

Osnovni podaci o modelu, Ulazni podaci - Konstrukcija

Datoteka: 1_Osmine A_ISPRAVAK.twp
Datum proračuna: 21.4.2016

Način proračuna: 3D model

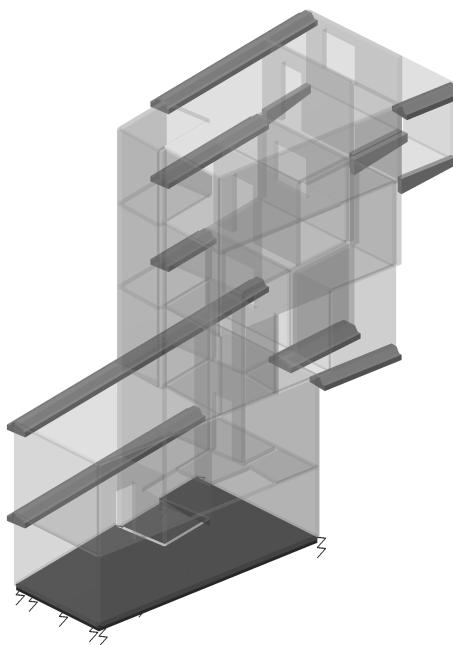
- ☒ Teorija I-og reda ☒ Modalna analiza ☐ Stabilnost
☐ Teorija II-og reda ☒ Seizmički proračun ☐ Faze građenja
☐ Nelinearni proračun

Veličina modela

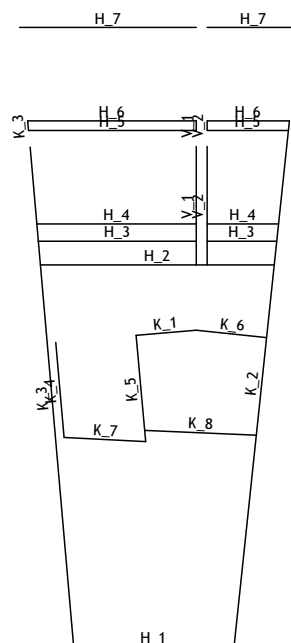
Broj čvorova: 5206
 Broj pločastih elemenata: 4215
 Broj grednih elemenata: 22
 Broj graničnih elemenata: 3301
 Broj osnovnih slučajeva opterećenja: 4
 Broj kombinacija opterećenja: 12

Jedinice mjera

Dužina: m [cm,mm]
 Sila: kN
 Temperatura: Celsius



Izometrija



Dispozicija okvira

Tabela materijala

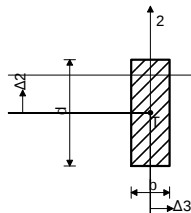
No	Naziv materijala	E[kN/m ²]	μ	γ [kN/m ³]	α [1/C]	Em[kN/m ²]	μ_m
1	Beton C25/30	3.150e+7	0.20	25.00	1.000e-5	3.150e+7	0.20
2	Beton C25/30	3.050e+7	0.20	25.00	1.000e-5	3.050e+7	0.20

Setovi ploča

No	d[m]	e[m]	Materijal	Tip proračuna	Ortotropija	E2[kN/m ²]	G[kN/m ²]	α
<1>	0.160	0.080	1	Tanka ploča	Izotropna			
<2>	0.200	0.100	1	Tanka ploča	Izotropna			

Setovi greda

Set: 1 Presjek: Promjenjiv, Fiktivna ekscentričnost



Mat. 2 - Beton C25/30
Tip promjene Relativna linearna promjena.

No	dL	$\Delta 3$ [cm]	$\Delta 2$ [cm]	b [cm]	d [cm]
S	0	0.00	-19.50	20.00	55.00
E	1	0.00	-7.00	20.00	30.00

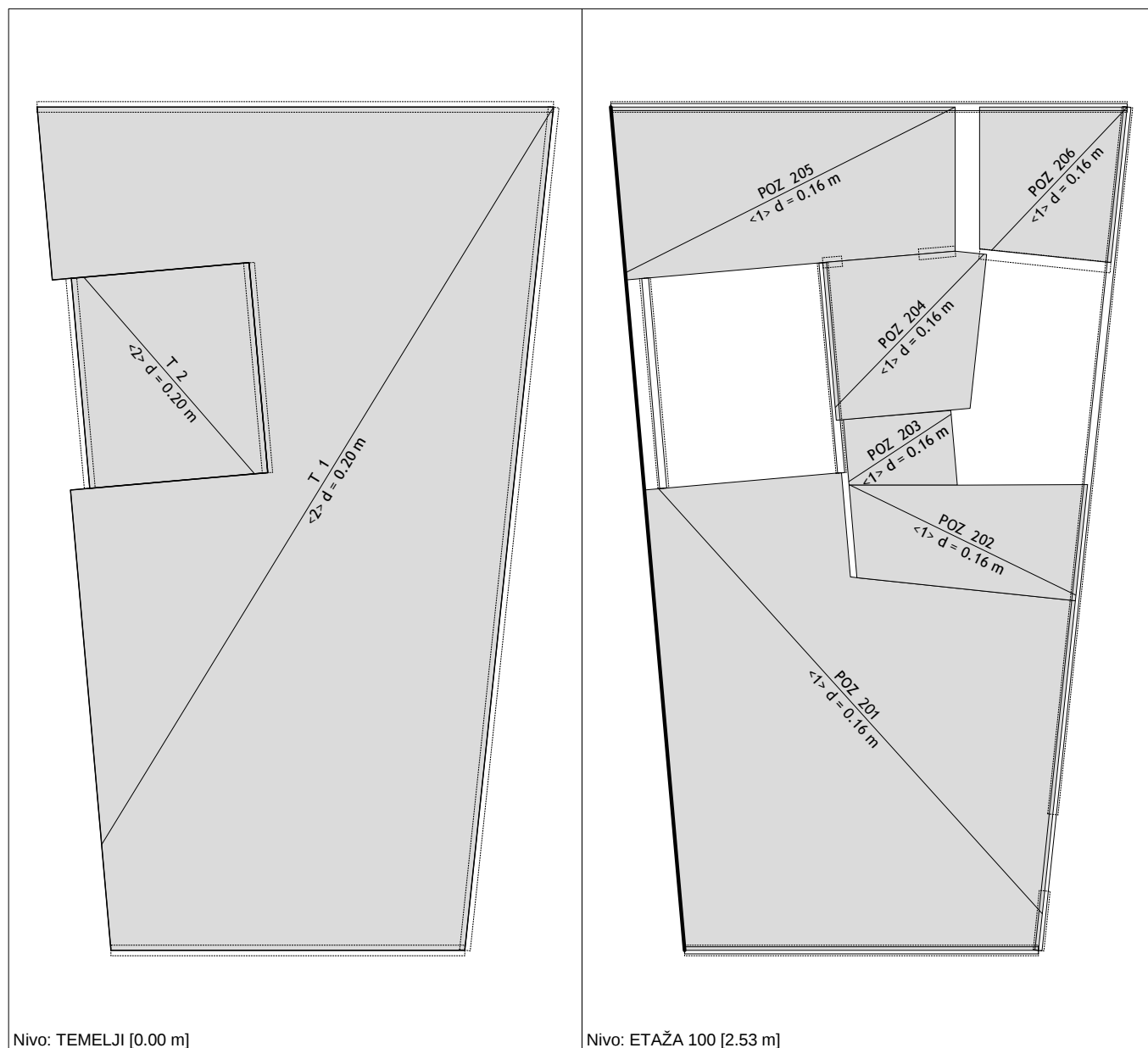
Setovi površinskih ležajeva

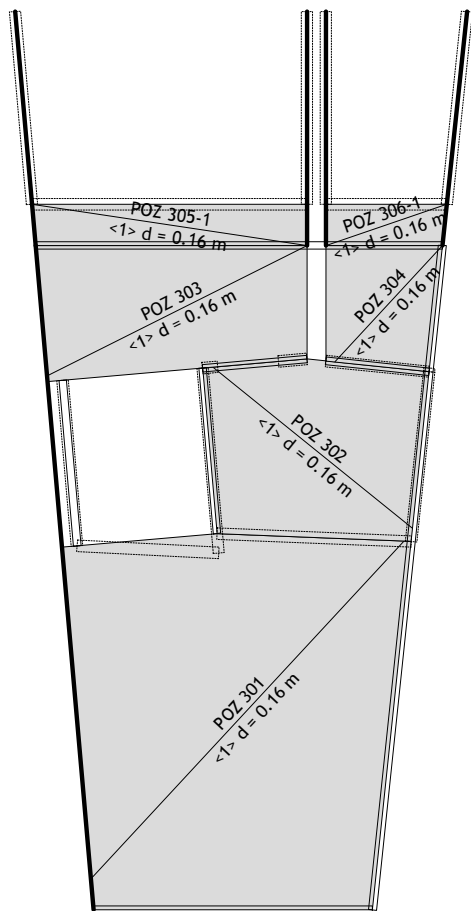
Set	K,R1	K,R2	K,R3
1	1.000e+5	1.000e+5	1.000e+5

Setovi linijskih ležajeva

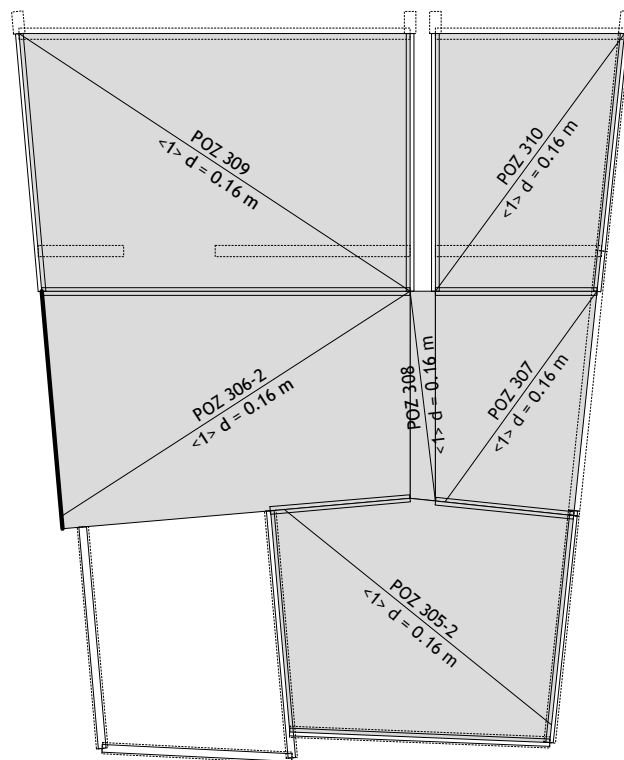
Set	K,R1	K,R2	K,R3	K,M1	Tlo [m]
1		1.000e+5			

