu vystavené vysychání.

Poměrné autogenní smršťování je dáno vztahem:

$$\varepsilon_{ca}(t) = \beta_{sa}(t) \varepsilon_{ca}(\infty) \quad (3.11)$$

kde je

$$\varepsilon_{ca}(\infty) = 2,5 (f_{ts} - 10) 10^{-6}; \quad (3.12)$$

$$\beta_{sa}(t) = 1 - \exp(-0,2t^{0,5}); \quad (3.13)$$

$t$  dáno ve dnech.

$$t = 36500 \text{ (25 let)}$$

$$t_s = 7$$

$$\beta(ds) = 0,9946394$$

$$\underline{\varepsilon(\text{cd,t})} = \underline{0,217826} \text{ promile} = 0,021783 \%$$

$$\varepsilon(\text{ca},8) = 0,0000375 \quad f_{ck} = 25 \text{ MPa}$$

$$\beta_{as(t)} = 1$$

$$\underline{\varepsilon(\text{ca,t})} = \underline{0,00375} \%$$

$$\underline{\varepsilon(\text{cs})} = \underline{0,0255326} \% \quad 0,000255$$

Napětí od smršťování

$$\underline{\sigma} = E \cdot \underline{\varepsilon} = 7,66 \text{ MPa}$$

$$E = 30000 \text{ MPa}$$



Project:

Model: Skorotice-Bridge

Date:

26.04.2021

Bridge

## STRUCTURAL ANALYSIS

PROJECT

**Skorotice**

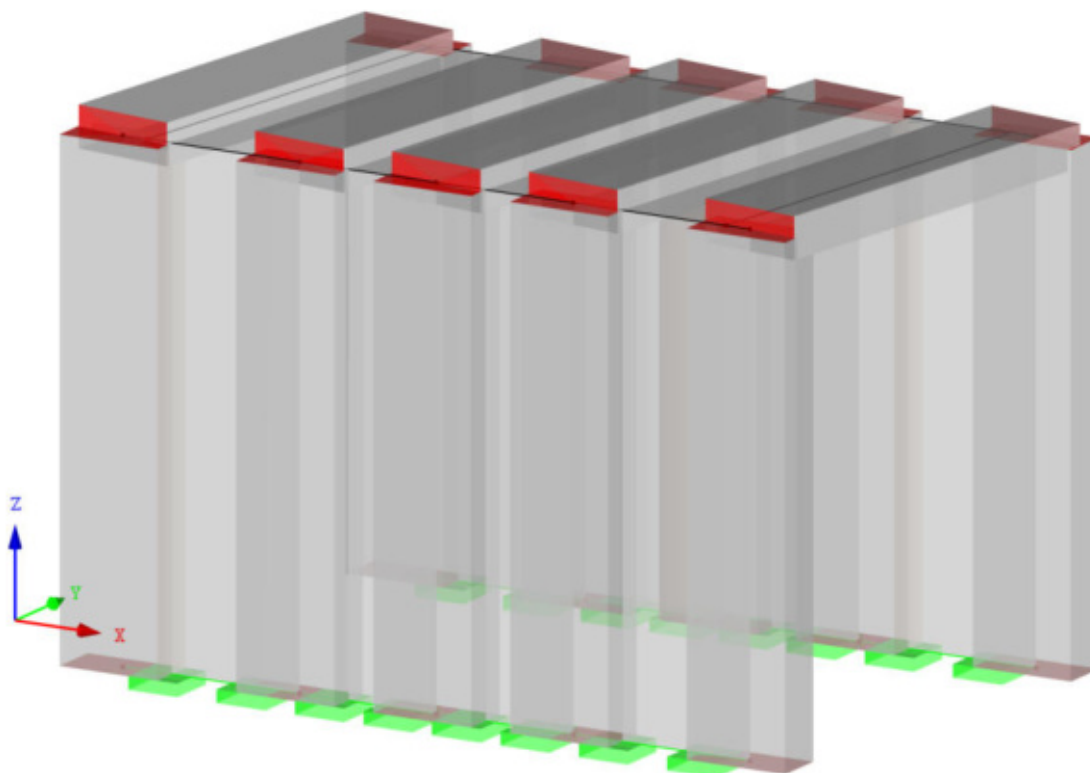
CLIENT

**KSUS Vysočina**

CREATED BY

**Kucián statika s.r.o.**

Isometric





Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

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transient - Eq. 6.10, Isometric

## 1.3 MATERIALS

Matl. No.	Modulus E [kN/cm <sup>2</sup> ]	Modulus G [kN/cm <sup>2</sup> ]	Poisson's Ratio $\nu$ [-]	Spec. Weight $\gamma$ [kN/m <sup>3</sup> ]	Coeff. of Th. Exp. $\alpha$ [1/°C]	Partial Factor $\gamma_M$ [-]	Material Model
1	Concrete C25/30 2670.00	DIN 1045-1:2008-08 1112.50	0.200	25.00	1.00E-05	1.00	Isotropic Linear Elastic
2	Concrete C30/37 2830.00	DIN 1045-1:2008-08 1179.17	0.200	25.00	1.00E-05	1.00	Isotropic Linear Elastic

## 1.4 SURFACES

Surface No.	Surface Type		Boundary Lines No.	Matl. No.	Thickness		Area A [m <sup>2</sup> ]	Weight W [kg]
	Geometry	Stiffness			Type	d [mm]		
2	Plane	Standard	25,17,1,16	2	Constant	500.0	6.766	8457.19
3	Plane	Standard	26,18,6,17	2	Constant	500.0	6.766	8457.19
4	Plane	Standard	27,19,41,8,18	2	Constant	500.0	8.730	10912.50
5	Plane	Standard	20,42,13,21,28	2	Constant	500.0	8.730	10912.50
6	Plane	Standard	21,12,22,29	2	Constant	500.0	6.766	8457.19
7	Plane	Standard	22,11,23,30	2	Constant	500.0	6.766	8457.19
9	Plane	Standard	9,41,8,7,13,42	2	Constant	400.0	7.200	7200.00
10	Plane	Standard	12,5-7	2	Constant	400.0	5.580	5580.00
11	Plane	Standard	11,4,1,5	2	Constant	400.0	5.580	5580.00
12	Plane	Standard	2,3,36,4,37,10	2	Constant	400.0	7.200	7200.00
13	Plane	Standard	31,23,37,10,24	2	Constant	500.0	8.730	10912.50
14	Plane	Standard	16,36,3,15,14	2	Constant	500.0	8.730	10912.50

## 1.4.2 SURFACES - INTEGRATED OBJECTS

Surface No.	Integrated Objects No.			Comment
	Nodes	Lines	Openings	
9		40		
12		35		

## 1.8 LINE SUPPORTS

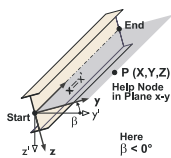
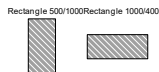
Support No.	Lines No.	Reference System	Rotation $\beta$ [°]	Wall in Z	Support Conditions					
					$u_x$	$u_y$	$u_z$	$\phi_x$	$\phi_y$	$\phi_z$
1	27-30	Global		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	14,25,26,31	Global		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## 1.13 CROSS-SECTIONS

Section No.	Matl. No.	J [cm <sup>4</sup> ]	$I_y$ [cm <sup>4</sup> ]	$I_z$ [cm <sup>4</sup> ]	Principal Axes $\alpha$ [°]	Rotation $\alpha'$ [°]	Overall Dimensions [mm]	
		A [cm <sup>2</sup> ]	$A_y$ [cm <sup>2</sup> ]	$A_z$ [cm <sup>2</sup> ]			Width b	Height h
1	Rectangle 500/1000	2860937.50 5000.00	4166666.75 4166.67	1041666.66 4166.67	0.00	0.00	500.0	1000.0
2	Rectangle 1000/400	1596869.25 4000.00	533333.38 3333.33	333333.20 3333.33	0.00	0.00	1000.0	400.0

## 1.17 MEMBERS

Mbr. No.	Line No.	Member	Rotation		Cross-Section		Hinge No.		Ecc. No.	Div. No.	Length L [m]	
			Type	$\beta$ [°]	Start	End	Start	End				
1	20	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
3	21	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
4	22	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
5	23	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
6	24	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
7	19	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
8	18	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
9	17	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
10	16	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
11	15	Result Beam	Angle	0.00	1	1	-	-	-	-	4.850	Z
12	7	Result Beam	Angle	0.00	2	2	-	-	-	-	4.045	XY
13	4	Result Beam	Angle	0.00	2	2	-	-	-	-	4.045	XY
14	2	Result Beam	Angle	0.00	2	2	-	-	-	-	4.045	XY
15	5	Result Beam	Angle	0.00	2	2	-	-	-	-	4.045	XY
16	9	Result Beam	Angle	0.00	2	2	-	-	-	-	4.045	XY





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## 1.17.5 RESULT BEAMS - PARAMETERS

Mr. No.	Parameters				
1	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
3	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
4	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
5	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
6	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
7	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
8	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
9	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
10	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
11	Integrate stresses and forces		Within cuboid - general	Y+ =	0.250 m
				Y- =	0.250 m
				Z+ =	0.500 m
				Z- =	0.500 m
	Include surfaces:	All			
	Exclude surfaces:	-			



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## 1.17.5 RESULT BEAMS - PARAMETERS

Mr. No.	Parameters				
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
12	Integrate stresses and forces		Within cuboid - general	Y+ = 0.500 m Y- = 0.500 m Z+ = 0.200 m Z- = 0.200 m	
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
13	Integrate stresses and forces		Within cuboid - general	Y+ = 0.500 m Y- = 0.500 m Z+ = 0.200 m Z- = 0.200 m	
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
14	Integrate stresses and forces		Within cuboid - general	Y+ = 0.500 m Y- = 0.500 m Z+ = 0.200 m Z- = 0.200 m	
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
15	Integrate stresses and forces		Within cuboid - general	Y+ = 0.500 m Y- = 0.500 m Z+ = 0.200 m Z- = 0.200 m	
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			
16	Integrate stresses and forces		Within cuboid - general	Y+ = 0.500 m Y- = 0.500 m Z+ = 0.200 m Z- = 0.200 m	
	Include surfaces:	All			
	Exclude surfaces:	-			
	Include solids:	All			
	Exclude solids:	-			
	Include members:	All			
	Exclude members:	-			

## 2.1 LOAD CASES

Load Case	Load Case Description	EN 1990 + EN 1991-2; Road Bridges   Action Category	Self-Weight - Factor in Direction			
			Active	X	Y	Z
LC1	Self-weight	Permanent	<input checked="" type="checkbox"/>	0.000	0.000	-1.000
LC2	Ledge+railings	Permanent	<input type="checkbox"/>			
LC3	Pavement	Permanent	<input type="checkbox"/>			
LC4	Ground pressure at rest	Permanent	<input type="checkbox"/>			
LC5	gr4 - LM4 - Crowd loading	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC6	warming of the structure	Temperature (non fire)	<input type="checkbox"/>			
LC7	cooling temperature	Temperature (non fire)	<input type="checkbox"/>			
LC8	Braking and starting forces 1	Permanent	<input type="checkbox"/>			
LC9	Braking and starting forces 2	Permanent	<input type="checkbox"/>			
LC10	Wind in +X	Wind loads - Fw''	<input type="checkbox"/>			
LC11	Wind in -X	Wind loads - Fw''	<input type="checkbox"/>			
LC12	Minimum soil pressure	Permanent	<input type="checkbox"/>			
LC13	Maximum soil pressure	Permanent	<input type="checkbox"/>			
LC14	Shrinkage	Uneven settlements	<input type="checkbox"/>			
LC15	Step 1/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC16	Step 2/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC17	Step 3/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC18	Step 4/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC19	Step 5/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC20	Step 6/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC21	Step 7/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC22	Step 8/10 Movement Sets 1 from RF-MOVE-Surfaces	gr1a - LM1 + pedestrian + cycle track	<input type="checkbox"/>			
LC23	Step 9/10 Movement Sets 1 from R	gr1a - LM1 + pedestrian + cycle t	<input type="checkbox"/>			



## LOADS

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### 2.1 LOAD CASES

Load Case	Load Case Description	EN 1990 + EN 1991-2; Road Bridges   Action Category	Self-Weight - Factor in Direction			
			Active	X	Y	Z
LC24	RF-MOVE-Surfaces Step 10/10 Movement Sets 1 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC25	RF-MOVE-Surfaces Step 1/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC26	RF-MOVE-Surfaces Step 2/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC27	RF-MOVE-Surfaces Step 3/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC28	RF-MOVE-Surfaces Step 4/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC29	RF-MOVE-Surfaces Step 5/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC30	RF-MOVE-Surfaces Step 6/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC31	RF-MOVE-Surfaces Step 7/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC32	RF-MOVE-Surfaces Step 8/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC33	RF-MOVE-Surfaces Step 9/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC34	RF-MOVE-Surfaces Step 10/10 Movement Sets 2 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC35	RF-MOVE-Surfaces Step 1/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC36	RF-MOVE-Surfaces Step 2/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC37	RF-MOVE-Surfaces Step 3/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC38	RF-MOVE-Surfaces Step 4/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC39	RF-MOVE-Surfaces Step 5/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC40	RF-MOVE-Surfaces Step 6/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC41	RF-MOVE-Surfaces Step 7/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC42	RF-MOVE-Surfaces Step 8/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC43	RF-MOVE-Surfaces Step 9/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC44	RF-MOVE-Surfaces Step 10/10 Movement Sets 3 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC45	RF-MOVE-Surfaces Step 1/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC46	RF-MOVE-Surfaces Step 2/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC47	RF-MOVE-Surfaces Step 3/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC48	RF-MOVE-Surfaces Step 4/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC49	RF-MOVE-Surfaces Step 5/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC50	RF-MOVE-Surfaces Step 6/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC51	RF-MOVE-Surfaces Step 7/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC52	RF-MOVE-Surfaces Step 8/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC53	RF-MOVE-Surfaces Step 9/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			
LC54	RF-MOVE-Surfaces Step 10/10 Movement Sets 4 from RF-MOVE-Surfaces	track gr1a – LM1 + pedestrian + cycle	<input type="checkbox"/>			

#### 2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters	
LC1	Self-weight	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for GJ, EI <sub>y</sub> , EI <sub>z</sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )	
LC2	Ledge+railings	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for GJ, EI <sub>y</sub> , EI <sub>z</sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )	
LC3	Pavement	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for GJ, EI <sub>y</sub> , EI <sub>z</sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )	
LC4	Ground pressure at rest	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> ) <input checked="" type="checkbox"/> Members (factor for GJ, EI <sub>y</sub> , EI <sub>z</sub> , EA, GA <sub>y</sub> , GA <sub>z</sub> )	
LC5	gr4 - LM4 - Crowd loading	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: <input checked="" type="checkbox"/> Cross-sections (factor for J, I <sub>y</sub> , I <sub>z</sub> , A, A <sub>y</sub> , A <sub>z</sub> )	



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## 2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters
		: <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC6	warming of the structure	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC7	cooling temperature	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC8	Braking and starting forces 1	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC9	Braking and starting forces 2	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC10	Wind in +X	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC11	Wind in -X	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC12	Minimum soil pressure	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC13	Maximum soil pressure	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC14	Shrinkage	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson Activate stiffness factors of: : <input checked="" type="checkbox"/> Cross-sections (factor for J, $I_y$ , $I_z$ , A, $A_y$ , $A_z$ ) : <input checked="" type="checkbox"/> Members (factor for GJ, $EI_y$ , $EI_z$ , EA, $GA_y$ , $GA_z$ )
LC15	Step 1/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC16	Step 2/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC17	Step 3/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC18	Step 4/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC19	Step 5/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC20	Step 6/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC21	Step 7/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC22	Step 8/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC23	Step 9/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC24	Step 10/10 Movement Sets 1 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC25	Step 1/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC26	Step 2/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis



Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

## 2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC27	Step 3/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC28	Step 4/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC29	Step 5/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC30	Step 6/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC31	Step 7/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC32	Step 8/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC33	Step 9/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC34	Step 10/10 Movement Sets 2 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC35	Step 1/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC36	Step 2/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC37	Step 3/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC38	Step 4/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC39	Step 5/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC40	Step 6/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC41	Step 7/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC42	Step 8/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC43	Step 9/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC44	Step 10/10 Movement Sets 3 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC45	Step 1/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC46	Step 2/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC47	Step 3/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC48	Step 4/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC49	Step 5/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis
		Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson



Project: Model: Skorotice-Bridge  
Bridge Date: 26.04.2021

## 2.1.1 LOAD CASES - CALCULATION PARAMETERS

Load Case	Load Case Description	Calculation Parameters
LC50	Step 6/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC51	Step 7/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC52	Step 8/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC53	Step 9/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson
LC54	Step 10/10 Movement Sets 4 from RF-MOVE-Surfaces	Method of analysis : <input checked="" type="checkbox"/> Geometrically linear analysis Method for solving system of nonlinear algebraic equations : <input checked="" type="checkbox"/> Newton-Raphson

