

### 3.1 NASLOVNA STRAN - NAČRT GRADBENE KONSTRUKCIJE

**INVESTITOR:**

OŠ RADA ROBIČA LIMBUŠ, LIMBUŠKA CESTA 62, 2341 LIMBUŠ

**OBJEKT:**

UREDITEV DVORIŠČA Z NADSTREŠKOM

**VRSTA PROJEKTNE DOKUMENTACIJE:**

PZI

**ZA GRADNJO:**

ODSTRANITEV, REKONSTRUKCIJA, NOVOGRADNJA

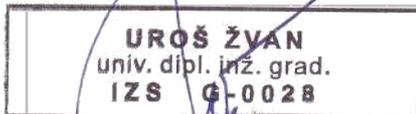
**PROJEKTANT:**

INŽENIRING BIRO ARMATURA, UROŠ ŽVAN S.P., ZRKOVSKA 75, 2000 MARIBOR  
DIREKTOR: UROŠ ŽVAN, u.d.i.g.



**ODGOVORNI PROJEKTANT:**

UROŠ ŽVAN, u.d.i.g., IZS G-0028



**ŠTEVILKA NAČRTA:**

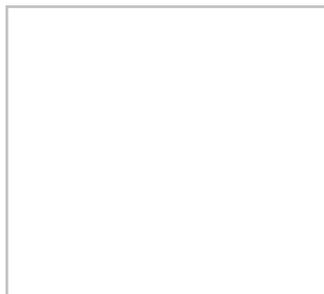
12/17-K

**KRAJ IN DATUM IZDELAVE PROJEKTA:**

MARIBOR, JUNIJ 2017

**ODGOVORNI VODJA PROJEKTA:**

MIHA MILIČ, U.D.I.A., ZAPS 1524 A



## 3.2 KAZALO VSEBINE NAČRTA GRADBENE KONSTRUKCIJE

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## 3.3 TEHNIČNO POROČILO IN KONTROLA MEHANSKE ODPORNOSTI NADSTREŠKA

### 1 PODATKI O INVESTITORJU IN OBJEKTU

Investitor OŠ Rada Robiča Limbuš ima namen preurediti dvorišče pred vhodom v šolo z novim jeklenim nadstreškom.

### 2 OPIS KONSTRUKCIJE

#### TEMELJI

Stopnišče in podesti na dvorišču pred osnovno šolo so plitvo temeljeni na pasovnih temeljih. Podesti in stopnišča so na spodnji strani v stiku z na novo utrjeno zemljino, ta mora biti dobro komprimirana v slojih debeline po 30cm, da se omogoči kvalitetna podlaga za naleganje betonskih površin.

Spodnji in zgornji rob pasovnih temeljev sta po celotnem dvorišču konstantna in sicer sp. rob -2,39m, zg. rob -2,09m. višinska kota (+-) 0,00m je povzeta po načrtu arhitekture in predstavlja najvišjo točko podesta pred vhodnimi vrati v OŠ.

Pasovni temelji so armirani s stremeni  $\varnothing 8/15\text{cm}$  in vzdolžno armaturo  $\varnothing 12$ .

#### ZIDOVJE

Zidovje iz betonskih votlakov je armirano na mestih, kjer je samo ena stran zasuta in kjer nalega sp. rob stopnišča in podesta. Vertikalna armatura je  $\varnothing 12/15$  horizontalna armatura pa  $\varnothing 8/20$  na mestih naleganja votlakov (fuge). Na risbah je območje armiranega zidovja označeno s križno šrafuro. Na mestih kjer je zidovje armirano je potrebno iz temeljev pustiti priključno armaturo.

#### STOPNIŠČE IN PODESTI

Spodnja betonska ploskev stopnišč in podestov nalega na utrjeno zemljino, ob enem pa zg. in sp. rob stopnišča temelji na pasovnih temeljih. Armaturo stopnišč in podestov v vzdolžni smeri je  $\varnothing 12/15\text{cm}$  v prečni pa  $\varnothing 10/20\text{cm}$ .

#### JEKLENI NADSTREŠEK

Profili nadstreška so I 200. Pri montaži stebrov, dokler ni izveden strešni del konstrukcije je potrebno izvesti začasno pridržanje stebrov. Na jeklen nadstrešek nalegajo leseni lepljeni nosilci, ki se prilagajajo rastru strešne zasteklitve. V tem projektu so podane min. dimenzije lesenih lepljenih nosilcev 14/10 cm e=80cm. V primeru drugačnega rastra je potrebno ponovno preveriti nosilnost lesenih nosilcev.

### 3 UPORABLJENI MATERIALI

Pri betonskih delih je potrebno upoštevati naslednje kvalitete materiala in njegove trdnosti.

- Temelji, stene.....C25/30 XC2 CI 0,2 Dmax =32mm S4 PV II,
- Stopnice in podesti.....C30/37 XD3/XF4 CI 0,2 Dmax =32mm S4 PVIII.

Pri vseh betonskih elementih je predviden zaščitni sloj 4,5cm.  
Armatura palic B 500(B), armatura mrež B 500(A).

Vsi jekleni elementi so kvalitete S235, vsi vijaki in navojne palice so kvalitete 8.8.

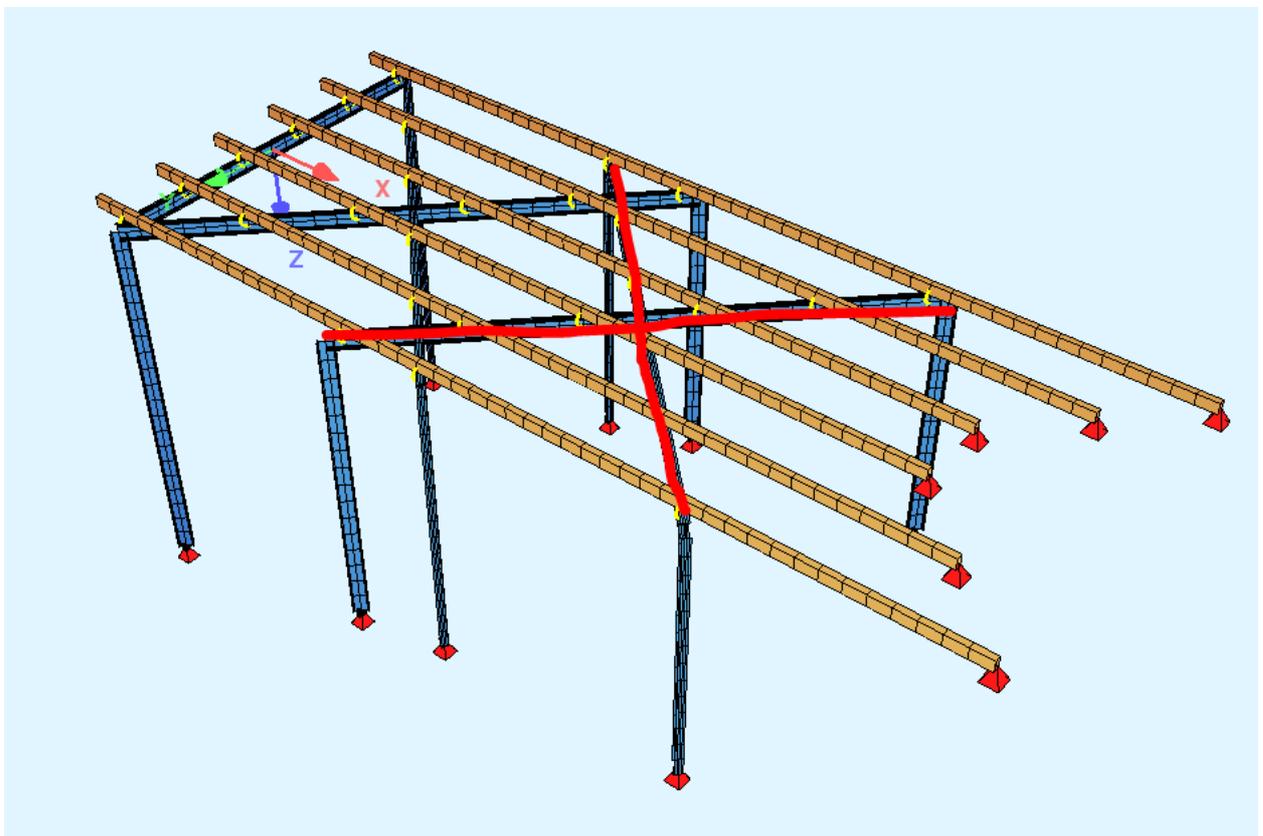
## 4 IZVEDBA DEL

Pred izvedbo del je potrebno pridobiti gradbeno dovoljenje. Izvedba del pa mora potekati v skladu s tem projektom PZI in projektom PGD ter v skladu s pridobljenim gradbenim dovoljenjem in soglasji.

Po potrebi se naj projektanta pozove k projektantskemu nadzoru.

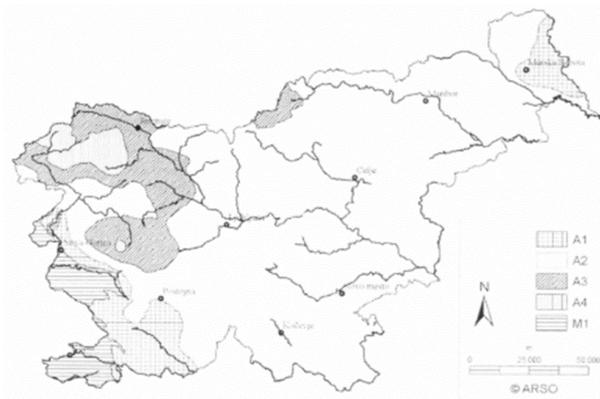
Če izvajalec del smatra, da je v projektu napaka ali pomanjkljivost mora nemudoma pozvati projektanta, da poda pojasnilo, ustrezno korekcijo ali dopolnilo.

## 5 KONTROLA MEHANSKE ODPORNOSTI NADSTREŠKA



**OBTEŽBA SNEGA:**

Nadmorska višina:  m  
 Cona  sk=  kN/m<sup>2</sup>



$$A1 \quad s_s = 0,651 \left[ 1 + \left( \frac{A}{728} \right)^2 \right]$$

$$A2 \quad s_s = 1,293 \left[ 1 + \left( \frac{A}{728} \right)^2 \right]$$

$$A3 \quad s_s = 1,935 \left[ 1 + \left( \frac{A}{728} \right)^2 \right]$$

$$A4 \quad s_s = 2,577 \left[ 1 + \left( \frac{A}{728} \right)^2 \right]$$

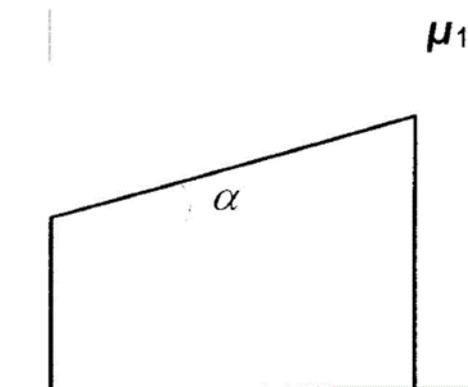
$$M1 \quad s_s = 0,289 \left[ 1 + \left( \frac{A}{452} \right)^2 \right]$$

V 1. alpski coni se upošteva najmanj 1,2 kN/m<sup>2</sup>.

Informativna vrednost maksimalne debeline snežne odeje na tleh:

Vrsta snega	cm
Nov sneg (suh sneg)	147,8
Uležan sneg (več dni)	73,9
Star sneg (več tednov)	49,3
Moker sneg	36,9

ENOKAPNI



Slika 5.2: Oblikovni koeficient obtežbe snega pri enokapnici

Za trajna/začasna projektna sta-

$$S = \mu_i C_e C_t S_k$$

$S =$	<u>1,182</u>	$\text{kN/m}^2$
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Ovire proti zdrsni snega s strehe

DA

$\alpha$ (°)	0	naklon strehe
$C_e$	1	koeficient izpostavljenosti
$C_t$	1	toplotni koeficient
$\mu_1$	0,800	oblikovni koeficient

**OBTEŽBA VETRA:**

Dimenzije objekta:

višina:  m      naklon terena:   
 širina:  m  
 dolžina:  m

Projektna hitrost vetra:

$v_{0,b}$   m/s      =       km/h

faktor smeri:

$c_{dir}$        faktor letnega časa:  
 $c_{seson}$

Osnovna hitrost vetra:

$v_b$   m/s

Kategorija terena:        $Z_0$         $Z_{min}$         $k_r$

Faktor hrapavosti terena:

$c_r(z)$

Faktor hribovitosti terena:

$c_0(z)$

Srednja hitrost vetra:

$v_m(z)$   m/s

Vpliv turbulence (koeficient intenzitete turbulence):

$I_v(z)$         $k_1$

Količnik izpostavljenosti:

$c_e(z)$

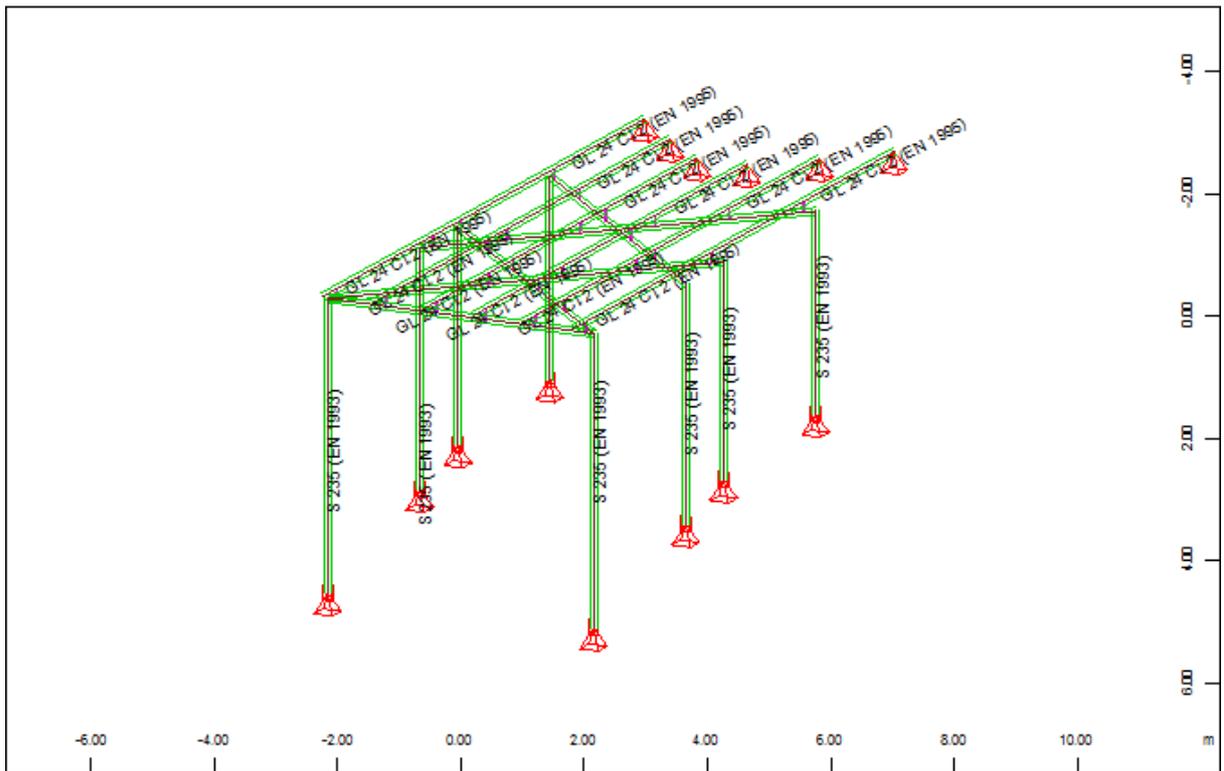
Statična obtežba pri sunkih vetra:

$q_b$   N/m<sup>2</sup>  
 $q_p$   N/m<sup>2</sup>      =       kN/m<sup>2</sup>

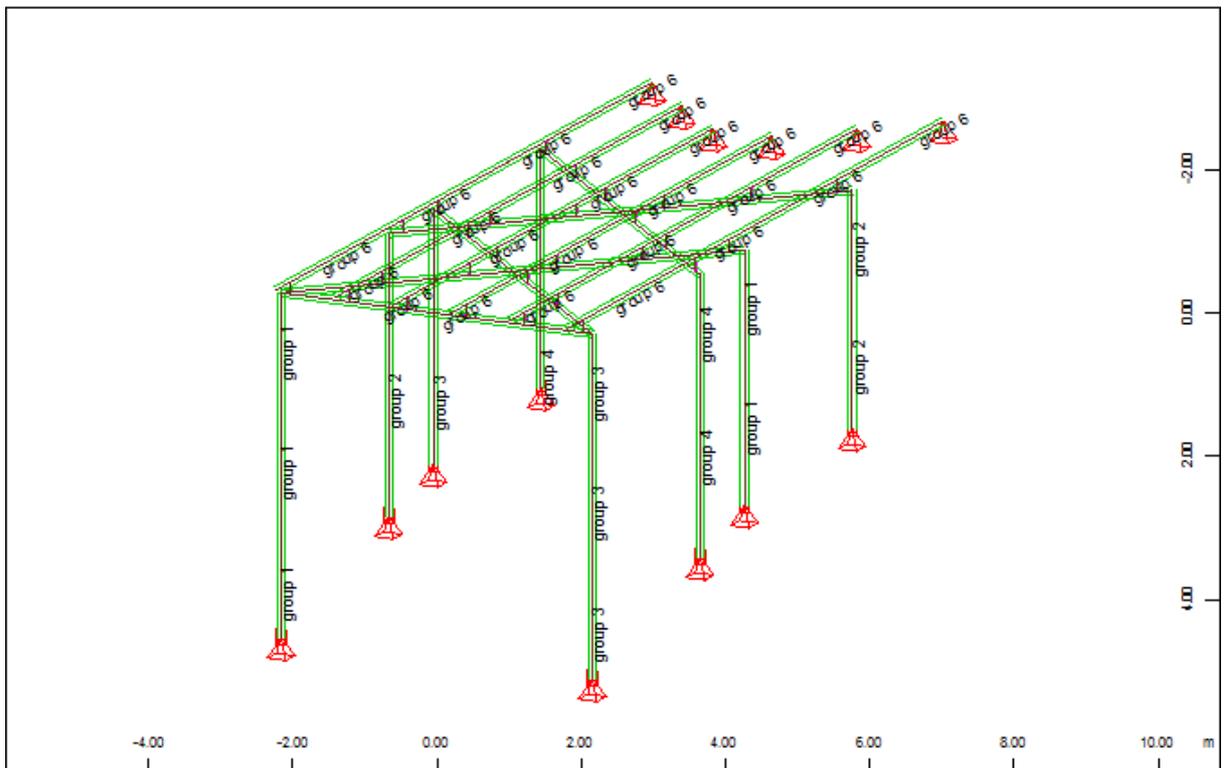
		Koeficient neto tlaka $c_{p,net}$			
		Razdelitev na področja			
Nagib $\alpha$	Zapolnjenost $\phi$	Koeficient celotne sile $c_s$	Področje A	Področje B	Področje C
$\theta^\circ$	Maksimum vsi $\phi$ Minimum $\phi = 0$ Minimum $\phi = 1$	+0,2 -0,5 -1,3	+0,5 -0,6 -1,5	+1,8 -1,3 -1,8	+1,1 -1,4 -2,2

$$w_i = q_p(z_i) \cdot c_{pi}$$

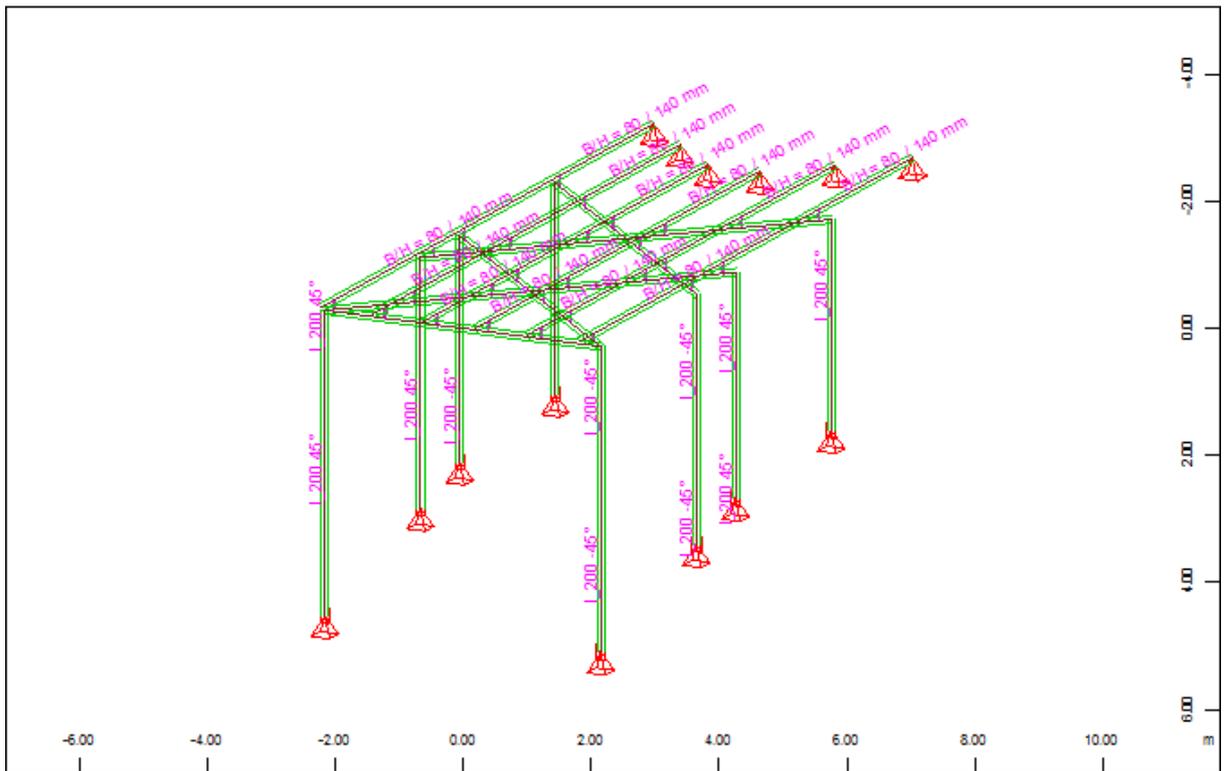
## KONSTRUKCIJA



M 1 : 110  
 X = 0.502  
 Y = 0.905  
 Z = 0.962



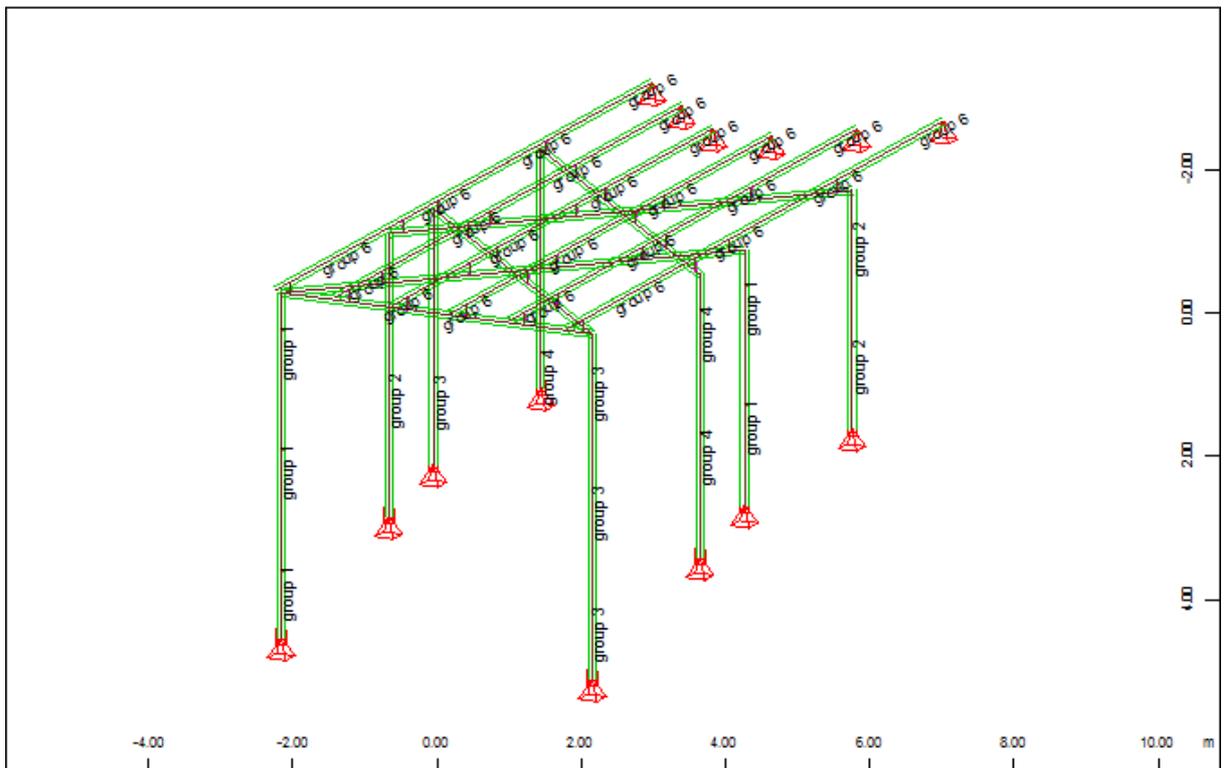
M 1 : 94  
 X = 0.502  
 Y = 0.906  
 Z = 0.962