PLAN POZICIJA

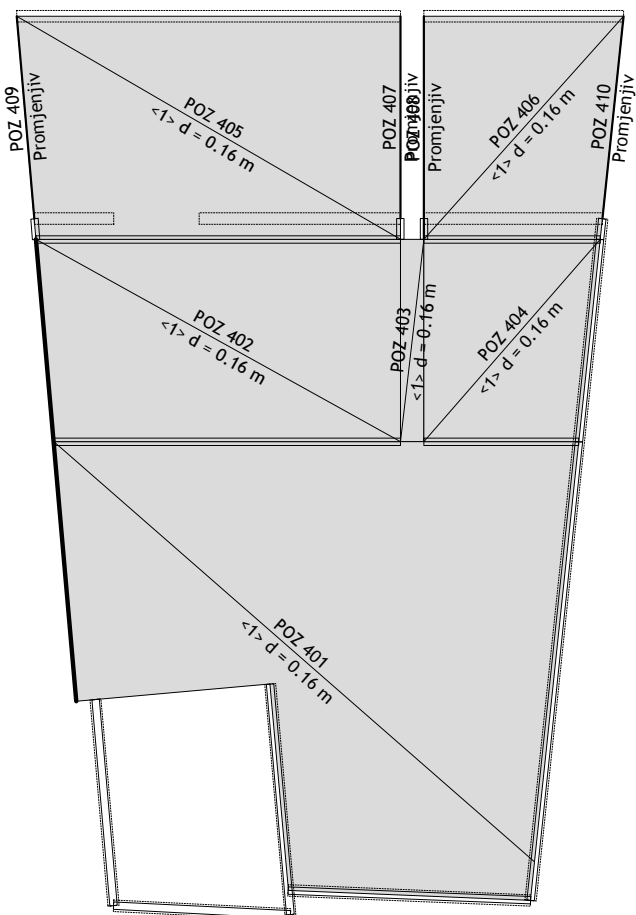




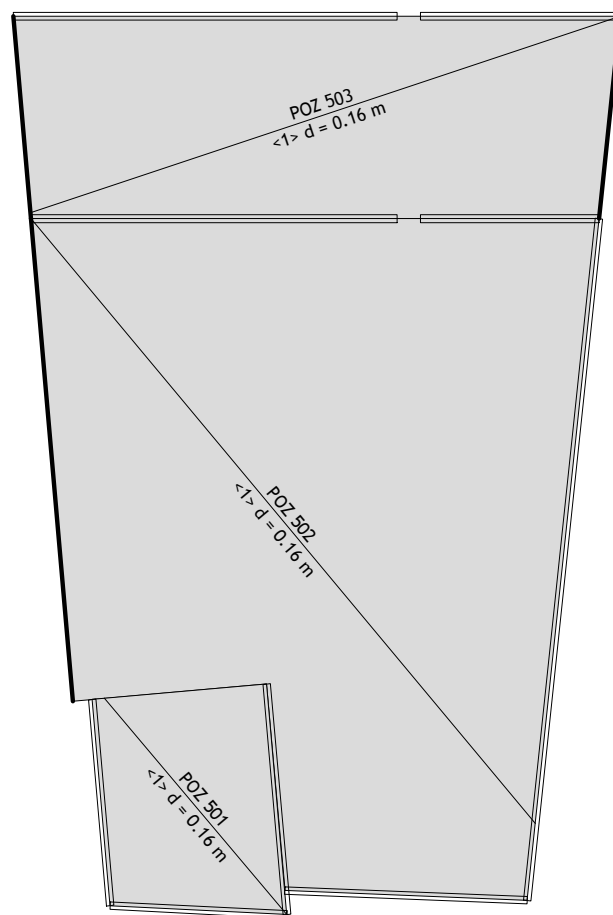
Nivo: ETAŽA 200 [5.82 m]



Nivo: ETAŽA 300 [8.70 m]



Nivo: ETAŽA 400 [11.70 m]



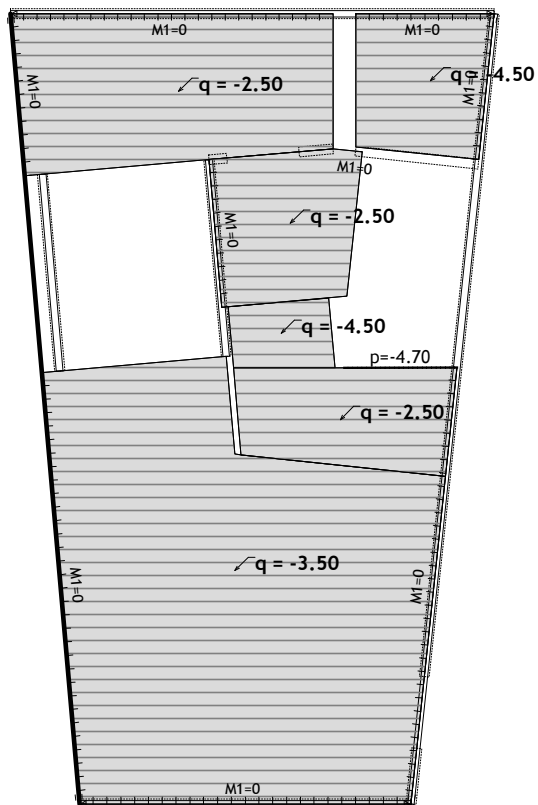
Nivo: ETAŽA 500 [14.40 m]

Ulazni podaci - Opterećenje

Lista slučajeva opterećenja

LC	Naziv
1	STALNO (g)
2	UPORABNO
3	POTRES X-SMJER
4	POTRES Y-SMJER
5	Komb.: 1.35xI+1.5xII
6	Komb.: I+1.5xII
7	Komb.: I+0.3xII+IV
8	Komb.: I+0.3xII-1xIV

Opt. 1: STALNO (g)

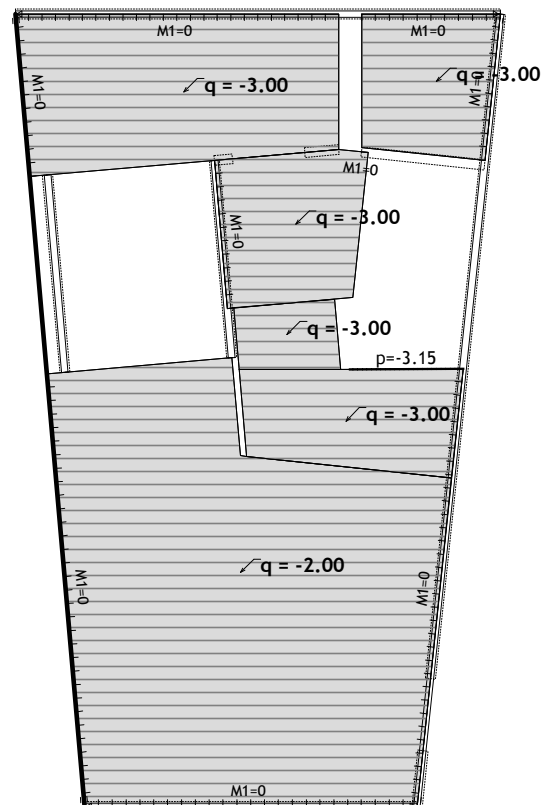


Nivo: ETAŽA 100 [2.53 m]

Opt. 2: UPORABNO

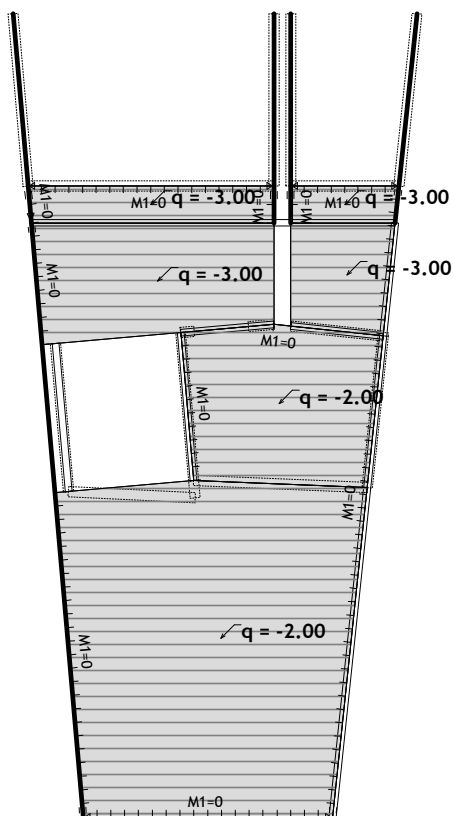
LC	Naziv
9	Komb.: I+0.3xII-1xIII
10	Komb.: I+0.3xII+III
11	Komb.: I-1xIV
12	Komb.: I-1xIII
13	Komb.: I+IV
14	Komb.: I+III
15	Komb.: 1.35xI
16	Komb.: I+II

Opt. 2: UPORABNO

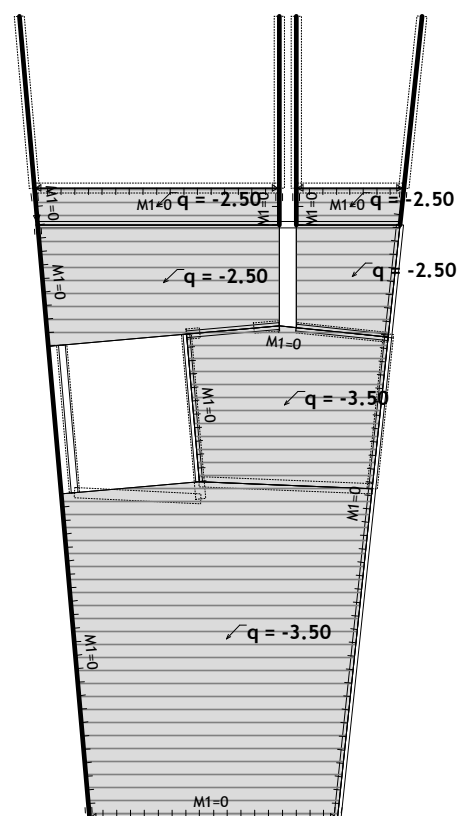


Nivo: ETAŽA 100 [2.53 m]