## 2.7 RESULT COMBINATIONS

Result Combin	Description	Loading
RC1	Permanent	LC1/p + LC2/p + LC3/p + LC4/p + LC8/p + LC9/p + LC12/p + LC13/p
RC2	Temperature	LC6 + LC7
RC3	Wind - Fw''	LC10 + LC11
RC4	Uneven Settlements	LC14
RC5	gr1a, characteristic value	LC5 or LC15 or to LC54
RC6	gr1a, combination value	0.75*LC5 or 0.75*LC15 or to LC54
RC7		1.35*RC1/p + 0.9*RC2 + 1.35*RC4/p + 1.35*RC5/p
RC8		1.35*RC1/p + 1.5*RC2/p + 1.35*RC4/p + 1.35*RC6
RC9		1.35*RC1/p + 1.5*RC3 + 1.35*RC4/p + 1.35*RC5/p
RC10	gr1a, characteristic value	LC5 or LC15 or to LC54
RC11	gr1a, combination value	0.75*LC5 or 0.75*LC15 or to LC54
RC12		RC1/p + 0.6*RC2 + RC4/p + RC10/p
RC13		RC1/p + RC2/p + RC4/p + RC11
RC14		RC1/p + RC3 + RC4/p + RC10/p
RC15	gr1a, frequent value	0.75*LC5 or 0.75*LC15 or to LC54
RC16	gr1a, quasi-permanent value	0*LC5 or 0*LC15 or to LC54
RC17		RC1/p + 0.5*RC2 + RC4/p + RC15/p
RC18		RC1/p + 0.6*RC2/p + RC4/p + RC16
RC19		RC1/p + 0*RC3 + RC4/p + RC15/p
RC20	gr1a, quasi-permanent value	0*LC5 or 0*LC15 or to LC54
RC21		RC1/p + 0.5*RC2 + RC4/p + RC20
RC22		RC1/p + 0*RC3 + RC4/p + RC20
RC23	ULS (STR/GEO) - Permanent / transient - Eq. 6.10	RC7/p or to RC9
RC24	SLS - Characteristic	RC12/p or to RC14
RC25	SLS - Frequent	RC17/p or to RC19
RC26	SLS - Quasi-permanent	RC21/p or RC22/p

LC2  
Ledge+railings

## 3.3 LINE LOADS

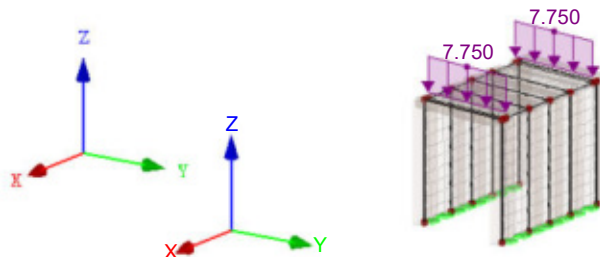
LC2: Ledge+railings

No.	Reference to	On Lines No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters Value	Unit
1	Lines	35,40	Force	Uniform	ZL	p	-7.750	kN/m

## LC2: LEDGE+RAILINGS

LC2 : Ledge+railings  
Loads [kN/m]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

LC3  
Pavement

### 3.10 FREE POLYGON LOADS

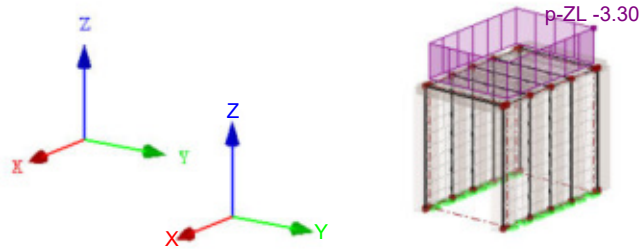
LC3: Pavement

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Symbol	Value	Unit	Load Position		
								X [m]	Y [m]	Z [m]
1		XY	Uniform	ZL	p	-3.30	kN/m <sup>2</sup>	-11.405	8.910	4.580
					p	-3.30	kN/m <sup>2</sup>	-5.515	8.910	4.580
					p	-3.30	kN/m <sup>2</sup>	-6.119	4.910	4.580
					p	-3.30	kN/m <sup>2</sup>	-12.009	4.910	4.580

### LC3: PAVEMENT

LC3 : Pavement  
Loads [kN/m<sup>2</sup>]

Isometric



LC4  
Ground pressure at rest

### 3.8 FREE RECTANGULAR LOADS

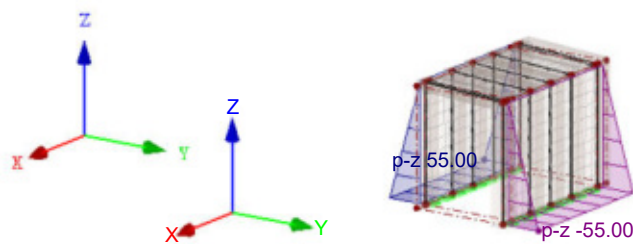
LC4: Ground pressure at rest

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Symbol	Magnitude Value	Unit	Load Position		
								X [m]	Y [m]	Z [m]
1		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-5.265		4.580
					p <sub>2</sub>	-55.00	kN/m <sup>2</sup>	-11.655		-0.270
2		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-12.259		4.580
					p <sub>2</sub>	55.00	kN/m <sup>2</sup>	-5.869		-0.270

### LC4: GROUND PRESSURE AT REST

LC4 : Ground pressure at rest  
Loads [kN/m<sup>2</sup>]

Isometric



LC5  
gr4 - LM4 - Crowd loading

### 3.10 FREE POLYGON LOADS

LC5: gr4 - LM4 - Crowd loading

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Symbol	Value	Unit	Load Position		
								X [m]	Y [m]	Z [m]
1		XY	Uniform	ZL	p	-4.00	kN/m <sup>2</sup>	-12.009	4.910	4.580
					p	-4.00	kN/m <sup>2</sup>	-11.405	8.910	4.580
					p	-4.00	kN/m <sup>2</sup>	-5.515	8.910	4.580
					p	-4.00	kN/m <sup>2</sup>	-6.119	4.910	4.580





Project:

Model: Skorotice-Bridge

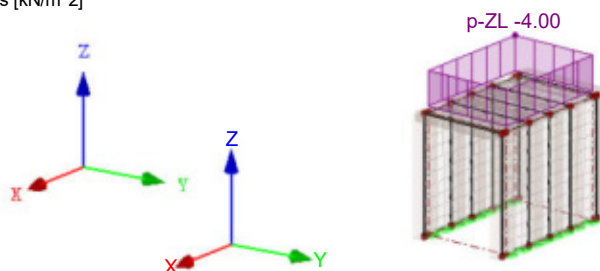
Date: 26.04.2021

Bridge

## LC5: GR4 - LM4 - CROWD LOADING

LC5 : gr4 - LM4 - Crowd loading  
Loads [kN/m<sup>2</sup>]

Isometric



LC6  
warming of the structure

## 3.4 SURFACE LOADS

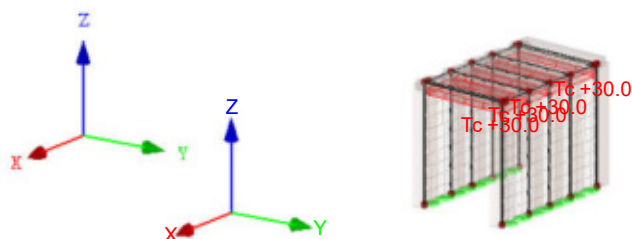
LC6: warming of the structure

No.	On Surfaces No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
1	9-12	Temperature	Uniform		$T_c$ $\Delta T$	Value	Unit
						30.0	°C
						0.0	°C

## LC6: WARMING OF THE STRUCTURE

LC6 : warming of the structure  
Loads [°C]

Isometric



LC7  
cooling temperature

## 3.4 SURFACE LOADS

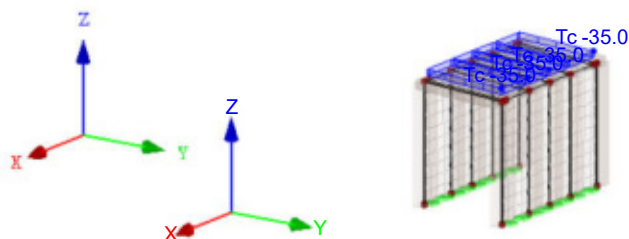
LC7: cooling temperature

No.	On Surfaces No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
1	9-12	Temperature	Uniform		$T_c$ $\Delta T$	Value	Unit
						-35.0	°C
						0.0	°C

## LC7: COOLING TEMPERATURE

LC7 : cooling temperature  
Loads [°C]

Isometric





Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

**LC8**  
Braking and starting  
forces 1

### 3.3 LINE LOADS

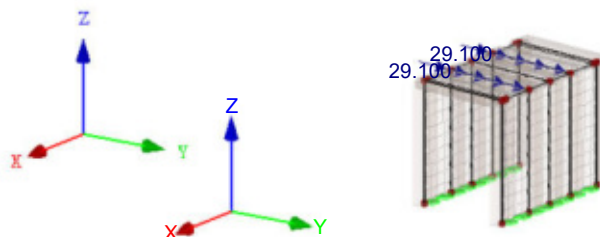
LC8: Braking and starting forces 1

No.	Reference to Lines	On Lines No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
							Value	Unit
1	Lines	4,7	Force	Uniform	x	p	29.100	kN/m

### LC8: BRAKING AND STARTING FORCES 1

LC8 : Braking and starting forces 1  
Loads [kN/m]

Isometric



**LC9**  
Braking and starting  
forces 2

### 3.3 LINE LOADS

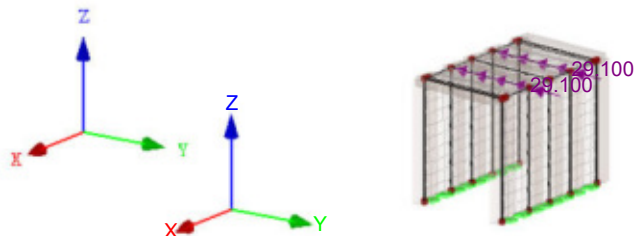
LC9: Braking and starting forces 2

No.	Reference to Lines	On Lines No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
							Value	Unit
1	Lines	4,7	Force	Uniform	x	p	-29.100	kN/m

### LC9: BRAKING AND STARTING FORCES 2

LC9 : Braking and starting forces 2  
Loads [kN/m]

Isometric



**LC10**  
Wind in +X

### 3.3 LINE LOADS

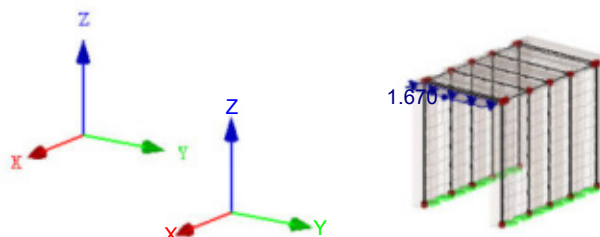
LC10: Wind in +X

No.	Reference to Lines	On Lines No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
							Value	Unit
1	Lines	9	Force	Uniform	y	p	1.670	kN/m

### LC10: WIND IN +X

LC10 : Wind in +x  
Loads [kN/m]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

LC11  
Wind in -X

### 3.3 LINE LOADS

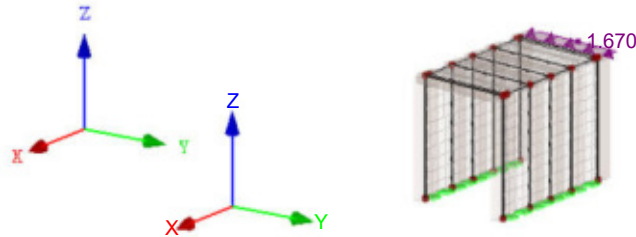
LC11: Wind in -X

No.	Reference to	On Lines No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters	
							Value	Unit
2	Lines	2	Force	Uniform	y	p	-1.670	kN/m

### LC11: WIND IN -X

LC11 : Wind in -x  
Loads [kN/m]

Isometric



LC12  
Minimum soil pressure

### 3.8 FREE RECTANGULAR LOADS

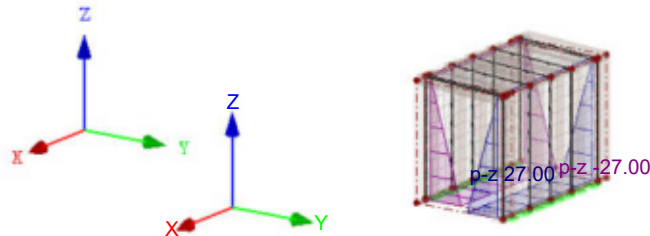
LC12: Minimum soil pressure

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Symbol	Magnitude		Load Position		
						Value	Unit	X [m]	Y [m]	Z [m]
1		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-11.655		4.580
					p <sub>2</sub>	27.00	kN/m <sup>2</sup>	-5.265		-0.270
2		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-12.259		4.580
					p <sub>2</sub>	-27.00	kN/m <sup>2</sup>	-5.869		-0.270

### LC12: MINIMUM SOIL PRESSURE

LC12 : Minimum soil pressure  
Loads [kN/m<sup>2</sup>]

Isometric



LC13  
Maximum soil pressure

### 3.8 FREE RECTANGULAR LOADS

LC13: Maximum soil pressure

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Symbol	Magnitude		Load Position		
						Value	Unit	X [m]	Y [m]	Z [m]
1		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-5.265		4.580
					p <sub>2</sub>	-40.00	kN/m <sup>2</sup>	-11.655		-0.270
2		XZ	Linear Z	z	p <sub>1</sub>	0.00	kN/m <sup>2</sup>	-12.259		4.580
					p <sub>2</sub>	40.00	kN/m <sup>2</sup>	-5.869		-0.270



Project:

Model: Skorotice-Bridge

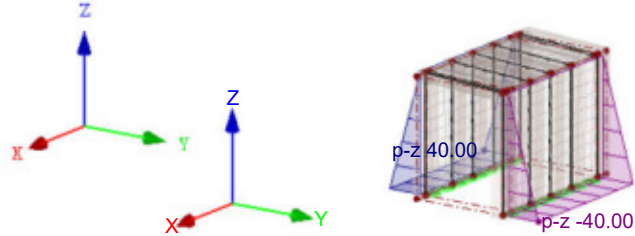
Date: 26.04.2021

Bridge

### LC13: MAXIMUM SOIL PRESSURE

LC13 : Maximum soil pressure  
Loads [kN/m<sup>2</sup>]

Isometric



LC14  
Shrinkage

### 3.4 SURFACE LOADS

LC14: Shrinkage

No.	On Surfaces No.	Load Type	Load Distribution	Load Direction	Symbol	Load Parameters Value	Unit
1	9-12	Axial Strain	Uniform		$\epsilon_1$	-0.00005	-

### LC14: SHRINKAGE

LC14 : Shrinkage  
Loads [-]

Isometric



LC15  
Step 1/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

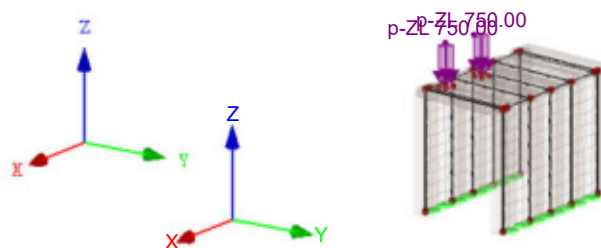
LC15

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.796	5.485	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.400	5.425	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.340	5.821	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.736	5.880	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.818	5.186	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.423	5.126	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.363	5.522	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.758	5.581	0.000

### LC15: STEP 1/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC15 : Step 1/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC16

Step 2/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

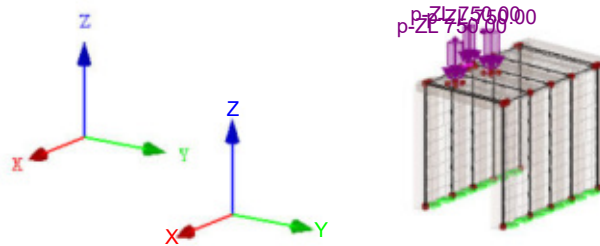
LC16

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.721	5.979	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.326	5.919	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.266	6.315	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.661	6.375	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.744	5.680	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.348	5.621	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.288	6.016	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.684	6.076	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.900	4.793	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.505	4.733	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.445	5.128	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.841	5.188	0.000

### LC16: STEP 2/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC16 : Step 2/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC17

Step 3/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

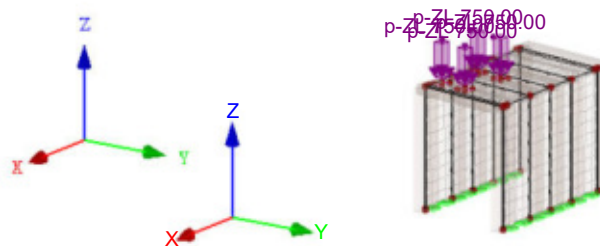
LC17

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.646	6.474	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.251	6.414	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.191	6.809	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.587	6.869	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.669	6.175	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.273	6.115	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.214	6.510	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.609	6.570	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.826	5.287	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.430	5.227	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.370	5.623	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.766	5.683	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.848	4.988	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.453	4.928	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.393	5.324	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.788	5.384	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.788	5.384	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.788	5.384	0.000

### LC17: STEP 3/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC17 : Step 3/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC18

Step 4/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

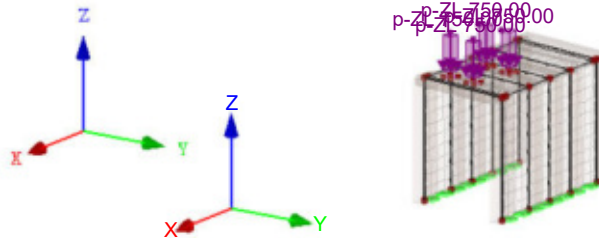
LC18

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.572	6.968	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.176	6.908	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.116	7.304	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.512	7.363	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.594	6.669	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.199	6.609	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.139	7.005	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.534	7.065	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.751	5.781	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.355	5.722	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.296	6.117	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.691	6.177	0.000
	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.773	5.483	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.378	5.423	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.318	5.818	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.714	5.878	0.000