Sectional Designations, Beam Elements

M 1 : 108

X = 0.502  
 Y = 0.905  
 Z = 0.962

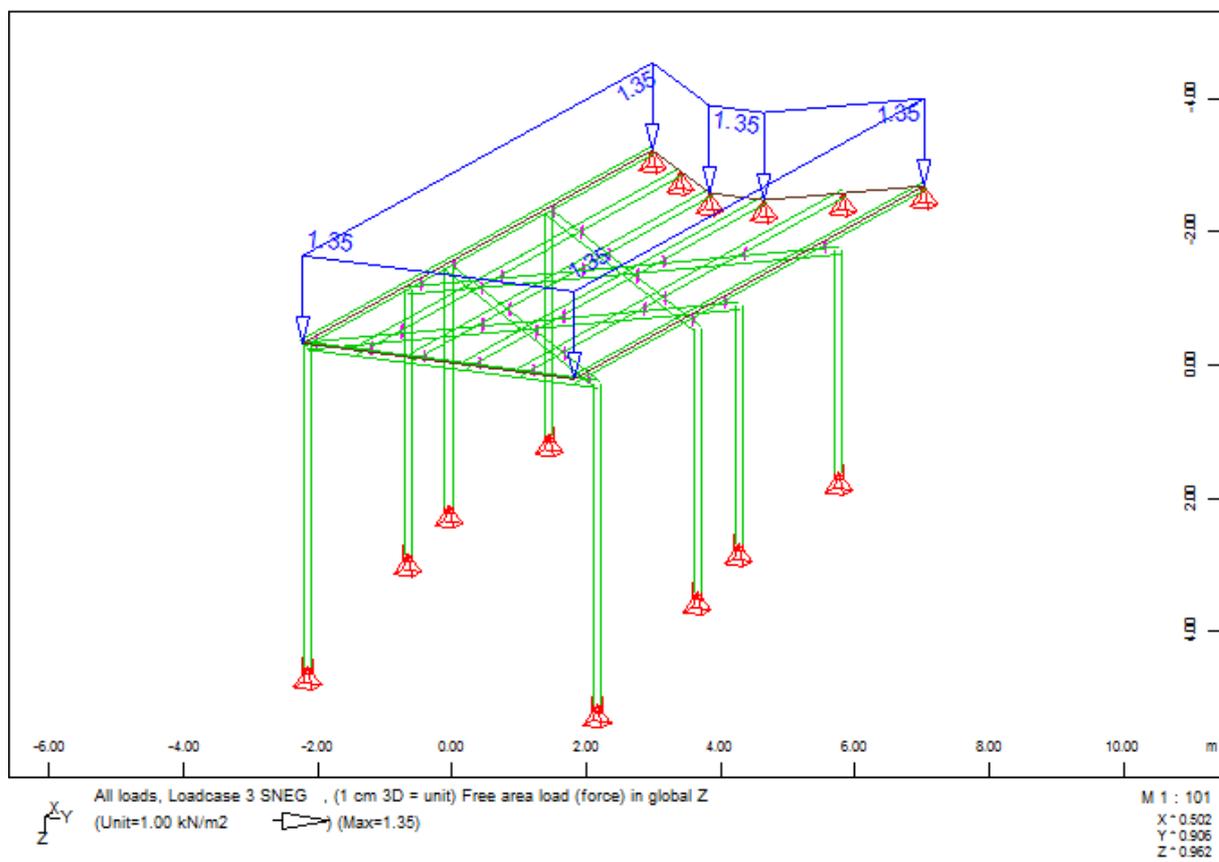
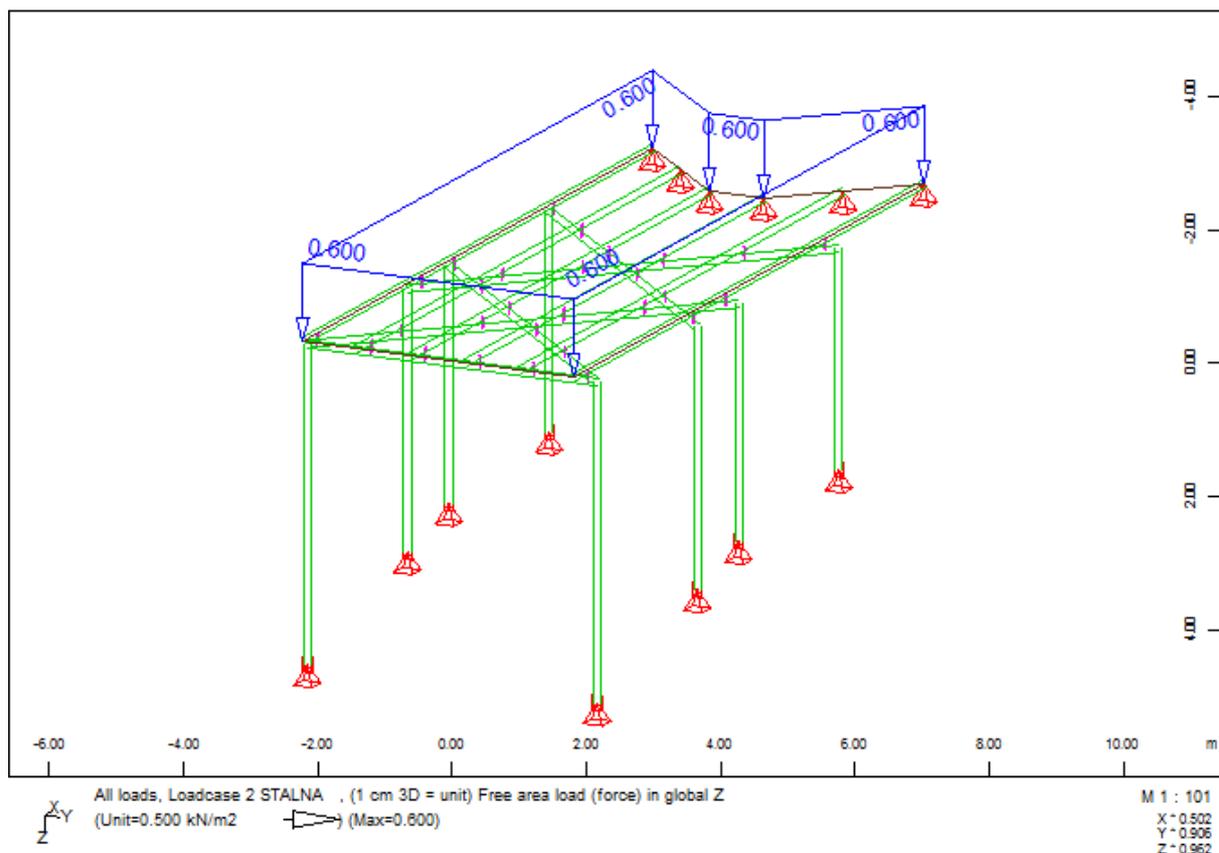


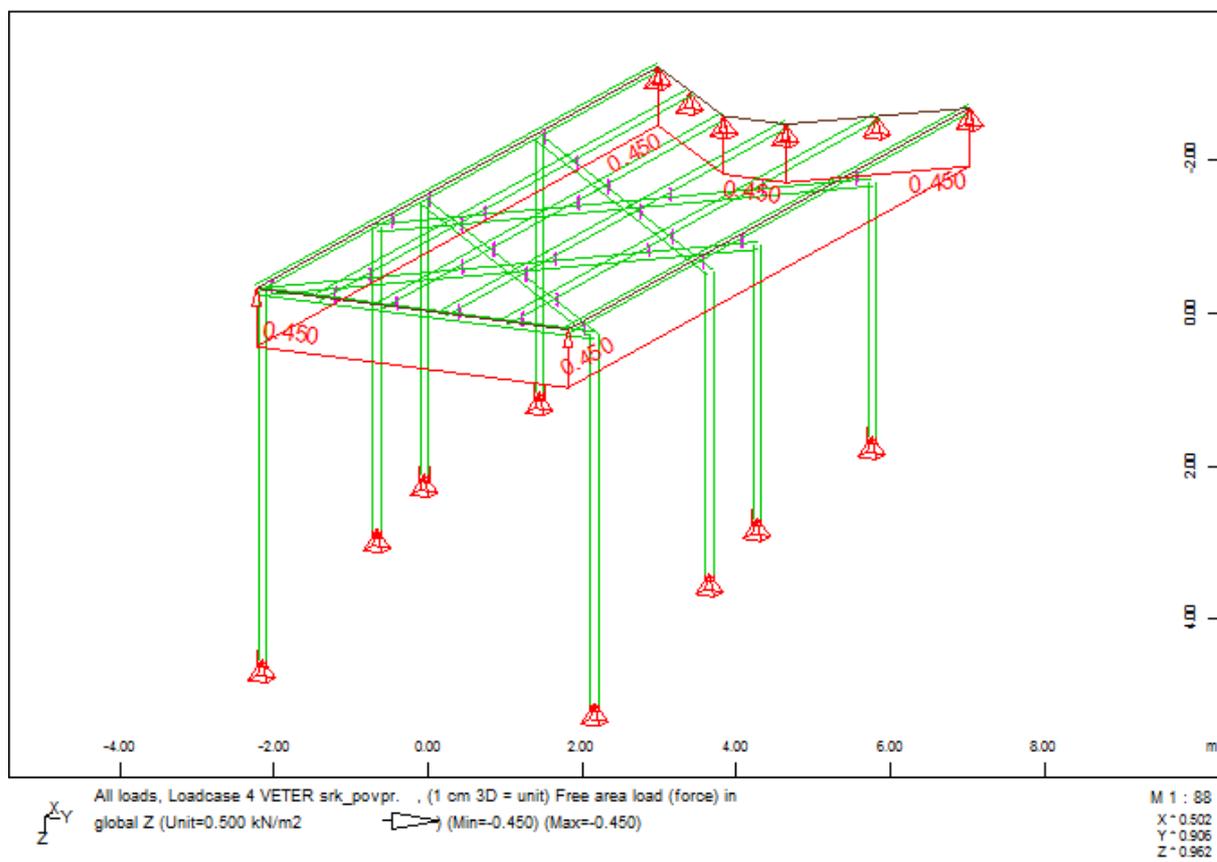
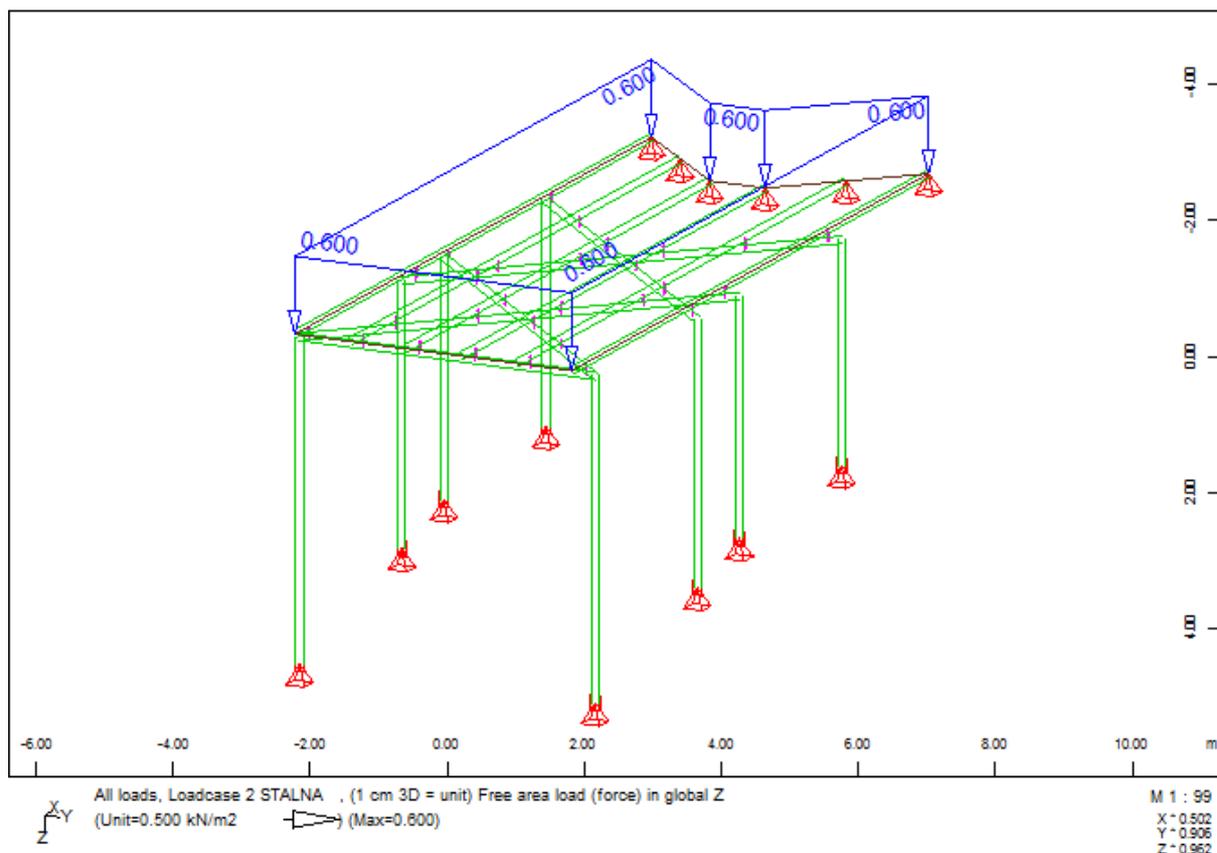
Designation of groups, Beam Elements, Kinematic Constraints

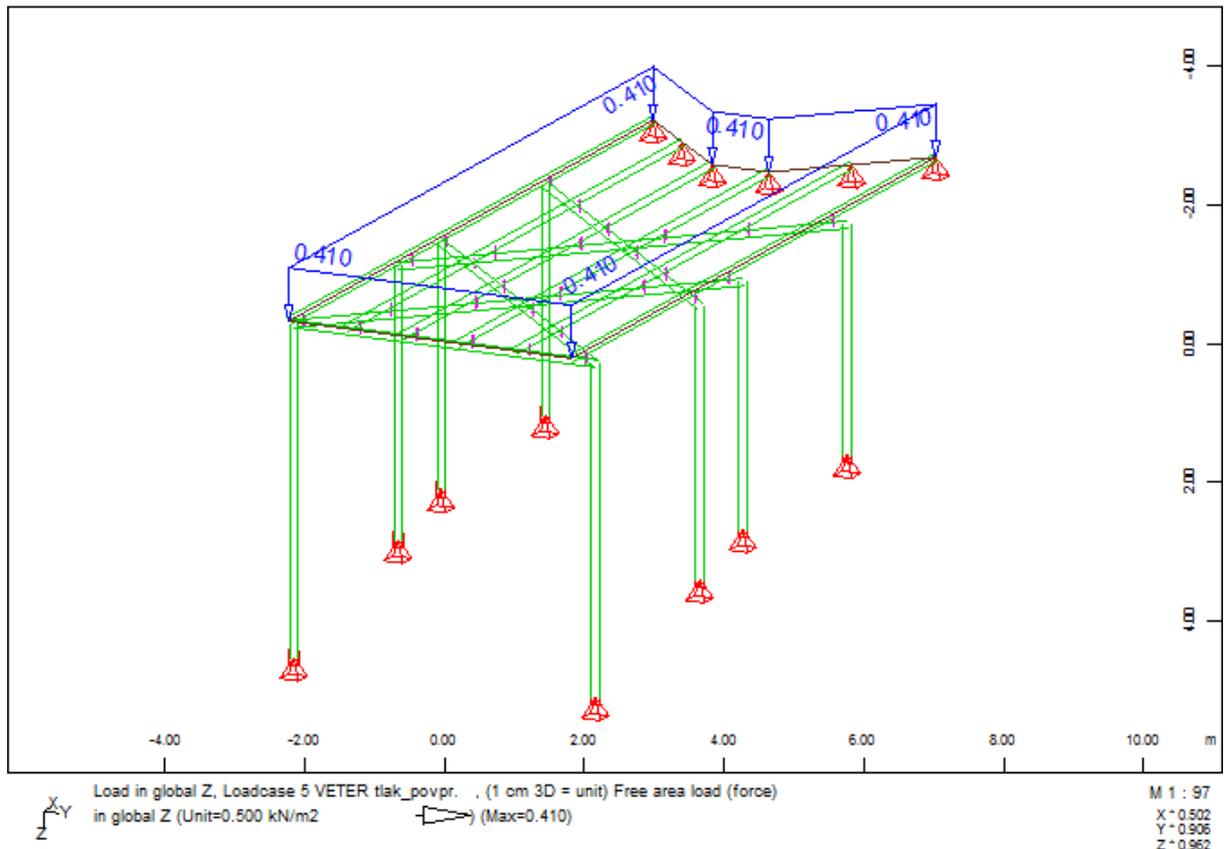
M 1 : 94

X = 0.502  
 Y = 0.906  
 Z = 0.962

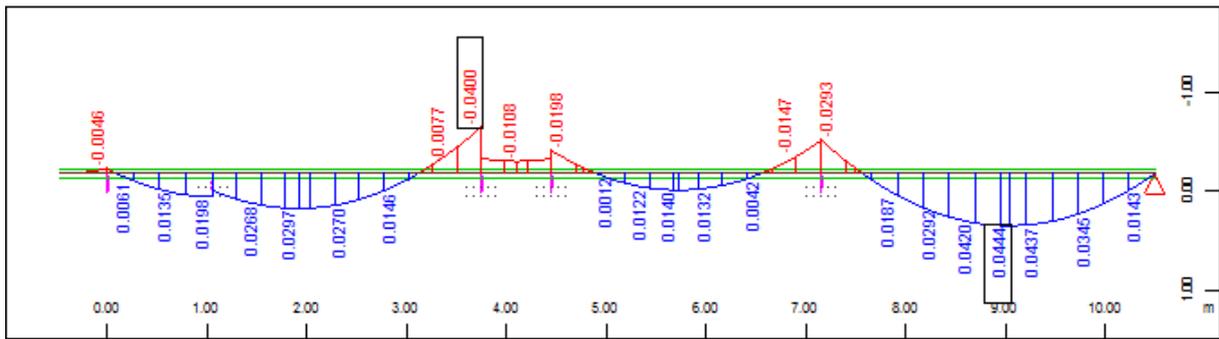
## OBTEŽBA





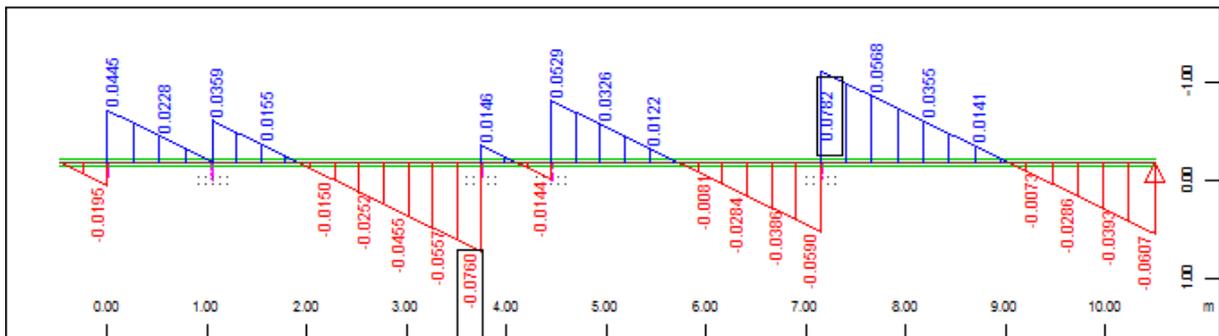


## NSK-LESENI DEL



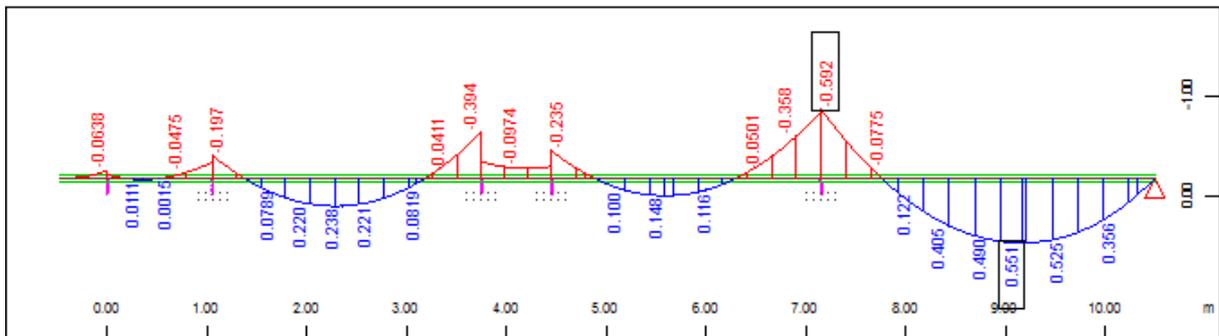
Sector of system Group 6  
 Beam Elements , Bending moment My, Loadcase 1 lastna teza , 1 cm 3D = 0.0574 kNm  
 (Min=-0.0400) (Max=0.0444)

M 1 : 68



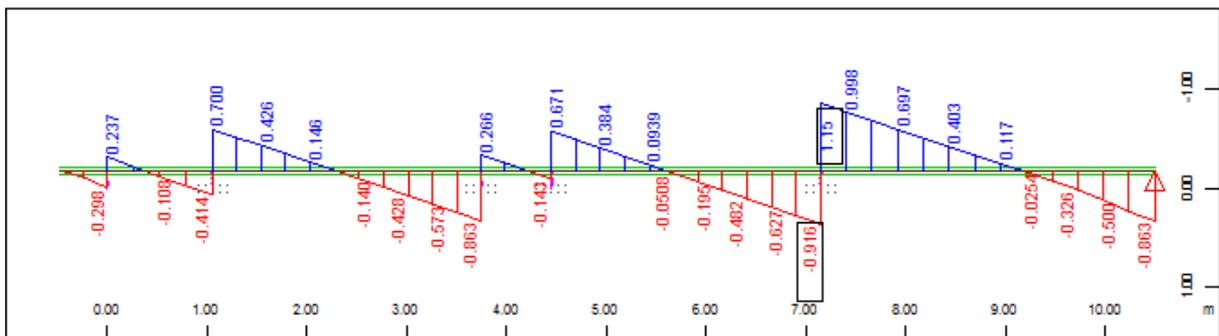
Sector of system Group 6  
 Beam Elements , Shear force Vz, Loadcase 1 lastna teza , 1 cm 3D = 0.0574 kN  
 (Min=-0.0760) (Max=0.0782)

M 1 : 68



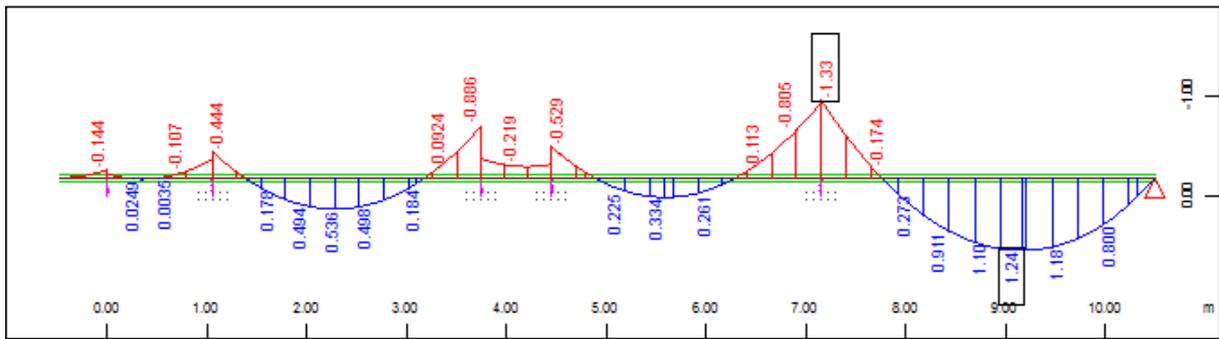
Sector of system Group 6  
 Beam Elements , Bending moment My, Loadcase 2 STALNA , 1 cm 3D = 0.574 kNm (Min=-0.592)  
 (Max=0.551)

M 1 : 68



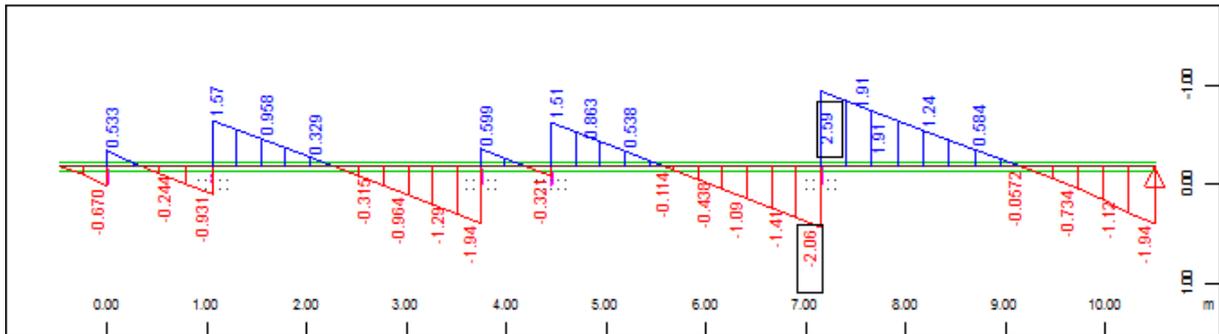
Sector of system Group 6  
 Beam Elements , Shear force Vz, Loadcase 2 STALNA , 1 cm 3D = 1.15 kN (Min=-0.916)  
 (Max=1.15)

M 1 : 68



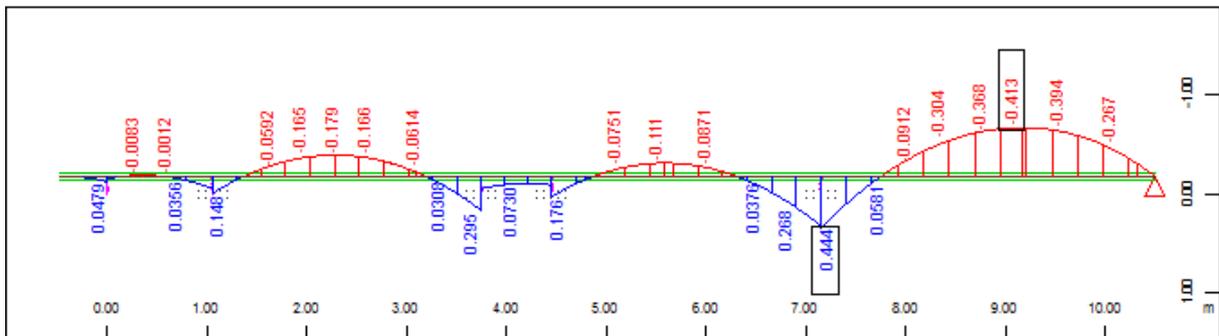
Sector of system Group 6  
Beam Elements , Bending moment My, Loadcase 3 SNEG , 1 cm 3D = 1.15 kNm (Min=-1.33)  
(Max=1.24)

M 1 : 68



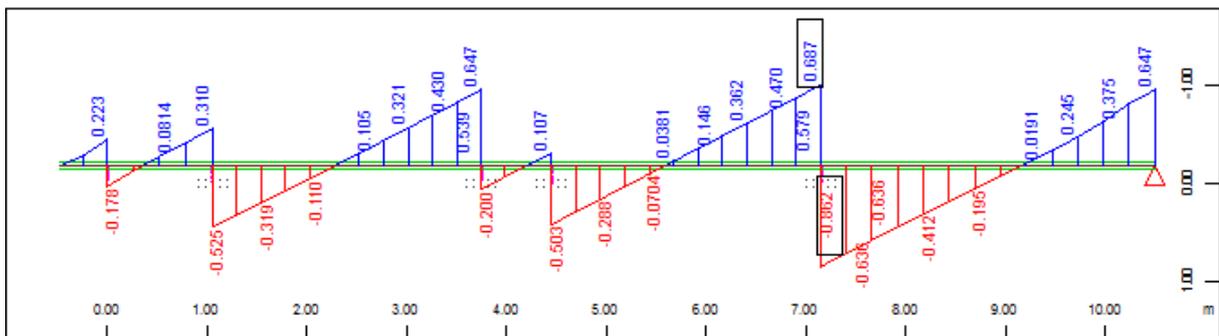
Sector of system Group 6  
Beam Elements , Shear force Vz, Loadcase 3 SNEG , 1 cm 3D = 2.30 kN (Min=-2.06) (Max=2.59)

M 1 : 68



Sector of system Group 6  
Beam Elements , Bending moment My, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 0.574 kNm  
(Min=-0.413) (Max=0.444)

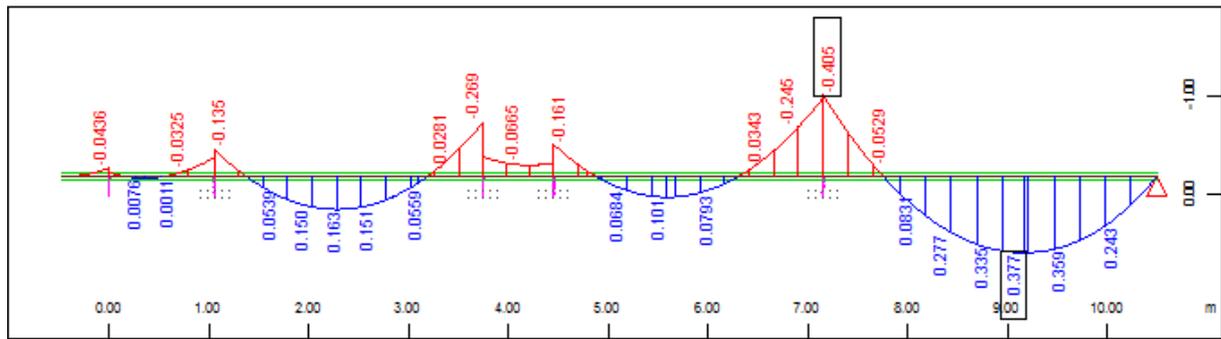
M 1 : 68



Sector of system Group 6  
Beam Elements , Shear force Vz, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 0.574 kN  
(Min=-0.862) (Max=0.687)

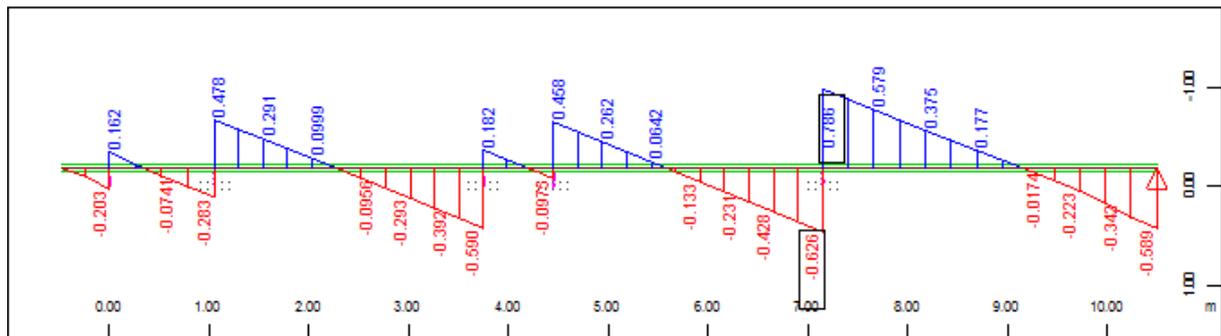
M 1 : 68

UROŠ ŽVAN s.p., ZRKOVSKA 75, 2000 MARIBOR



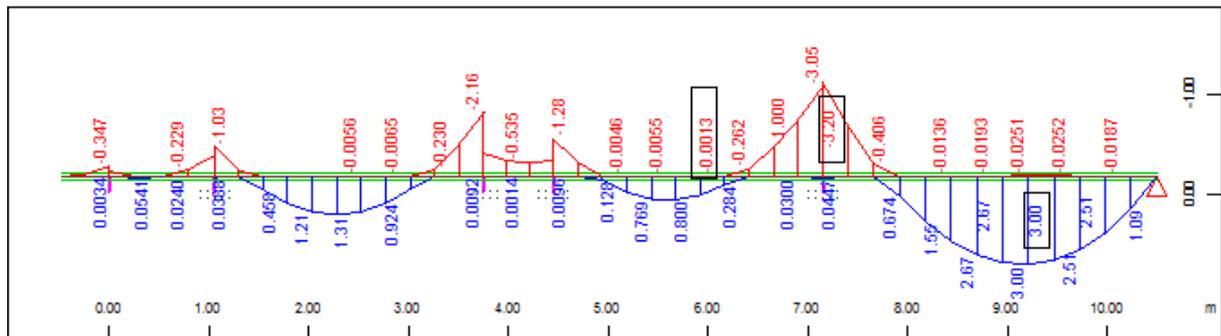
Sector of system Group 6  
Beam Elements , Bending moment  $M_y$ , Loadcase 5 VETER tlak\_povpr. , 1 cm 3D = 0.333 kNm  
(Min=-0.405) (Max=0.377)