Opt. 1: STALNO (g)

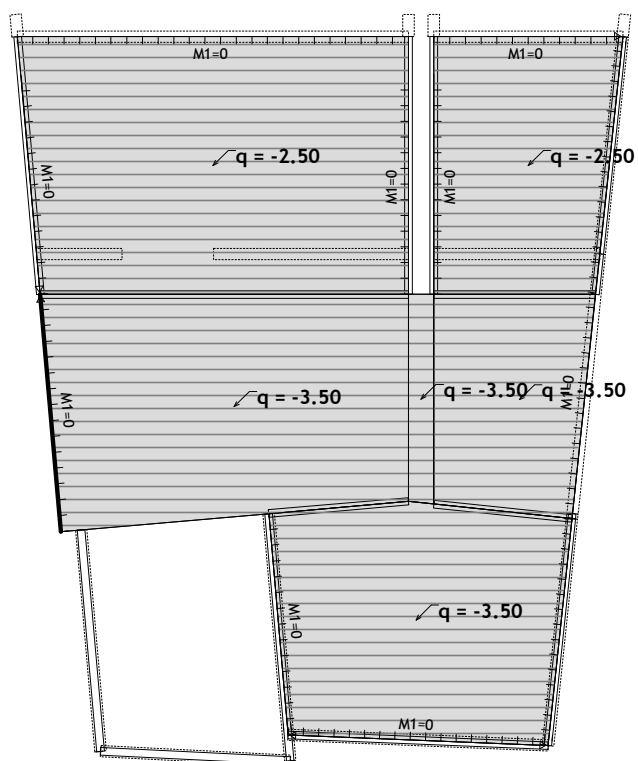


Nivo: ETAŽA 200 [5.82 m]



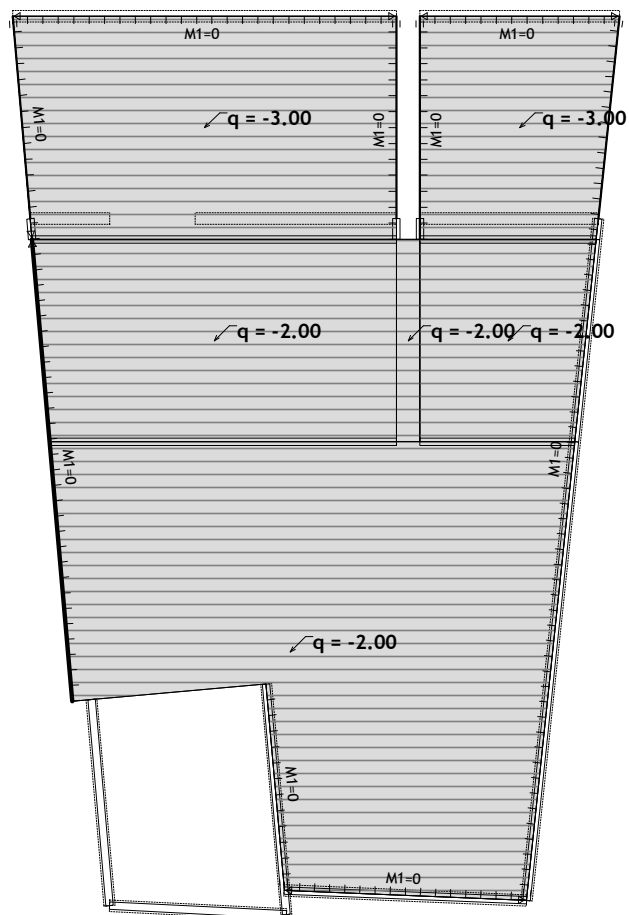
Nivo: ETAŽA 200 [5.82 m]

Opt. 1: STALNO (g)



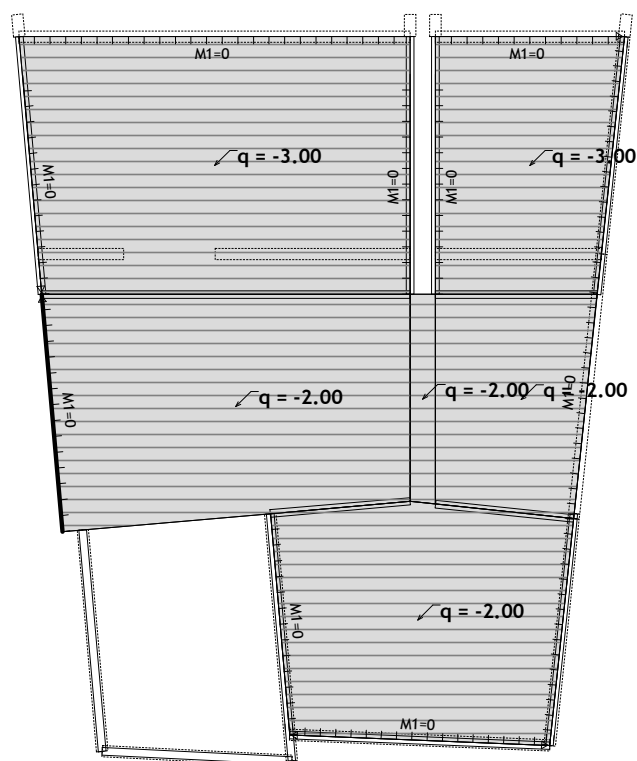
Nivo: ETAŽA 300 [8.70 m]

Opt. 2: UPORABNO



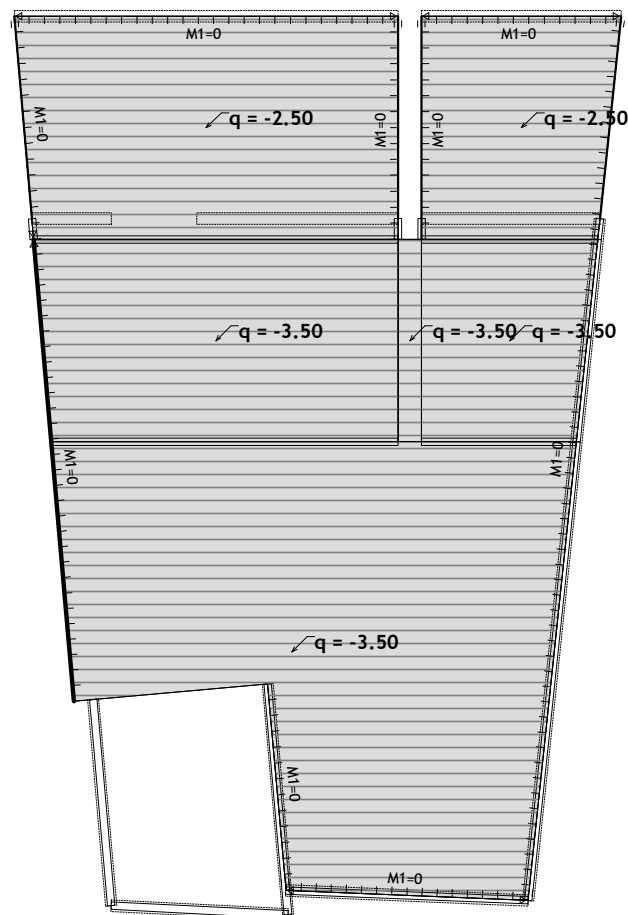
Nivo: ETAŽA 400 [11.70 m]

Opt. 2: UPORABNO



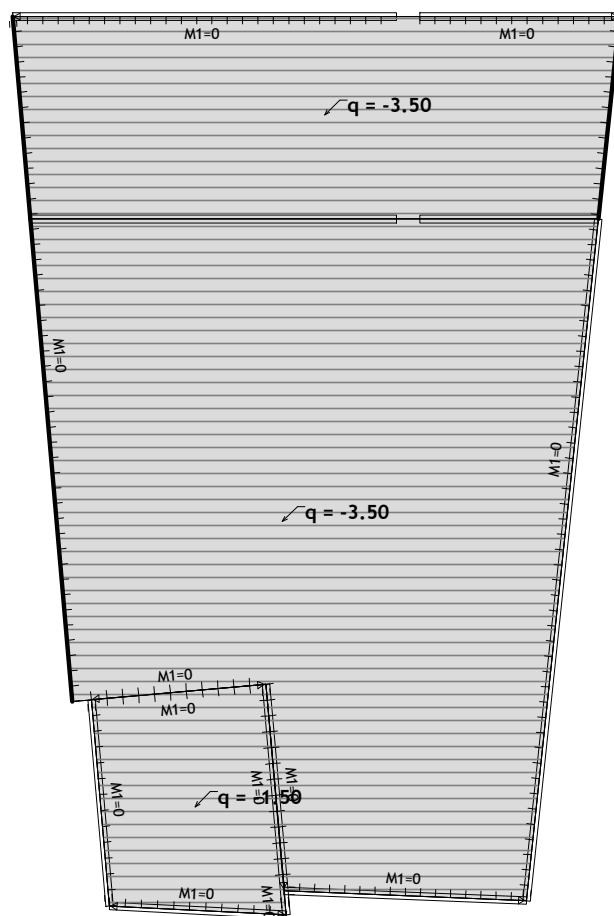
Nivo: ETAŽA 300 [8.70 m]

Opt. 1: STALNO (g)