### LC18: STEP 4/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC18 : Step 4/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC19

Step 5/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

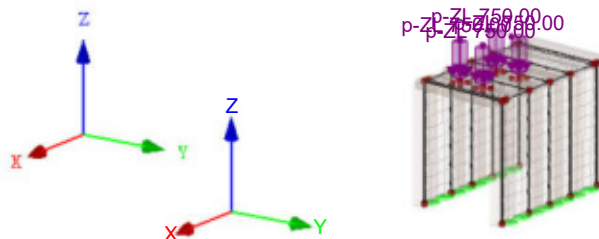
LC19

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.497	7.462	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.101	7.403	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.042	7.798	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.437	7.858	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.519	7.164	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.124	7.104	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.064	7.499	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.460	7.559	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.676	6.276	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.281	6.216	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.221	6.612	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.616	6.671	0.000
	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.699	5.977	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.303	5.917	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.243	6.313	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.639	6.373	0.000

### LC19: STEP 5/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC19 : Step 5/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC20

Step 6/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

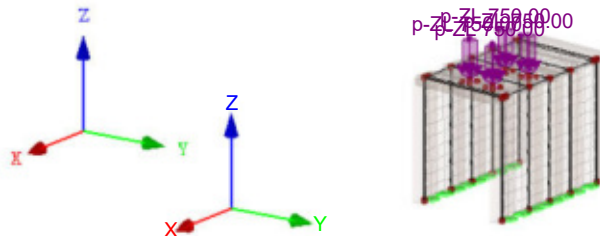
LC20

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.422	7.957	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.027	7.897	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.967	8.292	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.362	8.352	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.445	7.658	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.049	7.598	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-5.989	7.994	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.385	8.053	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.602	6.770	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.206	6.710	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.146	7.106	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.542	7.166	0.000
	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.624	6.471	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.228	6.412	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.169	6.807	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.564	6.867	0.000

### LC20: STEP 6/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC20 : Step 6/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC21

Step 7/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

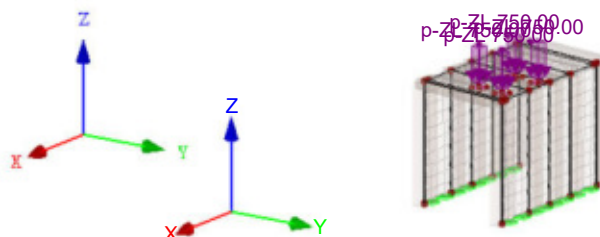
LC21

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.347	8.451	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.952	8.391	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.892	8.787	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.288	8.847	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.370	8.152	0.000
					p	-750.00	kN/m <sup>2</sup>	-5.974	8.093	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-5.915	8.488	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.310	8.548	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.527	7.265	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.131	7.205	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.072	7.600	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.467	7.660	0.000
	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.549	6.966	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.154	6.906	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.094	7.302	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.489	7.361	0.000

### LC21: STEP 7/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC21 : Step 7/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC22

Step 8/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

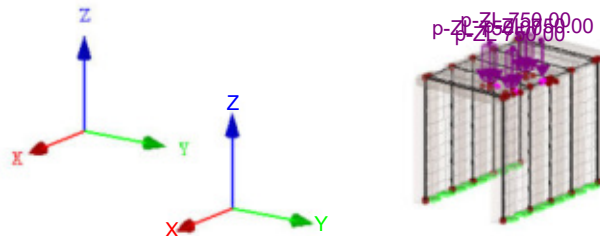
LC22

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.273	8.946	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.877	8.886	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.818	9.281	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.213	9.341	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.295	8.647	0.000
					p	-750.00	kN/m <sup>2</sup>	-5.900	8.587	0.000
3	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-5.840	8.982	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.235	9.042	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.452	7.759	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.057	7.699	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.997	8.095	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.392	8.155	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.475	7.460	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.079	7.400	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.019	7.796	0.000
4	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.415	7.856	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.415	7.856	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.415	7.856	0.000

### LC22: STEP 8/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC22 : Step 8/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC23

Step 9/10 Movement Sets 1  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

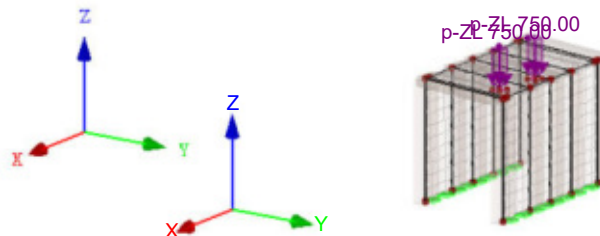
LC23

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.377	8.253	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.982	8.194	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.922	8.589	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.318	8.649	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.400	7.955	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.004	7.895	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-5.945	8.290	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.340	8.350	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.340	8.350	0.000

### LC23: STEP 9/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC23 : Step 9/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric







## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

LC24  
Step 10/10 Movement Sets  
1 from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC24

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-8.371	8.298	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.975	8.239	0.000
					p	-750.00	kN/m <sup>2</sup>	-7.915	8.634	0.000
					p	-750.00	kN/m <sup>2</sup>	-8.311	8.694	0.000
2	9-12	XY	Uniform	ZL	p	-750.00	kN/m <sup>2</sup>	-6.393	7.999	0.000
					p	-750.00	kN/m <sup>2</sup>	-5.998	7.940	0.000
					p	-750.00	kN/m <sup>2</sup>	-5.938	8.335	0.000
					p	-750.00	kN/m <sup>2</sup>	-6.333	8.395	0.000

### LC24: STEP 10/10 MOVEMENT SETS 1 FROM RF-MOVE-SURFACES

LC24 : Step 10/10 Movement Sets 1 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC25  
Step 1/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

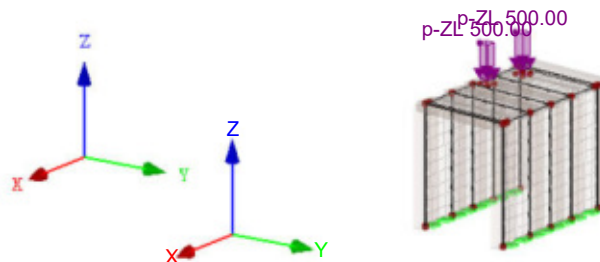
LC25

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.586	5.485	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.190	5.425	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.130	5.821	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.526	5.880	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.608	5.186	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.213	5.126	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.153	5.522	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.548	5.581	0.000

### LC25: STEP 1/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC25 : Step 1/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC26  
Step 2/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC26

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.511	5.979	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.116	5.919	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.056	6.315	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.451	6.375	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.534	5.680	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.138	5.621	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.078	6.016	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.474	6.076	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.690	4.793	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.295	4.733	0.000



## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### 3.10 FREE POLYGON LOADS

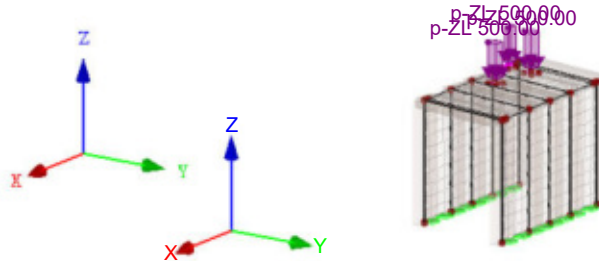
LC26

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
					p	-500.00	kN/m <sup>2</sup>	-11.235	5.128	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.631	5.188	0.000

### LC26: STEP 2/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC26 : Step 2/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC27

Step 3/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

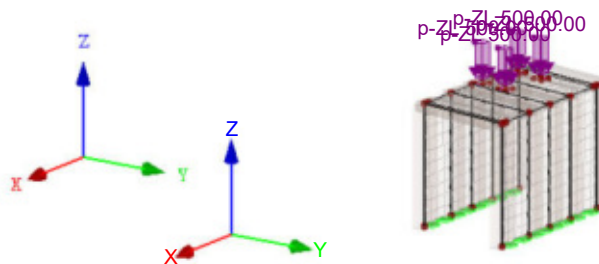
LC27

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.436	6.474	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.041	6.414	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.981	6.809	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.377	6.869	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.459	6.175	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.063	6.115	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.004	6.510	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.399	6.570	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.616	5.287	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.220	5.227	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.160	5.623	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.556	5.683	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.638	4.988	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.243	4.928	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.183	5.324	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.578	5.384	0.000

### LC27: STEP 3/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC27 : Step 3/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC28

Step 4/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC28

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.362	6.968	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.966	6.908	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.906	7.304	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.302	7.363	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.384	6.669	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.989	6.609	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.929	7.005	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.324	7.065	0.000



## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### 3.10 FREE POLYGON LOADS

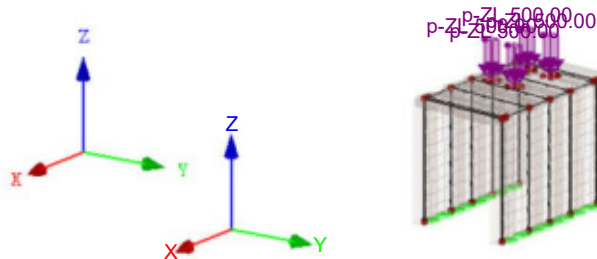
LC28

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.541	5.781	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.145	5.722	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.086	6.117	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.481	6.177	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.563	5.483	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.168	5.423	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.108	5.818	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.504	5.878	0.000

### LC28: STEP 4/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC28 : Step 4/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC29  
Step 5/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

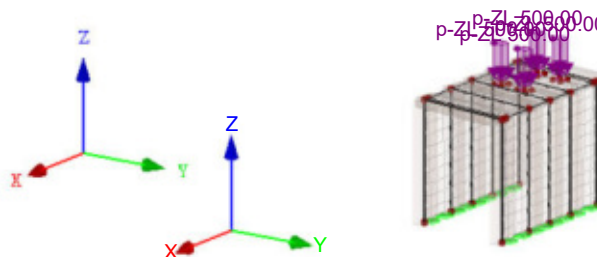
LC29

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.287	7.462	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.891	7.403	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.832	7.798	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.227	7.858	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.309	7.164	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.914	7.104	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.854	7.499	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.250	7.559	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.466	6.276	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.071	6.216	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.011	6.612	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.406	6.671	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.489	5.977	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.093	5.917	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.033	6.313	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.429	6.373	0.000

### LC29: STEP 5/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC29 : Step 5/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC30

Step 6/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

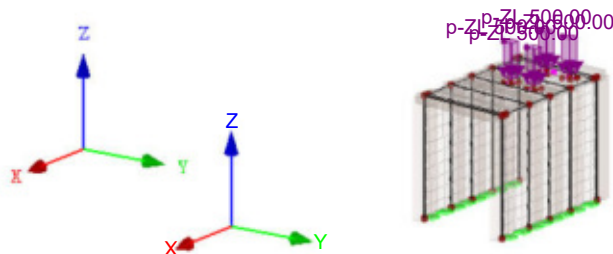
LC30

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.212	7.957	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.817	7.897	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.757	8.292	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.152	8.352	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.235	7.658	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.839	7.598	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-8.779	7.994	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.175	8.053	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.392	6.770	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-10.996	6.710	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.936	7.106	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.332	7.166	0.000
	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.414	6.471	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.018	6.412	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.959	6.807	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.354	6.867	0.000

### LC30: STEP 6/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC30 : Step 6/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC31

Step 7/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

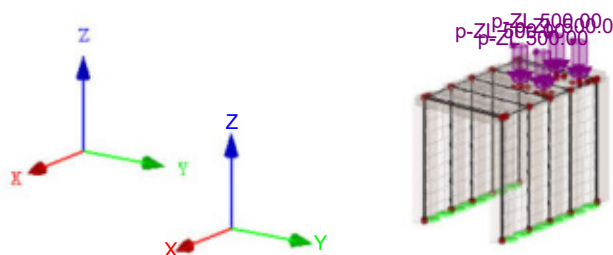
LC31

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.137	8.451	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.742	8.391	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.682	8.787	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.078	8.847	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.160	8.152	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.764	8.093	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-8.705	8.488	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.100	8.548	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.317	7.265	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-10.921	7.205	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.862	7.600	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.257	7.660	0.000
	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.339	6.966	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.944	6.906	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.884	7.302	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.279	7.361	0.000

### LC31: STEP 7/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC31 : Step 7/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC32

Step 8/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

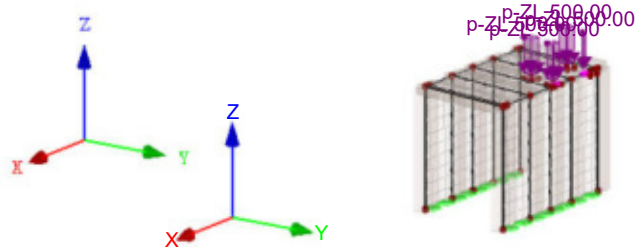
LC32

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.063	8.946	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.667	8.886	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.608	9.281	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.003	9.341	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.085	8.647	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.690	8.587	0.000
3	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-8.630	8.982	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.025	9.042	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.242	7.759	0.000
4	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-10.847	7.699	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.787	8.095	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.182	8.155	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.265	7.460	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.869	7.400	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.809	7.796	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.205	7.856	0.000
					p	-500.00	kN/m <sup>2</sup>			
					p	-500.00	kN/m <sup>2</sup>			

### LC32: STEP 8/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC32 : Step 8/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



### LC33

Step 9/10 Movement Sets 2  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

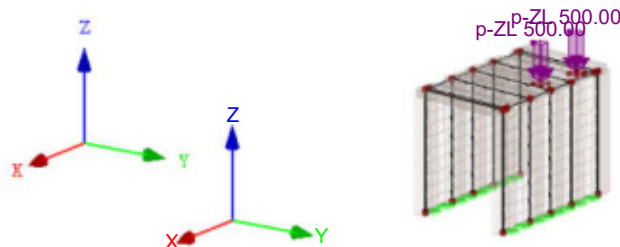
LC33

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.167	8.253	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.772	8.194	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.712	8.589	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.108	8.649	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.190	7.955	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.794	7.895	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.735	8.290	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.130	8.350	0.000
					p	-500.00	kN/m <sup>2</sup>			

### LC33: STEP 9/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC33 : Step 9/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric





## LOADS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

LC34  
Step 10/10 Movement Sets  
2 from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

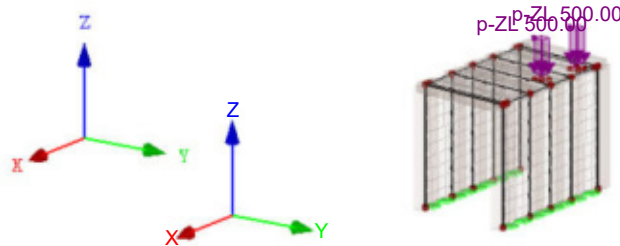
LC34

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-11.161	8.298	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.765	8.239	0.000
					p	-500.00	kN/m <sup>2</sup>	-10.705	8.634	0.000
					p	-500.00	kN/m <sup>2</sup>	-11.101	8.694	0.000
2	9-12	XY	Uniform	ZL	p	-500.00	kN/m <sup>2</sup>	-9.183	7.999	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.788	7.940	0.000
					p	-500.00	kN/m <sup>2</sup>	-8.728	8.335	0.000
					p	-500.00	kN/m <sup>2</sup>	-9.123	8.395	0.000

### LC34: STEP 10/10 MOVEMENT SETS 2 FROM RF-MOVE-SURFACES

LC34 : Step 10/10 Movement Sets 2 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC35  
Step 1/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

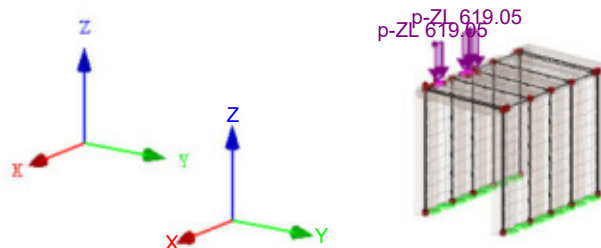
LC35

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.981	4.931	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.387	4.842	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.335	5.188	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.928	5.277	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-7.003	4.632	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.410	4.543	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.357	4.889	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.951	4.978	0.000

### LC35: STEP 1/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC35 : Step 1/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC36  
Step 2/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC36

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.906	5.426	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.313	5.336	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.260	5.682	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.854	5.772	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.928	5.127	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.335	5.037	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.283	5.383	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.876	5.473	0.000



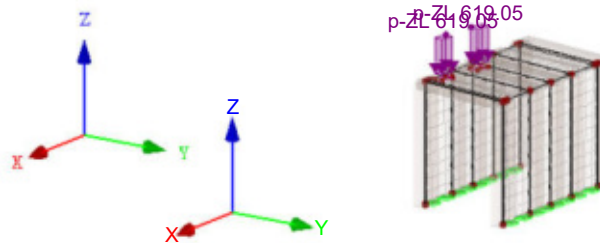
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC36: STEP 2/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC36 : Step 2/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC37  
Step 3/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

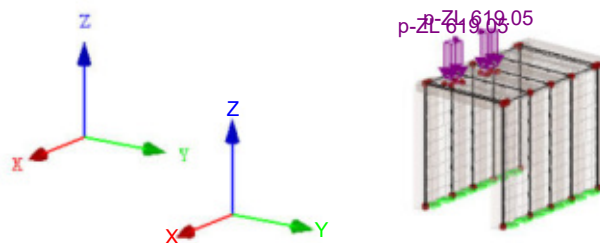
LC37

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.831	5.920	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.238	5.830	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.186	6.176	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.779	6.266	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.854	5.621	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.260	5.531	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.208	5.878	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.801	5.967	0.000