M 1 : 68



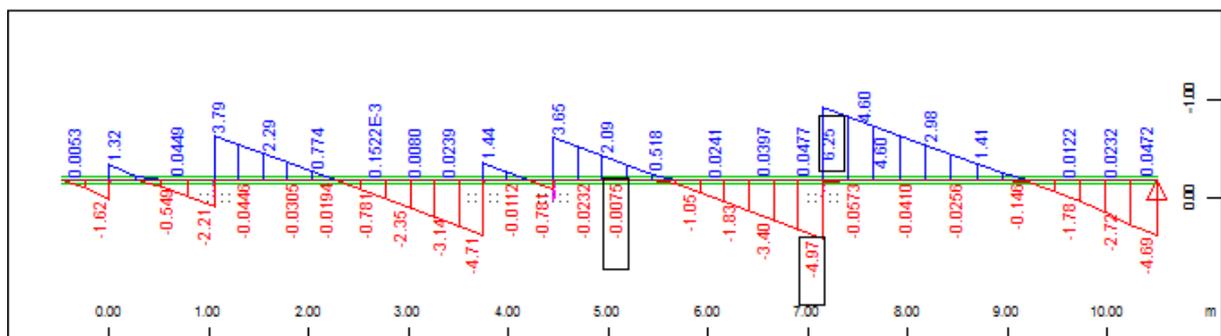
Sector of system Group 6  
Beam Elements , Shear force  $V_z$ , Loadcase 5 VETER tlak\_povpr. , 1 cm 3D = 0.684 kN  
(Min=-0.626) (Max=0.785)

M 1 : 68



Sector of system Group 6  
Beam Elements , Bending moment  $M_y$ , Loadcase 3329 MAX-MY BEAM , 1 cm 3D = 2.30 kNm  
(Min=-0.0028) (Max=3.00)

M 1 : 68



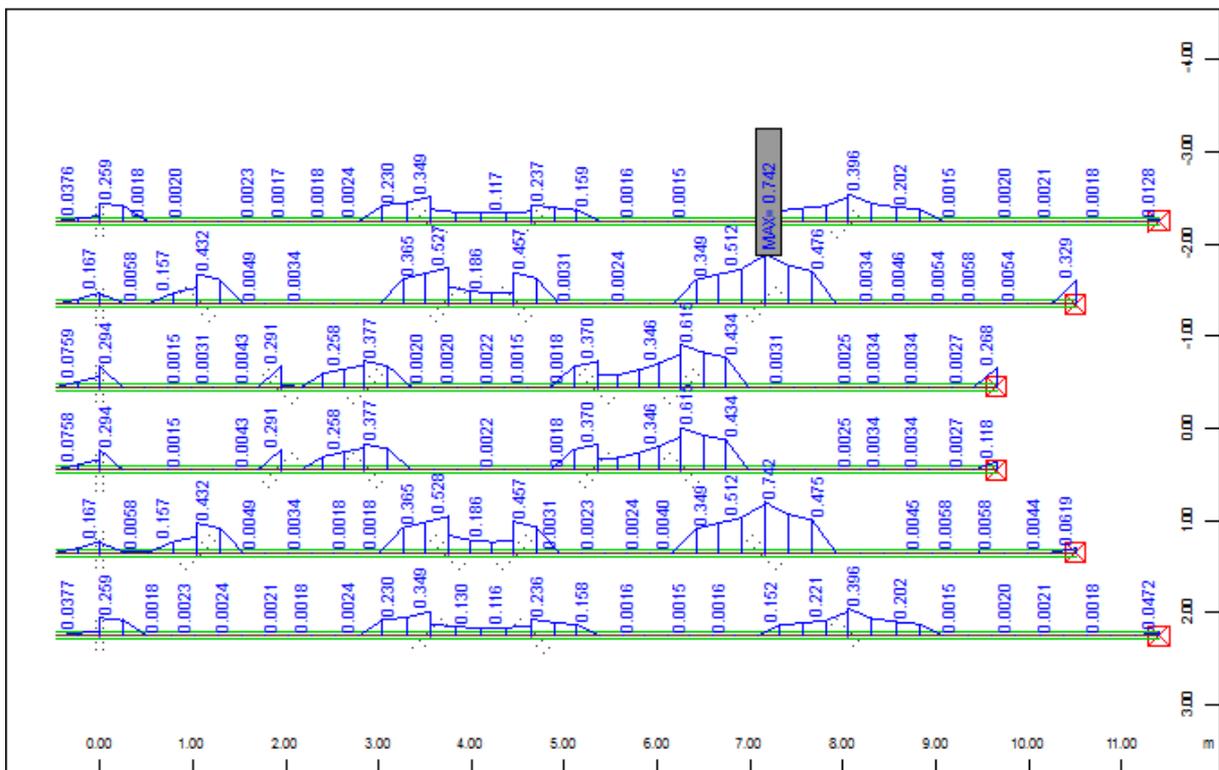
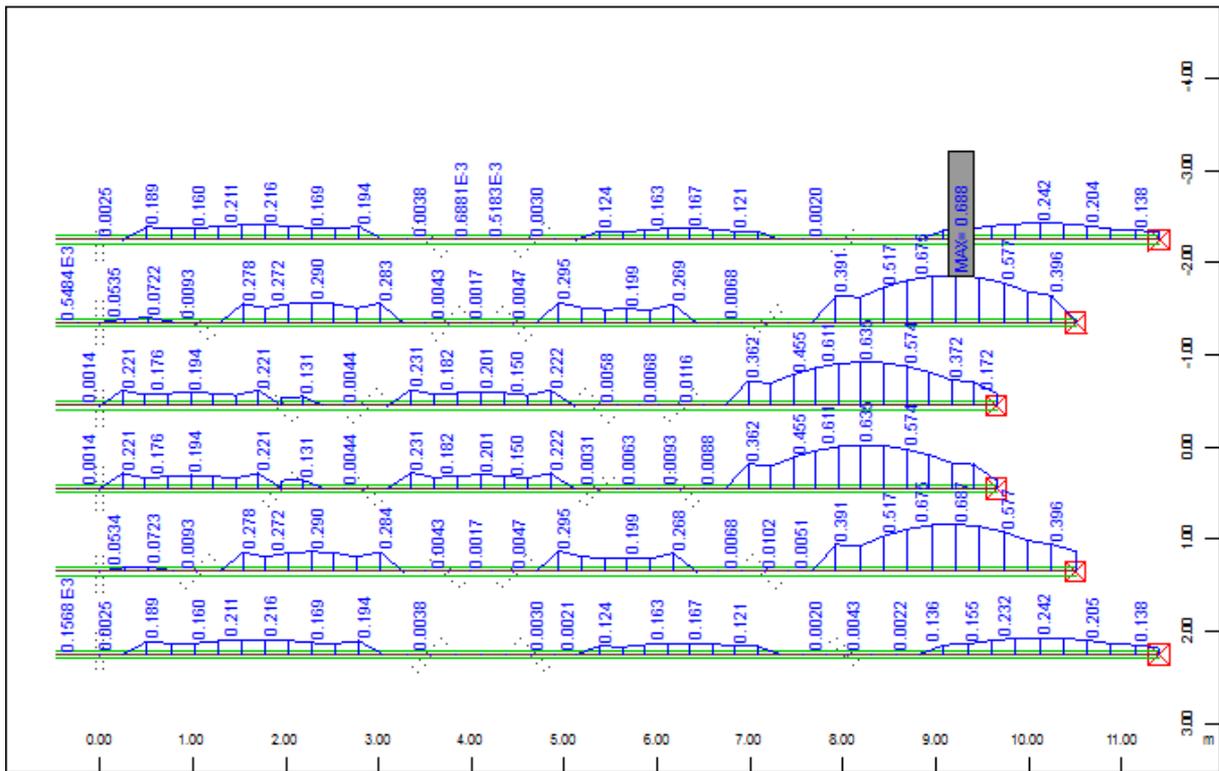
Sector of system Group 6  
Beam Elements , Shear force  $V_z$ , Loadcase 3325 MAX-VZ BEAM , 1 cm 3D = 5.74 kN  
(Min=-0.0077) (Max=6.25)

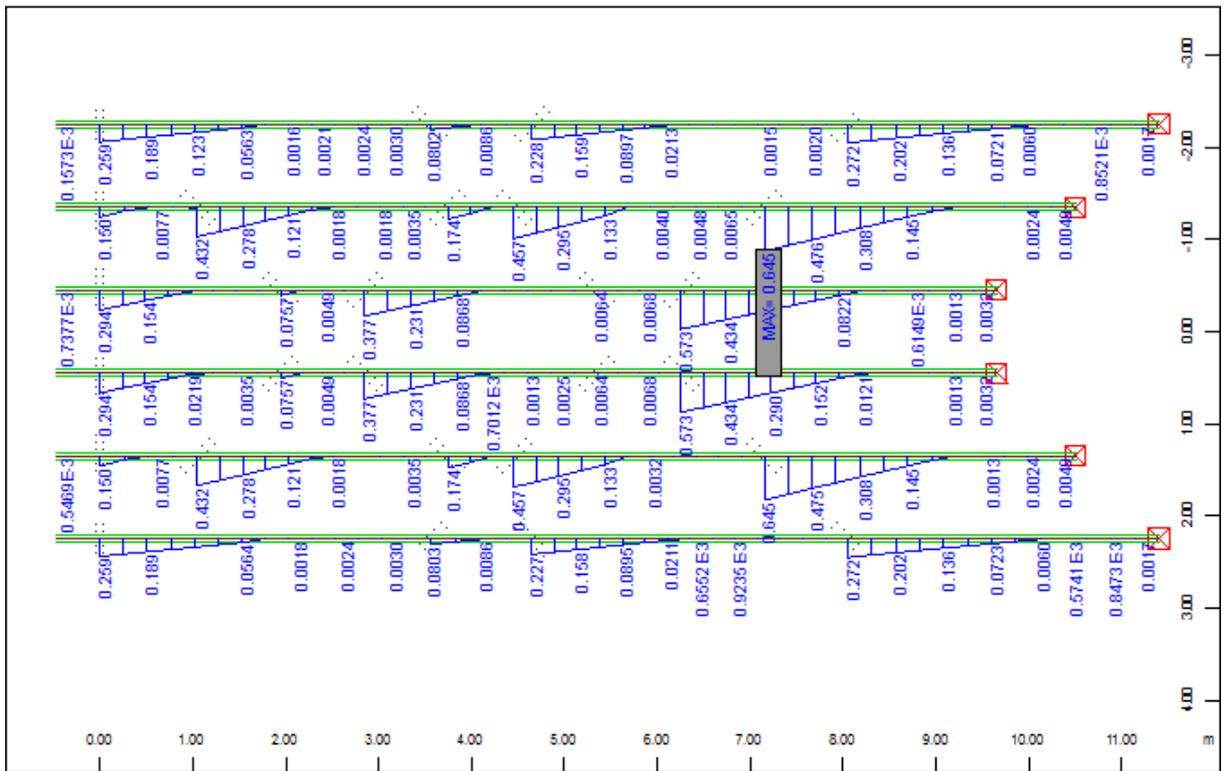
M 1 : 68

## NAPETOSTI-LESENI DEL



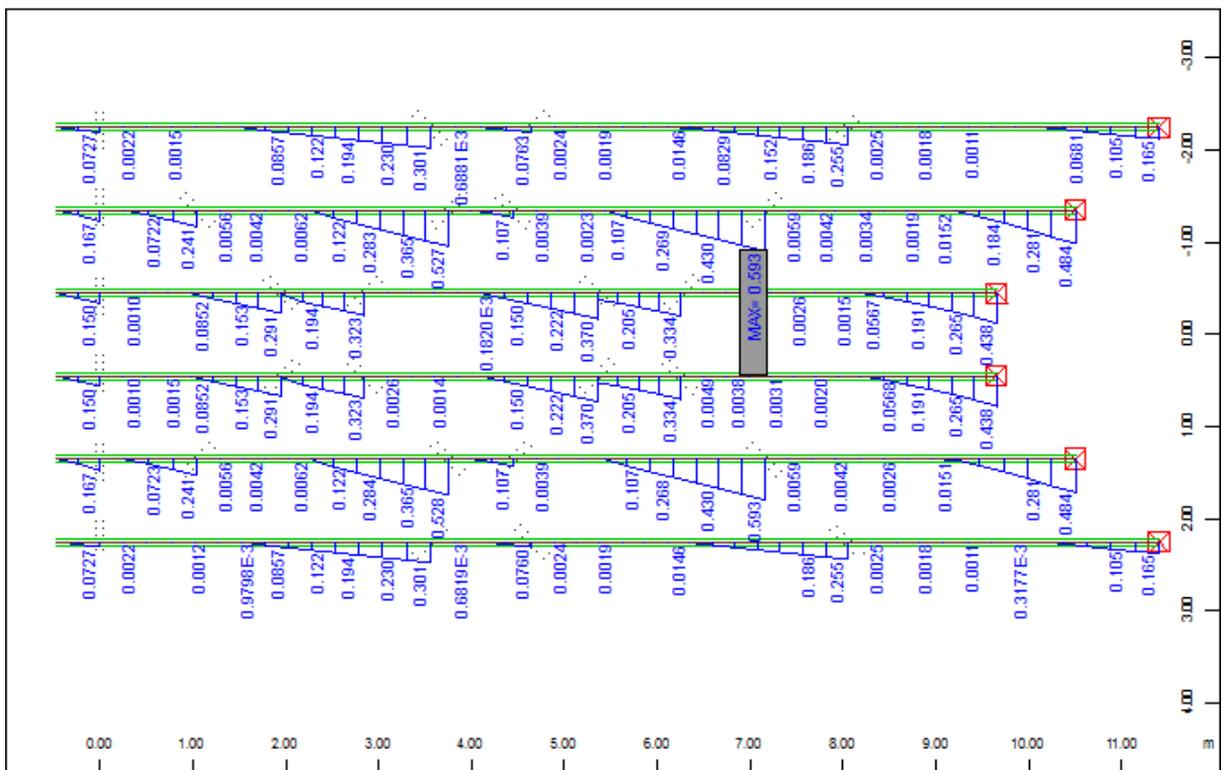
## ODPORNOST PREREZA-LESENI DEL





Sector of system Group 6  
Beam Elements , Utilisation level tau Shear stress, Design Case 3325 MAX-VZ BEAM , 1 cm  
3D = 0.980 (Max=0.645)

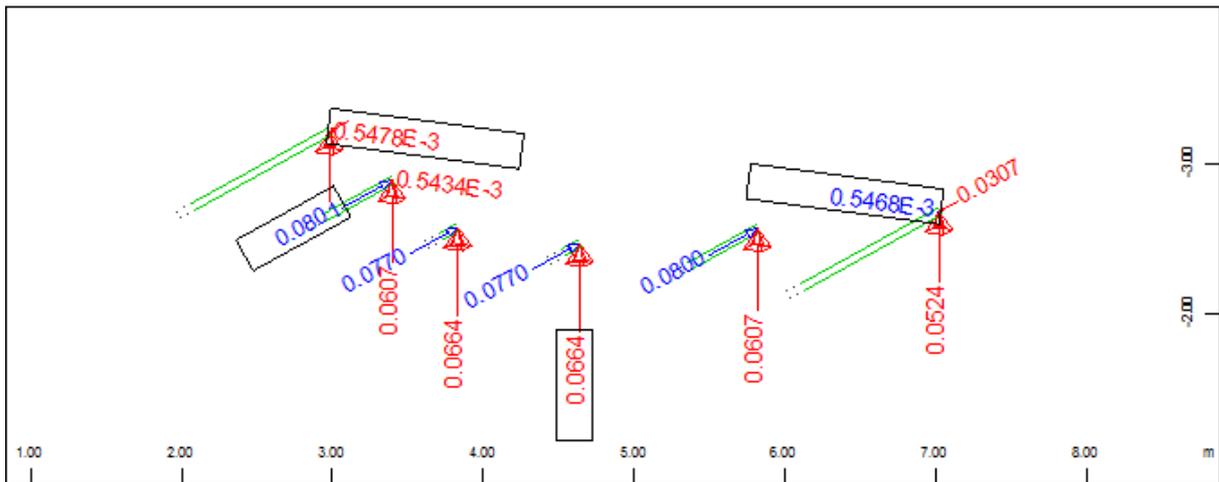
M 1 : 73



Sector of system Group 6  
Beam Elements , Utilisation level tau Shear stress, Design Case 3326 MIN-VZ BEAM , 1 cm  
3D = 0.980 (Max=0.593)

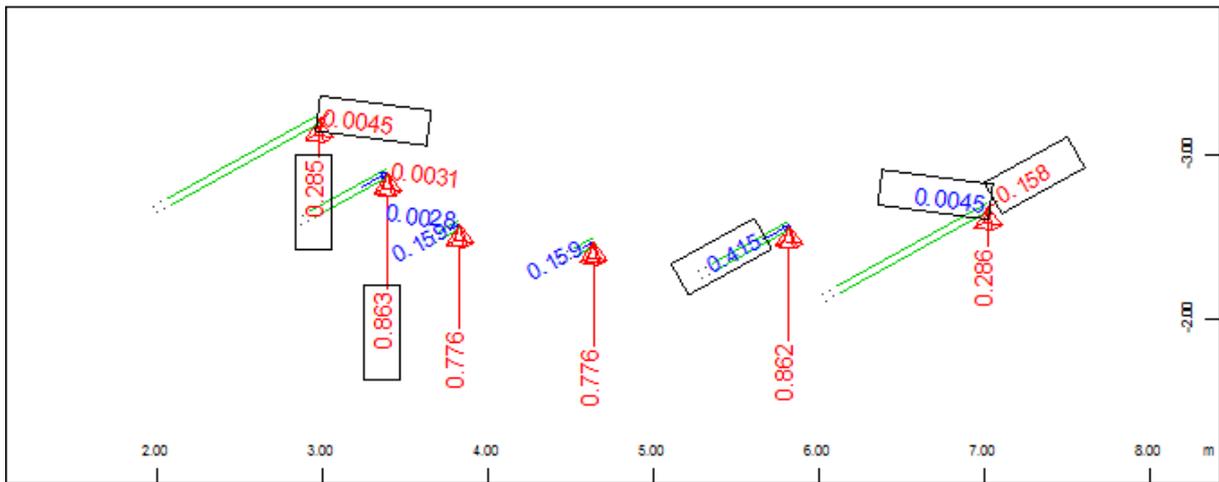
M 1 : 73

## REAKCIJE-LESENI DEL



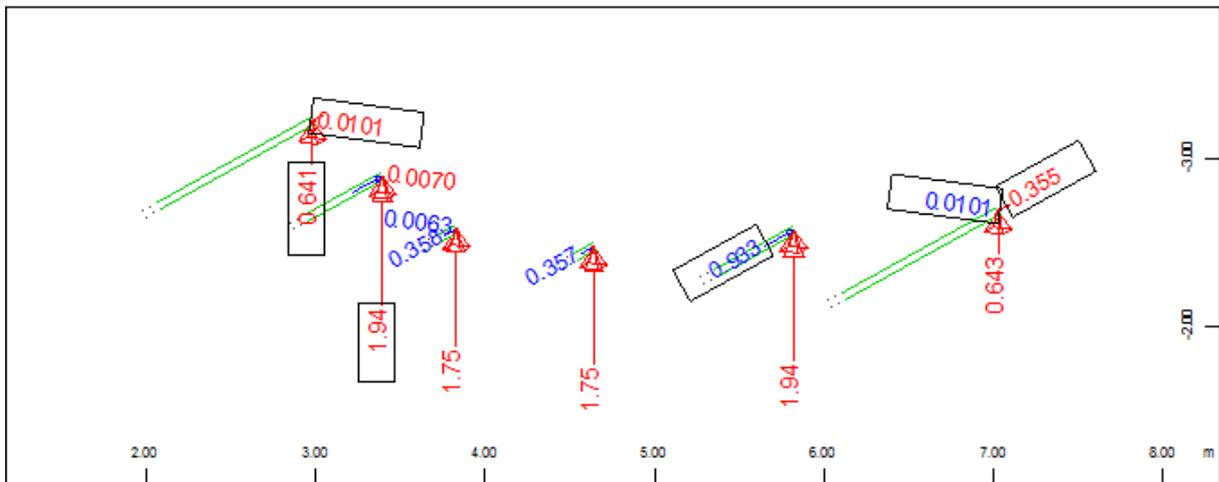
Sector of system Beam Elements  
Nodes , Support force components in global directions, Loadcase 1 lastna teža , 1 cm 3D =  
0.0484 kN (Min=-0.0664) (Max=0.0801) (total: 0.253/-3.0814e-06/-0.359)

M 1 : 45  
X = 0.502  
Y = 0.906  
Z = 0.962



Sector of system Beam Elements  
Nodes , Support force components in global directions, Loadcase 2 STALNA , 1 cm 3D =  
0.484 kN (Min=-0.883) (Max=0.415) (total: 0.831/-1.8022e-05/-3.85)

M 1 : 41  
X = 0.502  
Y = 0.906  
Z = 0.962

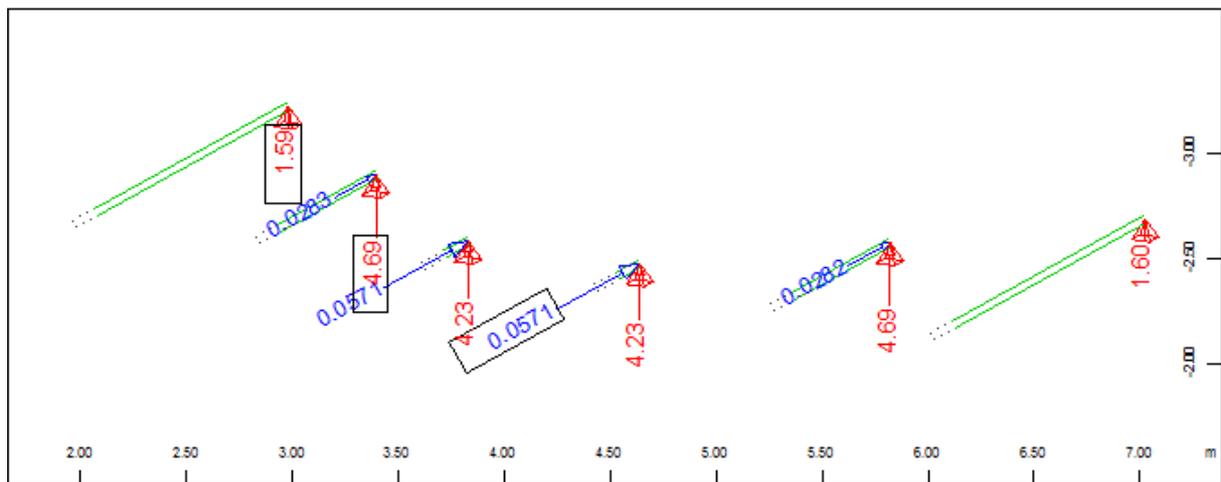


Sector of system Beam Elements  
Nodes , Support force components in global directions, Loadcase 3 SNEG , 1 cm 3D = 0.969  
kN (Min=-1.94) (Max=0.933) (total: 1.87/-3.8048e-05/-3.86)

M 1 : 40  
X = 0.502  
Y = 0.906  
Z = 0.962

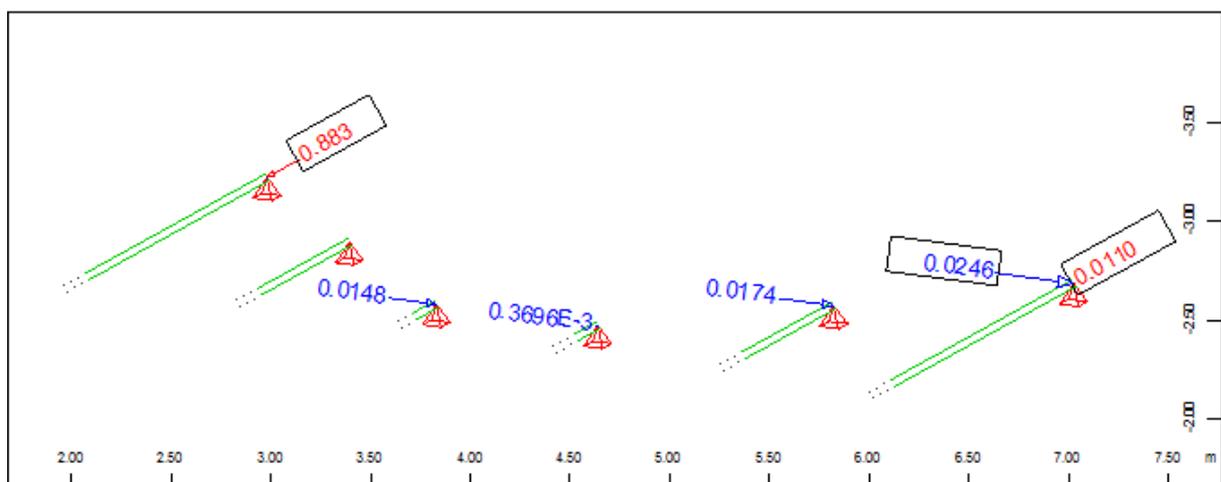


M 1 : 40  
X = 0.502  
Y = 0.906  
Z = 0.962



Sector of system Beam Elements  
 Nodes , Support force in global X, Loadcase 3355 MAX-PZ NODE , 1 cm 3D = 0.0203 kN  
 (Min=-0.0110) (Max=0.0571) (total: 0.149)

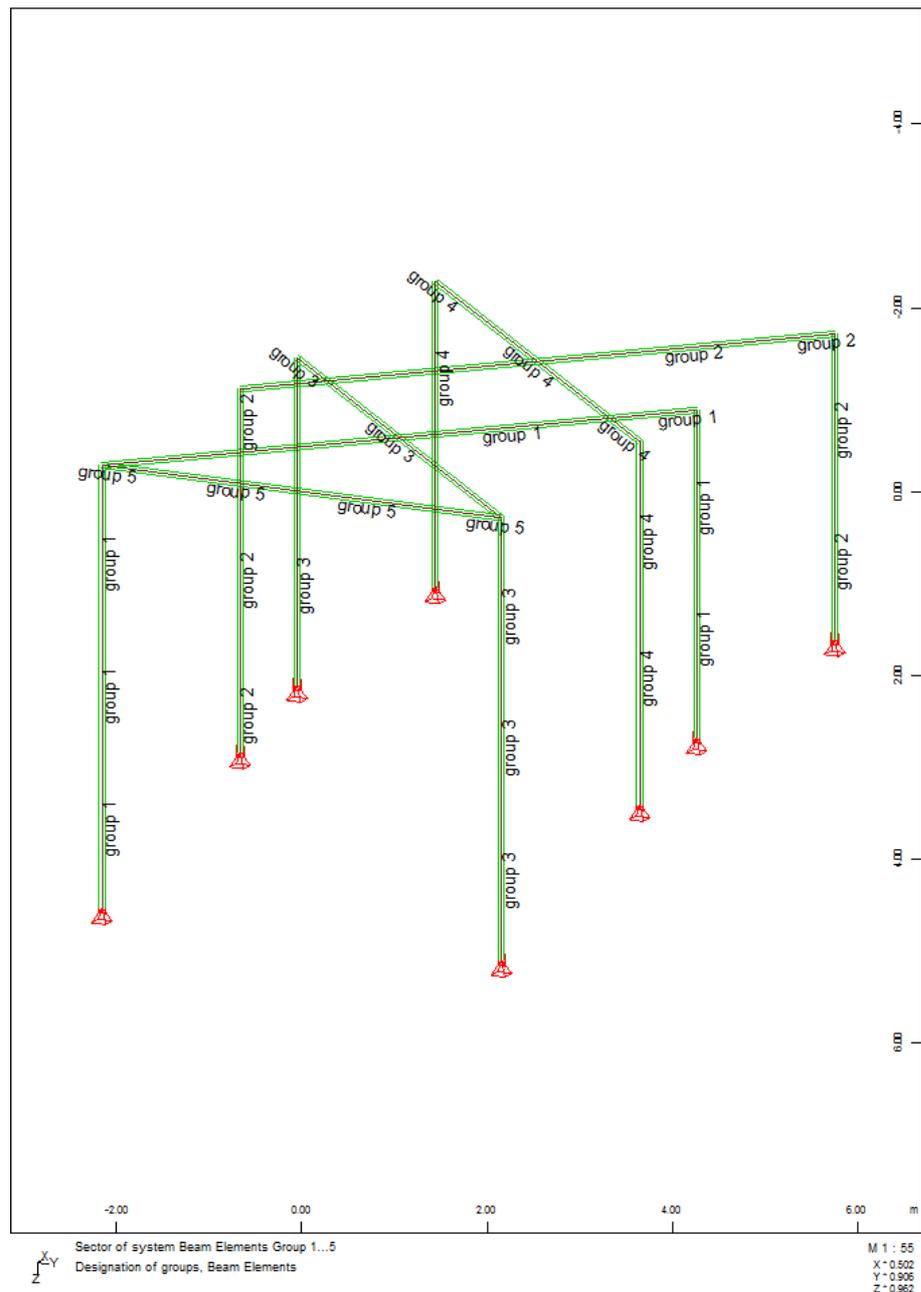
M 1 : 32  
 X = 0.502  
 Y = 0.906  
 Z = 0.962