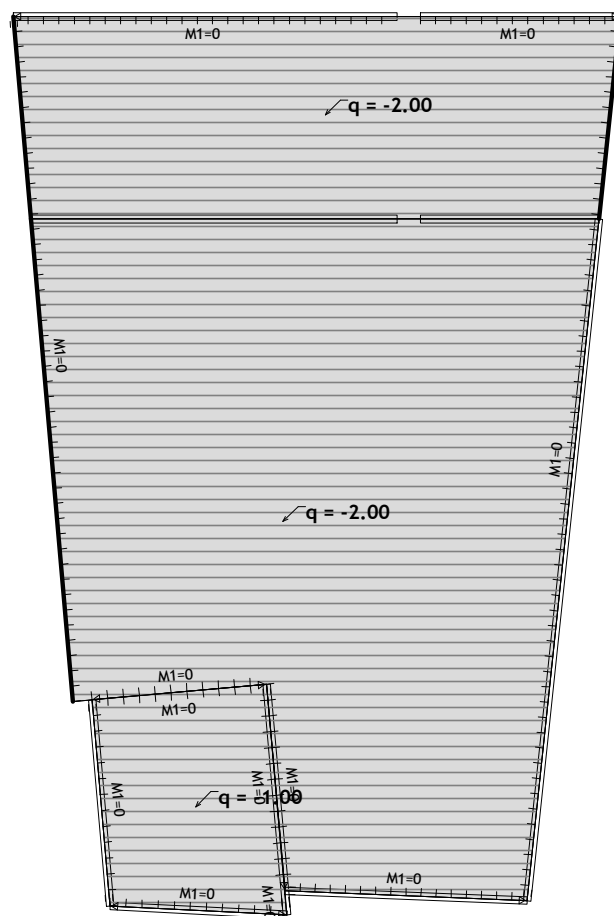
Nivo: ETAŽA 400 [11.70 m]

Opt. 1: STALNO (g)



Nivo: ETAŽA 500 [14.40 m]

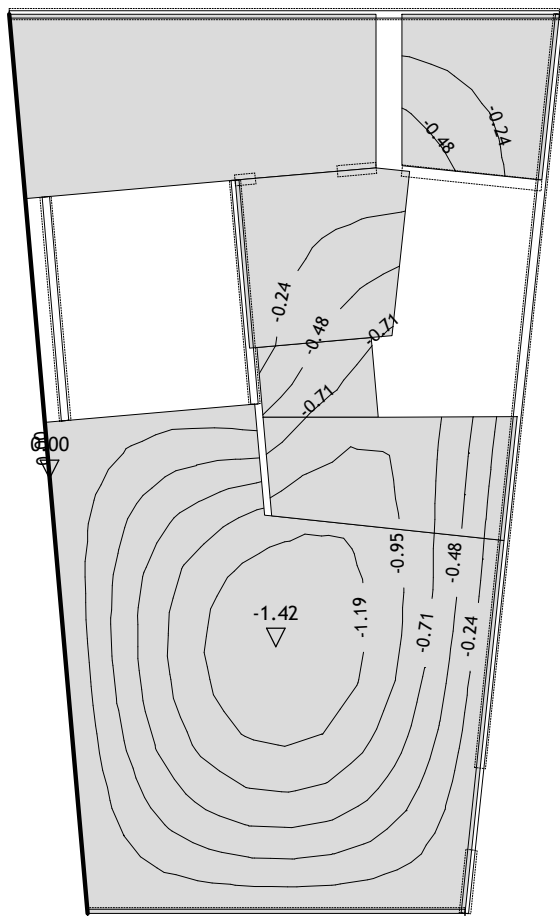
Opt. 2: UPORABNO



Nivo: ETAŽA 500 [14.40 m]

Statički proračun

Opt. 4: I+II

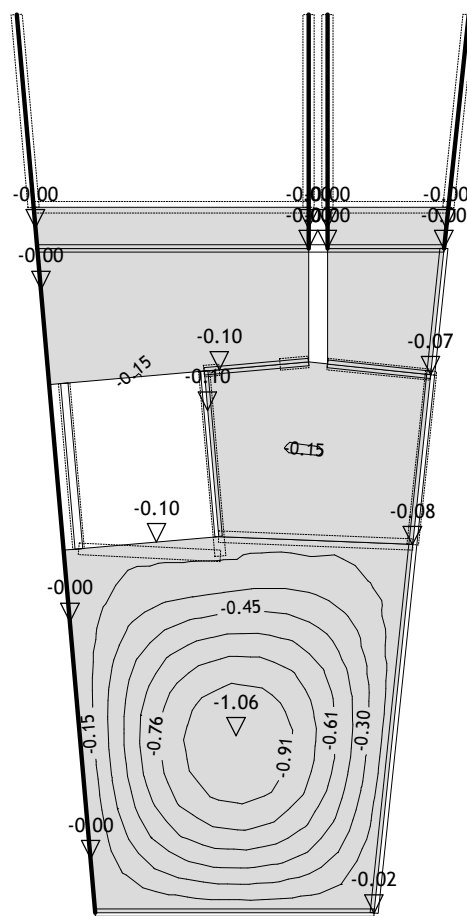


Nivo: ETAŽA 100 [2.53 m]

Utjecaji u ploči: max $Z_p = 0.00$ / min $Z_p = -1.42$ m / 1000

Opt. 4: I+II

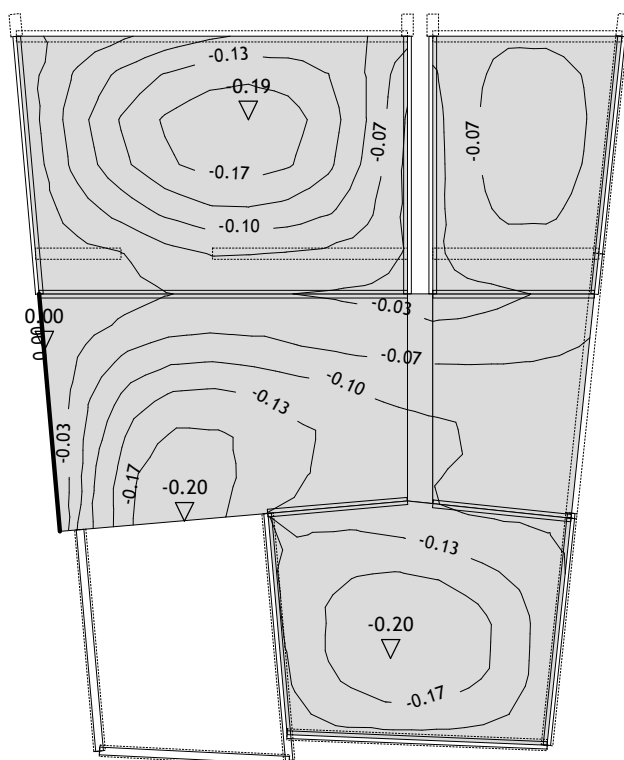
Opt. 4: I+II



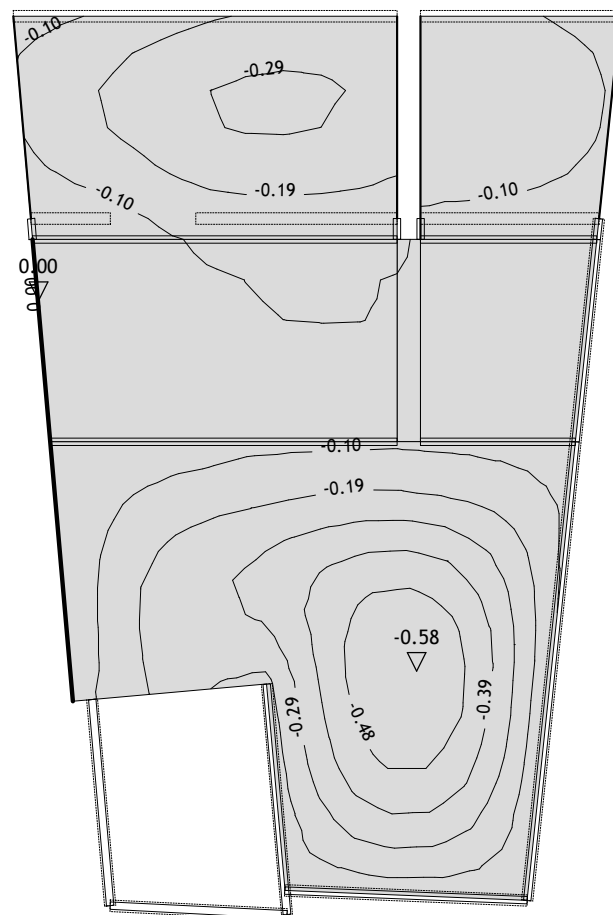
Nivo: ETAŽA 200 [5.82 m]

Utjecaji u ploči: max $Z_p = -0.00$ / min $Z_p = -1.06$ m / 1000

Opt. 4: I+II



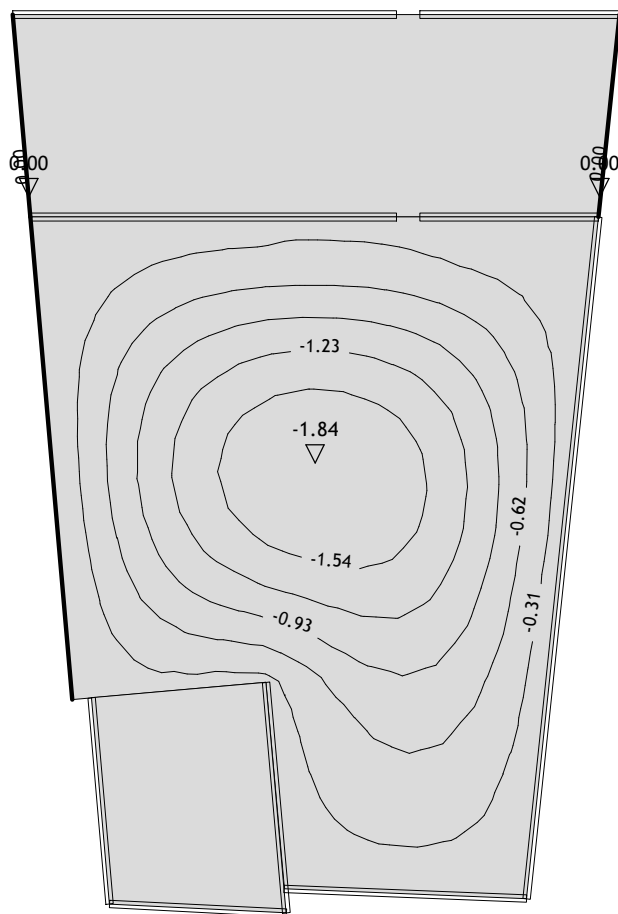
Nivo: ETAŽA 300 [8.70 m]