### LC37: STEP 3/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC37 : Step 3/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC38  
Step 4/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC38

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.756	6.414	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.163	6.325	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.111	6.671	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.704	6.760	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.779	6.116	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.186	6.026	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.133	6.372	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.727	6.462	0.000



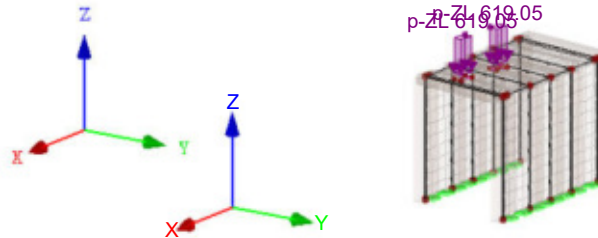
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC38: STEP 4/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC38 : Step 4/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC39  
Step 5/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

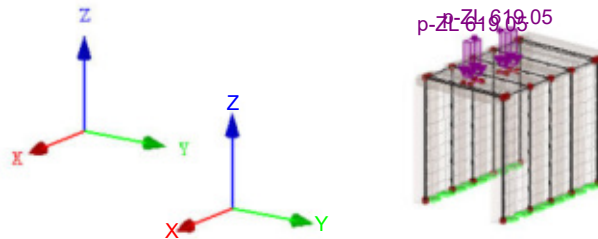
LC39

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.682	6.909	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.088	6.819	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.036	7.165	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.629	7.255	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.704	6.610	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.111	6.520	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.059	6.866	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.652	6.956	0.000

### LC39: STEP 5/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC39 : Step 5/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC40  
Step 6/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC40

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.607	7.403	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.014	7.313	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.961	7.660	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.555	7.749	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.629	7.104	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.036	7.015	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.984	7.361	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.577	7.450	0.000





## LOADS

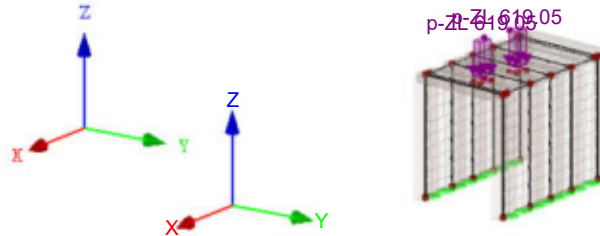
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC40: STEP 6/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC40 : Step 6/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC41  
Step 7/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

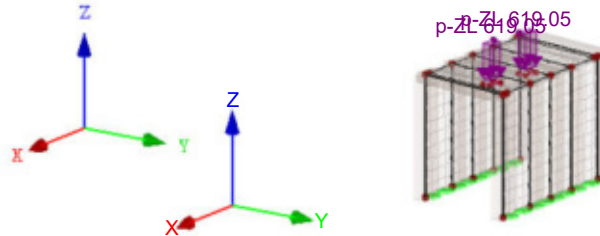
LC41

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.532	7.898	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.939	7.808	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.887	8.154	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.480	8.244	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.555	7.599	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.961	7.509	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.909	7.855	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.502	7.945	0.000

### LC41: STEP 7/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC41 : Step 7/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC42  
Step 8/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC42

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.458	8.392	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.864	8.302	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.812	8.648	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.405	8.738	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.480	8.093	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.887	8.003	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.834	8.349	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.428	8.439	0.000



## LOADS

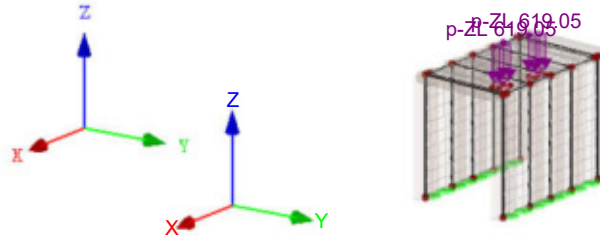
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC42: STEP 8/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC42 : Step 8/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC43  
Step 9/10 Movement Sets 3  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

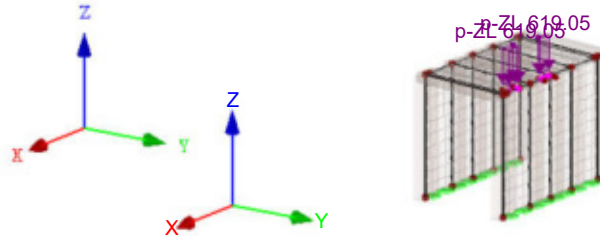
LC43

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.383	8.886	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.790	8.797	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.737	9.143	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.331	9.232	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.405	8.587	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.812	8.498	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.760	8.844	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.353	8.934	0.000

### LC43: STEP 9/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC43 : Step 9/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC44  
Step 10/10 Movement Sets  
3 from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC44

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-8.376	8.931	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.783	8.842	0.000
					p	-619.05	kN/m <sup>2</sup>	-7.731	9.188	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.324	9.277	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-6.399	8.632	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.805	8.543	0.000
					p	-619.05	kN/m <sup>2</sup>	-5.753	8.889	0.000
					p	-619.05	kN/m <sup>2</sup>	-6.346	8.978	0.000



## LOADS

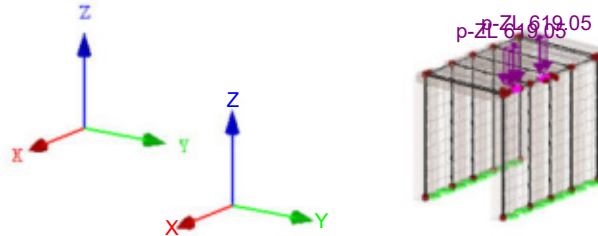
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC44: STEP 10/10 MOVEMENT SETS 3 FROM RF-MOVE-SURFACES

LC44 : Step 10/10 Movement Sets 3 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC45  
Step 1/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

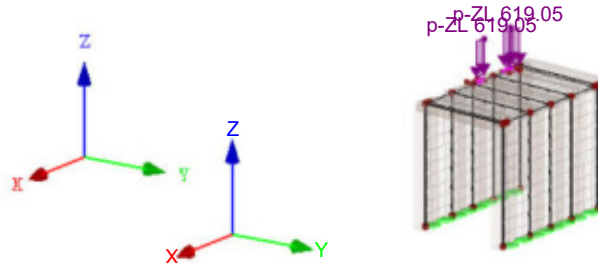
LC45

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.771	4.931	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.177	4.842	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.125	5.188	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.718	5.277	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.793	4.632	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.200	4.543	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.147	4.889	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.741	4.978	0.000

### LC45: STEP 1/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC45 : Step 1/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC46  
Step 2/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC46

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.696	5.426	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.103	5.336	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.050	5.682	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.644	5.772	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.718	5.127	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.125	5.037	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.073	5.383	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.666	5.473	0.000



## LOADS

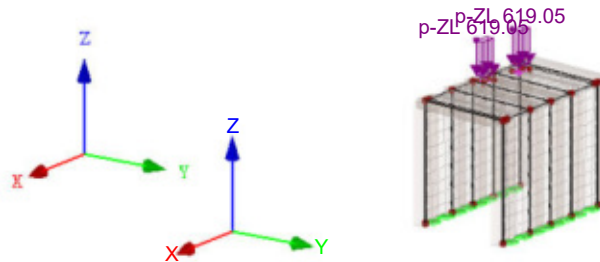
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC46: STEP 2/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC46 : Step 2/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC47  
Step 3/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

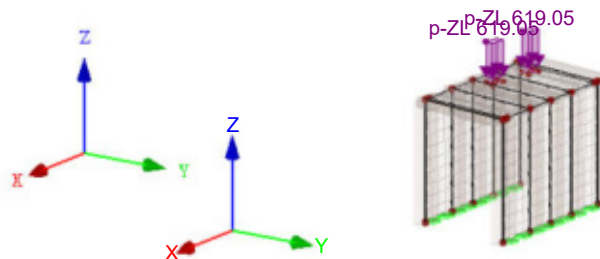
LC47

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.621	5.920	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.028	5.830	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.976	6.176	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.569	6.266	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.644	5.621	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.050	5.531	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.998	5.878	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.591	5.967	0.000

### LC47: STEP 3/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC47 : Step 3/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC48  
Step 4/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC48

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.546	6.414	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.953	6.325	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.901	6.671	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.494	6.760	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.569	6.116	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.976	6.026	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.923	6.372	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.517	6.462	0.000



## LOADS

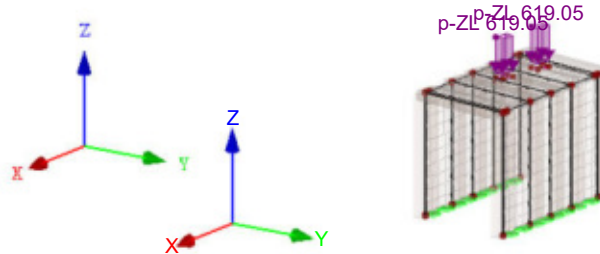
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC48: STEP 4/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC48 : Step 4/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC49  
Step 5/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

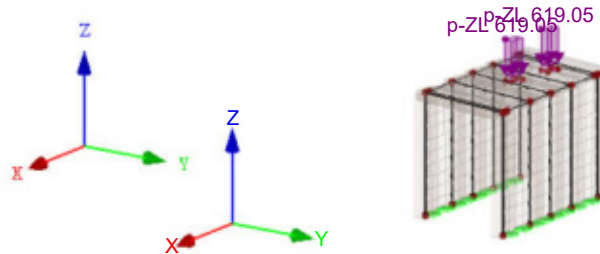
LC49

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.472	6.909	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.878	6.819	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.826	7.165	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.419	7.255	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.494	6.610	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.901	6.520	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.849	6.866	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.442	6.956	0.000

### LC49: STEP 5/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC49 : Step 5/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC50  
Step 6/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC50

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.397	7.403	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.804	7.313	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.751	7.660	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.345	7.749	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.419	7.104	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.826	7.015	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.774	7.361	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.367	7.450	0.000



## LOADS

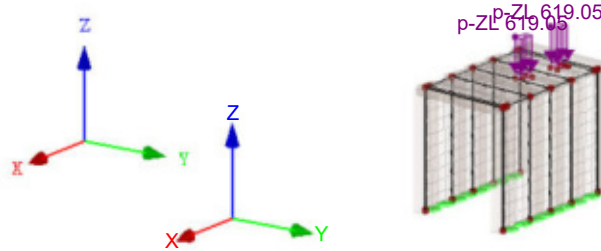
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC50: STEP 6/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC50 : Step 6/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC51  
Step 7/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

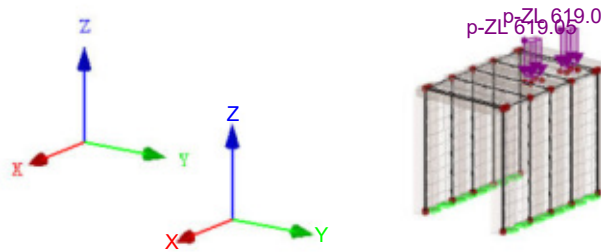
LC51

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.322	7.898	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.729	7.808	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.677	8.154	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.270	8.244	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.345	7.599	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.751	7.509	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.699	7.855	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.292	7.945	0.000

### LC51: STEP 7/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC51 : Step 7/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC52  
Step 8/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC52

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.248	8.392	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.654	8.302	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.602	8.648	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.195	8.738	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.270	8.093	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.677	8.003	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.624	8.349	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.218	8.439	0.000



## LOADS

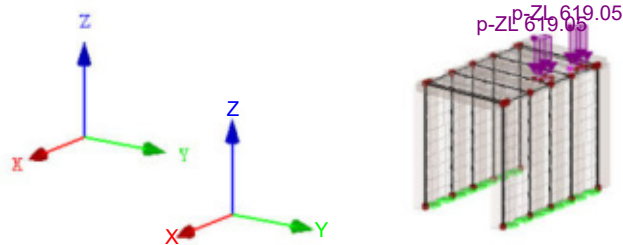
Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### LC52: STEP 8/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC52 : Step 8/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC53  
Step 9/10 Movement Sets 4  
from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

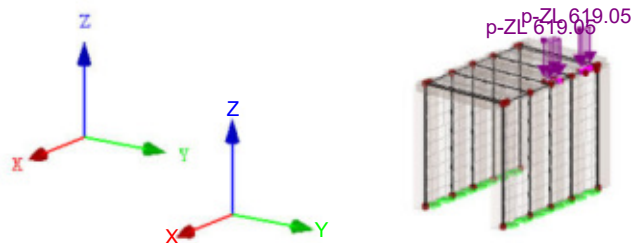
LC53

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.173	8.886	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.580	8.797	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.527	9.143	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.121	9.232	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.195	8.587	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.602	8.498	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.550	8.844	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.143	8.934	0.000

### LC53: STEP 9/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC53 : Step 9/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric



LC54  
Step 10/10 Movement Sets  
4 from RF-MOVE-Surfaces

### 3.10 FREE POLYGON LOADS

LC54

No.	On Surfaces No.	Project.	Load Distribution	Load Direction	Load Parameters			Load Position		
					Symbol	Value	Unit	X [m]	Y [m]	Z [m]
1	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-11.166	8.931	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.573	8.842	0.000
					p	-619.05	kN/m <sup>2</sup>	-10.521	9.188	0.000
					p	-619.05	kN/m <sup>2</sup>	-11.114	9.277	0.000
2	9-12	XY	Uniform	ZL	p	-619.05	kN/m <sup>2</sup>	-9.189	8.632	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.595	8.543	0.000
					p	-619.05	kN/m <sup>2</sup>	-8.543	8.889	0.000
					p	-619.05	kN/m <sup>2</sup>	-9.136	8.978	0.000



Project:

Model: Skorotice-Bridge

Date:

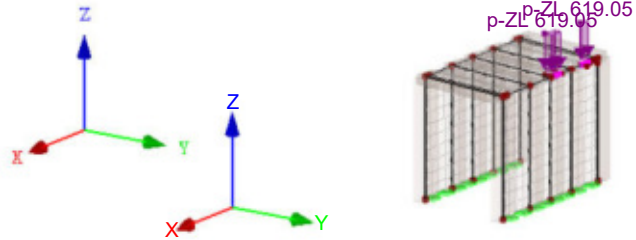
26.04.2021

Bridge

## ■ LC54: STEP 10/10 MOVEMENT SETS 4 FROM RF-MOVE-SURFACES

LC54 : Step 10/10 Movement Sets 4 from RF-MOVE-Surfaces  
Loads [kN/m<sup>2</sup>]

Isometric







## RESULTS

Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

### 4.0 RESULTS - SUMMARY

Summary				
Other Settings:				
Number of 1D finite elements	0			
Number of 2D finite elements	390			
Number of 3D finite elements	0			
Number of FE mesh nodes	431			
Number of equations	2586			
Max. number of iterations	100			
Number of divisions for member results	10			
Division of cable/foundation/tapered members	10			
Number of member divisions for searching maximum values	10			
Subdivisions of FE mesh for graphical results	3			
Percentage of iterations according to Picard method in combination with Newton-Raphson method	5	%		
Options:				
Activate shear stiffness of members (Ay, Az)	<input checked="" type="checkbox"/>			
Activate member divisions for large deformation or post-critical analysis	<input checked="" type="checkbox"/>			
Activate entered stiffness modifications	<input checked="" type="checkbox"/>			
Ignore rotational degrees of freedom	<input type="checkbox"/>			
Check of critical forces of members	<input checked="" type="checkbox"/>			
Nonsymmetric direct solver if demanded by nonlinear model	<input type="checkbox"/>			
Method for the system of equations	Direct			
Plate bending theory	Mindlin			
Solver version	64-bit			
Precision and Tolerance:				
Change default setting	<input type="checkbox"/>			