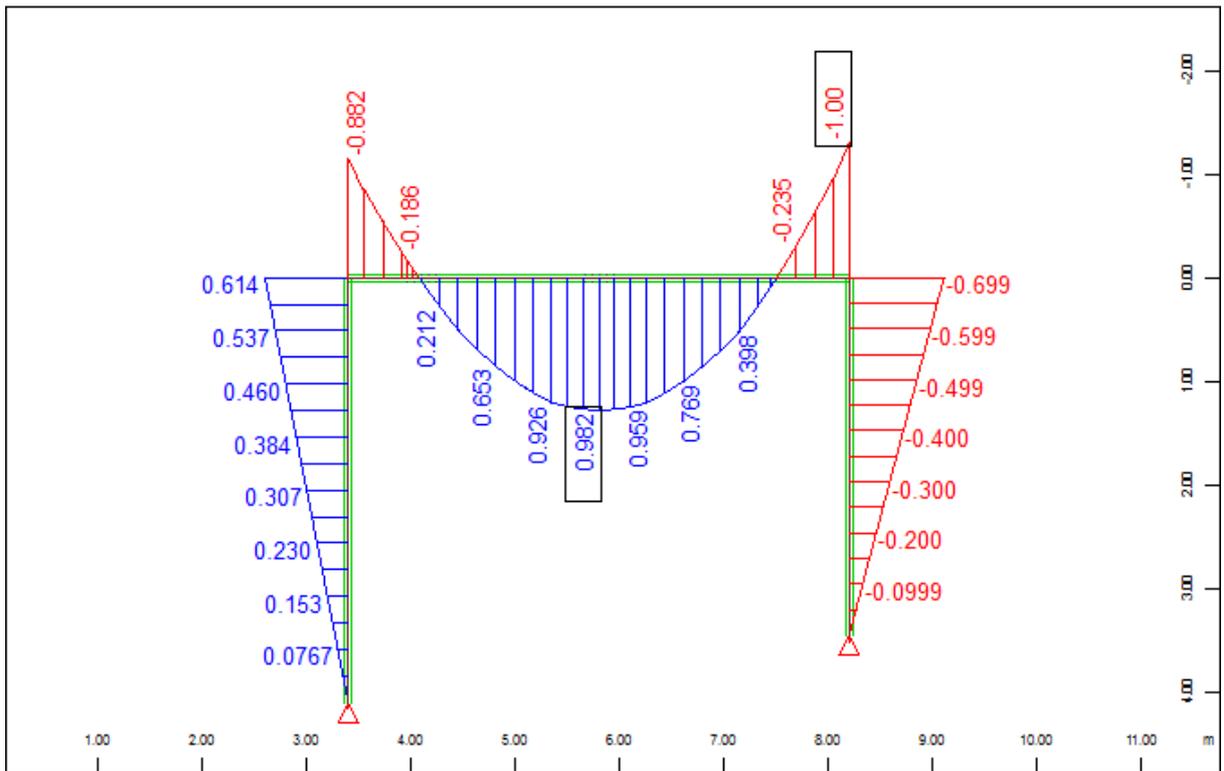
Sector of system Beam Elements  
 Nodes , Support force in global X, Loadcase 3354 MIN-PY NODE , 1 cm 3D = 0.812 kN  
 (Min=-0.883) (Max=2.32) (total: 2.46)

M 1 : 34  
 X = 0.502  
 Y = 0.906  
 Z = 0.962

## NSK-JEKLENI DEL

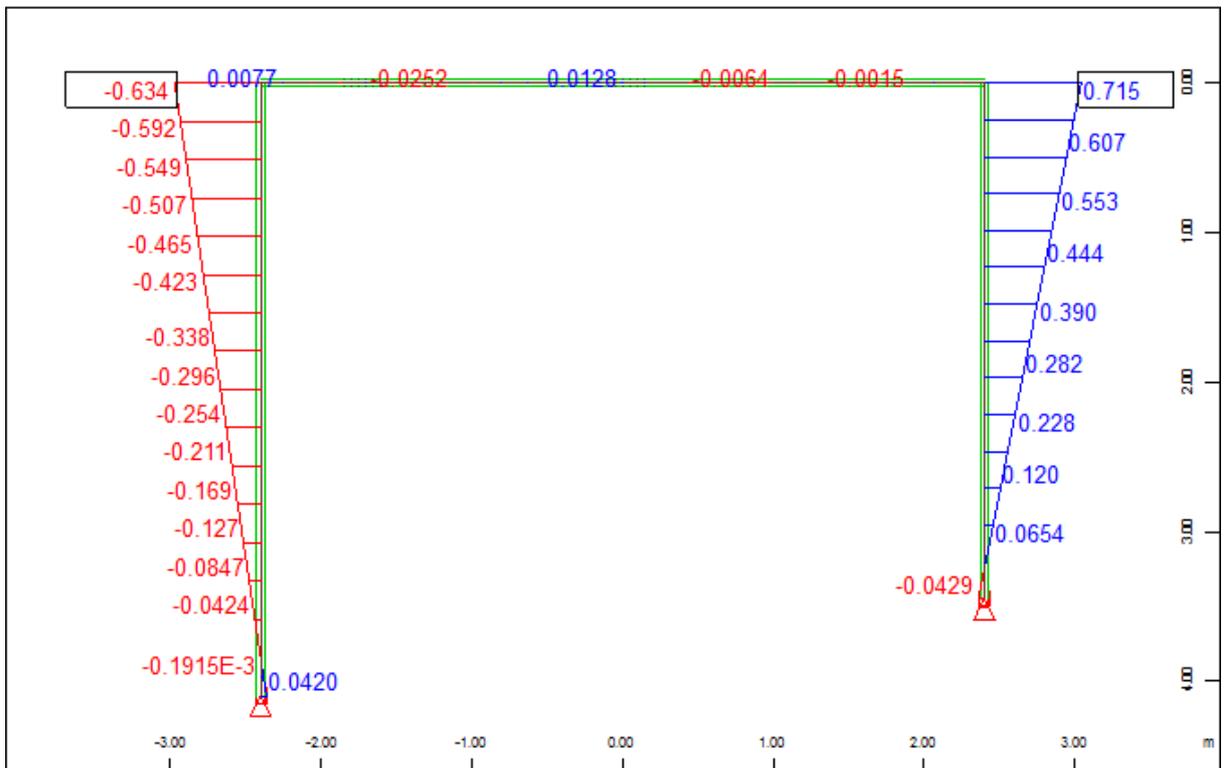


Okvir grupe 1 in 3 dobi enaki del obtežbe  
 Okvir grupe 2 in 4 dobita enaki del obtežbe  
 Prikazan je okvir grube 2, pri odpornosti na bočno zvrnitev pa še okvir 1 - samo rezultati za grupo 1 in 2.



Sector of system Group 2  
 Beam Elements , Bending moment My, Loadcase 1 lastna teza , 1 cm 3D = 0.500 kNm  
 (Min=-1.00) (Max=0.982)

M 1 : 65

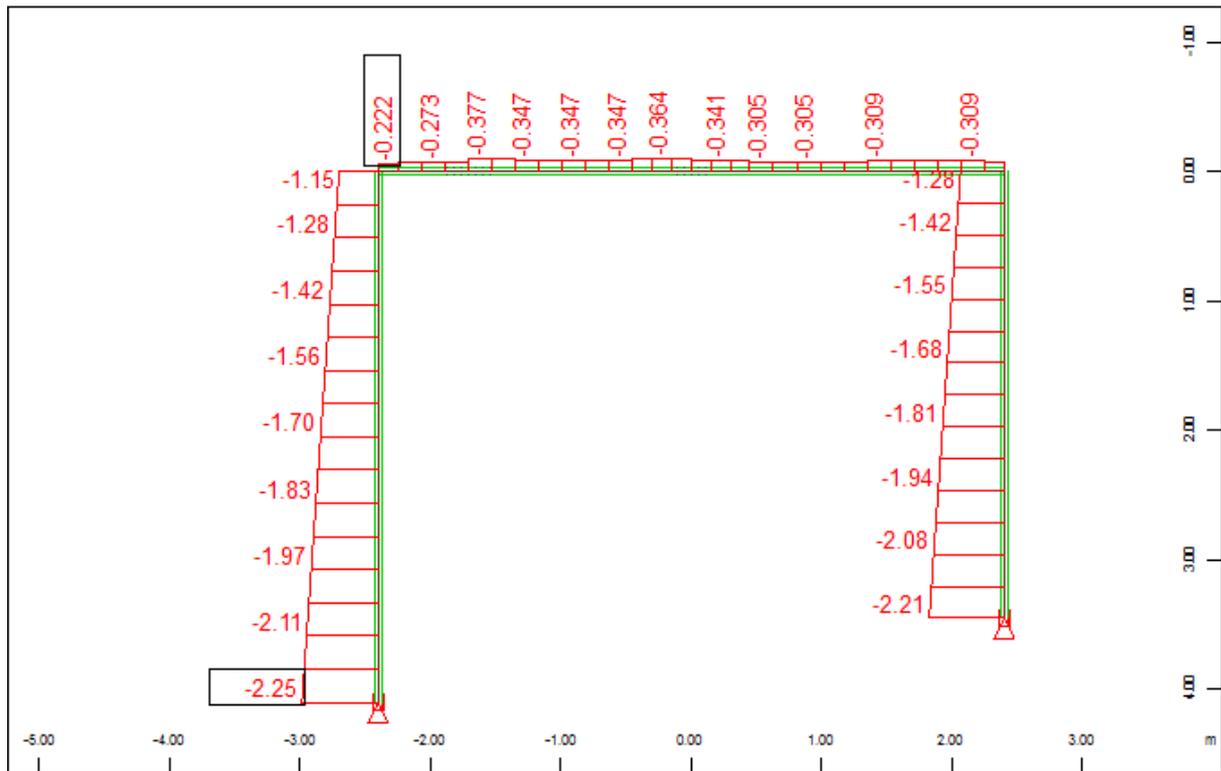


Sector of system Group 2  
 Beam Elements , Bending moment Mz, Loadcase 1 lastna teza , 1 cm 3D = 0.500 kNm  
 (Min=-0.634) (Max=0.715)

M 1 : 45

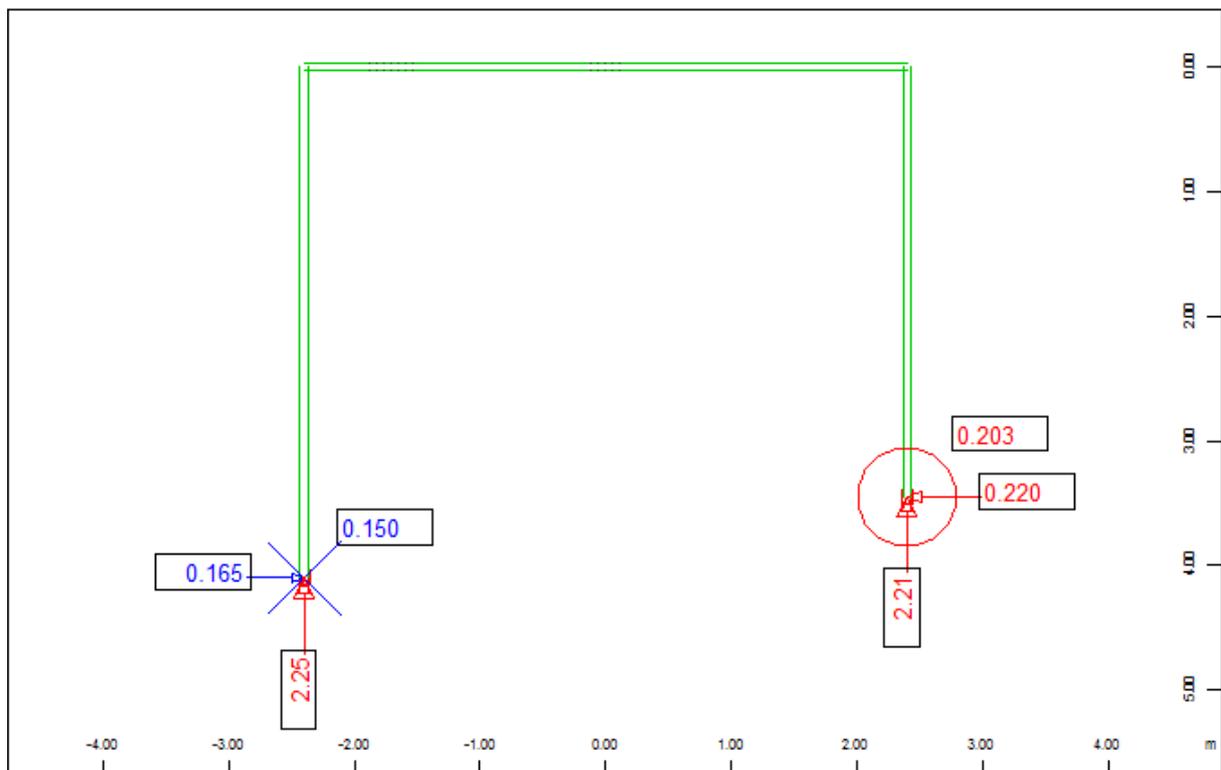


5 4 .



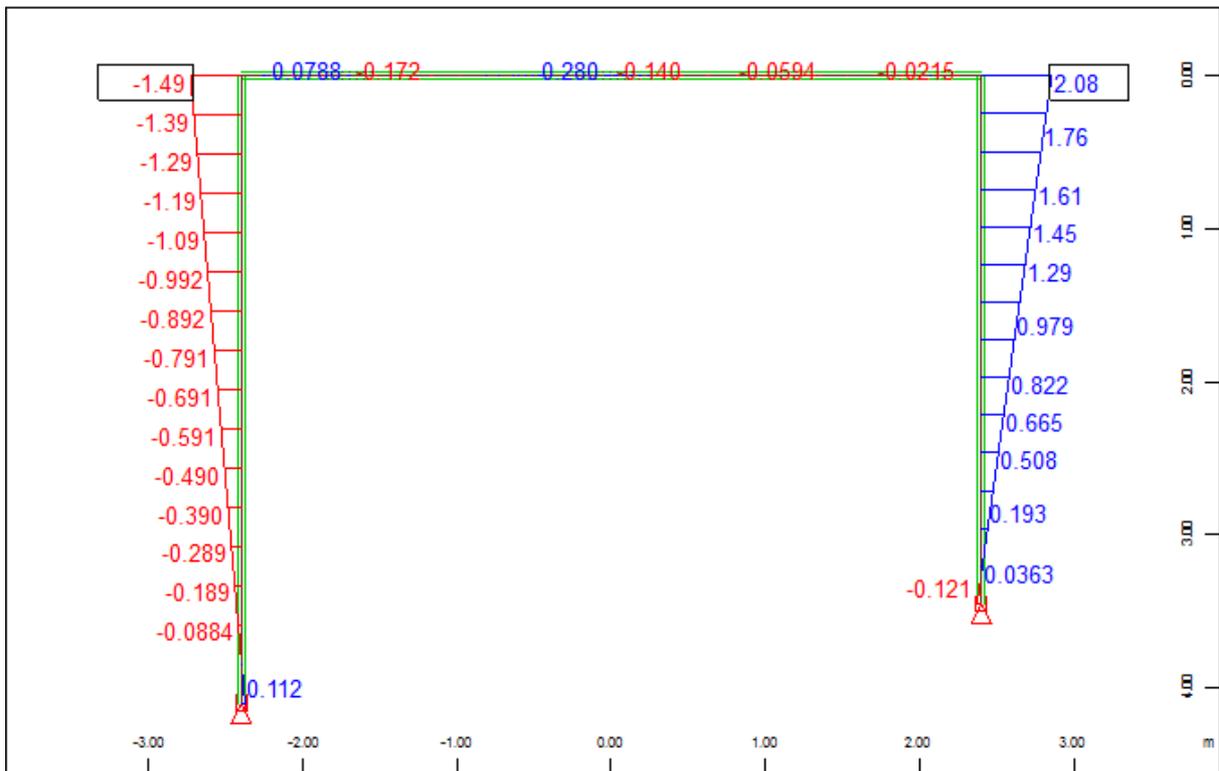
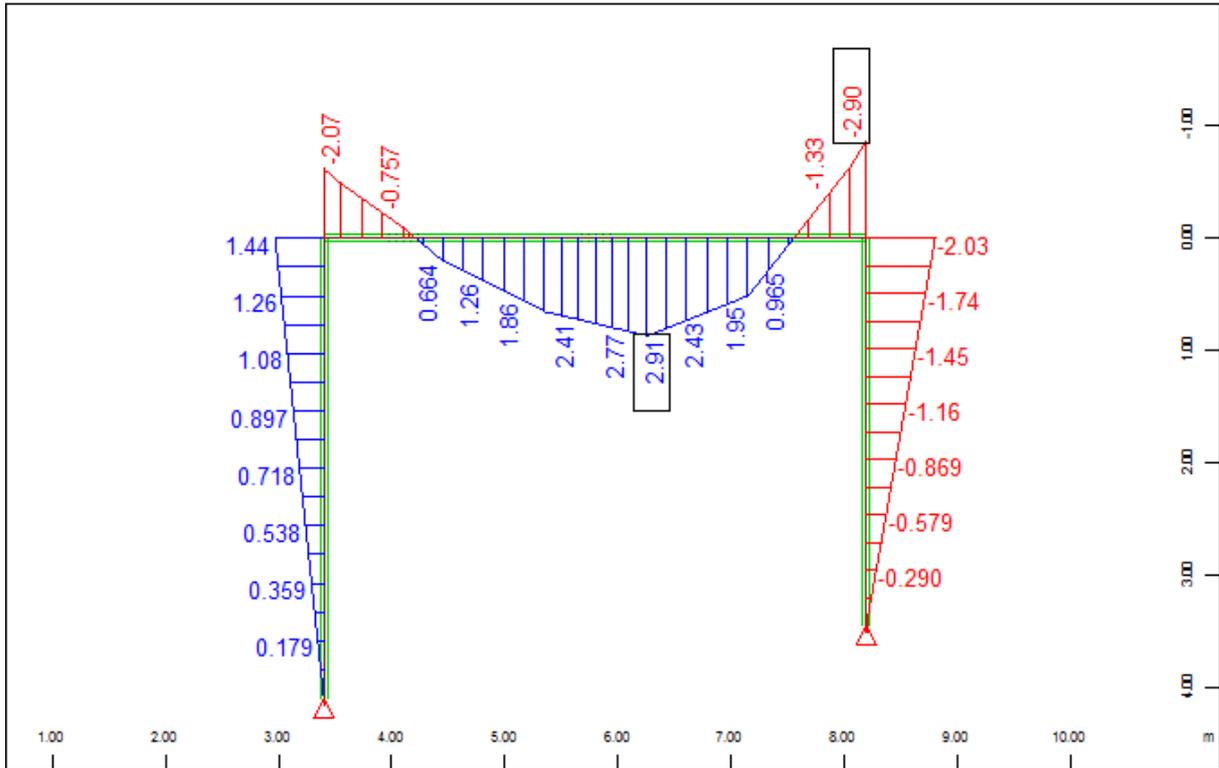
Sector of system Group 2  
Beam Elements , Normal force Nx, Loadcase 1 lastna teza , 1 cm 3D = 2.00 kN (Min=-2.25)  
(Max=-0.222)

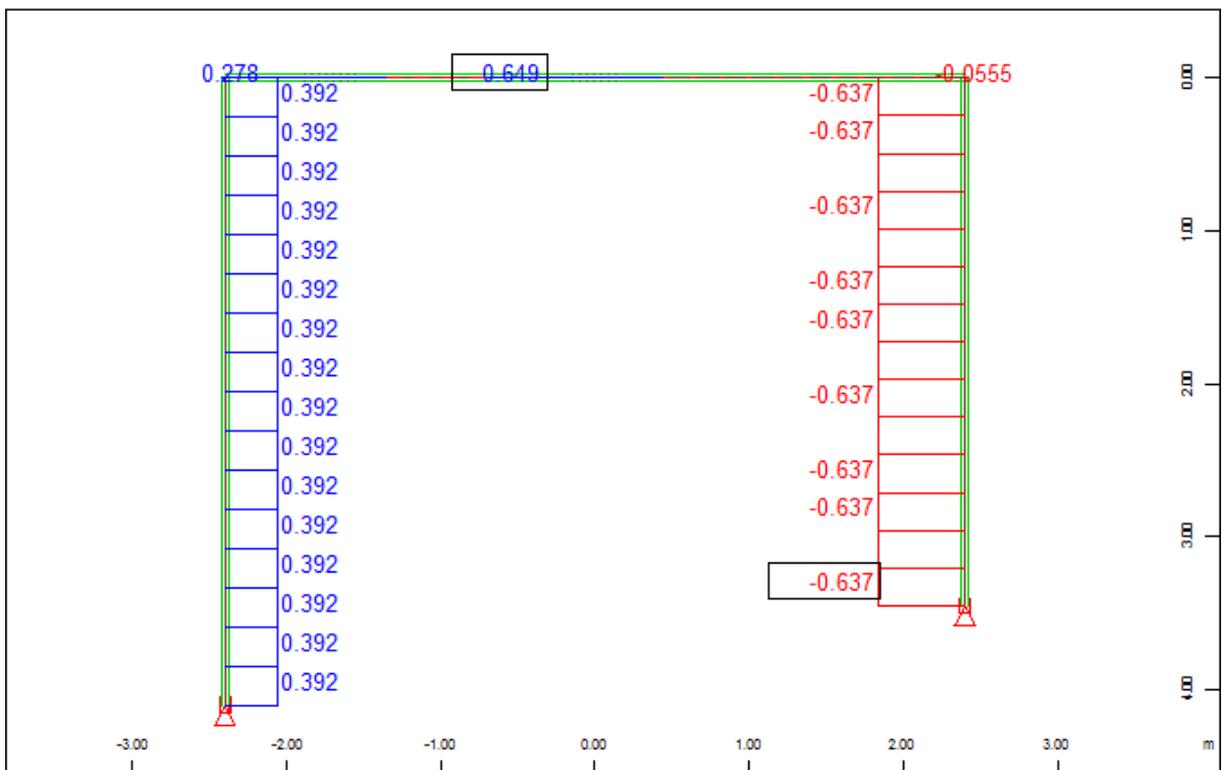
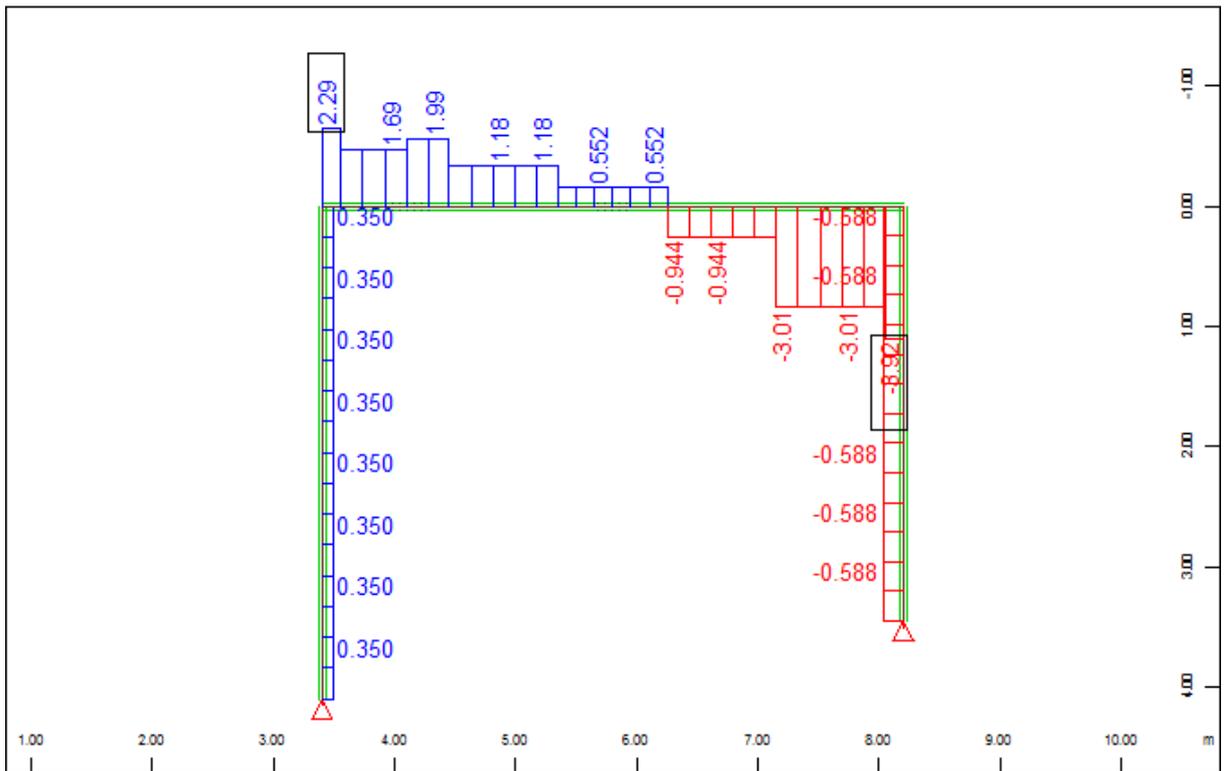
M 1 : 52

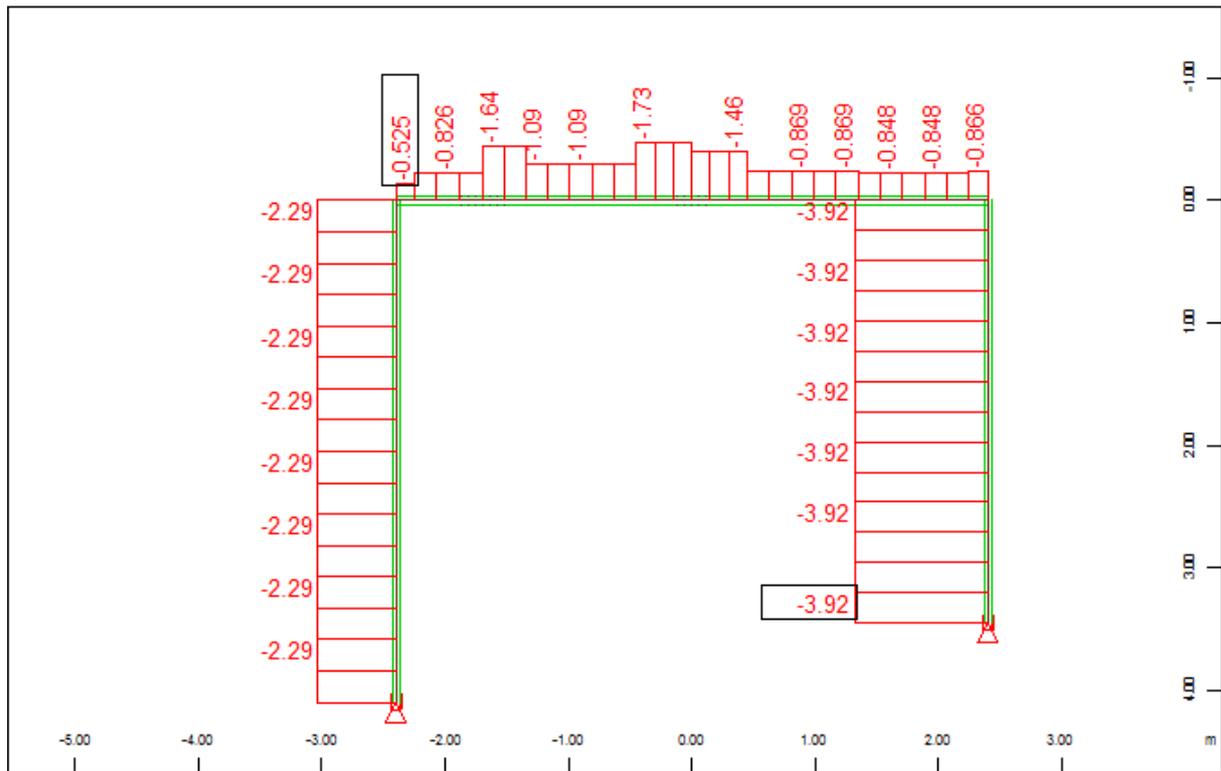


Sector of system Group 2  
Nodes , Support force in global X, Loadcase 1 lastna teza , 1 cm 3D = 0.100 kN  
(Min=-0.203) (Max=0.150) (total: -0.0529)