Utjecaji u ploči: max $Z_p = 0.00$ / min $Z_p = -0.20$ m / 1000

Nivo: ETAŽA 400 [11.70 m]

Utjecaji u ploči: max $Z_p = 0.00$ / min $Z_p = -0.58$ m / 1000

Opt. 4: I+II

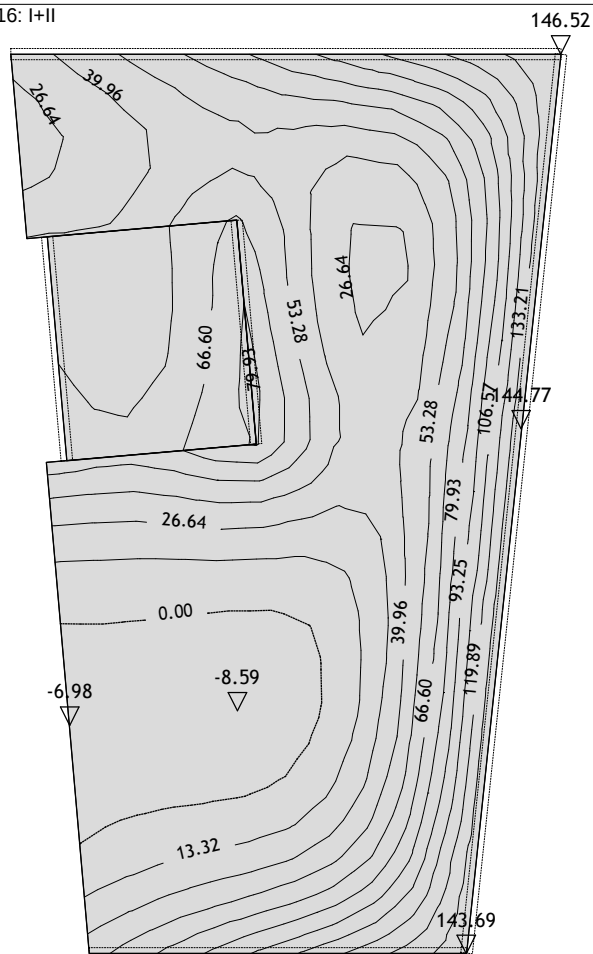


Nivo: ETAŽA 500 [14.40 m]

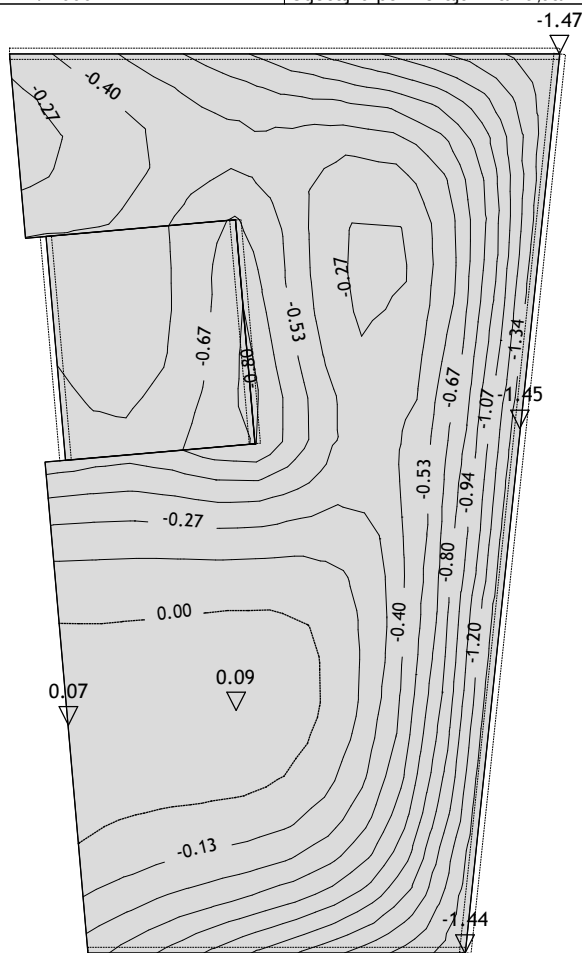
Utjecaji u ploči: max $Z_p = 0.00$ / min $Z_p = -1.84$ m / 1000

Opt. 16: I+II

Opt. 16: I+II



Nivo: TEMELJI [0.00 m]

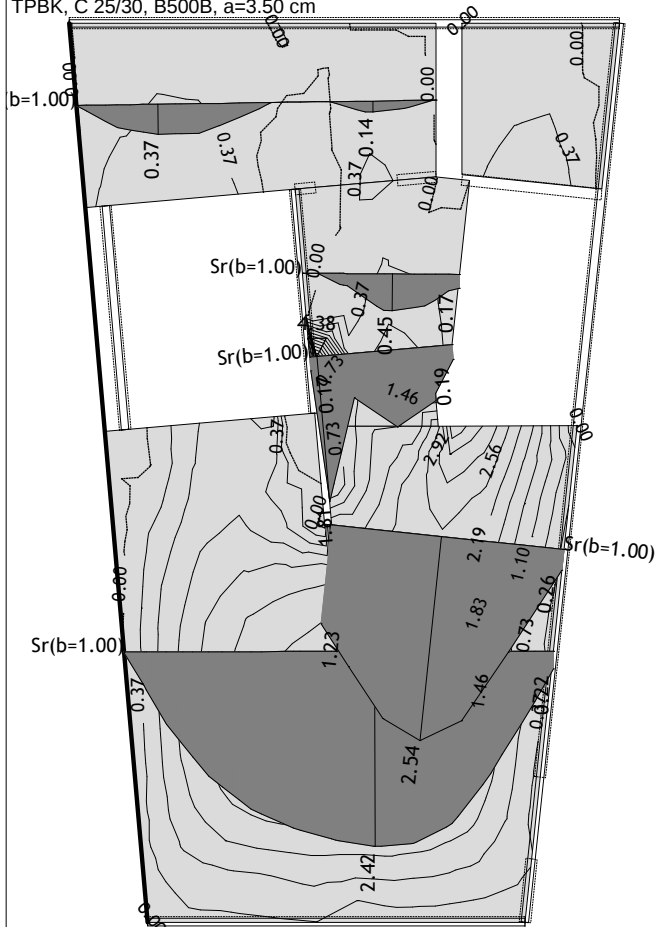
Utjecaji u pov. ležaju: max $\sigma_{tla} = 146.52$ / min $\sigma_{tla} = -8.59$ kN/m²

Nivo: TEMELJI [0.00 m]

Utjecaji u pov. ležaju: max $s_{tla} = 0.09$ / min $s_{tla} = -1.47$ m / 1000

Dimenzioniranje (beton)

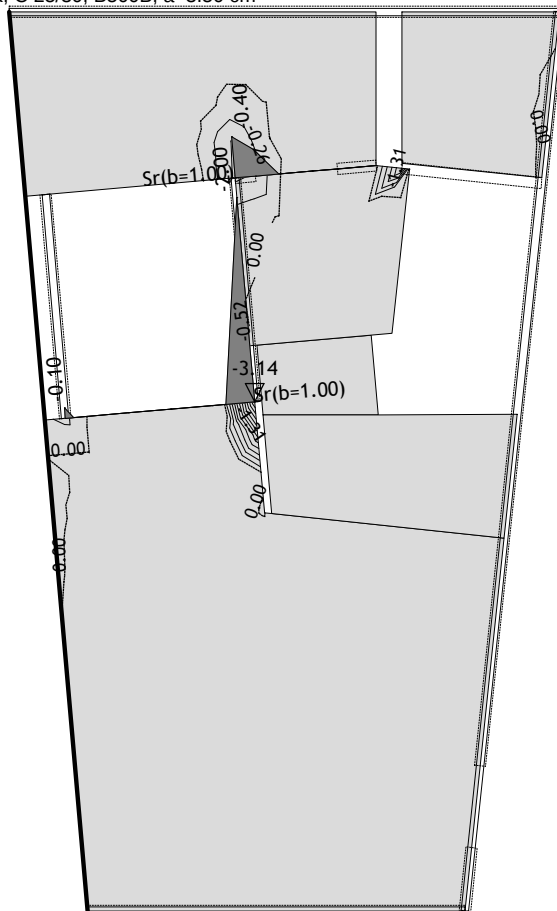
Mjerodavno opterećenje: $1.35xI + 1.50xII$
TPBK, C 25/30, B500B, $a=3.50$ cm



Nivo: ~~ETA~~ŽA 100 [2.53 m]

Aa - d.zona - Pravac 1 - max Aa1,d= 4.38 cm²/m

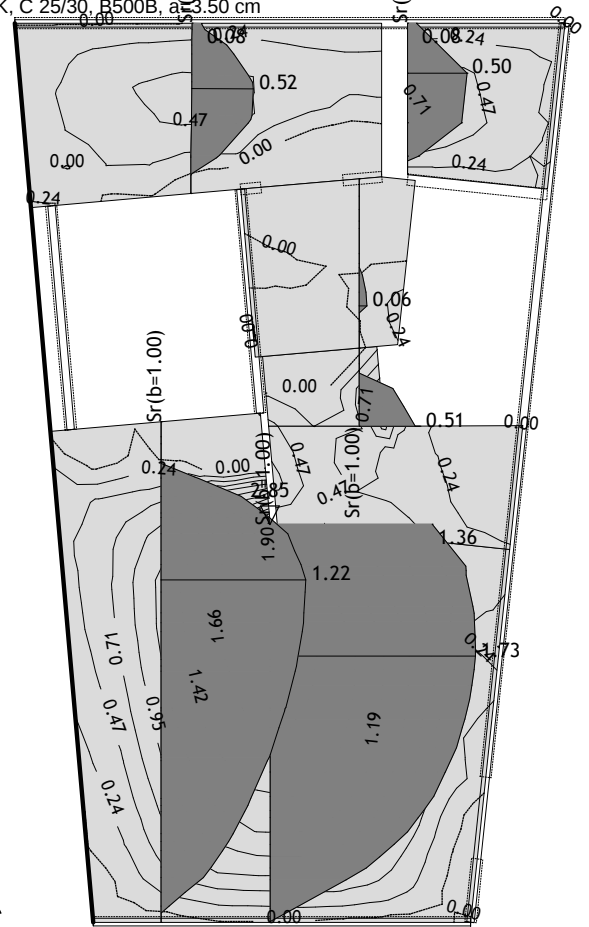
Mjerodavno opterećenje: 1.35xl+1.50xll
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: EŽAŽA 100 [2.53 m]