### 4.3 LINES - SUPPORT FORCES

Result Combinations

Line No.	RC	Node No.	Location x [m]	Support Forces [kN/m]			Support Moments [kNm/m]			
				Px	Py	Pz	mx	my	mz	
14	RC23	14	0.000	125.49	17.19	-109.41	53.42	4.10	-0.43	
			0.000	-202.78	-15.99	-264.10	-70.61	-2.41	-5.03	
			0.450	137.30	34.39	-44.33	51.40	3.20	-1.22	
			0.450	-224.56	-12.38	-305.32	-86.75	-2.63	-6.91	
			0.900	122.15	68.13	110.43	46.09	1.63	-2.93	
			0.900	-213.11	-0.23	-441.00	-108.13	-1.66	-8.88	
			1.350	71.25	135.21	199.05	34.48	1.99	-6.21	
			1.350	-152.30	42.50	-539.71	-132.29	-4.04	-8.71	
		13	1.800	-20.07	177.05	123.31	28.71	42.94	33.42	
			1.800	-130.93	95.07	-596.66	-144.12	-20.10	-3.28	
			Max p <sub>x</sub>	0.450	▷ 34.39	-44.33	51.40	3.20	-1.22	
			Min p <sub>x</sub>	0.450	▷ -224.56	-12.38	-305.32	-86.75	-2.63	-6.91
			Max p <sub>y</sub>	1.800	-20.07	▷ 177.05	123.31	28.71	42.94	33.42
			Min p <sub>y</sub>	0.000	-202.78	▷ -15.99	-264.10	-70.61	-2.41	-5.03
			Max p <sub>z</sub>	1.350	71.25	135.21	▷ 199.05	34.48	1.99	-6.21
			Min p <sub>z</sub>	1.800	-130.93	95.07	▷ -596.66	-144.12	-20.10	-3.28
			Max m <sub>x</sub>	0.000	125.49	17.19	▷ -109.41	▷ 53.42	4.10	-0.43
			Min m <sub>x</sub>	1.800	-130.93	95.07	▷ -596.66	▷ -144.12	-20.10	-3.28
			Max m <sub>y</sub>	1.800	-20.07	177.05	123.31	▷ 28.71	42.94	33.42
			Min m <sub>y</sub>	1.800	-130.93	95.07	-596.66	▷ -144.12	▷ -20.10	-3.28
			Max m <sub>z</sub>	1.800	-20.07	177.05	123.31	28.71	42.94	▷ 33.42
			Min m <sub>z</sub>	0.900	-213.11	-0.23	-441.00	-108.13	-1.66	▷ -8.88
25	RC23	14	0.000	125.49	17.19	-109.41	53.42	4.10	-0.43	
			0.000	-202.78	-15.99	-264.10	-70.61	-2.41	-5.03	
			0.465	92.09	8.16	2.91	54.56	3.04	-0.02	
			0.465	-153.66	-16.96	-396.24	-59.04	-2.39	-3.63	
			0.930	43.69	3.68	80.18	56.49	1.94	0.09	
			0.930	-85.37	-17.52	-482.88	-51.16	-1.53	-2.54	
		15	1.395	-0.19	1.80	112.64	58.47	0.78	0.05	
			1.395	-19.19	-19.12	-528.12	-46.14	-0.62	-1.74	
			Max p <sub>x</sub>	0.000	▷ 125.49	17.19	-109.41	53.42	4.10	-0.43
			Min p <sub>x</sub>	0.000	▷ -202.78	-15.99	-264.10	-70.61	-2.41	-5.03
			Max p <sub>y</sub>	0.000	125.49	▷ 17.19	-109.41	53.42	4.10	-0.43
			Min p <sub>y</sub>	1.395	-19.19	▷ -19.12	-528.12	-46.14	-0.62	-1.74
			Max p <sub>z</sub>	1.395	-0.19	1.80	▷ 112.64	58.47	0.78	0.05
			Min p <sub>z</sub>	1.395	-19.19	-19.12	▷ -528.12	-46.14	-0.62	-1.74
			Max m <sub>x</sub>	1.395	-0.19	1.80	▷ 112.64	▷ 58.47	0.78	0.05
			Min m <sub>x</sub>	0.000	-202.78	-15.99	▷ -264.10	▷ -70.61	-2.41	-5.03
			Max m <sub>y</sub>	0.000	125.49	17.19	-109.41	▷ 53.42	4.10	-0.43
			Min m <sub>y</sub>	0.000	-202.78	-15.99	-264.10	▷ -70.61	▷ -2.41	-5.03
			Max m <sub>z</sub>	0.930	43.69	3.68	80.18	56.49	1.94	▷ 0.09
			Min m <sub>z</sub>	0.000	-202.78	-15.99	-264.10	-70.61	-2.41	▷ -5.03
26	RC23	15	0.000	-0.19	1.80	112.64	58.47	0.78	0.05	
			0.000	-19.19	-19.12	-528.12	-46.14	-0.62	-1.74	
			0.465	78.66	1.52	97.64	60.81	1.25	-0.01	
			0.465	-74.14	-21.09	-511.89	-43.32	-1.46	-1.26	
			0.930	149.07	2.43	37.92	63.71	2.12	0.21	
			0.930	-122.27	-23.33	-436.21	-42.20	-2.64	-1.22	
		16	1.395	200.94	4.46	-56.63	67.42	2.19	0.57	
			1.395	-155.78	-26.28	-313.54	-42.43	-3.82	-1.32	
			Max p <sub>x</sub>	1.395	▷ 200.94	4.46	-56.63	67.42	2.19	0.57
			Min p <sub>x</sub>	1.395	▷ -155.78	-26.28	-313.54	-42.43	-3.82	-1.32
			Max p <sub>y</sub>	1.395	200.94	▷ 4.46	-56.63	67.42	2.19	0.57
			Min p <sub>y</sub>	1.395	-155.78	▷ -26.28	-313.54	-42.43	-3.82	-1.32



RESULTS

Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

4.3 LINES - SUPPORT FORCES

Result Combinations

Line No.	RC	Node No.	Location x [m]	Support Forces [kN/m]			Support Moments [kNm/m]		
				$p_x$	$p_y$	$p_z$	$m_x$	$m_y$	$m_z$
26	RC23		0.000	-0.19	1.80	112.64	58.47	0.78	0.05
			0.000	-19.19	-19.12	-528.12	-46.14	-0.62	-1.74
			1.395	200.94	4.46	-56.63	67.42	2.19	0.57
			0.000	-19.19	-19.12	-528.12	-46.14	-0.62	-1.74
			1.395	200.94	4.46	-56.63	67.42	2.19	0.57
			1.395	-155.78	-26.28	-313.54	-42.43	-3.82	-1.32
			1.395	200.94	4.46	-56.63	67.42	2.19	0.57
			0.000	-19.19	-19.12	-528.12	-46.14	-0.62	-1.74
27	RC23	16	0.000	200.94	4.46	-56.63	67.42	2.19	0.57
			0.000	-155.78	-26.28	-313.54	-42.43	-3.82	-1.32
			0.450	225.32	7.67	-61.42	71.78	2.27	0.75
			0.450	-167.79	-31.09	-286.30	-43.92	-2.94	-1.57
			0.900	217.59	11.72	94.00	76.24	1.01	0.50
			0.900	-152.52	-38.28	-386.44	-45.42	-1.35	-1.39
			1.350	159.16	11.52	174.94	78.19	4.56	1.37
			1.350	-98.29	-43.09	-450.26	-44.69	-3.54	-1.67
		18	1.800	154.04	-4.75	89.38	79.24	18.35	17.33
			1.800	-43.48	-30.82	-439.85	-44.41	-35.45	-9.09
			0.450	225.32	7.67	-61.42	71.78	2.27	0.75
			0.450	-167.79	-31.09	-286.30	-43.92	-2.94	-1.57
			0.900	217.59	11.72	94.00	76.24	1.01	0.50
			0.900	-98.29	-43.09	-450.26	-44.69	-3.54	-1.67
			1.350	159.16	11.52	174.94	78.19	4.56	1.37
			1.350	-98.29	-43.09	-450.26	-44.69	-3.54	-1.67
		20	1.800	154.04	-4.75	89.38	79.24	18.35	17.33
			1.800	-43.48	-30.82	-439.85	-44.41	-35.45	-9.09
			0.900	154.04	-4.75	89.38	79.24	18.35	17.33
			0.900	-152.52	-38.28	-386.44	-45.42	-1.35	-1.39
			1.800	154.04	-4.75	89.38	79.24	18.35	17.33
			1.800	-43.48	-30.82	-439.85	-44.41	-35.45	-9.09
			1.800	154.04	-4.75	89.38	79.24	18.35	17.33
			1.800	-43.48	-30.82	-439.85	-44.41	-35.45	-9.09
28	RC23	19	0.000	143.03	-90.31	119.07	144.12	19.82	33.42
			0.000	20.10	-175.76	-647.93	-35.30	-45.77	-4.80
			0.450	156.17	-37.37	195.86	132.29	4.28	-6.13
			0.450	-71.25	-135.21	-578.85	-40.94	-1.86	-8.48
			0.900	216.14	4.58	110.07	108.13	1.81	-2.76
			0.900	-122.15	-68.13	-474.98	-52.29	-1.48	-8.73
			1.350	224.99	16.21	-44.33	86.75	2.77	-1.06
			1.350	-137.30	-34.39	-335.90	-57.20	-3.04	-6.78
		20	1.800	200.67	19.48	-109.41	70.61	2.48	-0.28
			1.800	-125.49	-17.19	-300.41	-58.84	-3.91	-4.89
			1.350	224.99	16.21	-44.33	86.75	2.77	-1.06
			1.350	-137.30	-34.39	-335.90	-57.20	-3.04	-6.78
			1.800	200.67	19.48	-109.41	70.61	2.48	-0.28
			1.800	20.10	-175.76	-647.93	-35.30	-45.77	-4.80
			0.450	156.17	-37.37	195.86	132.29	4.28	-6.13
			0.000	20.10	-175.76	-647.93	-35.30	-45.77	-4.80
		21	0.000	143.03	-90.31	119.07	144.12	19.82	33.42
			0.000	-125.49	-17.19	-300.41	-58.84	-3.91	-4.89
			0.000	143.03	-90.31	119.07	144.12	19.82	33.42
			0.000	20.10	-175.76	-647.93	-35.30	-45.77	-4.80
			0.000	143.03	-90.31	119.07	144.12	19.82	33.42
			0.000	-122.15	-68.13	-474.98	-52.29	-1.48	-8.73
			0.900	-122.15	-68.13	-474.98	-52.29	-1.48	-8.73
			0.900	-122.15	-68.13	-474.98	-52.29	-1.48	-8.73
29	RC23	20	0.000	200.67	19.48	-109.41	70.61	2.48	-0.28
			0.000	-125.49	-17.19	-300.41	-58.84	-3.91	-4.89
			0.465	151.60	20.20	2.91	59.04	2.53	0.12
			0.465	-92.09	-8.16	-420.76	-58.92	-2.87	-3.48
			0.930	83.47	20.47	80.18	51.16	1.68	0.24
			0.930	-43.69	-3.68	-504.34	-58.54	-1.77	-2.38
			1.395	17.59	20.09	112.64	46.14	0.83	0.21
			1.395	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
		21	0.000	200.67	19.48	-109.41	70.61	2.48	-0.28
			0.000	-125.49	-17.19	-300.41	-58.84	-3.91	-4.89
			0.930	83.47	20.47	80.18	51.16	1.68	0.24
			0.930	-43.69	-3.68	-504.34	-58.54	-1.77	-2.38
			1.395	17.59	20.09	112.64	46.14	0.83	0.21
			1.395	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
			0.000	200.67	19.48	-109.41	70.61	2.48	-0.28
			0.000	-125.49	-17.19	-300.41	-58.84	-3.91	-4.89
		22	0.000	17.59	20.09	112.64	46.14	0.83	0.21
			0.000	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
			0.465	72.96	19.53	97.65	43.32	1.63	0.20
			0.465	-79.87	-1.52	-491.06	-58.11	-1.08	-1.02
			0.930	121.44	19.77	37.92	42.20	2.81	0.42
			0.930	-150.67	-2.43	-409.28	-58.49	-1.95	-0.98
			1.395	155.40	22.58	-56.63	42.43	4.01	0.72
			1.395	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
30	RC23	21	1.395	155.40	22.58	-56.63	42.43	4.01	0.72
			1.395	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
			1.395	155.40	22.58	-56.63	42.43	4.01	0.72
			1.395	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
			0.000	17.59	20.09	112.64	46.14	0.83	0.21
			0.000	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
			0.000	17.59	20.09	112.64	46.14	0.83	0.21
			0.000	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
		22	0.000	17.59	20.09	112.64	46.14	0.83	0.21
			0.000	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
			1.395	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
			1.395	155.40	22.58	-56.63	42.43	4.01	0.72



## RESULTS

Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

### 4.3 LINES - SUPPORT FORCES

Result Combinations

Line No.	RC	Node No.	Location x [m]	Support Forces [kN/m]			Support Moments [kNm/m]		
				$p_x$	$p_y$	$p_z$	$m_x$	$m_y$	$m_z$
30	RC23	Min $m_y$	1.395	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
		Max $m_z$	1.395	155.40	22.58	-56.63	42.43	4.01	0.72
		Min $m_z$	0.000	-0.12	-1.80	-529.11	-58.20	-0.54	-1.57
31	RC23	22	0.000	155.40	22.58	-56.63	42.43	4.01	0.72
			0.000	-202.76	-4.46	-282.71	-61.61	-2.09	-1.12
			0.450	167.81	26.98	-61.42	43.97	3.10	0.89
			0.450	-227.19	-7.67	-239.96	-65.37	-2.10	-1.35
			0.900	152.49	33.39	94.00	45.49	1.50	0.65
			0.900	-216.47	-11.75	-347.56	-69.19	-0.83	-1.13
			1.350	98.29	37.25	174.94	44.77	3.66	1.60
			1.350	-155.59	-11.56	-405.80	-70.65	-4.32	-1.61
		23	1.800	43.48	23.65	89.38	44.50	32.24	15.56
			1.800	-141.22	3.54	-382.85	-71.46	-18.35	-9.11
		Max $p_x$	0.450	167.81	26.98	-61.42	43.97	3.10	0.89
		Min $p_x$	0.450	-227.19	-7.67	-239.96	-65.37	-2.10	-1.35
		Max $p_y$	1.350	98.29	37.25	174.94	44.77	3.66	1.60
		Min $p_y$	0.900	-216.47	-11.75	-347.56	-69.19	-0.83	-1.13
		Max $p_z$	1.350	98.29	37.25	174.94	44.77	3.66	1.60
		Min $p_z$	1.350	-155.59	-11.56	-405.80	-70.65	-4.32	-1.61
		Max $m_x$	0.900	152.49	33.39	94.00	45.49	1.50	0.65
		Min $m_x$	1.800	-141.22	3.54	-382.85	-71.46	-18.35	-9.11
		Max $m_y$	1.800	43.48	23.65	89.38	44.50	32.24	15.56
		Min $m_y$	1.800	-141.22	3.54	-382.85	-71.46	-18.35	-9.11
		Max $m_z$	1.800	43.48	23.65	89.38	44.50	32.24	15.56
		Min $m_z$	1.800	-141.22	3.54	-382.85	-71.46	-18.35	-9.11

### 4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

7.12 CROSS SECTIONS INTERNAL FORCES											Result Combination
Member No.	RC	Node No.	Location x [m]	Forces [kN]			Moments [kNm]			Corresponding Load Cases	
				N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>		
1	Section No. 1: Rectangle 500/1000										
	RC23	11	0.000	Max N	56.68	-65.92	-981.15	-42.36	-16.60	-26.16	LC 1-4,7-9, 12-14,29
				Min N	-129.91	81.01	751.55	25.27	-13.15	68.46	LC 1-4,6,8, 9,12,13,21
				Max V <sub>y</sub>	-112.13	81.99	760.86	26.20	-8.30	52.04	LC 1-4,6,8, 9,12,13,44
				Min V <sub>y</sub>	56.51	-65.99	-981.27	-42.39	-16.58	-26.63	LC 1-4,7-9, 12-14,50
				Max V <sub>z</sub>	-112.13	81.99	760.86	26.20	-8.30	52.04	LC 1-4,6,8, 9,12,13,44
				Min V <sub>z</sub>	19.73	-64.28	-984.05	-45.08	-27.20	-5.79	LC 1-4,7-9, 12-14,20
				Max M <sub>T</sub>	-86.09	79.77	752.90	27.77	-0.25	49.51	LC 1-4,6,8, 9,12,13,30
				Min M <sub>T</sub>	19.73	-64.28	-984.05	-45.08	-27.20	-5.79	LC 1-4,7-9, 12-14,20
				Max M <sub>y</sub>	-86.09	79.77	752.90	27.77	-0.25	49.51	LC 1-4,6,8, 9,12,13,30
				Min M <sub>y</sub>	-29.72	-35.23	-633.35	-31.31	-30.33	14.08	LC 1-4,7-9, 12-14,21
				Max M <sub>z</sub>	-122.94	81.46	750.08	25.04	-10.88	70.25	LC 1-4,6,8, 9,12,13,20
				Min M <sub>z</sub>	54.98	-65.53	-981.97	-42.68	-16.81	-26.93	LC 1-4,7-9, 12-14,52
3	RC23	9	0.000	Max N	3.60	13.88	830.34	-2.69	-2.17	40.43	LC 1-4,6,8, 9,12,13,54
				Min N	-162.35	26.86	-686.15	2.56	3.05	63.24	LC 1-4,7-9, 12-14,20
				Max V <sub>y</sub>	-90.64	34.75	504.83	-3.64	-1.19	87.70	LC 1-4,6,8, 9,12,13,19
				Min V <sub>y</sub>	-90.64	2.40	-1078.28	9.61	3.34	1.78	LC 1-4,7-9, 12-14,52
				Max V <sub>z</sub>	-65.69	29.53	833.84	-5.49	-1.84	81.34	LC 1-4,6,8, 9,12,13,20
				Min V <sub>z</sub>	-104.30	7.24	-1079.70	7.22	6.76	3.55	LC 1-4,7-9, 12-14,43
				Max M <sub>T</sub>	-93.73	3.94	-1077.99	10.32	3.12	5.40	LC 1-4,7-9, 12-14,30
				Min M <sub>T</sub>	-63.39	26.62	833.05	-6.04	-0.25	74.86	LC 1-4,6,8, 9,12,13,21
				Max M <sub>y</sub>	-104.30	7.24	-1079.70	7.22	6.76	3.55	LC 1-4,7-9, 12-14,43
				Min M <sub>y</sub>	-0.18	12.41	827.09	-1.04	-2.87	43.26	LC 1-4,6,8, 9,12,13,51
				Max M <sub>z</sub>	-104.51	32.78	506.36	-4.39	-0.69	88.14	LC 1-4,6,8, 9,12,13,20
				Min M <sub>z</sub>	-89.52	5.44	-1075.90	8.08	3.80	0.56	LC 1-4,7-9, 12-14
		20	4.850	Max N	-57.47	-13.21	103.83	-5.37	10.48	40.57	LC 1-4,7-9, 12-14,45
				Min N	-146.33	6.39	-32.13	1.01	38.81	-17.75	LC 1-4,6,8, 9,12,13,21
				Max V <sub>y</sub>	-120.31	9.00	-62.82	1.86	33.35	-28.84	LC 1-4,6,8, 9,12,13,19
				Min V <sub>y</sub>	-57.64	-13.23	103.81	-5.37	10.53	40.66	LC 1-4,7-9, 12-14
				Max V <sub>z</sub>	-102.85	-8.85	106.45	-4.12	22.05	34.76	LC 1-4,7-9, 12-14,21
	Min V <sub>z</sub>			-112.04	3.67	-65.28	0.40	31.32	-20.68	LC 1-4,6,8,9	