M 1 : 54

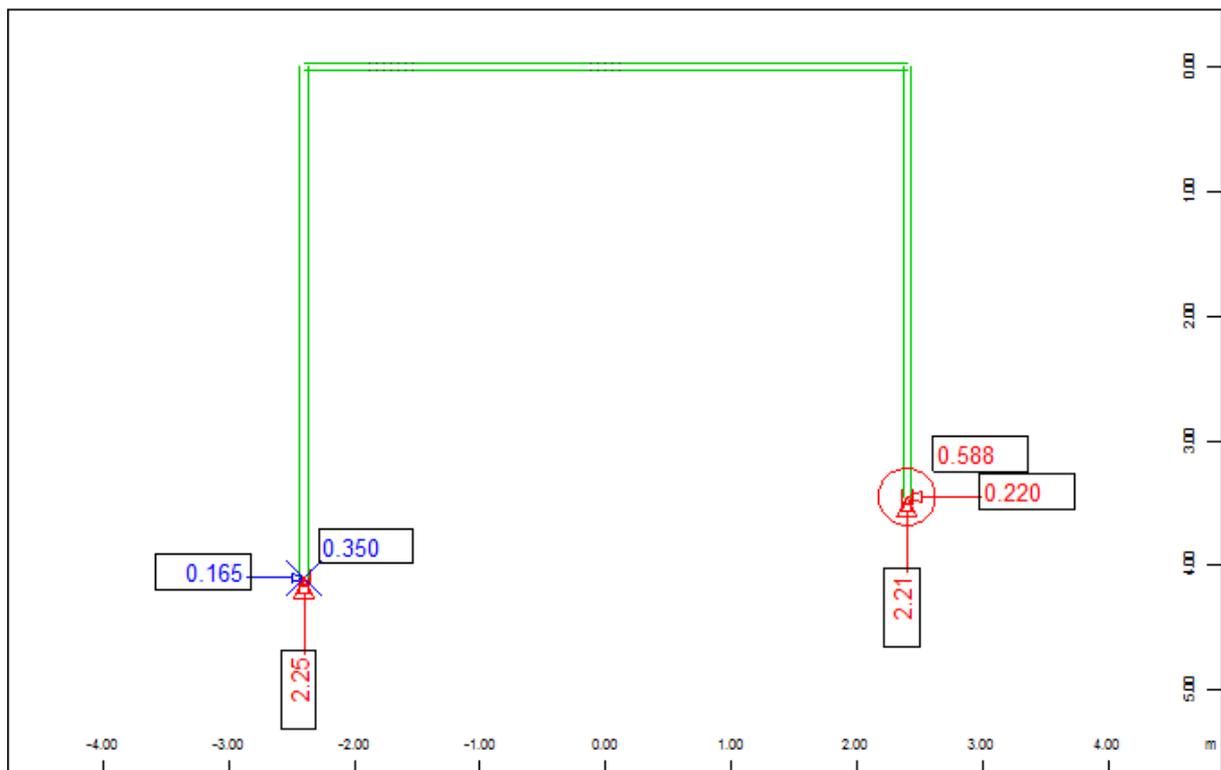






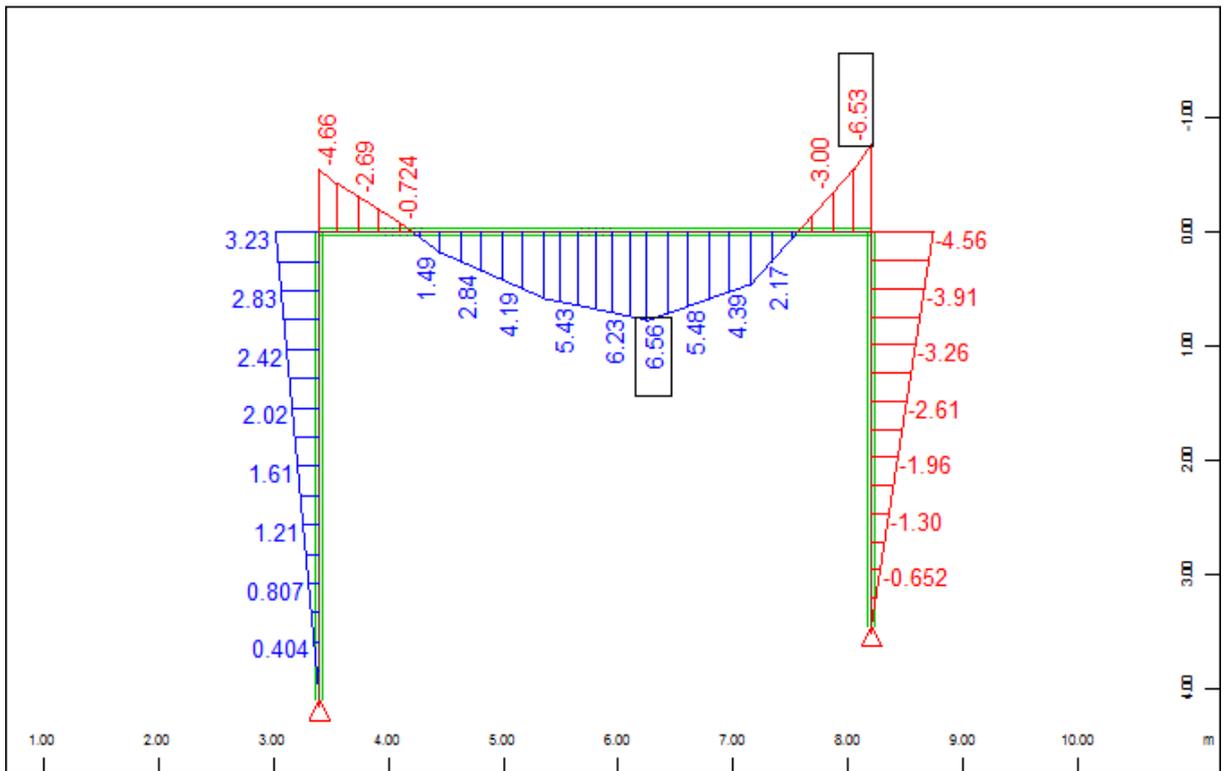
Sector of system Group 2  
 Beam Elements , Normal force Nx, Loadcase 2 STALNA , 1 cm 3D = 2.00 kN (Min=-3.92)  
 (Max=-0.525)

M 1 : 55

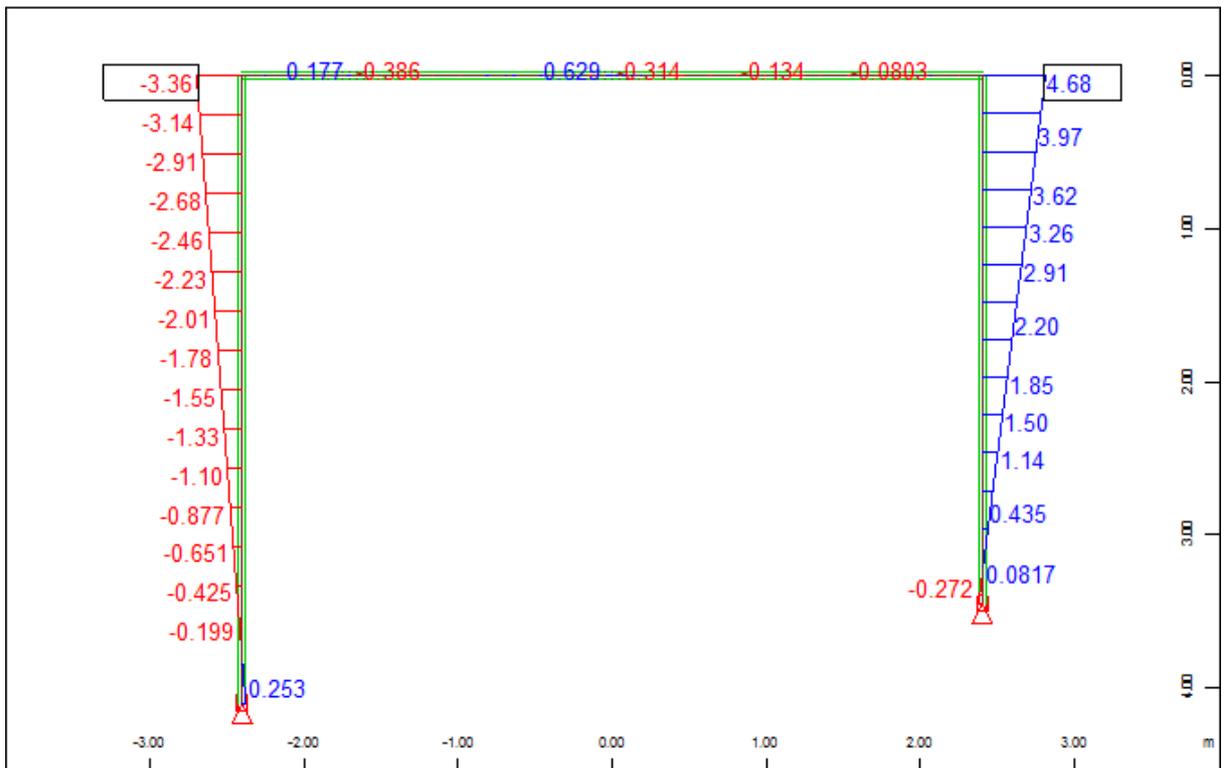


Sector of system Group 2  
 Nodes , Support force in global X, Loadcase 2 STALNA , 1 cm 3D = 0.500 kN  
 (Min=-0.588) (Max=0.350) (total: -0.238)

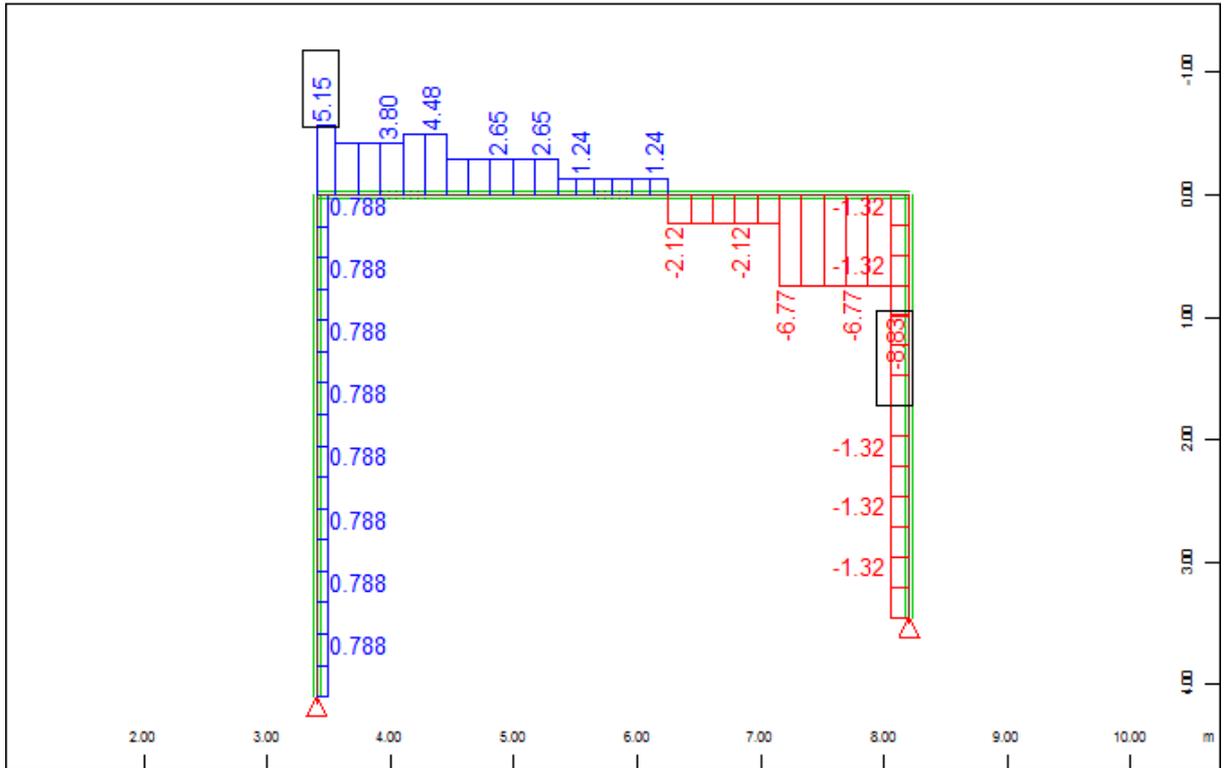
M 1 : 54



Sector of system Group 2  
 Beam Elements , Bending moment  $M_y$ , Loadcase 3 SNEG , 1 cm 3D = 5.00 kNm (Min=-6.53)  
 (Max=6.56) M 1 : 59

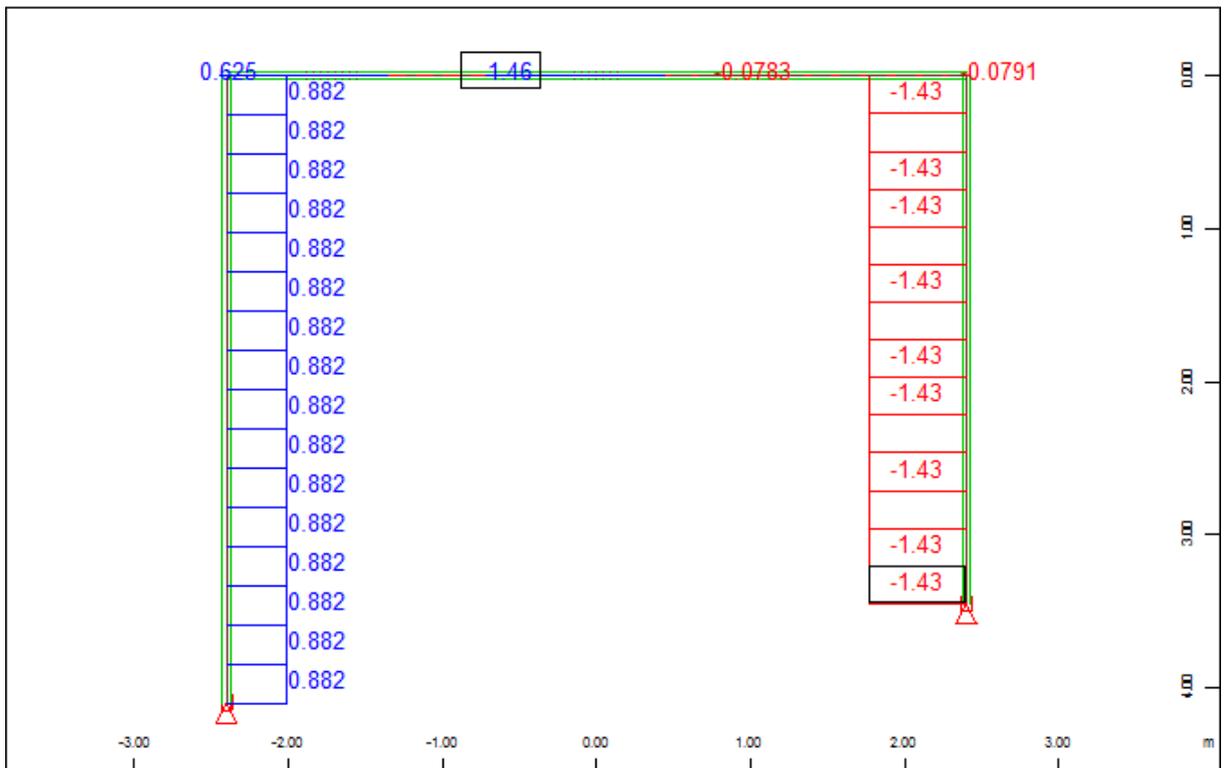


Sector of system Group 2  
 Beam Elements , Bending moment  $M_z$ , Loadcase 3 SNEG , 1 cm 3D = 5.00 kNm (Min=-3.36)  
 (Max=4.68) M 1 : 44



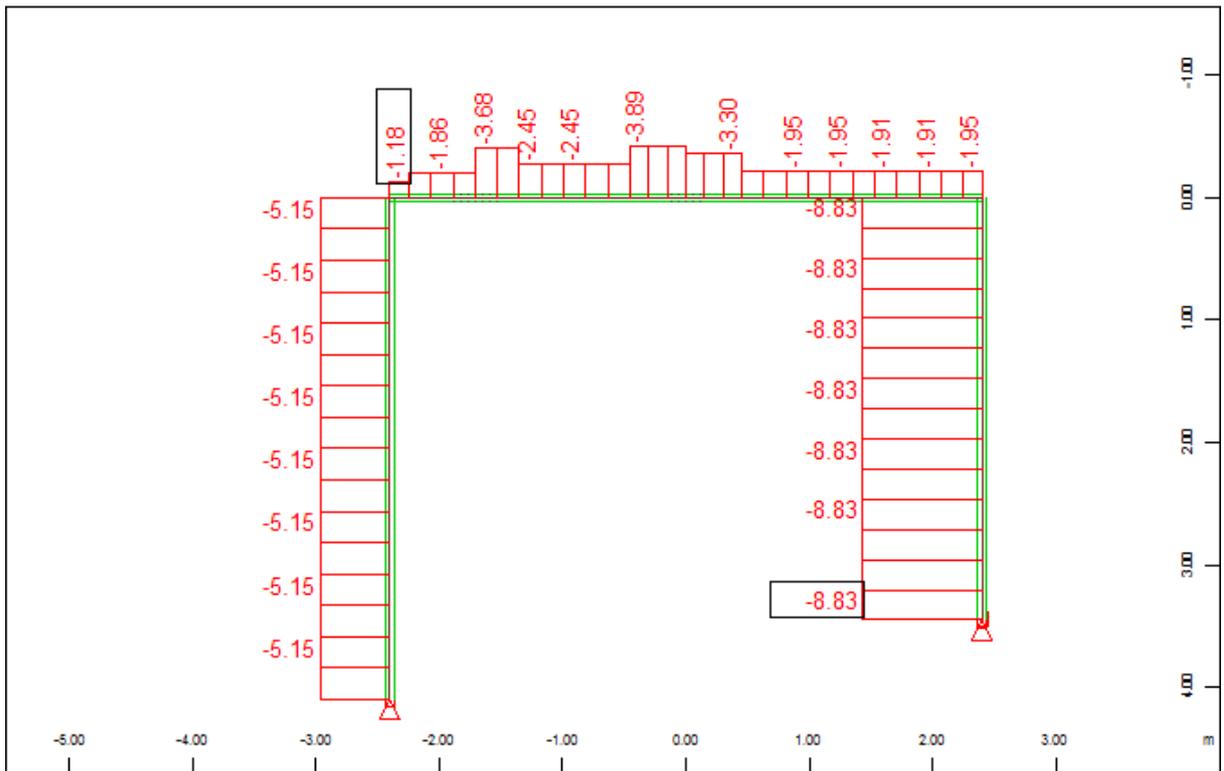
Sector of system Group 2  
 Beam Elements , Shear force Vz, Loadcase 3 SNEG , 1 cm 3D = 5.00 kN (Min=-8.83) (Max=5.15)

M 1 : 55



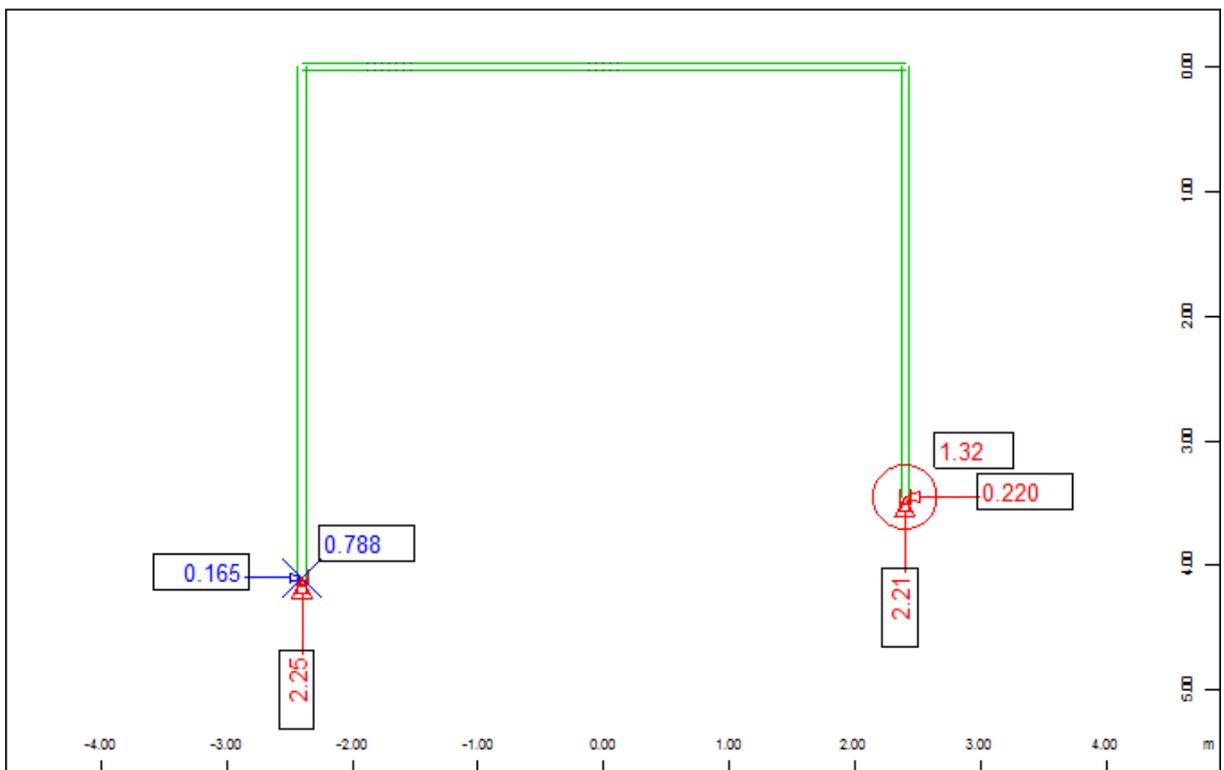
Sector of system Group 2  
 Beam Elements , Shear force Vy, Loadcase 3 SNEG , 1 cm 3D = 1.00 kN (Min=-1.43) (Max=1.46)

M 1 : 44



Sector of system Group 2  
 Beam Elements , Normal force Nx, Loadcase 3 SNEG , 1 cm 3D = 5.00 kN (Min=-8.83)  
 (Max=-1.18)

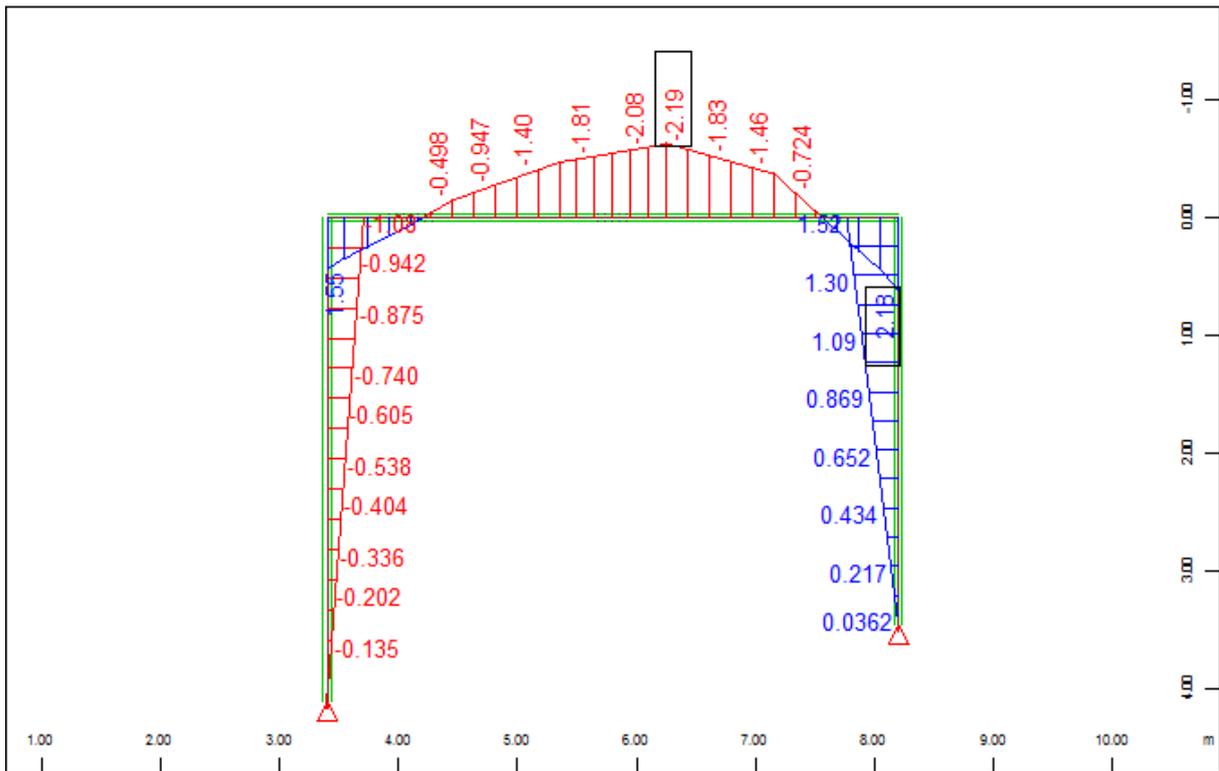
M 1 : 55



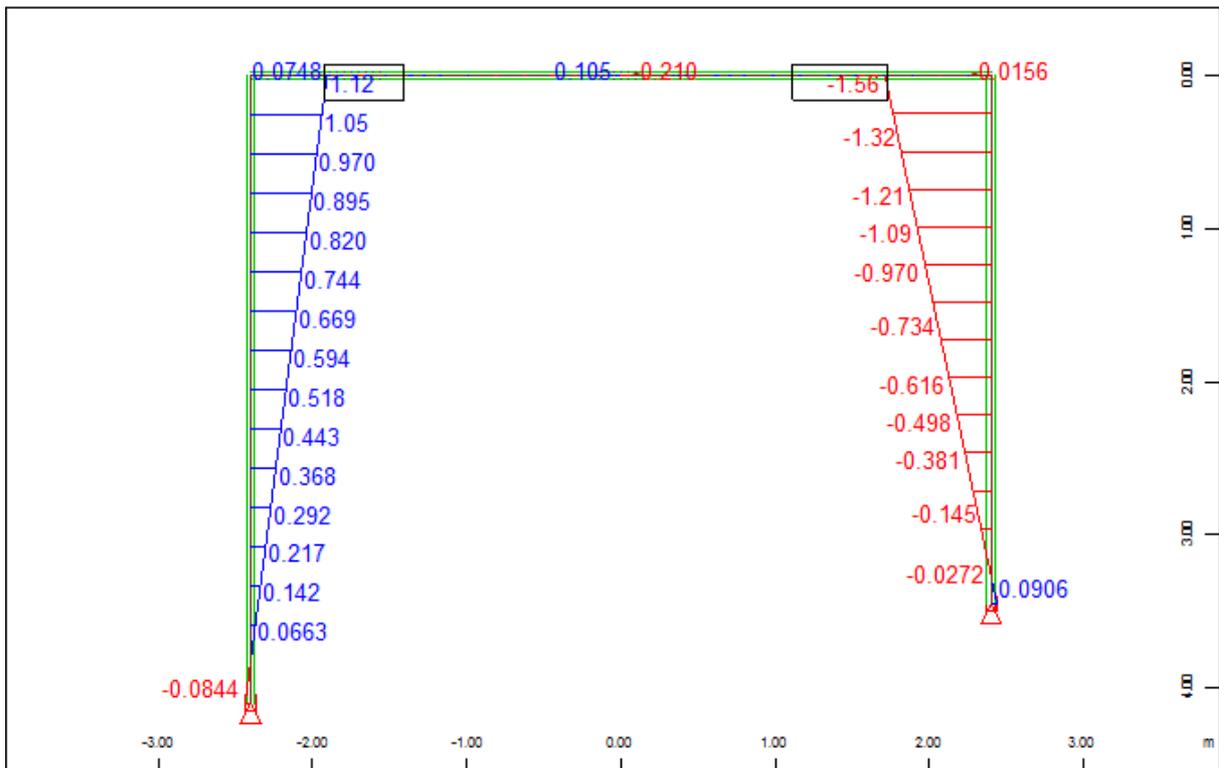
Sector of system Group 2  
 Nodes , Support force in global X, Loadcase 3 SNEG , 1 cm 3D = 1.00 kN  
 (Max=0.788) (total: -0.535)