Aa - g.zona - Pravac 1 - max Aa1,g= -3.14 cm²/m

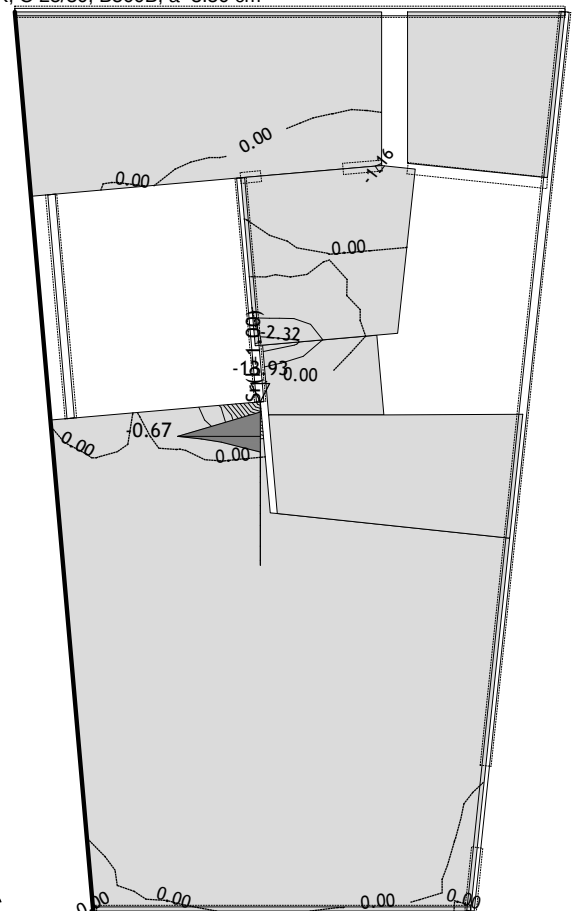
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a_s=3.50 cm



Nivo: ETAŽA 100 [2.53 m]

Aa - d.zona - Pravac 2 - max Aa2,d= 2.85 cm²/m

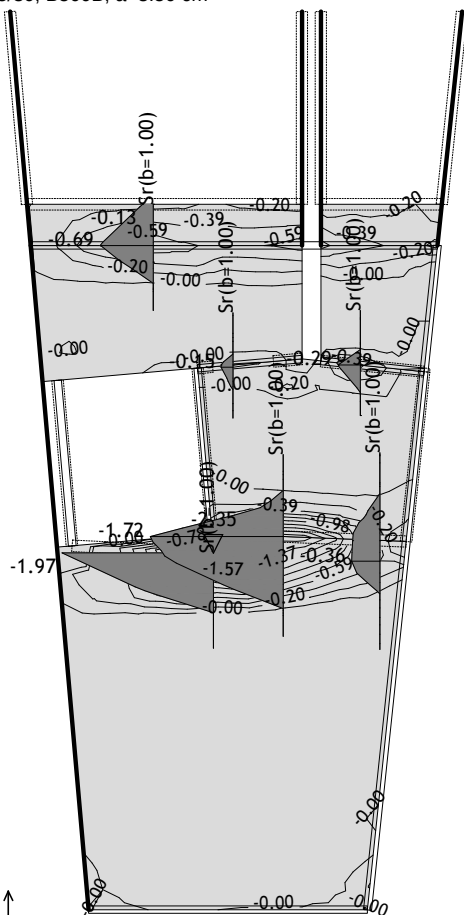
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 100 [2.53 m]

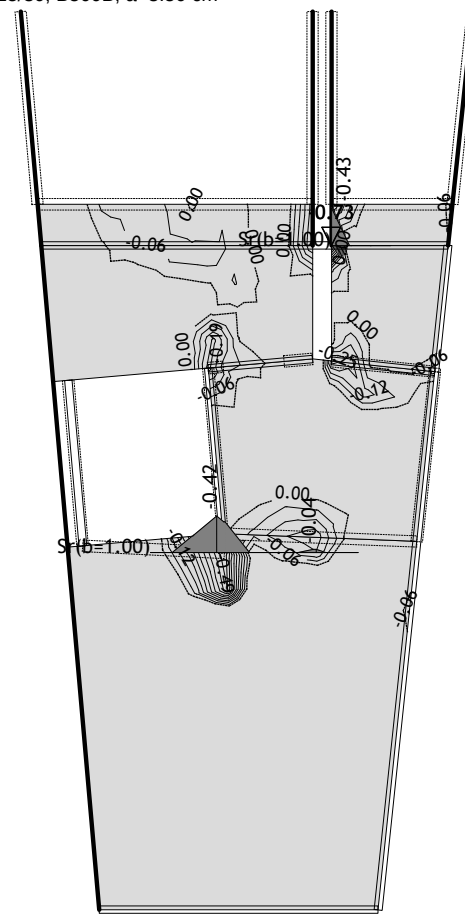
Aa - g.zona - Pravac 2 - max Aa2,g= -13.93 cm²/m

Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm

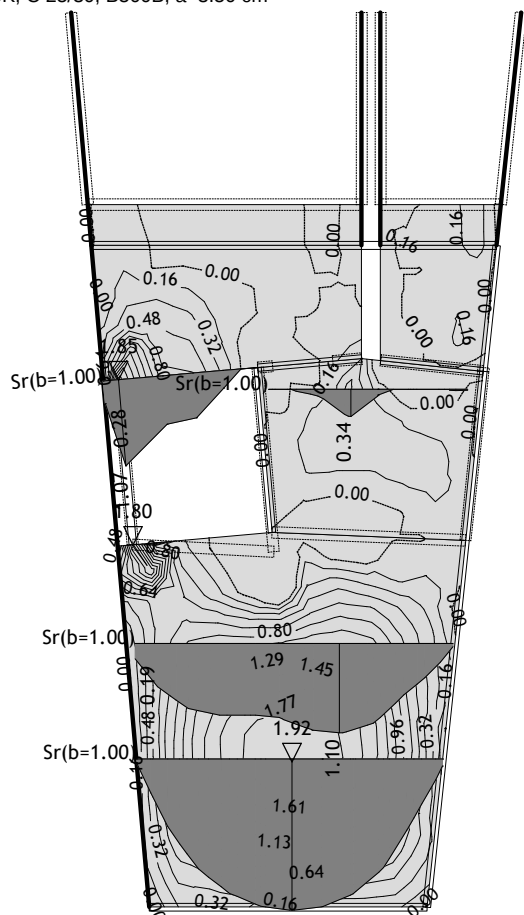


Nivo: ETAŽA 200 [5.82 m]
Aa - g.zona - Pravac 2 - max Aa2,g= -2.35 cm²/m
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm

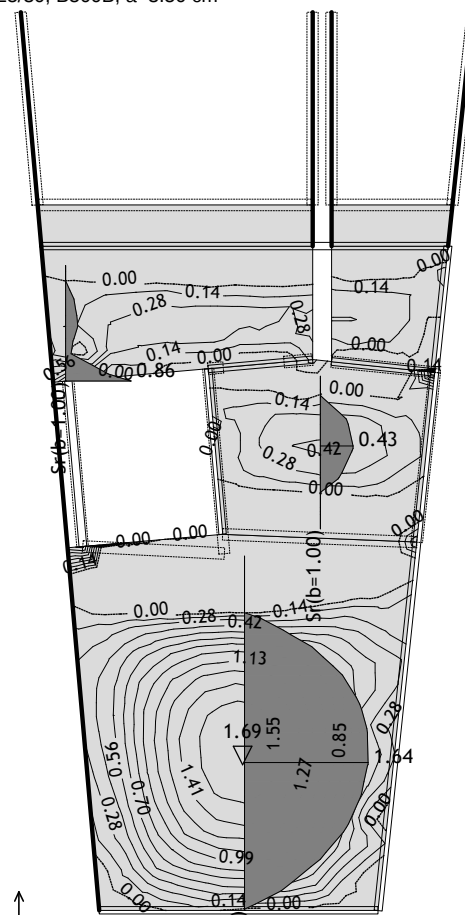
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 200 [5.82 m]
Aa - g.zona - Pravac 1 - max Aa1,g= -0.73 cm²/m
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm

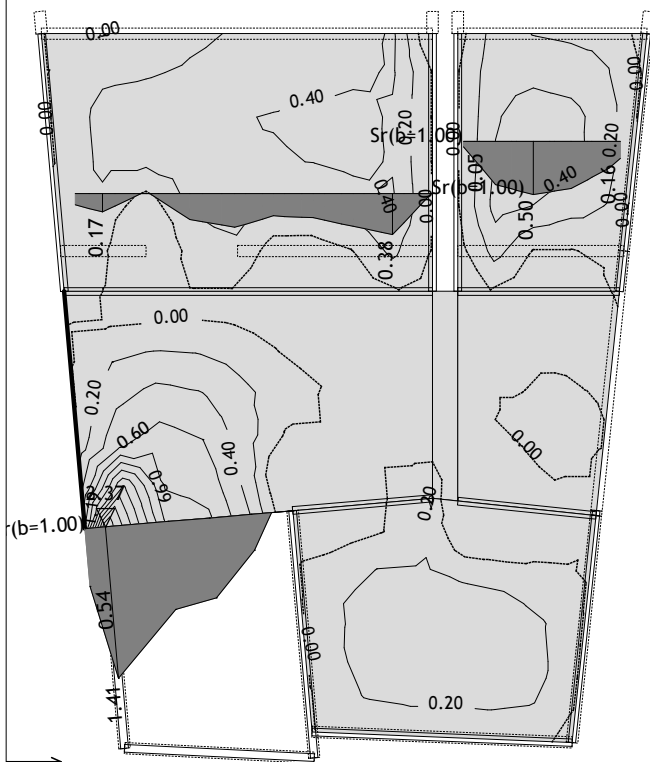


Nivo: ETAŽA 200 [5.82 m]
Aa - d.zona - Pravac 1 - max Aa1,d= -1.92 cm²/m



Nivo: ETAŽA 200 [5.82 m]
Aa - d.zona - Pravac 2 - max Aa2,d= -1.69 cm²/m

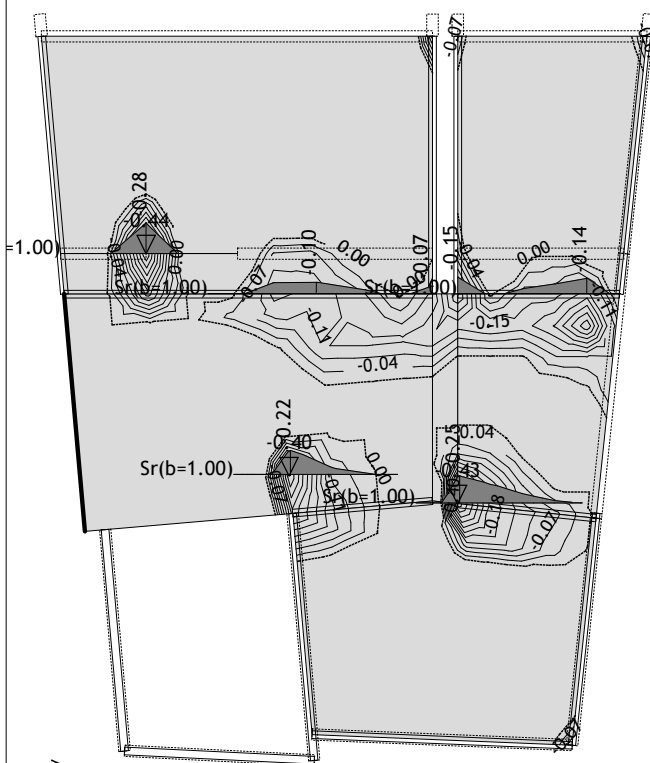
Mjerodavno opterećenje: $1.35xI + 1.50xII$
TPBK, C 25/30, B500B, $a=3.50$ cm



Nivo: ETAŽA 300 [8.70 m]

Aa - d.zona - Pravic 1 - max Aa1,d= 2.37 cm²/m

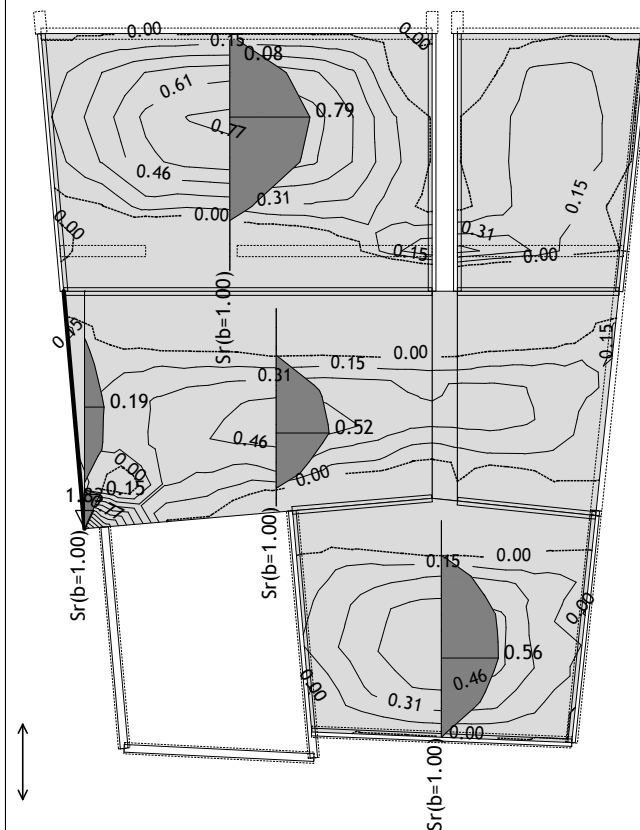
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 300 [8.70 m]

Aa - g.zona - Pravac 1 - max Aa1,g= -0.44 cm²/m

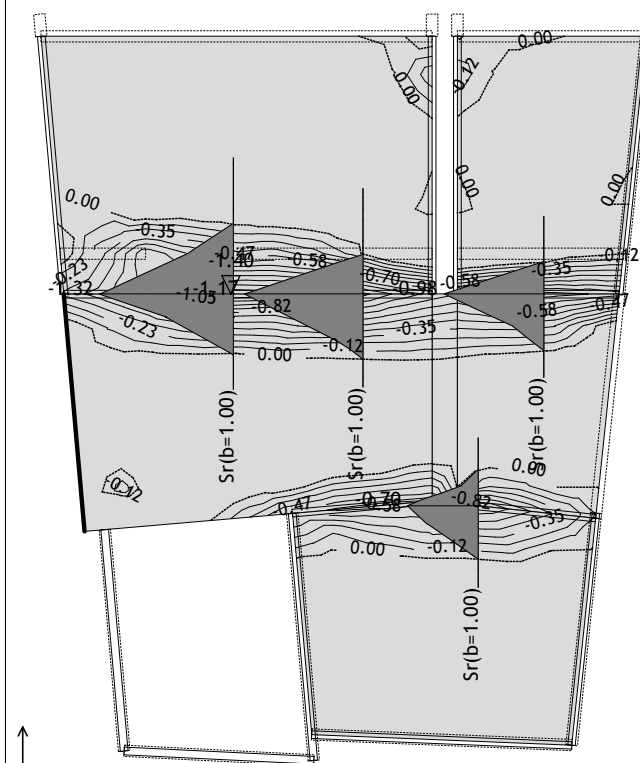
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 300 [8.70 m]

Aa - d.zona - Pravac 2 - max Aa2,d= 1.83 cm²/m

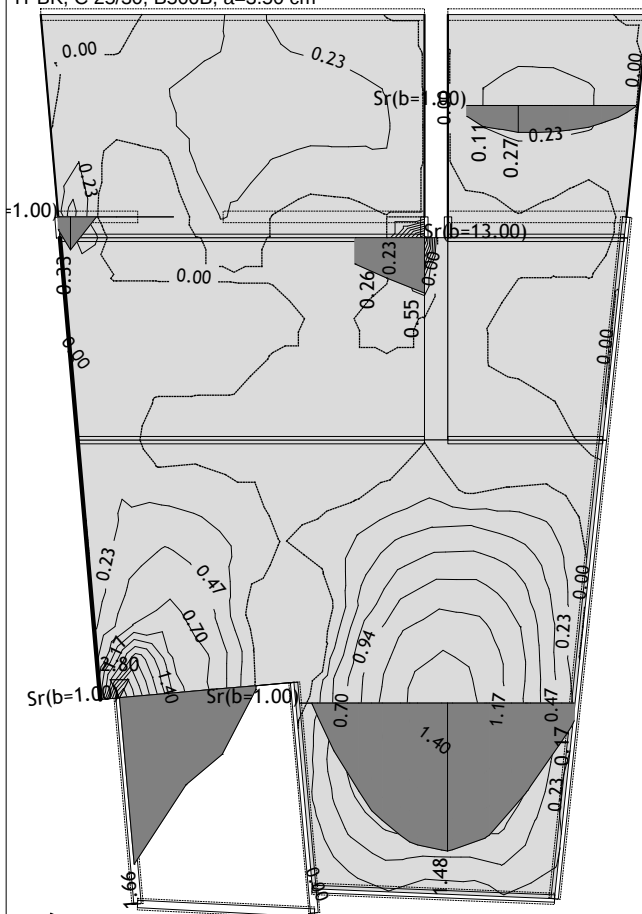
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 300 [8.70 m]

Aa - g.zona - Pravac 2 - max Aa2,g= -1.40 cm²/m

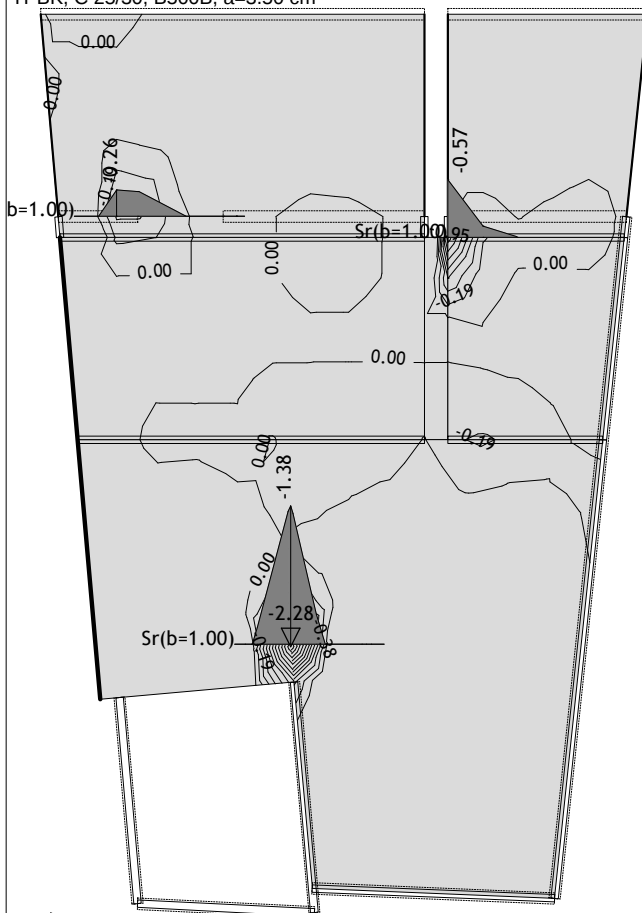
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 400 [11.70 m]