RESULTS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases	
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>		
3	RC23				Max M <sub>T</sub>	-120.31	9.00	▷ -62.82	1.86	33.35	-28.84	9,12,13,44 LC 1-4,6,8, 9,12,13,19
					Min M <sub>T</sub>	-57.47	-13.21	103.83	▷ -5.37	10.48	40.57	LC 1-4,7-9, 12-14,45
					Max M <sub>y</sub>	-146.33	6.39	-32.13	1.01	▷ 38.81	-17.75	LC 1-4,6,8, 9,12,13,21
					Min M <sub>y</sub>	-57.47	-13.21	103.83	-5.37	▷ 10.48	40.57	LC 1-4,7-9, 12-14,45
					Max M <sub>z</sub>	-57.64	-13.23	103.81	-5.37	10.53	▷ 40.66	LC 1-4,7-9, 12-14
					Min M <sub>z</sub>	-120.31	9.00	-62.82	1.86	33.35	▷ -28.84	LC 1-4,6,8, 9,12,13,19
4	RC23	7	0.000		Max N	▷ -3.98	30.96	96.94	-0.02	0.36	37.00	LC 1-4,6,8, 9,12,13
					Min N	▷ -202.36	-2.29	-79.48	-4.08	15.33	35.92	LC 1-4,7-9, 12-14,21
					Max V <sub>y</sub>	▷ -85.13	46.52	96.71	-4.20	4.67	69.39	LC 1-4,6,8, 9,12,13,20
					Min V <sub>y</sub>	▷ -88.91	-30.02	-107.93	1.08	3.08	-5.38	LC 1-4,7-9, 12-14,43
					Max V <sub>z</sub>	-84.81	36.13	▷ 114.80	0.28	-15.23	42.80	LC 1-4,6,8, 9,12,13,53
					Min V <sub>z</sub>	-181.14	-18.03	▷ -116.31	-2.41	11.29	19.22	LC 1-4,7-9, 12-14,21
					Max M <sub>T</sub>	-106.15	-7.38	-64.34	▷ 5.16	-3.70	26.68	LC 1-4,7-9, 12-14,30
					Min M <sub>T</sub>	-124.40	41.35	61.79	▷ -5.31	5.98	72.88	LC 1-4,6,8, 9,12,13,20
					Max M <sub>y</sub>	-158.08	35.25	46.81	-5.11	▷ 15.80	62.41	LC 1-4,6,8, 9,12,13,21
					Min M <sub>y</sub>	-168.25	-10.03	-40.38	1.69	▷ -21.02	10.93	LC 1-4,7-9, 12-14,53
					Max M <sub>z</sub>	-95.33	40.49	63.55	-4.66	2.76	▷ 73.45	LC 1-4,6,8, 9,12,13,19
					Min M <sub>z</sub>	-88.91	-30.02	-107.93	1.08	3.08	▷ -5.38	LC 1-4,7-9, 12-14,43
		21	4.850		Max N	▷ 52.10	5.64	-7.78	1.33	-12.26	-22.51	LC 1-4,6,8, 9,12,13
					Min N	▷ -263.98	1.99	21.32	0.14	65.39	20.65	LC 1-4,7-9, 12-14,21
					Max V <sub>y</sub>	▷ -24.16	10.18	-3.00	2.57	6.69	-23.14	LC 1-4,6,8, 9,12,13,19
					Min V <sub>y</sub>	▷ -233.06	-1.05	22.01	-0.76	57.44	24.59	LC 1-4,7-9, 12-14
					Max V <sub>z</sub>	-249.21	0.71	▷ 23.69	-0.39	61.31	22.15	LC 1-4,7-9, 12-14,31
					Min V <sub>z</sub>	39.71	5.77	▷ -8.91	1.38	-9.02	-22.66	LC 1-4,6,8, 9,12,13,43
					Max M <sub>T</sub>	-24.16	10.18	-3.00	▷ 2.57	6.69	-23.14	LC 1-4,6,8, 9,12,13,19
					Min M <sub>T</sub>	-233.06	-1.05	22.01	▷ -0.76	57.44	24.59	LC 1-4,7-9, 12-14
					Max M <sub>y</sub>	-263.98	1.99	21.32	▷ 0.14	65.39	20.65	LC 1-4,7-9, 12-14,21
					Min M <sub>y</sub>	52.10	5.64	-7.78	1.33	▷ -12.26	-22.51	LC 1-4,6,8, 9,12,13
					Max M <sub>z</sub>	-233.06	-1.05	22.01	-0.76	57.44	▷ 24.59	LC 1-4,7-9, 12-14
					Min M <sub>z</sub>	37.31	9.61	-8.01	2.42	-8.48	▷ -29.20	LC 1-4,6,8, 9,12,13,18
5	RC23	5	0.000		Max N	▷ 22.18	22.29	-728.92	4.39	3.93	34.35	LC 1-4,6,8, 9,12,13,43
					Min N	▷ -152.92	-9.36	987.70	-2.11	-5.42	24.19	LC 1-4,7-9, 12-14,30
					Max V <sub>y</sub>	▷ -14.78	32.46	-733.22	7.11	3.56	60.45	LC 1-4,6,8, 9,12,13,29
					Min V <sub>y</sub>	▷ -111.85	-22.28	990.60	-6.92	-4.16	0.71	LC 1-4,7-9, 12-14,41
					Max V <sub>z</sub>	-112.31	-21.66	▷ 992.87	-6.82	-4.22	1.02	LC 1-4,7-9, 12-14,22
					Min V <sub>z</sub>	8.44	22.95	▷ -737.17	3.84	5.86	36.99	LC 1-4,6,8, 9,12,13,53
					Max M <sub>T</sub>	-14.78	32.46	-733.22	▷ 7.11	3.56	60.45	LC 1-4,6,8, 9,12,13,29
					Min M <sub>T</sub>	-119.94	-20.79	991.14	▷ -8.50	-3.46	7.68	LC 1-4,7-9, 12-14,20
					Max M <sub>y</sub>	8.44	22.95	-737.17	3.84	▷ 5.86	36.99	LC 1-4,6,8, 9,12,13,53
					Min M <sub>y</sub>	-134.33	-10.14	988.78	-2.28	▷ -5.68	20.23	LC 1-4,7-9, 12-14,28
					Max M <sub>z</sub>	-60.61	27.95	-436.91	6.21	2.14	▷ 63.06	LC 1-4,6,8, 9,12,13,30
					Min M <sub>z</sub>	-107.53	-19.04	992.46	-4.69	-5.27	▷ -2.11	LC 1-4,7-9, 12-14,43
	22	4.850		Max N	▷ -1.14	7.14	67.70	1.55	-1.94	-24.26	LC 1-4,6,8, 9,12,13	
				Min N	▷ -178.09	1.00	-84.30	0.25	47.49	17.52	LC 1-4,7-9, 12-14,31	
				Max V <sub>y</sub>	▷ -19.45	10.48	68.28	2.27	2.52	-29.78	LC 1-4,6,8, 9,12,13,29	
				Min V <sub>y</sub>	▷ -150.42	-1.54	-84.57	-0.31	40.74	21.10	LC 1-4,7-9, 12-14	
			Max V <sub>z</sub>	-14.45	10.19	▷ 68.37	2.21	1.30	-29.70	LC 1-4,6,8,9		



RESULTS

Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>	
5	RC23			Min V <sub>z</sub>	-165.81	0.19	▷ -87.23	0.25	44.83	19.03	9,12,13,28 LC 1-4,7-9, 12-14,21
				Max M <sub>T</sub>	-12.32	10.11	▷ 65.95	2.43	1.00	-28.88	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14
				Min M <sub>T</sub>	-150.42	-1.54	▷ -84.57	-0.31	40.74	21.10	LC 1-4,7-9, 12-14,31 LC 1-4,6,8, 9,12,13
				Max M <sub>y</sub>	-178.09	1.00	▷ -84.30	0.25	47.49	17.52	LC 1-4,7-9, 12-14,31 LC 1-4,6,8, 9,12,13
				Min M <sub>y</sub>	-1.14	7.14	▷ 67.70	1.55	-1.94	-24.26	LC 1-4,7-9, 12-14
				Max M <sub>z</sub>	-150.42	-1.54	▷ -84.57	-0.31	40.74	21.10	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,41
6	RC23	4	0.000	Min M <sub>z</sub>	-19.45	10.48	▷ 68.28	2.27	2.52	-29.78	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,19
				Max N	▷ 49.69	-31.62	1130.57	44.13	14.79	-13.07	LC 1-4,6,8, 9,12,13,30 LC 1-4,7-9, 12-14,19
				Min N	▷ -143.84	34.28	-842.66	-25.61	13.53	49.42	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,19
				Max V <sub>y</sub>	▷ -139.01	35.53	-841.79	-25.07	11.97	50.33	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,19
				Min V <sub>y</sub>	▷ 49.69	-31.62	1130.57	44.13	14.79	-13.07	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,19
				Max V <sub>z</sub>	4.62	-23.42	▷ 1139.30	50.02	24.55	4.07	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,29
				Min V <sub>z</sub>	-93.95	27.33	▷ -850.52	-30.97	2.21	33.20	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,29
				Max M <sub>T</sub>	4.62	-23.42	▷ 1139.30	50.02	24.55	4.07	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,29
				Min M <sub>T</sub>	-93.95	27.33	▷ -850.52	-30.97	2.21	33.20	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,29
				Max M <sub>y</sub>	-40.94	-13.19	734.18	34.23	27.54	12.65	LC 1-4,6,8, 9,12,13,20 LC 1-4,7-9, 12-14,41
				Min M <sub>y</sub>	-94.30	27.52	-850.19	-30.87	2.14	32.25	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,41
				Max M <sub>z</sub>	-139.01	35.53	-841.79	-25.07	11.97	50.33	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,41
		23	4.850	Min M <sub>z</sub>	46.63	-30.11	1132.13	44.94	15.01	-14.49	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,41
				Max N	▷ 62.96	-0.49	-66.28	-2.67	-20.35	21.08	LC 1-4,6,8, 9,12,13,31 LC 1-4,7-9, 12-14,44
				Min N	▷ -193.77	12.59	30.39	5.89	50.96	-32.21	LC 1-4,6,8, 9,12,13,31 LC 1-4,7-9, 12-14,44
				Max V <sub>y</sub>	▷ -153.52	14.23	13.50	5.73	39.64	-28.99	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,20
				Min V <sub>y</sub>	▷ 55.51	-1.17	-68.60	-2.48	-18.64	20.29	LC 1-4,6,8, 9,12,13,44 LC 1-4,7-9, 12-14,31
				Max V <sub>z</sub>	-135.64	8.73	▷ 38.02	4.69	37.32	-27.33	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,31
				Min V <sub>z</sub>	4.82	3.38	▷ -73.92	-1.47	-6.71	16.19	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,31
				Max M <sub>T</sub>	-176.93	14.02	▷ 32.92	6.42	47.02	-34.83	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,42
				Min M <sub>T</sub>	56.97	-0.92	-68.01	▷ -2.76	-18.99	21.73	LC 1-4,6,8, 9,12,13,31 LC 1-4,7-9, 12-14,44
				Max M <sub>y</sub>	-193.77	12.59	30.39	5.89	50.96	-32.21	LC 1-4,6,8, 9,12,13,31 LC 1-4,7-9, 12-14,44
				Min M <sub>y</sub>	62.96	-0.49	-66.28	-2.67	-20.35	21.08	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,42
				Max M <sub>z</sub>	56.97	-0.92	-68.01	-2.76	-18.99	21.73	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,42
7	RC23	6	0.000	Min M <sub>z</sub>	-176.93	14.02	▷ 32.92	6.42	47.02	-34.83	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,42
				Max N	▷ 47.82	30.71	-1131.43	44.70	-15.01	13.29	LC 1-4,6,8, 9,12,13,18 LC 1-4,7-9, 12-14,29
				Min N	▷ -164.92	-35.40	841.87	-24.29	-19.21	-57.38	LC 1-4,6,8, 9,12,13,18 LC 1-4,7-9, 12-14,29
				Max V <sub>y</sub>	▷ 47.82	30.71	-1131.43	44.70	-15.01	13.29	LC 1-4,6,8, 9,12,13,20 LC 1-4,7-9, 12-14,36
				Min V <sub>y</sub>	▷ -147.49	-38.26	839.66	-23.42	-13.75	-56.60	LC 1-4,6,8, 9,12,13,36 LC 1-4,7-9, 12-14,19
				Max V <sub>z</sub>	-135.14	-29.96	▷ 850.44	-28.62	-12.82	-38.17	LC 1-4,6,8, 9,12,13,36 LC 1-4,7-9, 12-14,19
				Min V <sub>z</sub>	-15.72	20.87	▷ -1142.11	52.05	-29.38	-13.02	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,19
				Max M <sub>T</sub>	-15.72	20.87	▷ -1142.11	52.05	-29.38	-13.02	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,19
				Min M <sub>T</sub>	-95.82	-28.24	▷ 849.66	-30.40	-2.43	-32.97	LC 1-4,6,8, 9,12,13,29 LC 1-4,7-9, 12-14,45
				Max M <sub>y</sub>	-96.12	-28.34	849.42	-30.31	-2.37	-32.19	LC 1-4,6,8, 9,12,13,48 LC 1-4,7-9, 12-14,18
				Min M <sub>y</sub>	-72.00	9.89	-742.18	37.33	-34.69	-28.66	LC 1-4,6,8, 9,12,13,17 LC 1-4,7-9, 12-14,47
				Max M <sub>z</sub>	46.51	30.05	-1132.19	44.97	-15.03	14.50	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,45
		18	4.850	Min M <sub>z</sub>	-154.48	-30.57	493.93	-8.02	-23.60	-60.13	LC 1-4,6,8, 9,12,13,19 LC 1-4,7-9, 12-14,45
				Max N	▷ 62.96	0.49	66.28	-2.67	20.35	-21.08	LC 1-4,6,8, 9,12,13,17 LC 1-4,7-9, 12-14,47
				Min N	▷ -219.45	-14.31	-26.86	6.42	-57.02	34.35	LC 1-4,6,8, 9,12,13,17 LC 1-4,7-9, 12-14,47
				Max V <sub>y</sub>	▷ 56.65	1.08	67.88	-2.73	18.91	-21.59	LC 1-4,6,8, 9,12,13,17 LC 1-4,7-9, 12-14,47
				Min V <sub>y</sub>	▷ -177.10	-17.94	-10.41	6.91	-45.21	34.03	LC 1-4,6,8,9