(Min=-1.32)

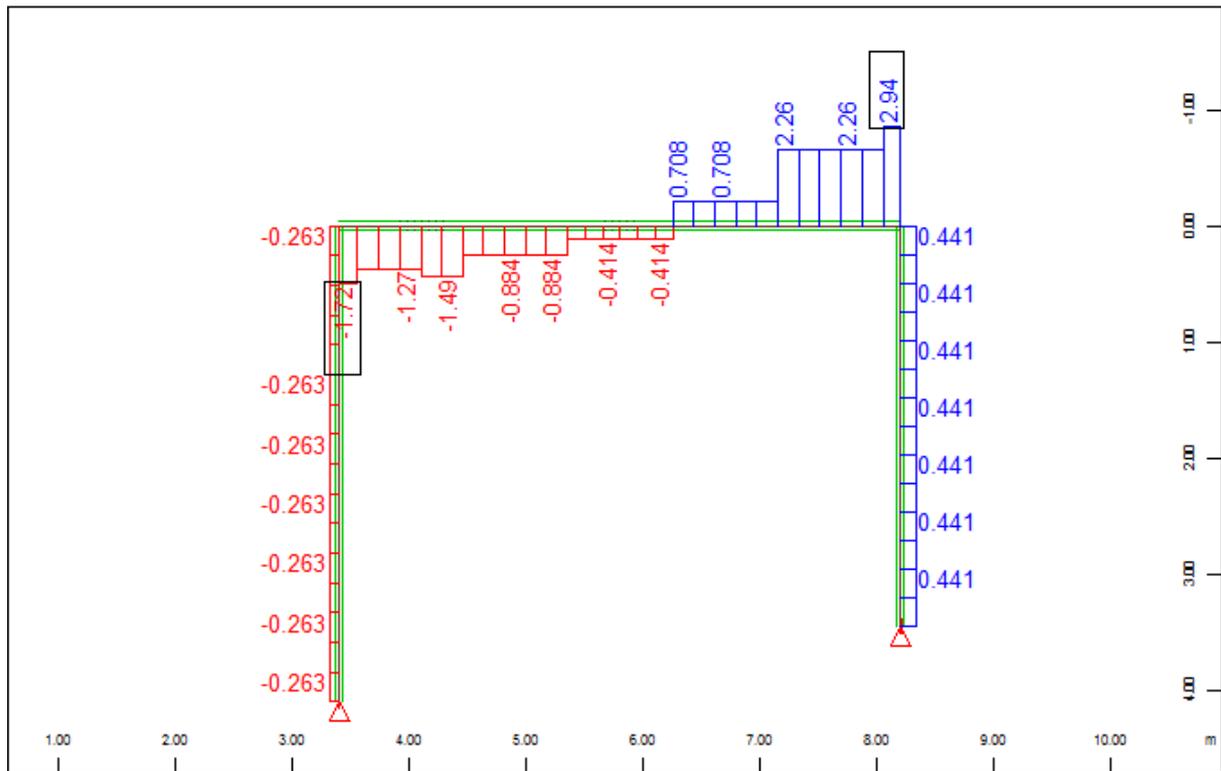
M 1 : 54



Sector of system Group 2  
 Beam Elements , Bending moment My, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 2.00 kNm  
 (Min=-2.19) (Max=2.18) M 1 : 57

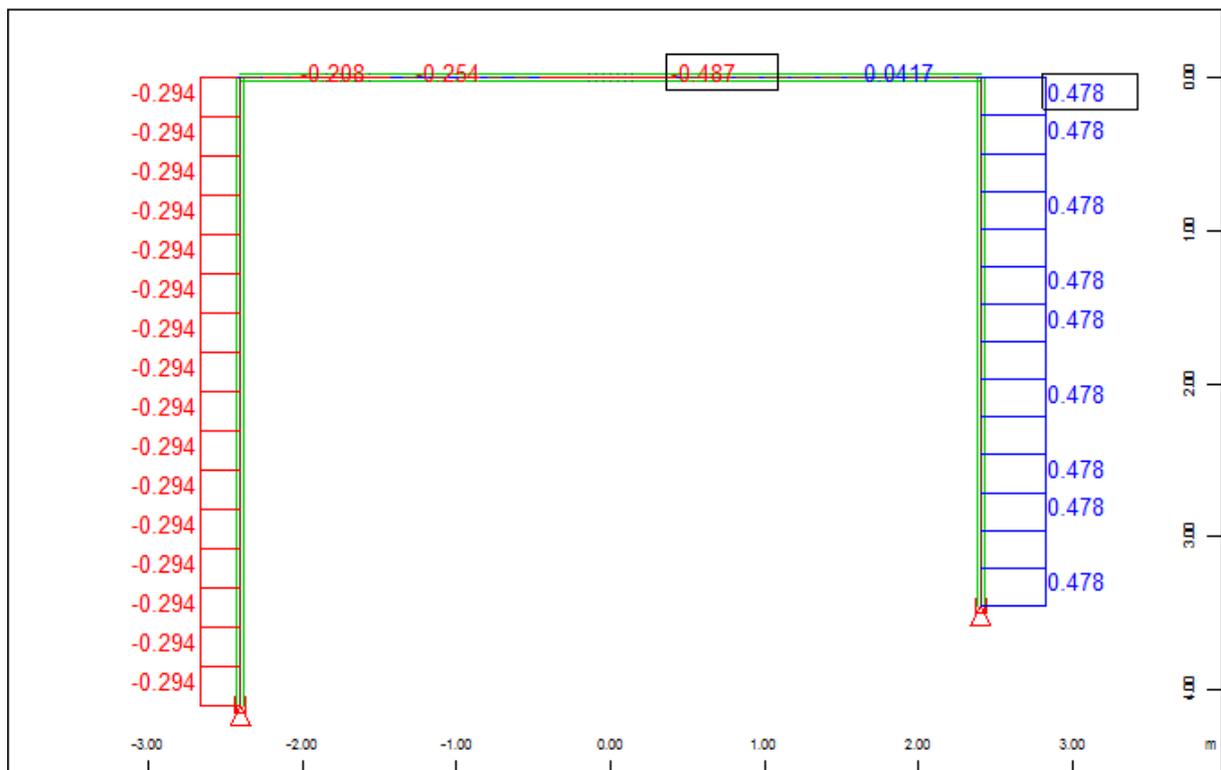


Sector of system Group 2  
 Beam Elements , Bending moment Mz, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 1.00 kNm  
 (Min=-1.56) (Max=1.12) M 1 : 44



Sector of system Group 2  
 Beam Elements , Shear force Vz, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 2.00 kN  
 (Min=-1.72) (Max=2.94)

M 1 : 58

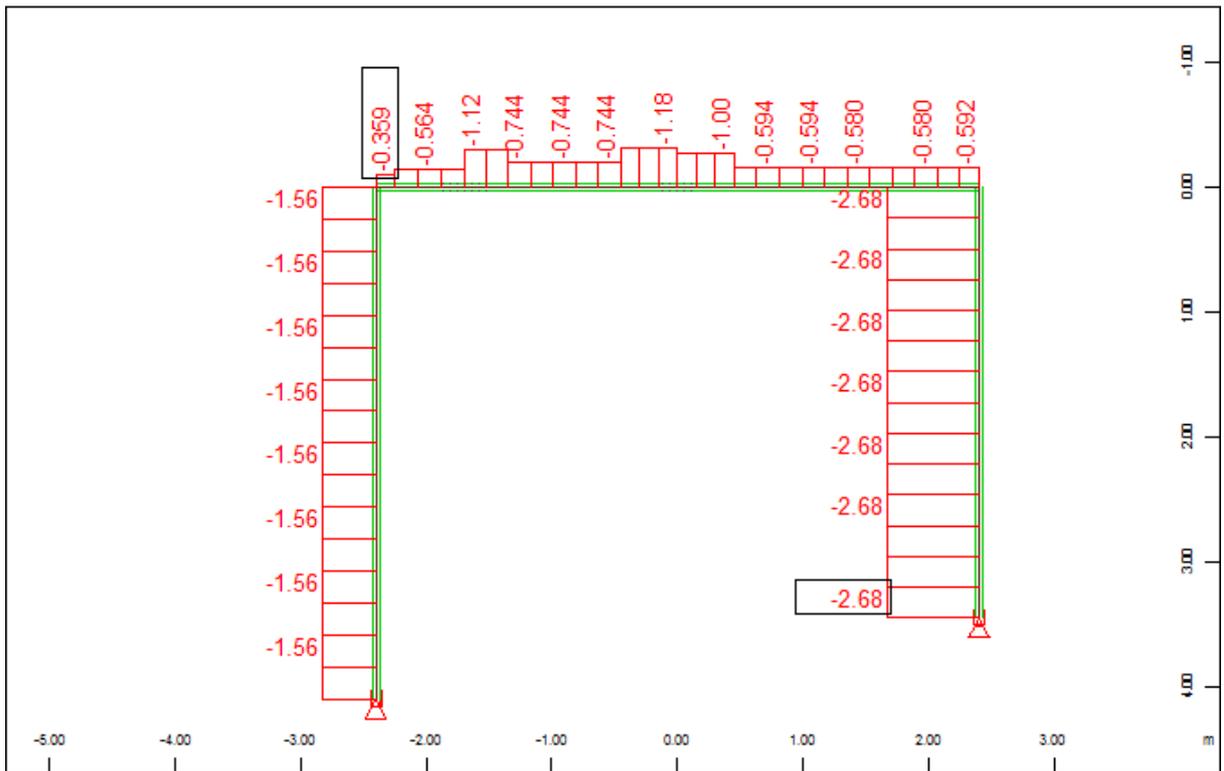


Sector of system Group 2  
 Beam Elements , Shear force Vy, Loadcase 4 VETER srk\_povpr. , 1 cm 3D = 0.500 kN  
 (Min=-0.487) (Max=0.478)

M 1 : 44

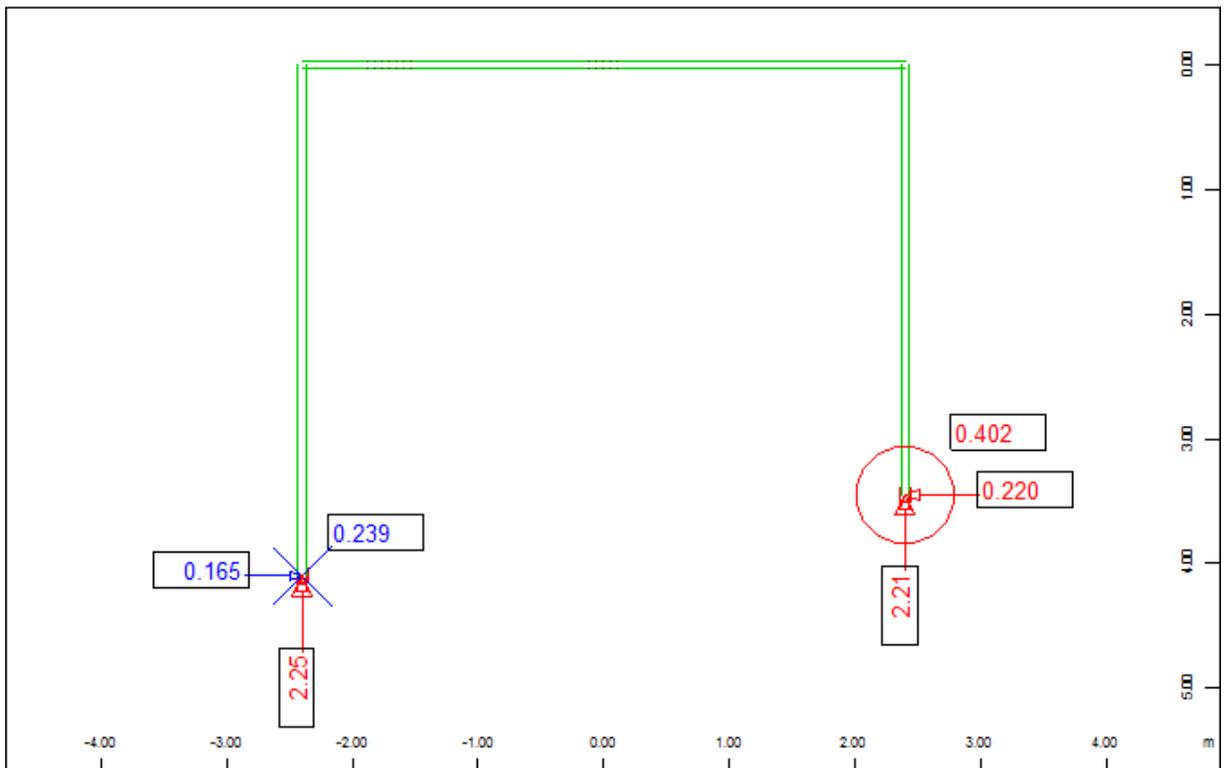






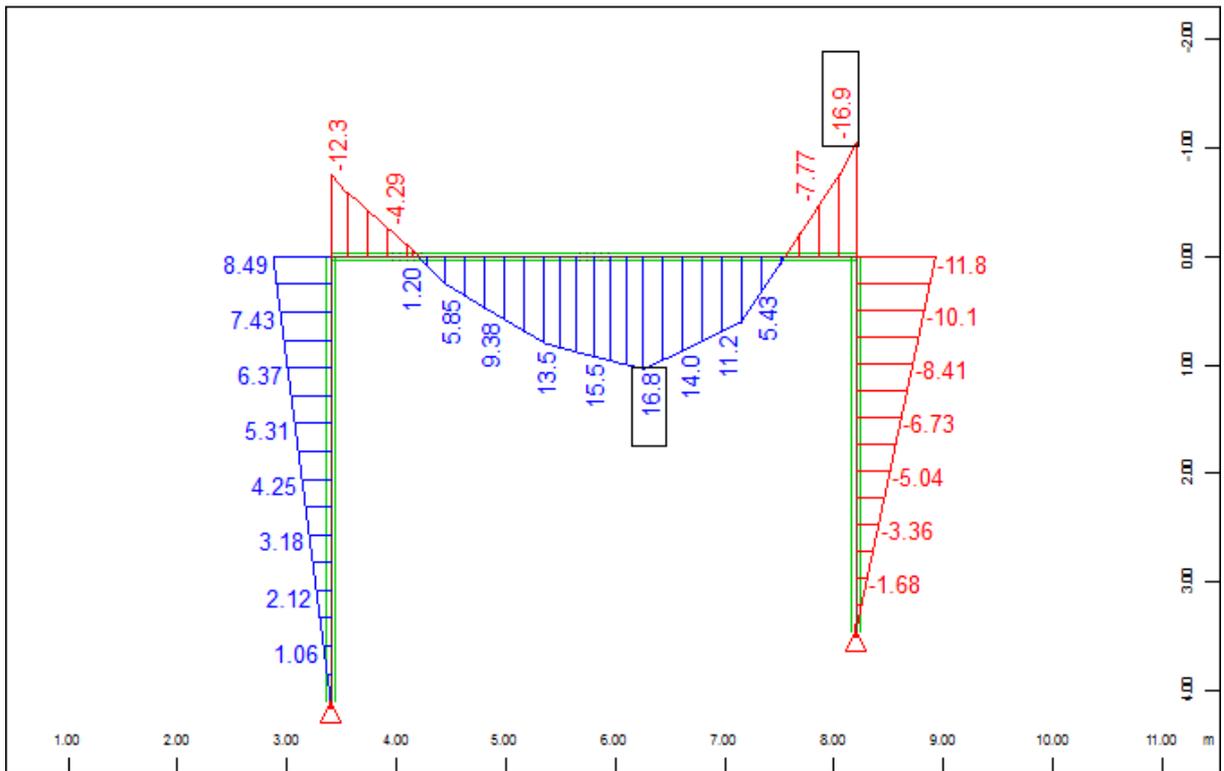
Sector of system Group 2  
 Beam Elements , Normal force Nx, Loadcase 5 VETER tlak\_povpr. , 1 cm 3D = 2.00 kN  
 (Min=-2.68) (Max=-0.359)

M 1 : 54



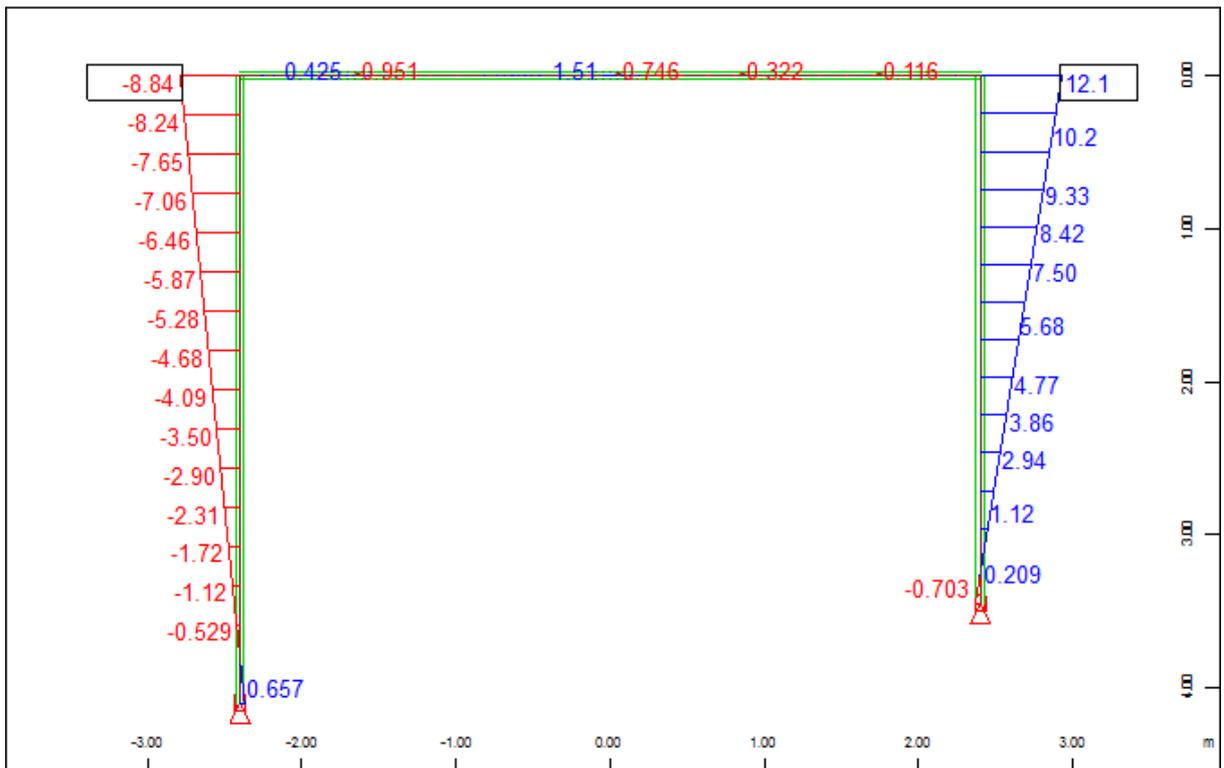
Sector of system Group 2  
 Nodes , Support force in global X, Loadcase 5 VETER tlak\_povpr. , 1 cm 3D = 0.200 kN  
 (Min=-0.402) (Max=0.239) (total: -0.162)

M 1 : 54



Sector of system Group 2  
Beam Elements , Bending moment My, Loadcase 1001  $1.35*(1+2)+1.5*(3)+1.5*0.6*(5)$  , 1 cm 3D  
= 10.0 kNm (Min=-16.9) (Max=16.8)

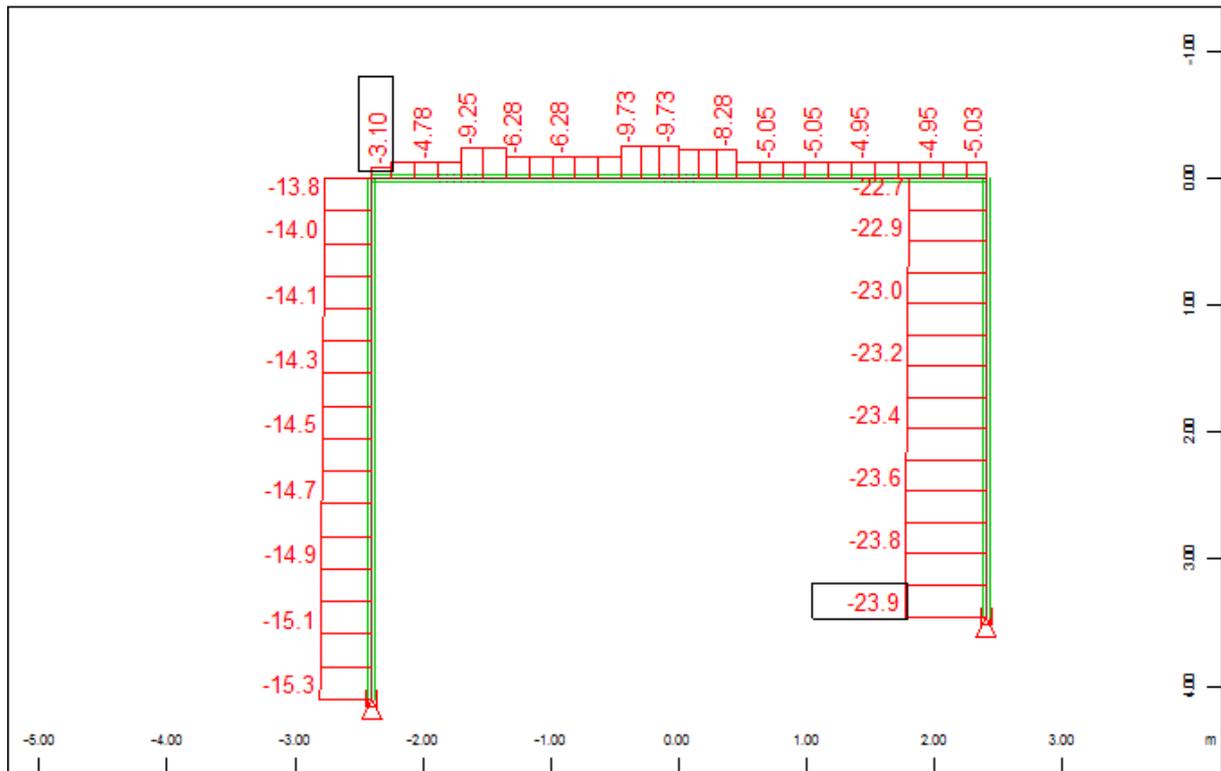
M 1 : 62



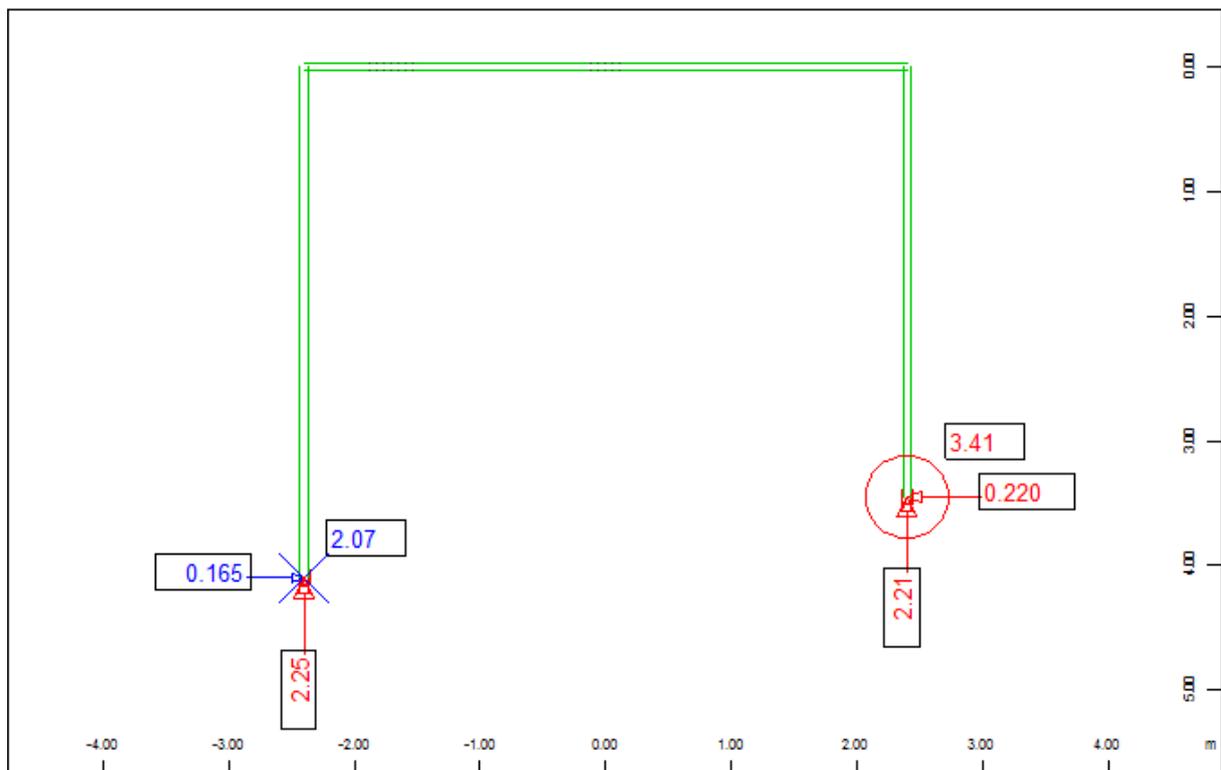
Sector of system Group 2  
Beam Elements , Bending moment Mz, Loadcase 1001  $1.35*(1+2)+1.5*(3)+1.5*0.6*(5)$  , 1 cm 3D  
= 10.0 kNm (Min=-8.84) (Max=12.1)

M 1 : 44



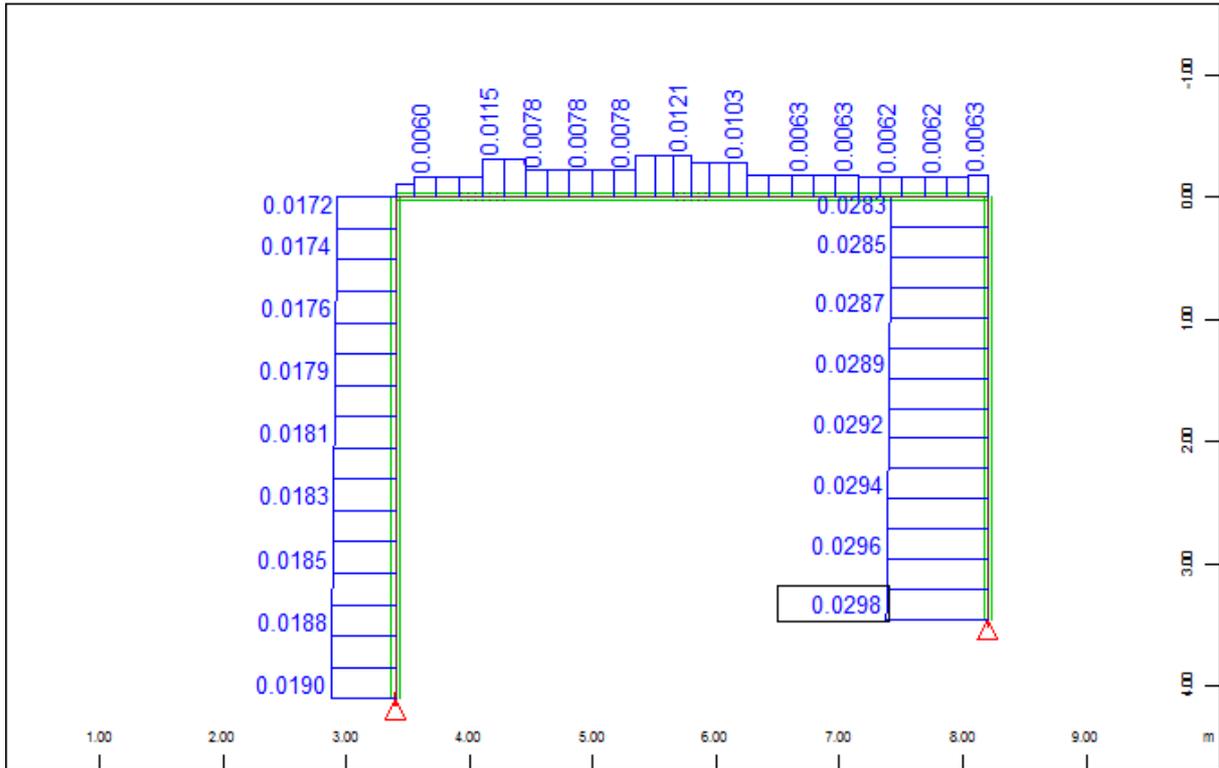


Sector of system Group 2  
 Beam Elements , Normal force Nx, Loadcase 1001 1.35\*(1+2)+1.5\*(3)\*1.5\*0.8\*(5) , 1 cm 3D =  
 20.0 kN (Min=-23.9) (Max=-3.10) M 1 : 53