RESULTS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>	
7	RC23			Max V <sub>z</sub>	-20.86	-5.09	77.45	-0.94	0.65	-14.06	9,12,13,19 LC 1-4,7-9, 12-14,17
				Min V <sub>z</sub>	-135.64	-8.73	-38.02	4.69	-37.32	27.33	LC 1-4,6,8, 9,12,13,45
				Max M <sub>T</sub>	-194.61	-16.80	-30.61	7.30	-51.20	38.61	LC 1-4,6,8, 9,12,13,19
				Min M <sub>T</sub>	56.86	0.90	68.06	-2.76	18.96	-21.69	LC 1-4,7-9, 12-14,46
				Max M <sub>y</sub>	62.96	0.49	66.28	-2.67	20.35	-21.08	LC 1-4,7-9, 12-14,45
				Min M <sub>y</sub>	-219.45	-14.31	-26.86	6.42	-57.02	34.35	LC 1-4,6,8, 9,12,13,17
				Max M <sub>z</sub>	-194.61	-16.80	-30.61	7.30	-51.20	38.61	LC 1-4,6,8, 9,12,13,19
				Min M <sub>z</sub>	56.86	0.90	68.06	-2.76	18.96	-21.69	LC 1-4,7-9, 12-14,46
8	RC23	8	0.000	Max N	22.57	-19.17	730.15	3.20	-4.18	-34.09	LC 1-4,6,8, 9,12,13,46
				Min N	-173.95	7.87	-985.74	-2.39	4.04	-29.46	LC 1-4,7-9, 12-14,17
				Max V <sub>y</sub>	-111.41	22.39	-990.65	-6.86	4.22	-0.39	LC 1-4,7-9, 12-14,47
				Min V <sub>y</sub>	-34.01	-37.39	733.73	8.44	-3.34	-73.78	LC 1-4,6,8, 9,12,13,19
				Max V <sub>z</sub>	11.99	-22.67	737.14	3.96	-5.70	-36.34	LC 1-4,6,8, 9,12,13,35
				Min V <sub>z</sub>	-107.65	18.97	-992.37	-4.65	5.27	2.07	LC 1-4,7-9, 12-14,45
				Max M <sub>T</sub>	-34.01	-37.39	733.73	8.44	-3.34	-73.78	LC 1-4,6,8, 9,12,13,19
				Min M <sub>T</sub>	-115.70	20.21	-990.50	-7.16	4.08	-4.24	LC 1-4,7-9, 12-14,28
				Max M <sub>y</sub>	-148.97	5.60	-988.59	-1.10	5.91	-31.99	LC 1-4,7-9, 12-14,20
				Min M <sub>y</sub>	11.99	-22.67	737.14	3.96	-5.70	-36.34	LC 1-4,6,8, 9,12,13,35
				Max M <sub>z</sub>	-107.13	22.15	-991.22	-5.88	5.02	2.37	LC 1-4,7-9, 12-14,46
				Min M <sub>z</sub>	-75.00	-35.18	436.98	8.17	-1.56	-80.57	LC 1-4,6,8, 9,12,13,19
9	RC23	3	0.000	Max N	-3.98	-30.96	-96.94	-0.02	-0.36	-37.00	LC 1-4,6,8, 9,12,13
				Min N	-166.46	6.89	75.17	-0.85	-15.04	-17.06	LC 1-4,7-9, 12-14,46
				Max V <sub>y</sub>	-78.93	29.71	104.71	1.24	-1.05	5.35	LC 1-4,7-9, 12-14,45
				Min V <sub>y</sub>	-79.57	-42.93	-101.31	3.53	7.85	-61.57	LC 1-4,6,8, 9,12,13,17
				Max V <sub>z</sub>	-146.88	22.19	114.39	-1.03	-8.36	-10.22	LC 1-4,7-9, 12-14,27
				Min V <sub>z</sub>	-82.86	-35.25	-114.69	0.23	14.78	-41.71	LC 1-4,6,8, 9,12,13,35
				Max M <sub>T</sub>	-131.18	2.56	64.32	7.12	5.69	-38.31	LC 1-4,7-9, 12-14,18
				Min M <sub>T</sub>	-90.18	-34.37	-61.53	-3.45	-4.51	-58.22	LC 1-4,6,8, 9,12,13,28
				Max M <sub>y</sub>	-165.65	11.21	40.52	1.62	20.42	-9.48	LC 1-4,7-9, 12-14,35
				Min M <sub>y</sub>	-122.18	-30.64	-51.12	-1.87	-15.51	-43.55	LC 1-4,6,8, 9,12,13,46
				Max M <sub>z</sub>	-78.93	29.71	104.71	1.24	-1.05	5.35	LC 1-4,7-9, 12-14,45
				Min M <sub>z</sub>	-86.90	-34.97	-61.97	6.10	5.22	-64.80	LC 1-4,6,8, 9,12,13,18
		15	4.850	Max N	108.85	-11.55	-14.58	-0.25	-1.55	45.53	LC 1-4,6,8, 9,12,13
				Min N	-523.44	-3.99	-6.64	-1.17	2.70	-39.00	LC 1-4,7-9, 12-14,17
				Max V <sub>y</sub>	-467.96	1.58	-2.10	-0.84	0.61	-46.77	LC 1-4,7-9, 12-14
				Min V <sub>y</sub>	-39.00	-19.10	-17.47	-0.95	0.74	46.48	LC 1-4,6,8, 9,12,13,19
				Max V <sub>z</sub>	-485.64	1.42	-0.03	-0.82	-0.42	-46.60	LC 1-4,7-9, 12-14,45
				Min V <sub>z</sub>	53.37	-17.13	-19.12	-0.57	0.53	53.29	LC 1-4,6,8, 9,12,13,17
				Max M <sub>T</sub>	76.83	-16.42	-13.52	0.03	-2.53	52.14	LC 1-4,6,8, 9,12,13,28
				Min M <sub>T</sub>	-400.03	-10.88	-9.66	-1.32	2.10	-11.29	LC 1-4,7-9, 12-14,19
				Max M <sub>y</sub>	-425.74	-8.49	-10.67	-1.16	2.96	-17.82	LC 1-4,7-9, 12-14,17
				Min M <sub>y</sub>	-41.63	-14.05	-10.30	-0.02	-2.80	35.59	LC 1-4,6,8, 9,12,13,27
				Max M <sub>z</sub>	82.23	-18.43	-18.01	-0.64	-0.51	58.56	LC 1-4,6,8, 9,12,13,20
				Min M <sub>z</sub>	-467.96	1.58	-2.10	-0.84	0.61	-46.77	LC 1-4,7-9, 12-14
10	RC23	2	0.000	Max N	3.60	-13.88	-830.34	-2.69	2.17	-40.43	LC 1-4,6,8, 9,12,13,35
				Min N	-135.64	-15.00	1072.85	6.42	-4.06	-27.70	LC 1-4,7-9, 12-14,28
				Max V <sub>y</sub>	-94.15	-2.18	1079.71	11.05	-2.89	-5.69	LC 1-4,7-9,1



RESULTS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases									
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>										
10	RC23			Min V <sub>y</sub>	▷	-65.83	▷	-27.55		-503.47		-2.86		1.17		-69.84	12-14, 17 LC 1-4,6,8,9,12,13,29			
				Max V <sub>z</sub>		-94.15		-2.18	▷	1079.71		11.05		-2.89		-5.69	LC 1-4,7-9,12-14,17			
				Min V <sub>z</sub>		-33.59		-16.10	▷	-832.60		-4.41		0.73		-52.72	LC 1-4,6,8,9,12,13,46			
				Max M <sub>T</sub>		-95.68		-2.99		1079.14	▷	11.45		-2.77		-7.57	LC 1-4,7-9,12-14,18			
				Min M <sub>T</sub>		-40.41		-22.58		-831.43	▷	-5.06		0.61		-62.55	LC 1-4,6,8,9,12,13,27			
				Max M <sub>y</sub>		-3.26		-12.44		-826.14		0.34	▷	3.21		-47.35	LC 1-4,6,8,9,12,13,18			
				Min M <sub>y</sub>		-100.82		-6.97		1079.54		7.45	▷	-6.31		-2.81	LC 1-4,7-9,12-14,45			
				Max M <sub>z</sub>		-89.52		-5.44		1075.90		8.08		-3.80	▷	-0.56	LC 1-4,7-9,12-14			
				Min M <sub>z</sub>		-65.83		-27.55		-503.47		-2.86		1.17	▷	-69.84	LC 1-4,6,8,9,12,13,29			
				14	4.850	Max N	▷	-114.42		-8.47		117.31		-1.07		-23.07		42.52	LC 1-4,6,8,9,12,13,44	
						Min N	▷	-260.33		6.48		-130.66		-3.92		16.56		-39.82	LC 1-4,7-9,12-14,27	
						Max V <sub>y</sub>		-200.77	▷	19.03		-188.86		-5.10		28.49		-72.23	LC 1-4,7-9,12-14	
						Min V <sub>y</sub>		-151.46	▷	-15.46		115.30		-0.77		-23.79		52.90	LC 1-4,6,8,9,12,13,29	
						Max V <sub>z</sub>		-151.11		-8.81	▷	118.84		-1.00		-24.32		42.73	LC 1-4,6,8,9,12,13,45	
						Min V <sub>z</sub>		-221.55		15.73	▷	-194.81		-5.40		30.53		-67.66	LC 1-4,7-9,12-14,17	
						Max M <sub>T</sub>		-162.20		-15.11		114.85	▷	-0.74		-24.04		51.66	LC 1-4,6,8,9,12,13,28	
						Min M <sub>T</sub>		-216.86		14.91		-193.70	▷	-5.46		30.23		-65.80	LC 1-4,7-9,12-14,18	
						Max M <sub>y</sub>		-221.55		15.73		-194.81		-5.40	▷	30.53		-67.66	LC 1-4,7-9,12-14,17	
						Min M <sub>y</sub>		-151.11		-8.81		118.84		-1.00		-24.32		42.73	LC 1-4,6,8,9,12,13,45	
						Max M <sub>z</sub>		-151.46		-15.46		115.30		-0.77		-23.79	▷	52.90	LC 1-4,6,8,9,12,13,29	
	Min M <sub>z</sub>		-200.77				19.03		-188.86		-5.10		28.49	▷	-72.23	LC 1-4,7-9,12-14				
	11	RC23	1			0.000	Max N	▷	58.06		66.34		980.57		-41.99		16.37		26.00	LC 1-4,7-9,12-14,19
							Min N	▷	-116.96		-81.03		-751.86		26.05		8.96		-58.19	LC 1-4,6,8,9,12,13,46
							Max V <sub>y</sub>		57.84	▷	66.39		980.72		-42.00		16.35		26.57	LC 1-4,7-9,12-14,18
							Min V <sub>y</sub>		-112.13	▷	-81.98		-760.86		26.20		8.30		-52.04	LC 1-4,6,8,9,12,13,45
							Max V <sub>z</sub>		34.86		64.70	▷	983.57		-44.27		22.68		14.08	LC 1-4,7-9,12-14,48
							Min V <sub>z</sub>		-112.13		-81.98	▷	-760.86		26.20		8.30		-52.04	LC 1-4,6,8,9,12,13,45
							Max M <sub>T</sub>		-84.61		-79.40		-753.55	▷	28.12		0.04		-50.04	LC 1-4,6,8,9,12,13,19
Min M <sub>T</sub>								30.67		64.56		983.45	▷	-44.41		23.95		12.74	LC 1-4,7-9,12-14,28	
Max M <sub>y</sub>					26.07			64.77		982.36		-44.27	▷	25.43		14.19	LC 1-4,7-9,12-14,27			
Min M <sub>y</sub>					-84.83			-79.35		-753.40		28.12	▷	0.02		-49.48	LC 1-4,6,8,9,12,13,18			
Max M <sub>z</sub>					55.89			65.86		981.54		-42.48		16.65	▷	26.94	LC 1-4,7-9,12-14,37			
Min M <sub>z</sub>					-112.00			-81.18		-750.68		25.70		7.62	▷	-63.30	LC 1-4,6,8,9,12,13,28			
13			4.850	Max N	▷	78.37		77.12		-64.28		18.23		-23.86		-66.84	LC 1-4,7-9,12-14,18			
				Min N	▷	-283.53		35.11		10.36		3.50		70.76		13.95	LC 1-4,6,8,9,12,13,27			
				Max V <sub>y</sub>		74.15	▷	77.21		-64.34		18.05		-22.91		-65.45	LC 1-4,7-9,12-14,20			
				Min V <sub>y</sub>		-275.09	▷	34.55		11.54		3.24		68.78		15.12	LC 1-4,6,8,9,12,13,28			
				Max V <sub>z</sub>		-235.07		39.69	▷	17.66		4.78		59.42		8.98	LC 1-4,6,8,9,12,13,44			
				Min V <sub>z</sub>		23.78		72.14	▷	-70.89		17.22		-11.10		-63.16	LC 1-4,7-9,12-14,27			
				Max M <sub>T</sub>		72.24		76.72		-63.59	▷	18.49		-22.45		-68.12	LC 1-4,7-9,12-14,44			
				Min M <sub>T</sub>		-265.80		34.84		12.92	▷	3.22		66.60		15.49	LC 1-4,6,8,9,12,13,29			
		Max M <sub>y</sub>		-283.53		35.11		10.36		3.50	▷	70.76		13.95	LC 1-4,6,8,9,12,13,27					
		Min M <sub>y</sub>		78.37		77.12		-64.28		18.23	▷	-23.86		-66.84	LC 1-4,7-9,12-14,18					
		Max M <sub>z</sub>		-265.80		34.84		12.92		3.22		66.60	▷	15.49	LC 1-4,6,8,9,12,13,29					
		Min M <sub>z</sub>		72.24		76.72		-63.59		18.49		-22.45	▷	-68.12	LC 1-4,7-9,12-14,44					
		Section No. 2: Rectangle 1000/400																		
		12	RC23	8	0.000	Max N	▷	128.30		699.84		-120.00		-64.99		-8.80		4.00	LC 1-4,6,8,9,12,13,35	



RESULTS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>	
12	RC23 RC23			Min N	-177.93	-927.58	220.06	66.93	-13.42	-9.50	LC 1-4,7-9, 12-14,29
				Max V <sub>y</sub>	125.88	700.40	-92.22	-73.26	-22.89	0.99	LC 1-4,6,8, 9,12,13,17
				Min V <sub>y</sub>	-177.90	-927.86	219.26	67.26	-13.34	-9.58	LC 1-4,7-9, 12-14,49
				Max V <sub>z</sub>	-176.12	-924.42	245.43	60.31	-24.38	-12.10	LC 1-4,7-9, 12-14,17
				Min V <sub>z</sub>	127.54	697.24	-126.90	-62.61	-8.00	3.81	LC 1-4,6,8, 9,12,13
				Max M <sub>T</sub>	-174.47	-927.58	210.76	70.95	-9.48	-9.28	LC 1-4,7-9, 12-14
				Min M <sub>T</sub>	125.88	700.40	-92.22	-73.26	-22.89	0.99	LC 1-4,6,8, 9,12,13,17
				Max M <sub>y</sub>	127.72	699.20	-123.91	-63.74	-7.81	4.46	LC 1-4,6,8, 9,12,13,46
				Min M <sub>y</sub>	-116.76	-598.66	176.23	34.75	-33.26	-11.69	LC 1-4,7-9, 12-14,19
				Max M <sub>z</sub>	127.72	699.20	-123.91	-63.74	-7.81	4.46	LC 1-4,6,8, 9,12,13,46
				Min M <sub>z</sub>	-176.81	-926.37	235.87	63.98	-27.54	-13.07	LC 1-4,7-9, 12-14,19
		9	4.045	Max N	170.51	150.85	185.09	63.56	-11.29	-56.17	LC 1-4,7-9, 12-14,51
				Min N	-143.10	-115.29	-214.78	-71.40	-31.44	51.11	LC 1-4,6,8, 9,12,13,20
				Max V <sub>y</sub>	167.35	155.26	177.71	60.11	-10.74	-56.35	LC 1-4,7-9, 12-14,44
				Min V <sub>y</sub>	-143.10	-115.29	-214.78	-71.40	-31.44	51.11	LC 1-4,6,8, 9,12,13,20
				Max V <sub>z</sub>	167.01	149.11	185.51	63.32	-9.87	-56.31	LC 1-4,7-9, 12-14,45
				Min V <sub>z</sub>	-141.66	-113.49	-217.43	-73.18	-28.68	50.42	LC 1-4,6,8, 9,12,13,21
				Max M <sub>T</sub>	170.26	151.37	185.50	63.57	-10.46	-56.37	LC 1-4,7-9, 12-14,52
				Min M <sub>T</sub>	-141.66	-113.49	-217.43	-73.18	-28.68	50.42	LC 1-4,6,8, 9,12,13,21
				Max M <sub>y</sub>	166.93	148.89	185.34	63.29	-9.84	-56.29	LC 1-4,7-9, 12-14
				Min M <sub>y</sub>	-94.71	-70.82	-154.60	-51.06	-37.34	34.39	LC 1-4,6,8, 9,12,13,19
				Max M <sub>z</sub>	-142.81	-115.09	-206.93	-68.76	-31.64	51.22	LC 1-4,6,8, 9,12,13,19
				Min M <sub>z</sub>	170.26	151.37	185.50	63.57	-10.46	-56.37	LC 1-4,7-9, 12-14,52
13	RC23	2	0.000	Max N	172.07	152.52	-184.83	63.50	-12.35	56.03	LC 1-4,7-9, 12-14,17
				Min N	-139.41	-114.36	202.52	-67.37	-25.18	-49.98	LC 1-4,6,8, 9,12,13,28
				Max V <sub>y</sub>	167.35	155.25	-177.71	60.11	-10.74	56.35	LC 1-4,7-9, 12-14,45
				Min V <sub>y</sub>	-138.35	-114.51	203.16	-67.14	-22.79	-49.55	LC 1-4,6,8, 9,12,13,47
				Max V <sub>z</sub>	-135.16	-112.18	204.33	-67.75	-18.03	-48.60	LC 1-4,6,8, 9,12,13,46
				Min V <sub>z</sub>	170.17	151.40	-185.52	63.56	-10.40	56.38	LC 1-4,7-9, 12-14,36
				Max M <sub>T</sub>	170.53	150.89	-185.13	63.57	-11.22	56.19	LC 1-4,7-9, 12-14,37
				Min M <sub>T</sub>	-138.34	-112.88	203.05	-68.23	-23.09	-49.48	LC 1-4,6,8, 9,12,13,27
				Max M <sub>y</sub>	166.93	148.88	-185.34	63.29	-9.84	56.29	LC 1-4,7-9, 12-14
				Min M <sub>y</sub>	-90.06	-69.70	141.78	-46.79	-29.10	-32.87	LC 1-4,6,8, 9,12,13,29
				Max M <sub>z</sub>	170.17	151.40	-185.52	63.56	-10.40	56.38	LC 1-4,7-9, 12-14,36
				Min M <sub>z</sub>	-139.33	-114.25	197.32	-65.56	-25.47	-50.09	LC 1-4,6,8, 9,12,13,29
		5	4.045	Max N	128.30	699.84	120.00	-64.99	-8.80	-4.00	LC 1-4,6,8, 9,12,13,54
				Min N	-179.71	-927.61	-224.65	64.92	-15.51	9.66	LC 1-4,7-9, 12-14,19
				Max V <sub>y</sub>	128.16	700.11	118.08	-65.57	-9.14	-3.94	LC 1-4,6,8, 9,12,13,53
				Min V <sub>y</sub>	-178.43	-927.96	-219.31	67.17	-15.02	9.99	LC 1-4,7-9, 12-14,17
				Max V <sub>z</sub>	127.54	697.24	126.90	-62.61	-8.00	-3.81	LC 1-4,6,8, 9,12,13
				Min V <sub>z</sub>	-174.87	-926.06	-235.84	63.17	-15.32	10.33	LC 1-4,7-9, 12-14,52
				Max M <sub>T</sub>	-174.47	-927.58	-210.76	70.95	-9.48	9.28	LC 1-4,7-9, 12-14
				Min M <sub>T</sub>	127.13	698.76	101.81	-70.39	-13.83	-2.76	LC 1-4,6,8, 9,12,13,52
				Max M <sub>y</sub>	127.26	697.51	126.04	-62.78	-7.87	-3.82	LC 1-4,6,8, 9,12,13,43
				Min M <sub>y</sub>	-115.67	-599.21	-172.36	35.48	-25.20	9.95	LC 1-4,7-9, 12-14,30
				Max M <sub>z</sub>	-176.10	-926.80	-227.21	66.40	-21.42	11.79	LC 1-4,7-9, 12-14,29
				Min M <sub>z</sub>	127.40	699.03	123.28	-63.98	-7.97	-4.38	LC 1-4,6,8, 9,12,13,42