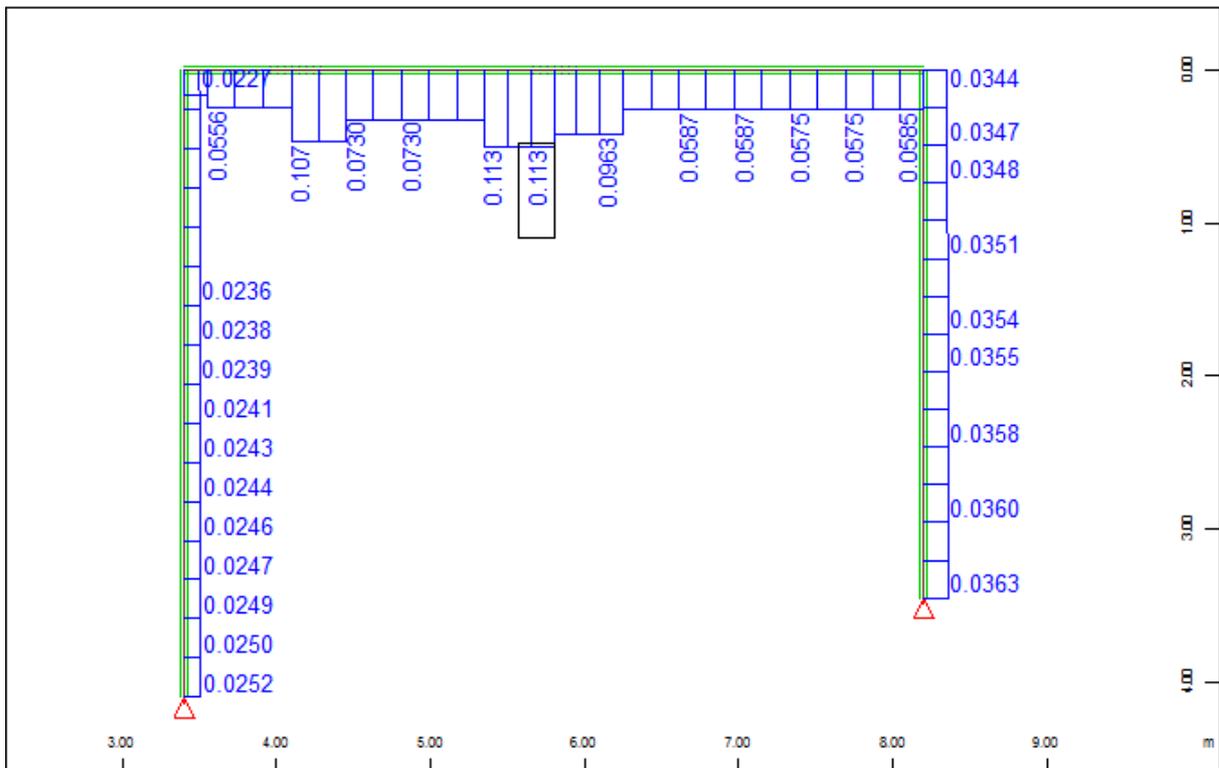


Sector of system Group 2  
 Nodes , Support force in global X, Loadcase 1001 1.35\*(1+2)+1.5\*(3)\*1.5\*0.8\*(5) , 1 cm 3D  
 = 2.00 kN (Min=-3.41) (Max=2.07) (total: -1.34) M 1 : 54

## ODPORNOST PREREZA-JEKLENI DEL

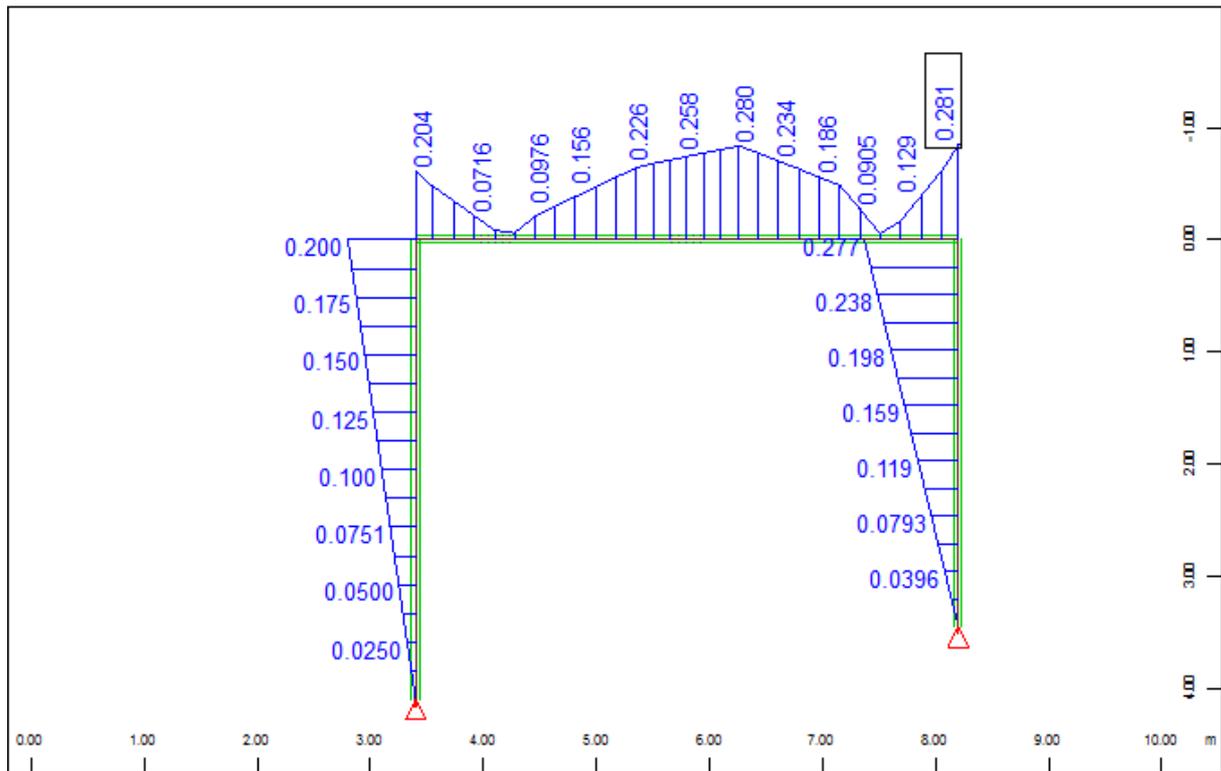


Sector of system Group 2  
 Beam Elements , Utilisation level N Normal force (EN 1993-1-1, 6.2.3, Eq. 6.5 or 6.9),  
 Design Case 2129  $1.35*(G)+1.5*(S)+1.5*0.6*(W)$  , 1 cm 3D = 0.0200 (Max=0.0298)  
 M 1 : 55



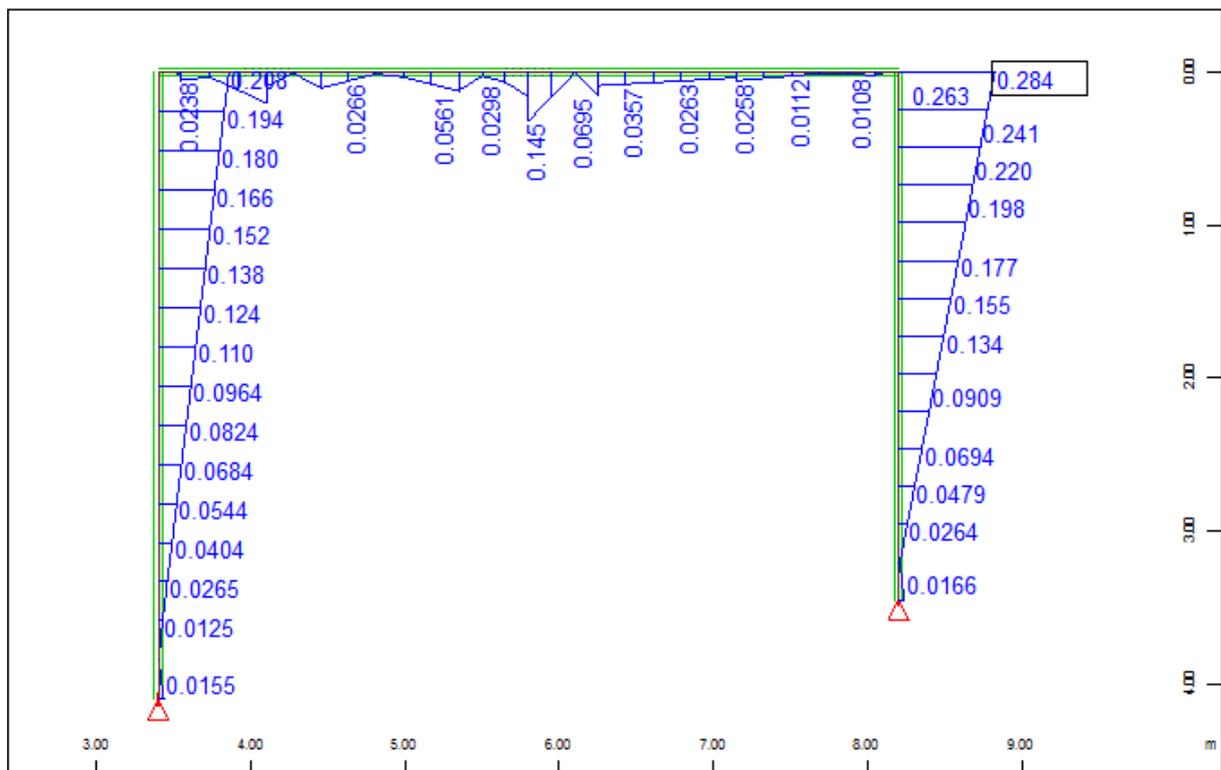
Sector of system Group 2  
 Beam Elements , Utilisation level Decisive - Buckling Resistance, Design Case 2129  
 $1.35*(G)+1.5*(S)+1.5*0.6*(W)$  , 1 cm 3D = 0.100 (Max=0.113)  
 M 1 : 44





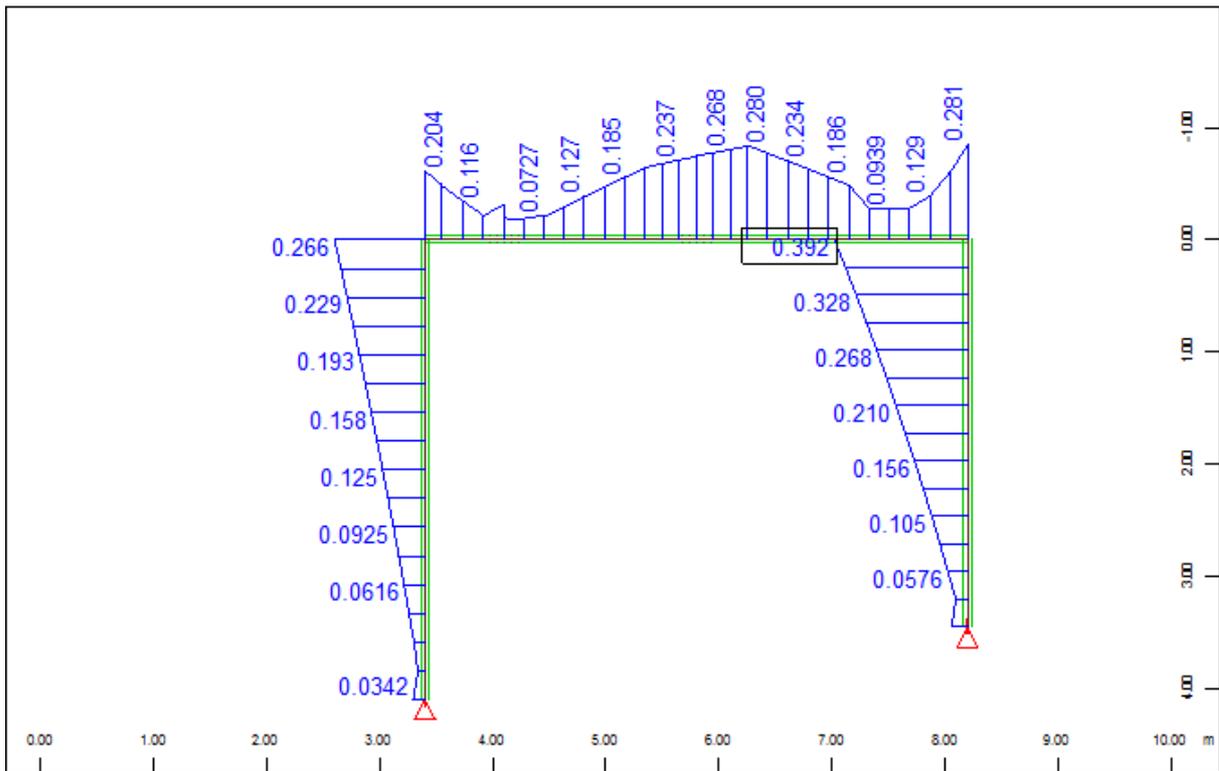
Sector of system Group 2  
Beam Elements , Utilisation level My Bending (EN 1993-1-1, 6.2.5, Eq. 6.12), Design Case  
2129 1.35\*(G)+1.5\*(S)+1.5\*0.6\*(W) , 1 cm 3D = 0.200 (Max=0.281)

M 1 : 60



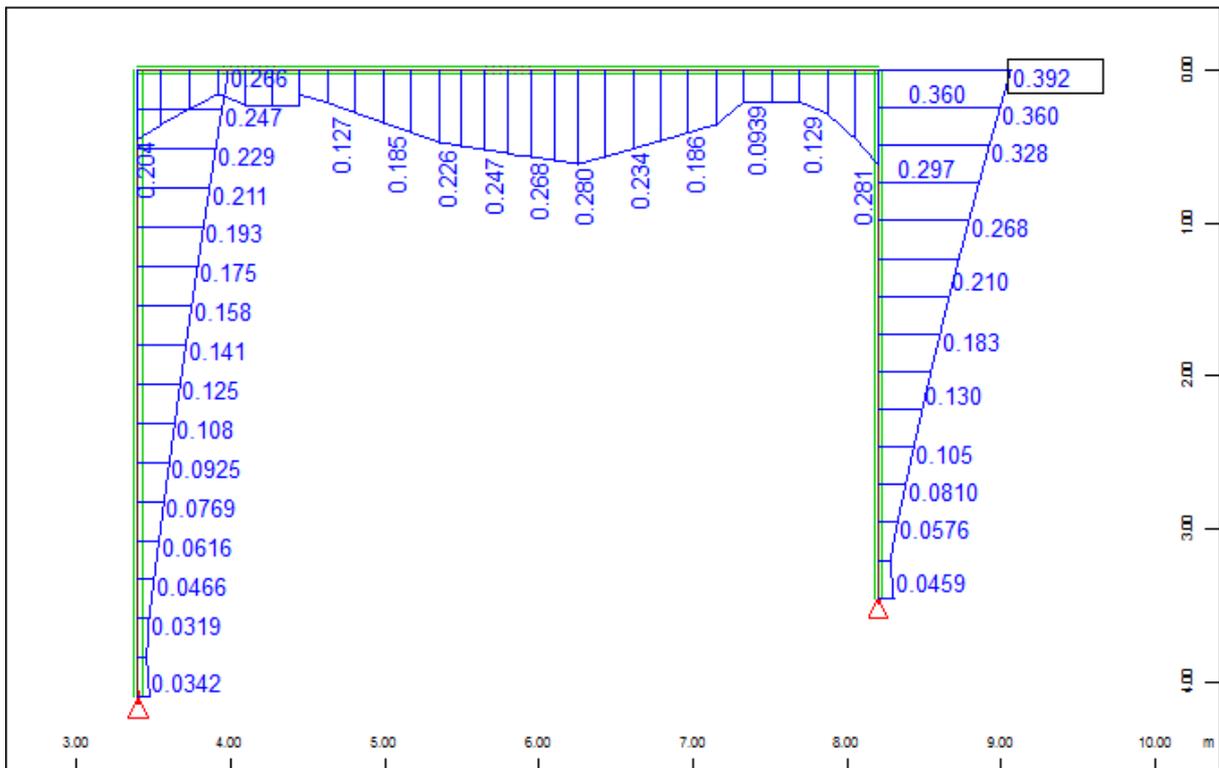
Sector of system Group 2  
Beam Elements , Utilisation level Mz Bending (EN 1993-1-1, 6.2.5, Eq. 6.12), Design Case  
2129 1.35\*(G)+1.5\*(S)+1.5\*0.6\*(W) , 1 cm 3D = 0.200 (Max=0.284)

M 1 : 44



Sector of system Group 2  
Beam Elements , Utilisation level Decisive - Resistance of Cross Section, Design Case 2129  
 $1.35*(G)+1.5*(S)+1.5*0.6*(W)$  , 1 cm 3D = 0.200 (Max=0.392)

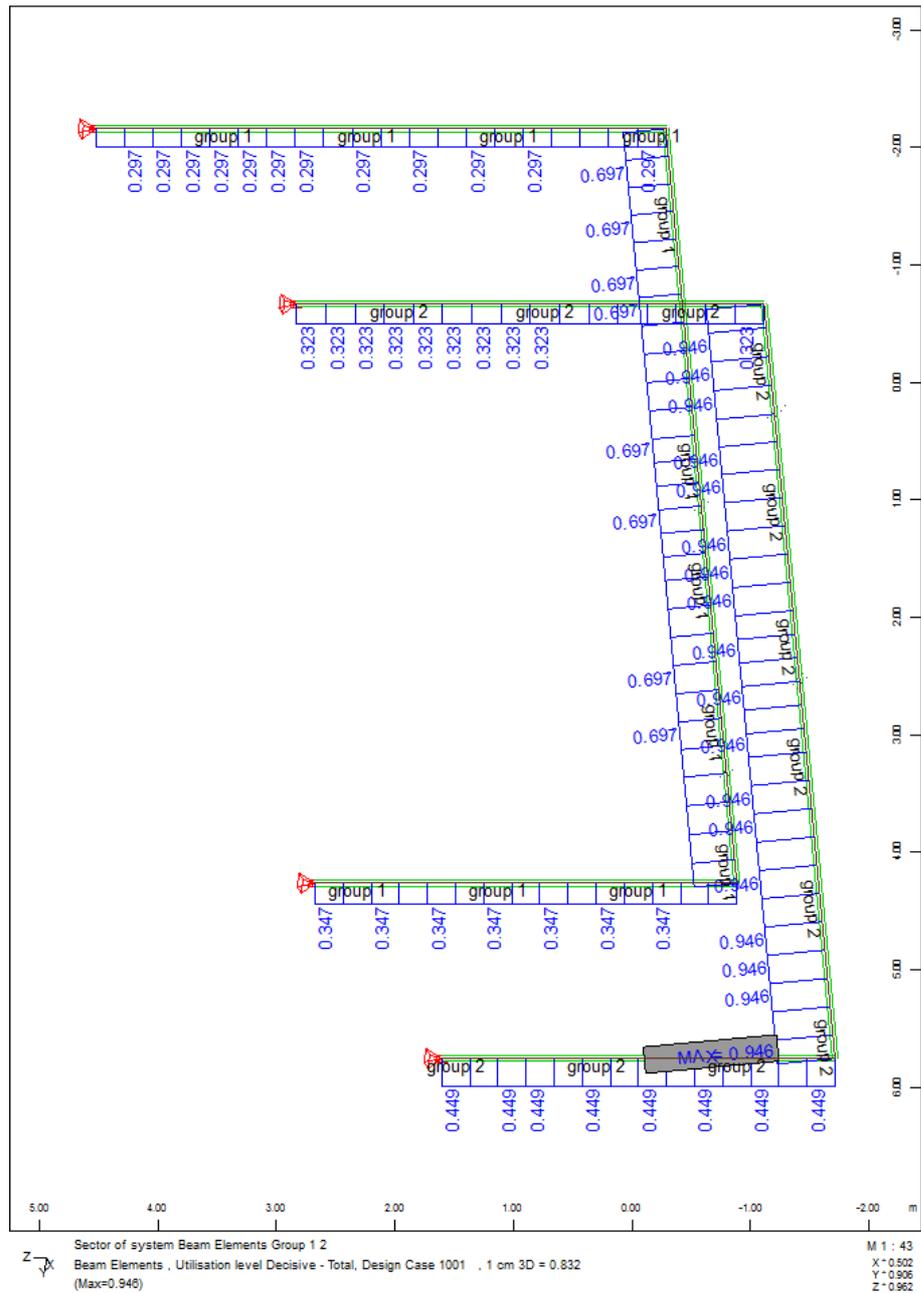
M 1 : 60



Sector of system Group 2  
Beam Elements , Utilisation level Decisive - Total, Design Case 2129  
 $1.35*(G)+1.5*(S)+1.5*0.6*(W)$  , 1 cm 3D = 0.200 (Max=0.392)

M 1 : 44

## ODPORNOST NA BOČNO ZVRNITEV-JEKLENI DEL



v Mariboru, junij 2017

sestavil:  
Mitja Mulec, m.i.g.

### 3.4 RISBE

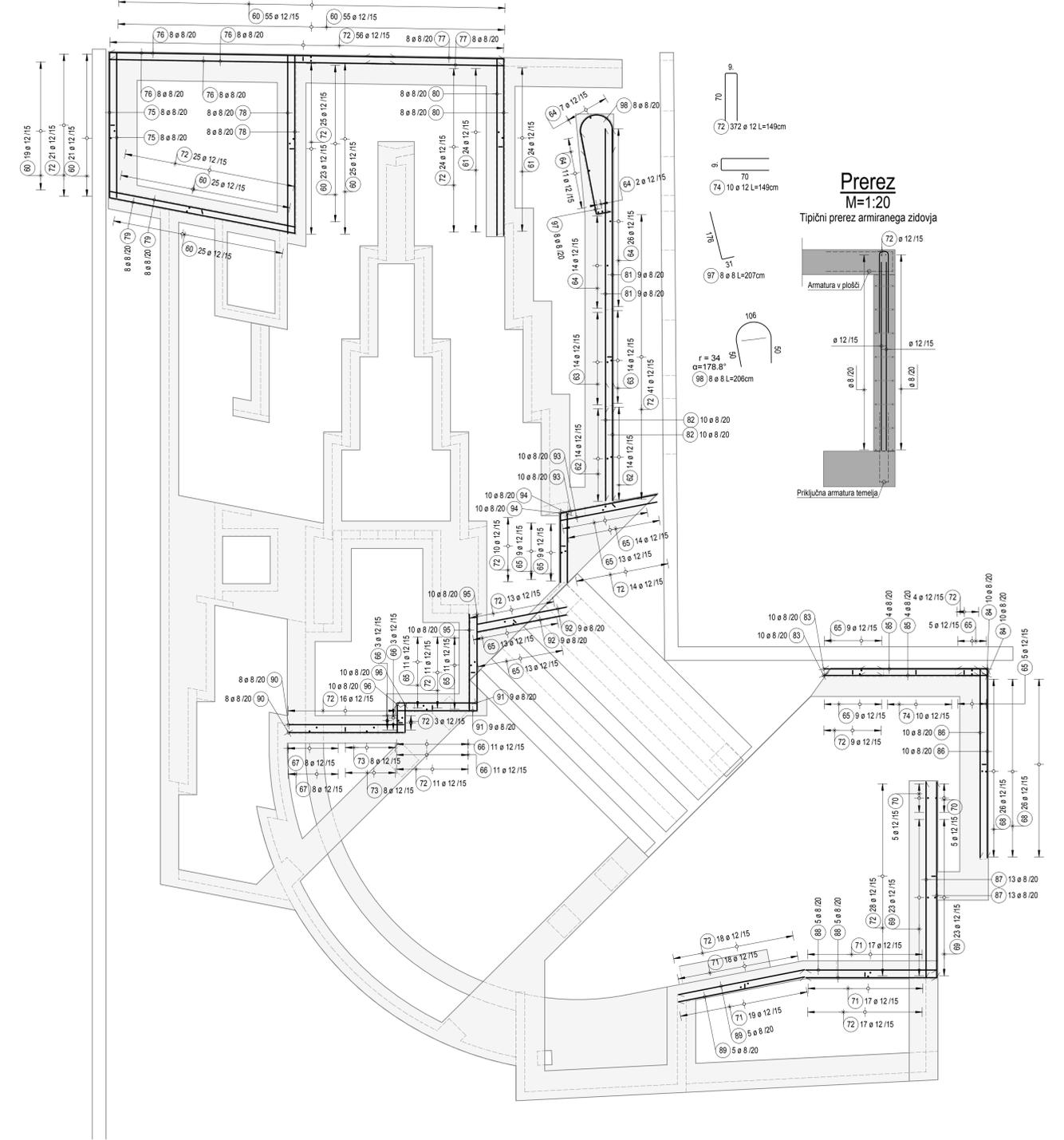
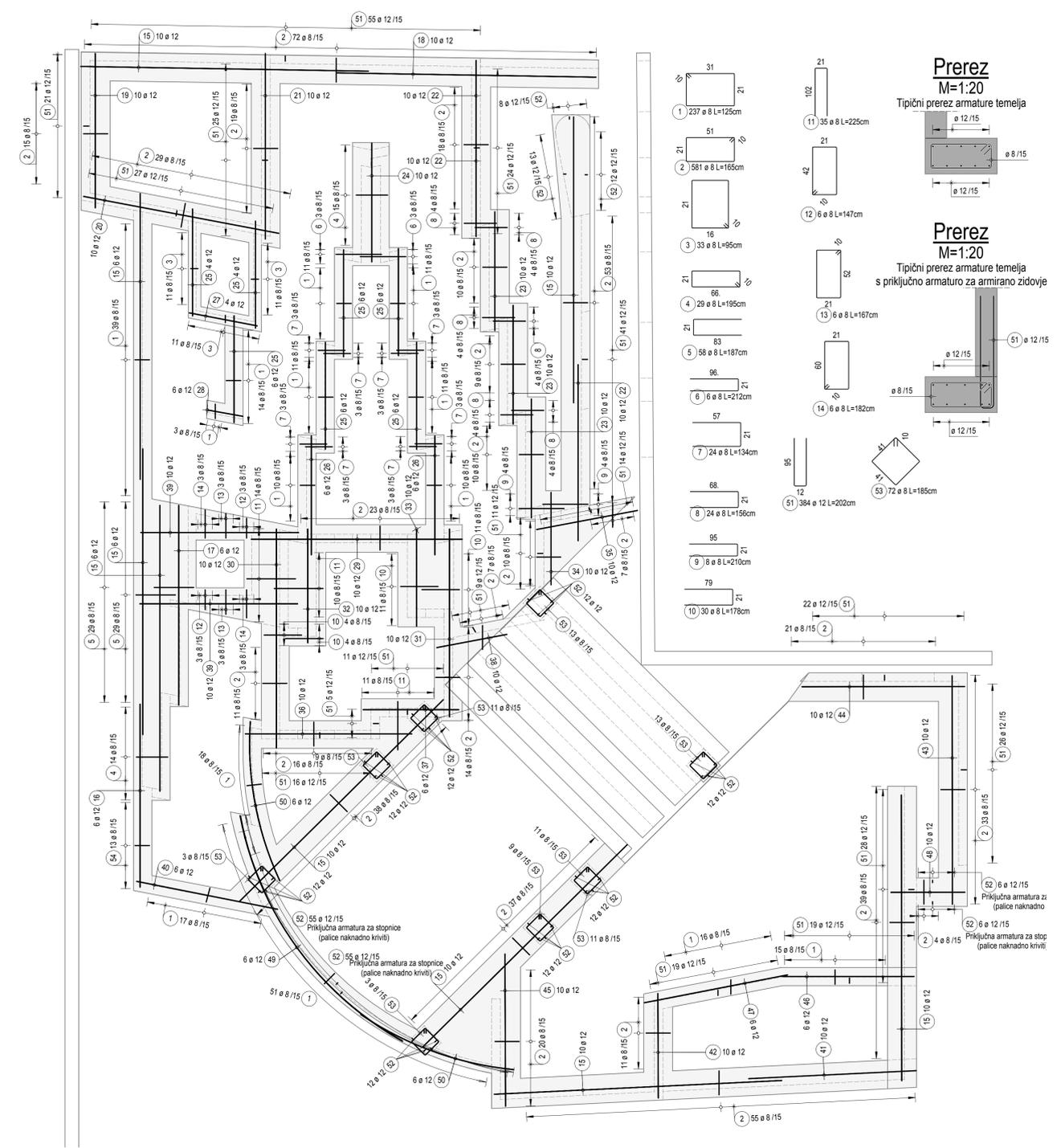
OPAŽNA RISBA – TEMELJEV IN ZIDOVJA.....	list A-1
OPAŽNA RISBA – STOPNIC IN PODESTOV, PREREZI.....	list A-2
ARMATURNNA RISBA – TEMELJEV IN ZIDOVJA.....	list A-3
KOSOVNICA ARMATURE K LISTU A-3	
ARMATURNNA RISBA – PODESTOV IN STOPNIŠČ.....	list A-4
KOSOVNICA ARMATURE K LISTU A-4	
JEKLENI NADSTREŠEK .....	list A-5





**TLORIS TEMELJEV**  
M=1:50

**TLORIS ZIDOVJA**  
M=1:50



Beton: Stropnice in podesfci: C30/37 X03/X4 (Cl 0,2 Dmax <math>\leq 23\text{mm}</math> S4 PV III  
Temelji, stene: C25/30 XC2 (Cl 0,2 Dmax <math>\leq 23\text{mm}</math> S4 PV II

Armatura: Palice B 500(B) Mreže B 500(A)

Zaščitni sloji: Crom-4,5cm

sprememba: \_\_\_\_\_

**ARMATURA**  
PROJEKCIJSKI IN TEHNIŠKI SVETOVANJE INženiring BRIG ARMATURA, URAD ZVAN LJ. ZEMSKOVA C. 15, MARIBOR  
SI-1001 - LJ., E-POSITA: info@armatura.si, TEL. FAX: +386 (0)51 41 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

št. projekta: 1707002

investitor: OŠ Rada Robiča Limbuš

objekt: Ureditev dvoriča z nadstreškom

vrsta projekta: PZI  
odgovorni vodja projekta: M. MILČ UDA ZAPS A-524  
odgovorni projektant: U. Žvan, UDIŠ IZS G-0028  
sodelavec: M. MILČEC MŠG

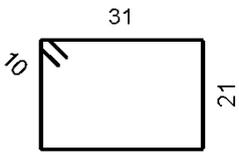
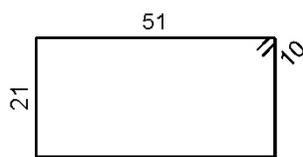
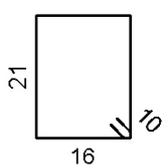
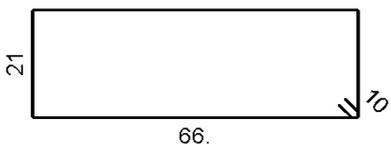
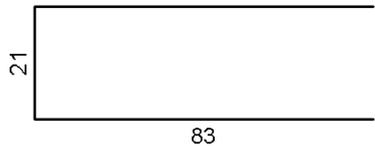
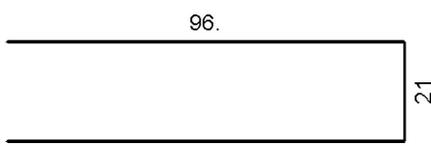
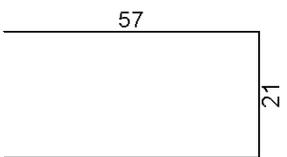
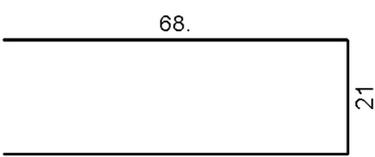
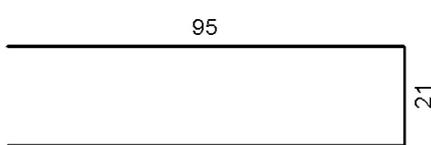
kontrola: \_\_\_\_\_  
načrt, št. načrta: GR. KONSTRUKCIJA 12/17-K

risba, merilo: ARMATURNIA RISBA TLORIS TEMELJEV, TLORIS ZIDOVJA M=1:50,20

št. risbe: 12/17-K - 03  
datum, št. lista: JUNIJ 2017 03

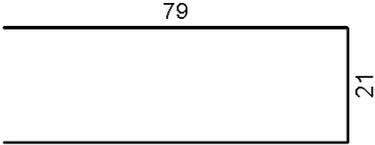
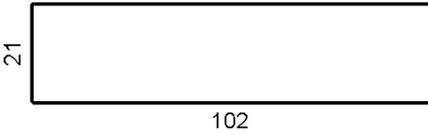
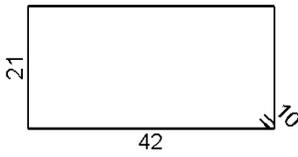
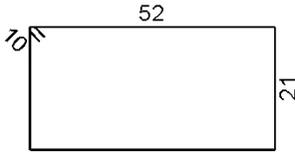
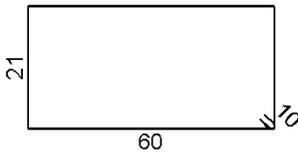
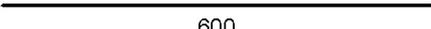
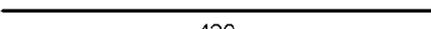
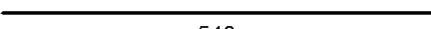
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
<b>TEMELJI LIST ŠT. 03</b>						
1	237	8		1.25	296,25	117,02
2	581	8		1.65	958,65	378,67
3	33	8		0.95	31,35	12,38
4	29	8		1.95	56,55	22,34
5	58	8		1.87	108,46	42,84
6	6	8		2.12	12,72	5,02
7	24	8		1.34	32,16	12,70
8	24	8		1.56	37,44	14,79
9	8	8		2.10	16,80	6,64

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
10	30	8		1.78	53,40	21,09
11	35	8		2.25	78,75	31,11
12	6	8		1.47	8,82	3,48
13	6	8		1.67	10,02	3,96
14	6	8		1.82	10,92	4,31
15	78	12		6.00	468,00	415,58
16	6	12		3.85	23,10	20,51
17	6	12		4.20	25,20	22,38
18	10	12		5.40	54,00	47,95

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
19	10	12	325	3.25	32,50	28,86
20	10	12	415	4.15	41,50	36,85
21	10	12	390	3.90	39,00	34,63
22	20	12	370	3.70	74,00	65,71
23	30	12	250	2.50	75,00	66,60
24	10	12	250	2.50	25,00	22,20
25	38	12	225	2.25	85,50	75,92
26	12	12	250	2.50	30,00	26,64
27	4	12	145	1.45	5,80	5,15

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
28	6	12	76	0.76	4,56	4,05
29	10	12	440	4.40	44,00	39,07
30	10	12	460	4.60	46,00	40,85
31	10	12	395	3.95	39,50	35,08
32	10	12	240	2.40	24,00	21,31
33	10	12	205	2.05	20,50	18,20
34	10	12	195	1.95	19,50	17,32
35	10	12	215	2.15	21,50	19,09
36	10	12	348	3.48	34,80	30,90

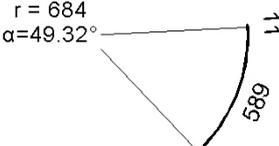
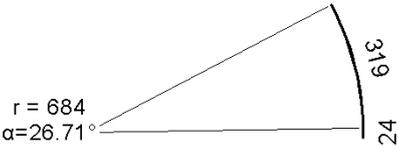
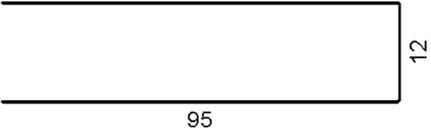
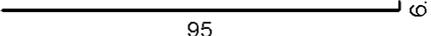
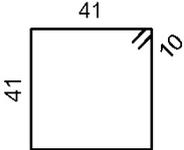
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
37	6	12	200	2.00	12,00	10,66
38	10	12	150	1.50	15,00	13,32
39	20	12	330	3.30	66,00	58,61
40	6	12	300	3.00	18,00	15,98
41	10	12	350	3.50	35,00	31,08
42	10	12	220	2.20	22,00	19,54
43	10	12	480	4.80	48,00	42,62
44	10	12	340	3.40	34,00	30,19
45	10	12	320	3.20	32,00	28,42

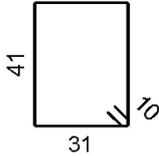
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
46	6	12	 275	2.75	16,50	14,65
47	6	12	 305	3.05	18,30	16,25
48	10	12	 155	1.55	15,50	13,76
49	6	12	 $r = 684$ $\alpha = 49.32^\circ$ 11 589	6.00	36,00	31,97
50	12	12	 $r = 684$ $\alpha = 26.71^\circ$ 24 618	3.43	41,16	36,55
51	384	12	 95 12	2.02	775,68	688,80
52	251	12	 95 6	1.01	253,51	225,12
53	72	8	 41 41 10	1.85	133,20	52,61

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE TEMELJEV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
54	13	8		1.65	21,45	8,47
<b>Sum TEMELJI LIST ŠT. 03</b>						<b>3.109,83</b>
<b>sum</b>						<b>3.109,83</b>
<b>kpl</b>						<b>1</b>
<b>Teža skupaj:</b>						<b>3.109,83</b>

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
<b>ZIDOVJE LIST ŠT. 03</b>						
60	248	12	 135	1.35	334,80	297,30
61	48	12	 150	1.50	72,00	63,94
62	28	12	 186	1.86	52,08	46,25
63	28	12	 173	1.73	48,44	43,01
64	60	12	 160	1.60	96,00	85,25
65	121	12	 199	1.99	240,79	213,82
66	28	12	 147	1.47	41,16	36,55
67	16	12	 56	0.56	8,96	7,96
68	52	12	 180	1.80	93,60	83,12

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
69	46	12	-a-	-X-	74,16	65,85
70	10	12	208	2.08	20,80	18,47
71	71	12	69.	0.69	48,99	43,50
72	372	12	70 90	1.49	554,28	492,20
73	16	12	102	1.02	16,32	14,49
74	10	12	70 90	1.49	14,90	13,23
75	16	8	306	3.06	48,96	19,34
76	16	8	600	6.00	96,00	37,92
77	16	8	292	2.92	46,72	18,45

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
78	16	8	377	3.77	60,32	23,83
79	16	8	396	3.96	63,36	25,03
80	16	8	374	3.74	59,84	23,64
81	18	8	600	6.00	108,00	42,66
82	20	8	250	2.50	50,00	19,75
83	20	8	124	1.24	24,80	9,80
84	20	8	65	0.65	13,00	5,14
85	8	8	251	2.51	20,08	7,93
86	20	8	399	3.99	79,80	31,52

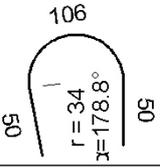
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
87	26	8	414	4.14	107,64	42,52
88	10	8	275	2.75	27,50	10,86
89	10	8	270	2.70	27,00	10,67
90	16	8	242	2.42	38,72	15,29
91	18	8	166	1.66	29,88	11,80
92	18	8	190	1.90	34,20	13,51
93	20	8	206	2.06	41,20	16,27
94	20	8	147	1.47	29,40	11,61
95	20	8	204	2.04	40,80	16,12

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
96	20	8		0.60	12,00	4,74
97	8	8		2.07	16,56	6,54
98	8	8		2.06	16,48	6,51
<b>Sum ZIDOVJE LIST ŠT. 03</b>						<b>1.956,39</b>
<b>sum</b>						<b>1.956,39</b>
<b>kpl</b>						<b>1</b>
<b>Teža skupaj:</b>						<b>1.956,39</b>

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE ZIDOVJA**

Bar shapes placed in polygon

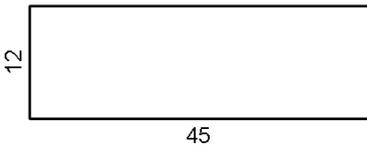
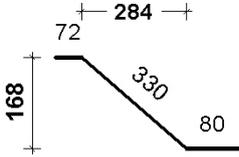
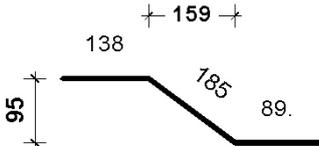
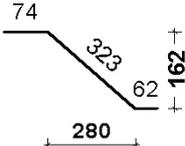
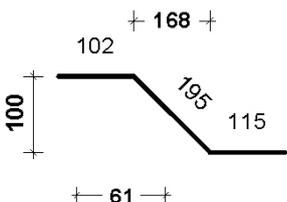
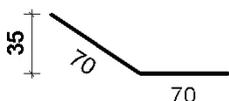
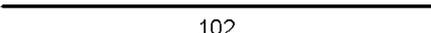
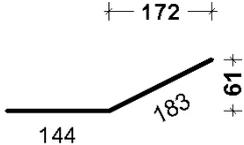
Mark	Pcs	Segment										Length [cm]
		a [cm]	b [cm]	c [cm]	d [cm]	e [cm]	f [cm]	g [cm]	h [cm]	i [cm]	j [cm]	
<b>Mark 69</b>												
69.01	2	116										116
69.02	2	120										120
69.03	2	124										124
69.04	2	128										128
69.05	2	133										133
69.06	2	137										137
69.07	2	141										141
69.08	2	145										145
69.09	2	149										149
69.10	2	153										153
69.11	2	157										157
69.12	2	161										161
69.13	2	165										165
69.14	2	169										169
69.15	2	174										174
69.16	2	178										178
69.17	2	182										182
69.18	2	186										186
69.19	2	190										190
69.20	2	194										194
69.21	2	198										198
69.22	2	202										202
69.23	2	206										206

**Mark 69: 46 Ø 12 Total length: 74,16 m**



**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
PODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	lolžina pozicije [m]	Teža [kg]
<b>STOPNICE IN PODESTI LIST ŠT. 04</b>						
1	61	8		0.93	56,73	22,41
2	455	8		1.02	464,10	183,32
3	6	12		4.82	28,92	25,68
4	6	12		4.12	24,72	21,95
5	6	12		4.58	27,48	24,40
6	6	12		4.12	24,72	21,95
7	24	12		1.40	33,60	29,84
8	76	10		1.02	77,52	47,83
9	10	12		3.27	32,70	29,04

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
 BODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
10	10	12		3.28	32,80	29,13
11	10	12		1.55	15,50	13,76
12	36	10		1.82	65,52	40,43
13	8	12		6.00	48,00	42,62
14	3	12		4.03	12,09	10,74
15	2	12		2.00	4,00	3,55
16	22	10		2.28	50,16	30,95
17	22	10		1.90	41,80	25,79
18	22	10		1.51	33,22	20,50

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
BODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
19	10	12		6.00	60,00	53,28
20	10	12		5.45	54,50	48,40
21	46	10		3.33	153,18	94,51
22	37	12		5.37	198,69	176,44
23	47	12		5.57	261,79	232,47
24	36	10		6.00	216,00	133,27
25	55	12		6.00	330,00	293,04
26	55	12		6.00	330,00	293,04
27	12	12		5.70	68,40	60,74

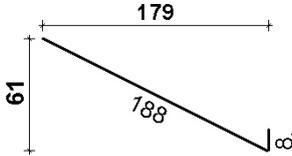
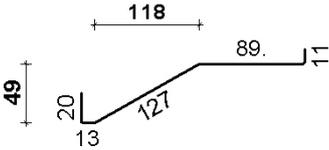
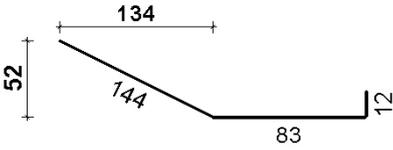
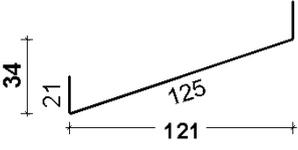
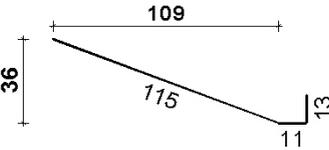
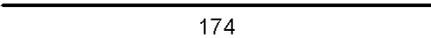
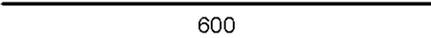
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
BORESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
28	12	12		5.50	66,00	58,61
29	4	12		3.35	13,40	11,90
30	4	12		3.22	12,88	11,44
31	110	10		6.00	660,00	407,22
32	14	12		0.93	13,02	11,56
33	14	12		0.85	11,90	10,57
34	28	12		1.43	40,04	35,56
35	28	12		1.16	32,48	28,84
36	15	12		2.23	33,45	29,70

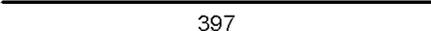
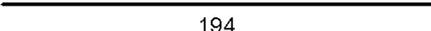
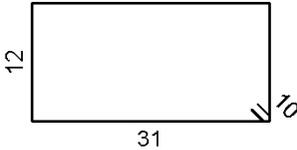
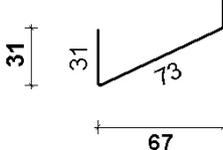
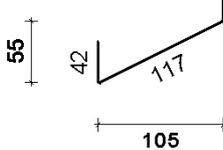
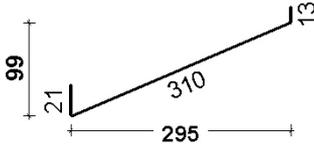
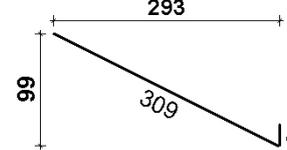
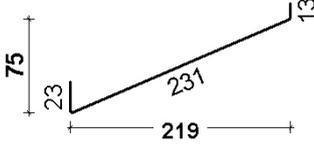
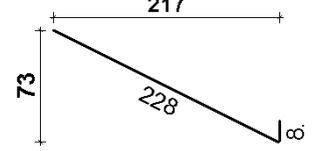
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
RODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
37	15	12		1.96	29,40	26,11
38	14	12		2.60	36,40	32,32
39	14	12		2.38	33,32	29,59
40	14	12		1.58	22,12	19,64
41	14	12		1.38	19,32	17,16
42	10	10		6.00	60,00	37,02
43	10	10		1.74	17,40	10,74
44	6	10		6.00	36,00	22,21
45	6	10		4.90	29,40	18,14

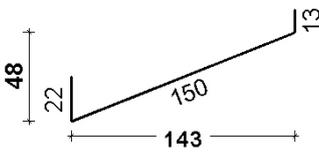
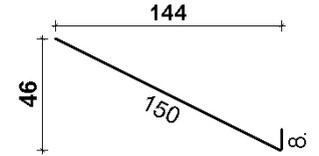
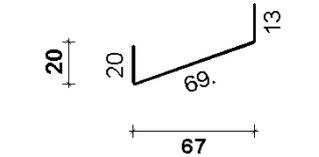
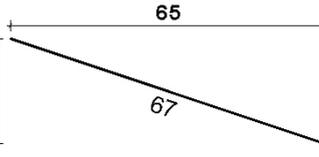
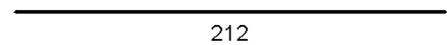
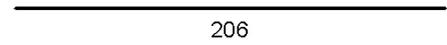
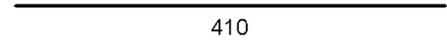
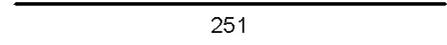
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
RODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
46	8	10		3.97	31,76	19,60
47	4	10		1.94	7,76	4,79
48	15	8		1.06	15,90	6,28
49	15	12		1.17	17,55	15,58
50	11	12		1.73	19,03	16,90
51	15	12		3.43	51,45	45,69
52	15	12		3.17	47,55	42,22
53	14	12		2.66	37,24	33,07
54	14	12		2.37	33,18	29,46

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
BODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
55	14	12		1.85	25,90	23,00
56	14	12		1.58	22,12	19,64
57	15	12		1.02	15,30	13,59
58	15	12		0.76	11,40	10,12
59	6	10		2.12	12,72	7,85
60	6	10		4.03	24,18	14,92
61	12	10		2.06	24,72	15,25
62	26	10		4.10	106,60	65,77
63	18	10		2.51	45,18	27,88

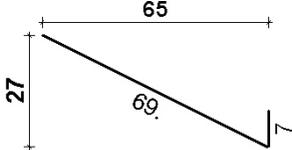
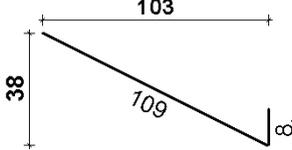
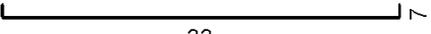
**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
 BODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
64	8	10	284	2.84	22,72	14,02
65	8	10	353	3.53	28,24	17,42
66	4	12	300	3.00	12,00	10,66
67	8	12	374	3.74	29,92	26,57
68	4	12	406	4.06	16,24	14,42
69	4	12	536	5.36	21,44	19,04
70	4	12	242	2.42	9,68	8,60
71	8	12	141	1.41	11,28	10,02
72	8	12	284	2.84	22,72	20,18

**PALIČNA ARMATURA - OBLIKA KRIVLJENJA**

**IZVLEČEK ARMATURE STOPNIC IN  
 PODESTOV**

Poz.	n [kos]	Ø [mm]	Oblika krivljenja	Dolžina [m]	Iolžina pozicije [m]	Teža [kg]
73	2	12	 199	1,99	3,98	3,53
74	4	12	 260	2,60	10,40	9,24
75	12	12	 27, 65, 69	0,76	9,12	8,10
76	8	12	 38, 103, 109	1,17	9,36	8,31
77	156	8	 33	0,46	71,76	28,35
78	39	8	 67	0,67	26,13	10,32
<b>Sum STOPNICE IN PODESTI LIST ŠT. 04</b>						<b>3.447,76</b>
<b>sum</b>						<b>3.447,76</b>
<b>kpl</b>						<b>1</b>
<b>Teža skupaj:</b>						<b>3.447,76</b>

# IZVLEČEK MREŽ



UROŠ ŽVAN S.P., ZRKOVSKA 75, MARIBOR

Poz.	n	Mreža	Dim.	l [m]	b [m]	Teža [kg]
<b>STOPNICE IN PODESTI LIST ŠT. 04</b>						
1	2	Q 335	220	1,500	2,200	35,15
2	2	Q 335	220	3,100	2,200	72,64
3	6	Q 335	220	3,000	2,200	210,90
4	2	Q 335	220	0,800	2,200	18,75
5	2	Q 335	220	3,400	2,200	79,67
6	2	Q 335	220	1,400	2,200	32,81
7	2	Q 335	220	6,000	2,200	140,60
8	2	Q 335	205	2,100	2,050	45,85

## IZVLEČEK MREŽ



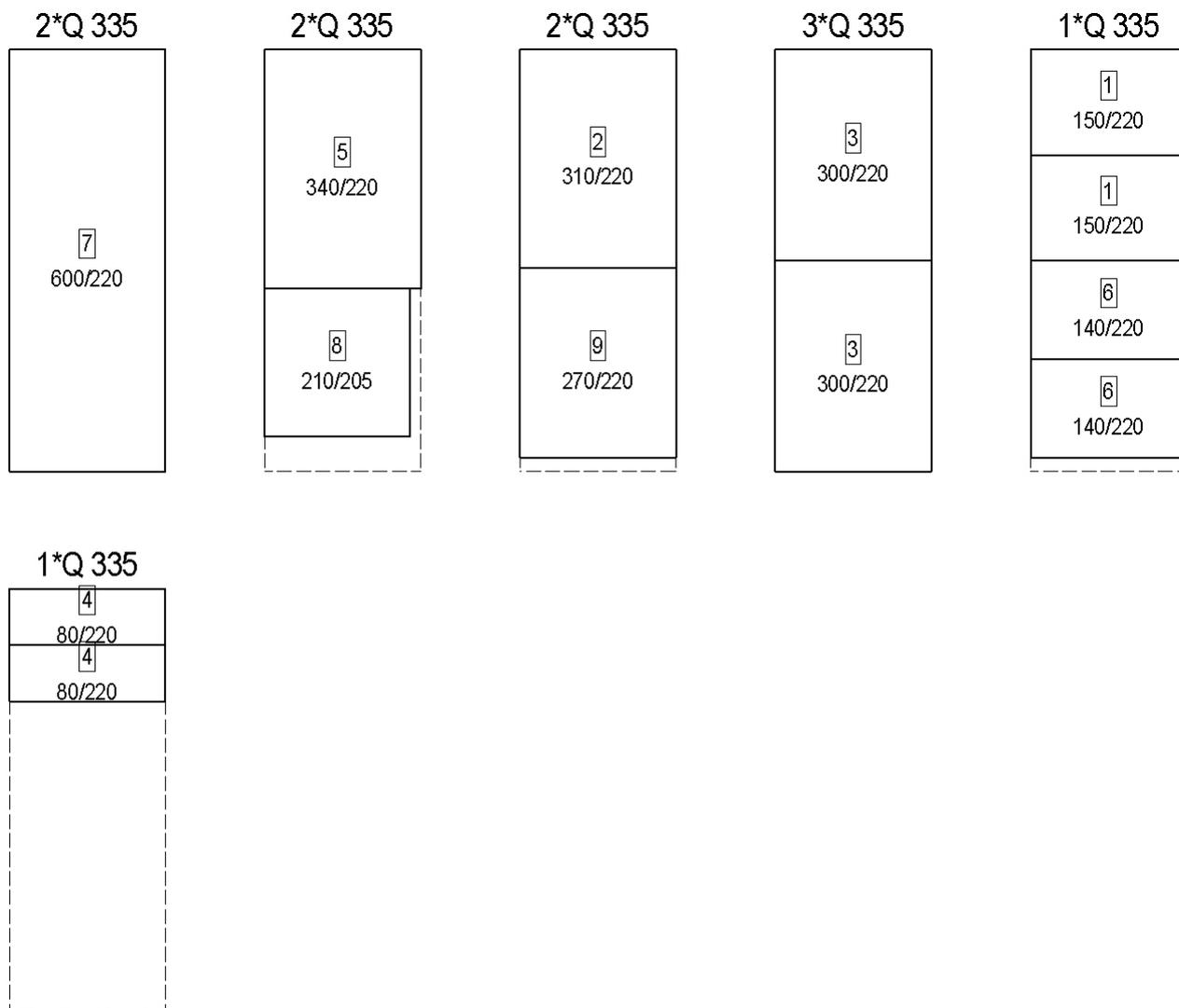
UROŠ ŽVAN S.P., ZRKOVSKA 75, MARIBOR

Poz.	n	Mreža	Dim.	l [m]	b [m]	Teža [kg]
9	2	Q 335	220	2,700	2,200	63,27
<b>Sum STOPNICE IN PODESTI LIST ŠT. 04</b>						<b>699,64</b>
<b>sum.</b>						<b>699,64</b>
kpl						1
<b>Teža skupaj</b>						<b>699,64</b>

# RAZREZ MREŽ



UROŠ ŽVAN S.P., ZRKOVSKA 75, MARIBOR



Štev.	Opis	Bruto teža	Neto teža
11	Q 335	773.30	699.64
11	Vsota	773.30	699.64

## RAZREZ MREŽ

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UROŠ ŽVAN S.P., ZRKOVSKA 75, MARIBOR

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Štev.	Opis	Bruto teža	Neto teža
11	Q 335	773.30	699.64
11	Vsota	773.30	699.64

			FIKSNA DOLŽINA [kg]					KRIVLJENA DOLŽINA [kg]						PALICE [kg]	MREŽE [kg]
			6-8 mm	10 mm	12 mm	14 mm	>14 mm	6-8 mm	10 mm	12 mm	14 mm	>14 mm			
STOPNICE IN PODESTI LIST ŠT. 04		1	10,3	1076,1	179,2			240,4		1941,8			78	3447,8	699,6
ZIDOVJE LIST ŠT. 03		1	418,4		1019,5			13,1		505,4			39	1956,4	
TEMELJI LIST ŠT. 03		1			1390			737,4		982,4			54	3109,8	
<b>Total</b>			<b>428,7</b>	<b>1076,1</b>	<b>2588,6</b>			<b>990,8</b>		<b>3429,7</b>			<b>171</b>	<b>8513,9</b>	<b>699,6</b>
<b>TEŽA SKUPAJ [kg]</b>													<b>9213,5</b>		