RESULTS

Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

4.12 CROSS-SECTIONS - INTERNAL FORCES

Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>	
14	RC23	1	0.000	Max N	132.47	299.49	309.99	-27.80	0.70	-5.21	LC 1-4,6,8, 9,12,13,18
				Min N	-175.04	-388.45	-395.28	35.92	-1.75	4.65	LC 1-4,7-9, 12-14,28
				Max V <sub>y</sub>	130.72	300.55	309.57	-27.85	0.78	-4.86	LC 1-4,6,8, 9,12,13,45
				Min V <sub>y</sub>	-172.54	-389.23	-397.54	35.99	-1.60	4.40	LC 1-4,7-9, 12-14,44
				Max V <sub>z</sub>	128.78	299.81	311.95	-27.81	0.56	-4.68	LC 1-4,6,8, 9,12,13,28
				Min V <sub>z</sub>	-173.10	-387.71	-397.66	35.88	-1.54	4.47	LC 1-4,7-9, 12-14,45
				Max M <sub>T</sub>	-172.54	-389.23	-397.54	35.99	-1.60	4.40	LC 1-4,7-9, 12-14,44
				Min M <sub>T</sub>	130.72	300.55	309.57	-27.85	0.78	-4.86	LC 1-4,6,8, 9,12,13,45
				Max M <sub>y</sub>	130.72	300.55	309.57	-27.85	0.78	-4.86	LC 1-4,6,8, 9,12,13,45
				Min M <sub>y</sub>	-174.68	-388.44	-395.31	35.91	-1.77	4.62	LC 1-4,7-9, 12-14,29
				Max M <sub>z</sub>	-175.04	-388.45	-395.28	35.92	-1.75	4.65	LC 1-4,7-9, 12-14,28
				Min M <sub>z</sub>	132.47	299.49	309.99	-27.80	0.70	-5.21	LC 1-4,6,8, 9,12,13,18
		4	4.045	Max N	250.69	629.78	-42.34	-29.94	-7.88	-45.55	LC 1-4,6,8, 9,12,13,52
				Min N	-339.16	-847.98	-91.58	2.18	-32.94	65.79	LC 1-4,7-9, 12-14,28
				Max V <sub>y</sub>	249.57	633.09	-5.01	-20.42	-3.87	-45.99	LC 1-4,6,8, 9,12,13,19
				Min V <sub>y</sub>	-338.85	-848.66	-99.89	0.20	-33.97	65.86	LC 1-4,7-9, 12-14,29
				Max V <sub>z</sub>	249.57	633.09	-5.01	-20.42	-3.87	-45.99	LC 1-4,6,8, 9,12,13,19
				Min V <sub>z</sub>	-220.09	-552.96	-109.51	-11.21	-33.88	43.93	LC 1-4,7-9, 12-14,30
				Max M <sub>T</sub>	-338.07	-843.73	-64.99	8.64	-18.25	64.34	LC 1-4,7-9, 12-14,42
				Min M <sub>T</sub>	249.07	627.00	-48.87	-30.38	-17.62	-44.50	LC 1-4,6,8, 9,12,13,30
				Max M <sub>y</sub>	248.79	632.60	-5.50	-19.98	-2.99	-45.88	LC 1-4,6,8, 9,12,13,21
				Min M <sub>y</sub>	-221.17	-552.99	-99.62	-8.32	-35.93	44.21	LC 1-4,7-9, 12-14,29
				Max M <sub>z</sub>	-338.85	-848.66	-99.89	0.20	-33.97	65.86	LC 1-4,7-9, 12-14,29
				Min M <sub>z</sub>	250.23	632.25	-7.14	-19.96	-4.10	-46.01	LC 1-4,6,8, 9,12,13,54
15	RC23	3	0.000	Max N	4.55	-402.90	11.16	70.39	-19.88	29.04	LC 1-4,7-9, 12-14,19
				Min N	-17.13	173.66	84.86	-59.25	-11.77	-19.23	LC 1-4,6,8, 9,12,13,46
				Max V <sub>y</sub>	-5.84	305.37	34.82	-64.86	-9.08	-26.85	LC 1-4,6,8, 9,12,13,45
				Min V <sub>y</sub>	1.70	-413.97	18.39	72.64	-9.28	31.20	LC 1-4,7-9, 12-14,35
				Max V <sub>z</sub>	-17.13	173.66	84.86	-59.25	-11.77	-19.23	LC 1-4,6,8, 9,12,13,46
				Min V <sub>z</sub>	3.63	-403.79	-1.73	73.12	-8.74	31.46	LC 1-4,7-9, 12-14,44
				Max M <sub>T</sub>	3.63	-403.79	-1.73	73.12	-8.74	31.46	LC 1-4,7-9, 12-14,44
				Min M <sub>T</sub>	-15.62	297.35	76.86	-78.39	-11.19	-28.74	LC 1-4,6,8, 9,12,13,46
				Max M <sub>y</sub>	3.79	-400.98	-1.07	72.77	-8.47	31.62	LC 1-4,7-9, 12-14,45
				Min M <sub>y</sub>	-3.10	180.80	53.53	-45.77	-24.80	-20.29	LC 1-4,6,8, 9,12,13,18
				Max M <sub>z</sub>	3.79	-400.98	-1.07	72.77	-8.47	31.62	LC 1-4,7-9, 12-14,45
				Min M <sub>z</sub>	-5.09	302.71	53.36	-68.28	-20.97	-29.54	LC 1-4,6,8, 9,12,13,18
		7	4.045	Max N	4.36	-403.21	-7.31	71.24	-15.63	-29.95	LC 1-4,7-9, 12-14,50
				Min N	-22.81	173.60	-98.88	-64.02	-30.12	20.81	LC 1-4,6,8, 9,12,13,20
				Max V <sub>y</sub>	-5.84	305.37	-34.82	-64.86	-9.08	26.85	LC 1-4,6,8, 9,12,13,44
				Min V <sub>y</sub>	1.70	-413.97	-18.40	72.64	-9.28	-31.21	LC 1-4,7-9, 12-14,54
				Max V <sub>z</sub>	3.63	-403.79	1.73	73.12	-8.74	-31.46	LC 1-4,7-9, 12-14,45
				Min V <sub>z</sub>	-22.81	173.60	-98.88	-64.02	-30.12	20.81	LC 1-4,6,8, 9,12,13,20
				Max M <sub>T</sub>	3.63	-403.79	1.73	73.12	-8.74	-31.46	LC 1-4,7-9, 12-14,45
				Min M <sub>T</sub>	-18.35	296.74	-84.05	-82.01	-21.53	29.27	LC 1-4,6,8, 9,12,13,21
				Max M <sub>y</sub>	3.56	-401.40	1.64	72.76	-8.46	-31.63	LC 1-4,7-9, 12-14,43
				Min M <sub>y</sub>	-22.81	173.60	-98.88	-64.02	-30.12	20.81	LC 1-4,6,8, 9,12,13,20
				Max M <sub>z</sub>	-19.88	297.30	-87.37	-81.97	-24.96	29.93	LC 1-4,6,8, 9,12,13,20



## RESULTS

Project: Model: Skorotice-Bridge  
Bridge

Date: 26.04.2021

### 4.12 CROSS-SECTIONS - INTERNAL FORCES

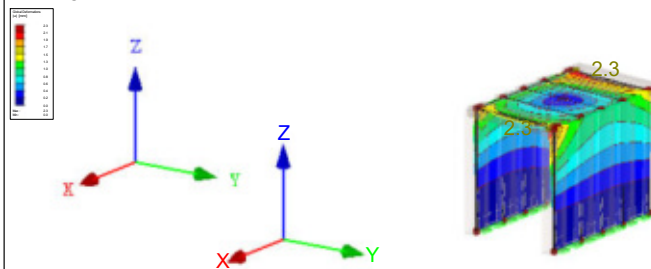
Result Combinations

Member No.	RC	Node No.	Location x [m]		Forces [kN]			Moments [kNm]			Corresponding Load Cases
					N	V <sub>y</sub>	V <sub>z</sub>	M <sub>T</sub>	M <sub>y</sub>	M <sub>z</sub>	
15	RC23	6	0.000	Min M <sub>z</sub>	3.56	-401.40	1.64	72.76	-8.46	-31.63	LC 1-4,7-9, 12-14,43
15	RC23			Max N	250.70	629.71	41.37	-30.07	-8.26	45.49	LC 1-4,6,8, 9,12,13,15
16	RC23			Min N	-340.16	-850.11	105.69	-1.29	-40.09	-66.58	LC 1-4,7-9, 12-14,20
				Max V <sub>y</sub>	249.70	632.64	5.65	-20.20	-3.96	45.96	LC 1-4,6,8, 9,12,13,29
				Min V <sub>y</sub>	-339.55	-851.08	118.21	-4.39	-41.32	-66.65	LC 1-4,7-9, 12-14,19
				Max V <sub>z</sub>	-219.80	-555.92	136.39	-18.91	-41.59	-44.74	LC 1-4,7-9, 12-14,18
				Min V <sub>z</sub>	249.70	632.64	5.65	-20.20	-3.96	45.96	LC 1-4,6,8, 9,12,13,29
				Max M <sub>T</sub>	-338.11	-843.77	65.06	8.64	-18.30	-64.35	LC 1-4,7-9, 12-14,46
				Min M <sub>T</sub>	147.66	367.68	99.81	-36.70	-32.32	24.21	LC 1-4,6,8, 9,12,13,18
				Max M <sub>y</sub>	249.15	632.40	6.00	-19.82	-3.07	45.91	LC 1-4,6,8, 9,12,13,47
				Min M <sub>y</sub>	-222.10	-556.21	124.04	-14.45	-45.74	-45.26	LC 1-4,7-9, 12-14,19
				Max M <sub>z</sub>	250.23	632.25	7.14	-19.96	-4.10	46.00	LC 1-4,6,8, 9,12,13,35
				Min M <sub>z</sub>	-339.55	-851.08	118.21	-4.39	-41.32	-66.65	LC 1-4,7-9, 12-14,19
				Max N	132.07	299.35	-309.92	-27.79	0.69	5.13	LC 1-4,6,8, 9,12,13,30
		11	4.045	Min N	-176.28	-388.07	394.16	35.88	-1.83	-4.78	LC 1-4,7-9, 12-14,20
				Max V <sub>y</sub>	128.84	301.02	-311.15	-27.90	0.62	4.64	LC 1-4,6,8, 9,12,13,22
				Min V <sub>y</sub>	-172.54	-389.23	397.54	35.99	-1.60	-4.40	LC 1-4,7-9, 12-14,45
				Max V <sub>z</sub>	-173.10	-387.71	397.66	35.88	-1.54	-4.47	LC 1-4,7-9, 12-14,44
				Min V <sub>z</sub>	127.54	300.18	-313.08	-27.85	0.48	4.55	LC 1-4,6,8, 9,12,13,20
				Max M <sub>T</sub>	-172.54	-389.23	397.54	35.99	-1.60	-4.40	LC 1-4,7-9, 12-14,45
				Min M <sub>T</sub>	128.84	301.02	-311.15	-27.90	0.62	4.64	LC 1-4,6,8, 9,12,13,22
				Max M <sub>y</sub>	130.72	300.55	-309.57	-27.85	0.78	4.86	LC 1-4,6,8, 9,12,13,44
				Min M <sub>y</sub>	-175.66	-388.05	394.25	35.87	-1.85	-4.73	LC 1-4,7-9, 12-14,19
				Max M <sub>z</sub>	132.07	299.35	-309.92	-27.79	0.69	5.13	LC 1-4,6,8, 9,12,13,30
				Min M <sub>z</sub>	-176.28	-388.07	394.16	35.88	-1.83	-4.78	LC 1-4,7-9, 12-14,20

### GLOBAL DEFORMATIONS u

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric



Factor of deformations: 170.00  
Max u: - Min u: -



## RESULTS

Project:

Model: Skorotice-Bridge

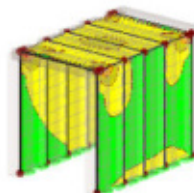
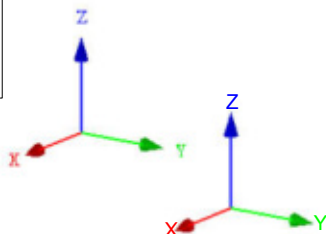
Date: 26.04.2021

Bridge

### ■ BASE VALUES $m_x$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

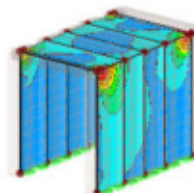
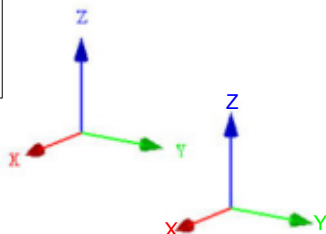
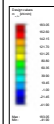


Max  $m_x$ : 136.60, Min  $m_x$ : -142.25 kNm/m

### ■ DESIGN VALUES $m_{x,D,+}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

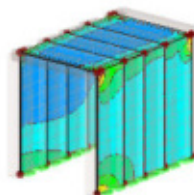
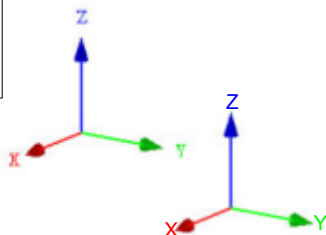


Max  $m_{x,D,+}$ : 183.05, Min  $m_{x,D,+}$ : -41.90 kNm/m

### ■ DESIGN VALUES $m_{y,D,+}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

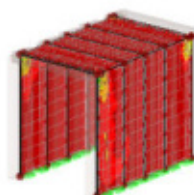
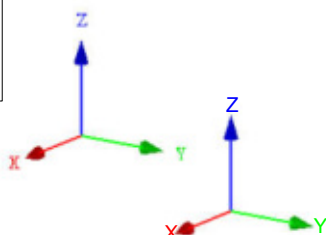
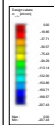


Max  $m_{y,D,+}$ : 258.90, Min  $m_{y,D,+}$ : -59.43 kNm/m

### ■ DESIGN VALUES $m_{c,D,+}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric



Max  $m_{c,D,+}$ : 0.00, Min  $m_{c,D,+}$ : -207.43 kNm/m



## RESULTS

Project:

Model: Skorotice-Bridge

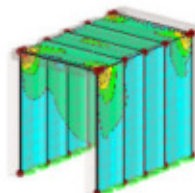
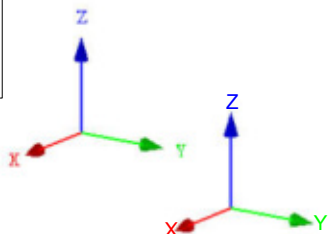
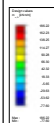
Date: 26.04.2021

Bridge

### DESIGN VALUES $m_{x,D,-}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

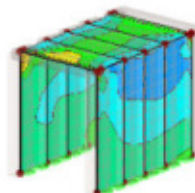
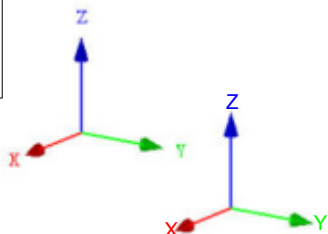


Max  $m_{x,D,-}$ : 186.22, Min  $m_{x,D,-}$ : -77.60 kNm/m

### DESIGN VALUES $m_{y,D,-}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

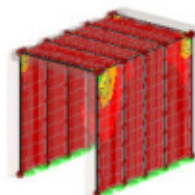
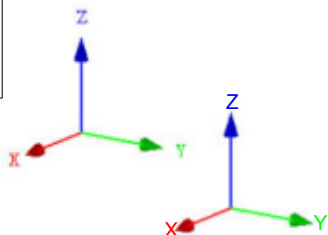
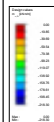


Max  $m_{y,D,-}$ : 247.13, Min  $m_{y,D,-}$ : -87.12 kNm/m

### DESIGN VALUES $m_{c,D,-}$

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

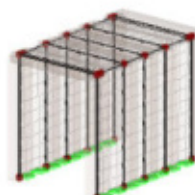
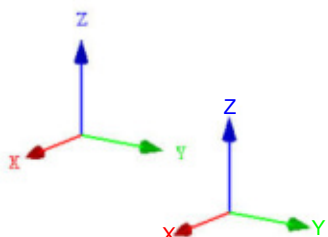


Max  $m_{c,D,-}$ : 0.00, Min  $m_{c,D,-}$ : -218.30 kNm/m

### MODEL

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric





Project:

Model: Skorotice-Bridge

Date: 26.04.2021

Bridge

## ■ MODEL

RC23 : ULS (STR/GEO) - Permanent / transient - Eq. 6.10  
Result Combinations: Max and Min Values

Isometric