Aa - d.zona - Pramac 1 - max Aa1,d= 2.80 cm²/m

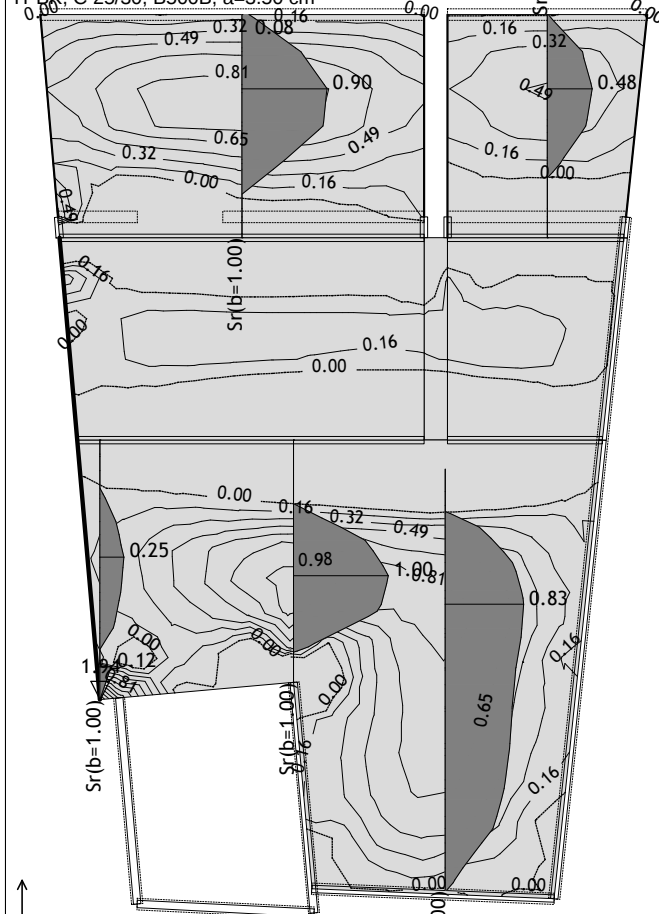
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 400 [11.70 m]

Aa - g.zona - Pramac 1 - max Aa1,g= -2.28 cm²/m

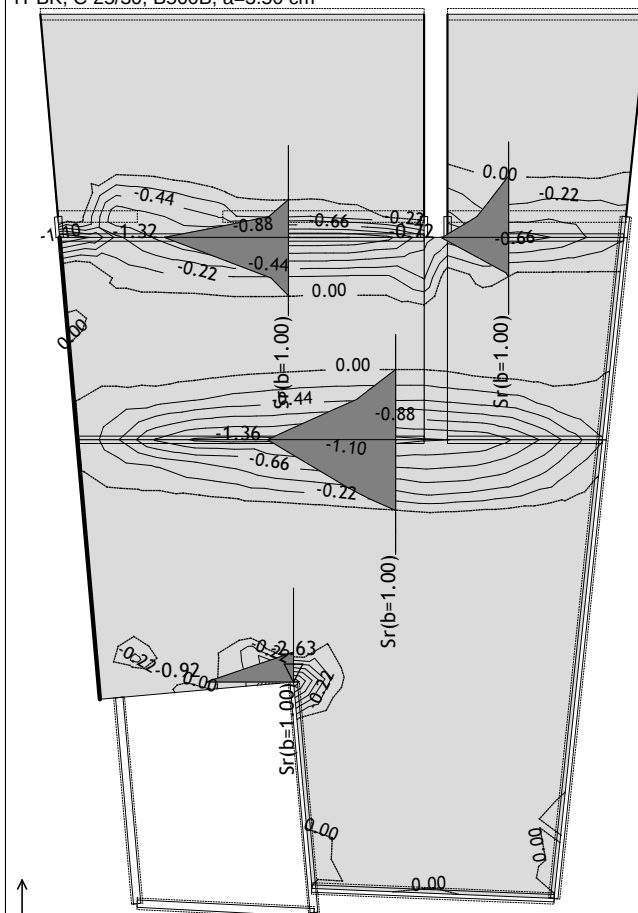
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 400 [11.70 m]

Aa - d.zona - Pramac 2 - max Aa2,d= 1.94 cm²/m

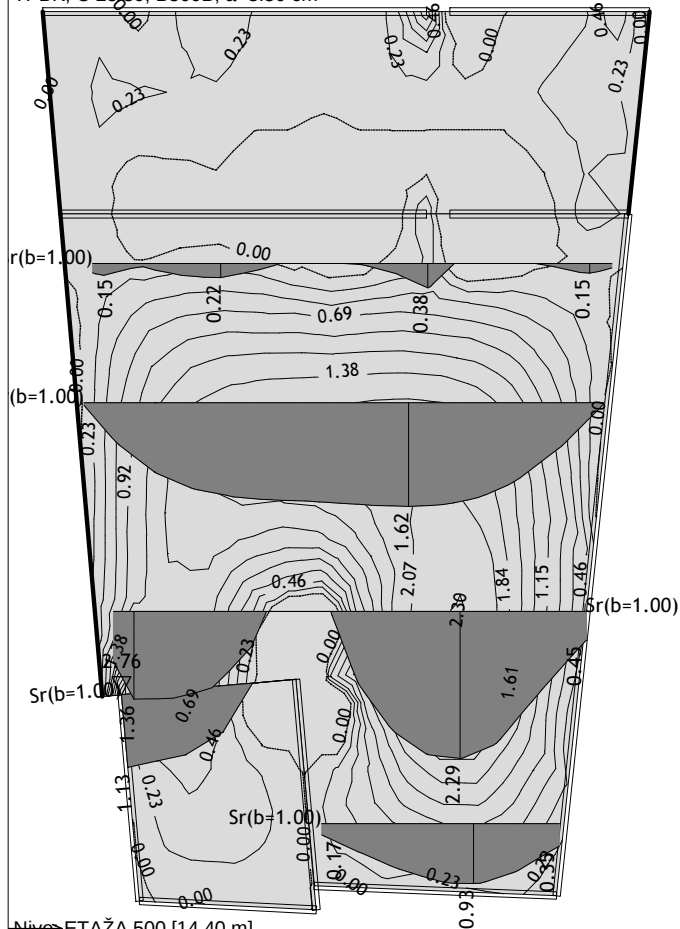
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 400 [11.70 m]

Aa - g.zona - Pramac 2 - max Aa2,g= -2.63 cm²/m

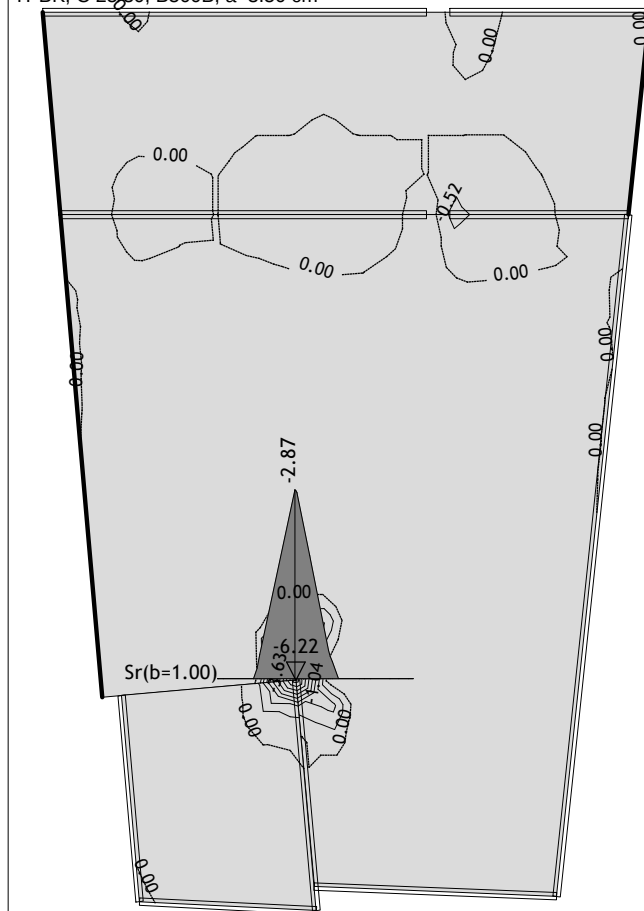
Mjerodavno opterećenje: $1.35xI + 1.50xII$
TPBK, C 25/30, B500B, $a=3.50$ cm



Nivo → ETAŽA 500 [14.40 m]

Aa - d.zona - Pravic 1 - max Aa1,d= 2.76 cm²/m

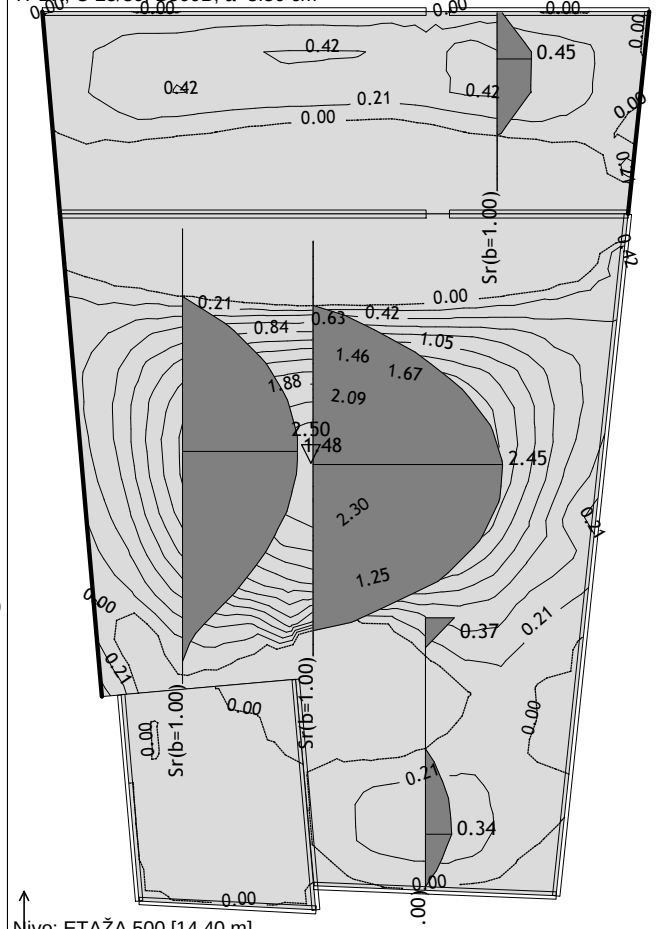
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo → ETAŽA 500 [14.40 m]

Aa - g.zona - Pravac 1 - max Aa1,g = -6.22 cm²/m

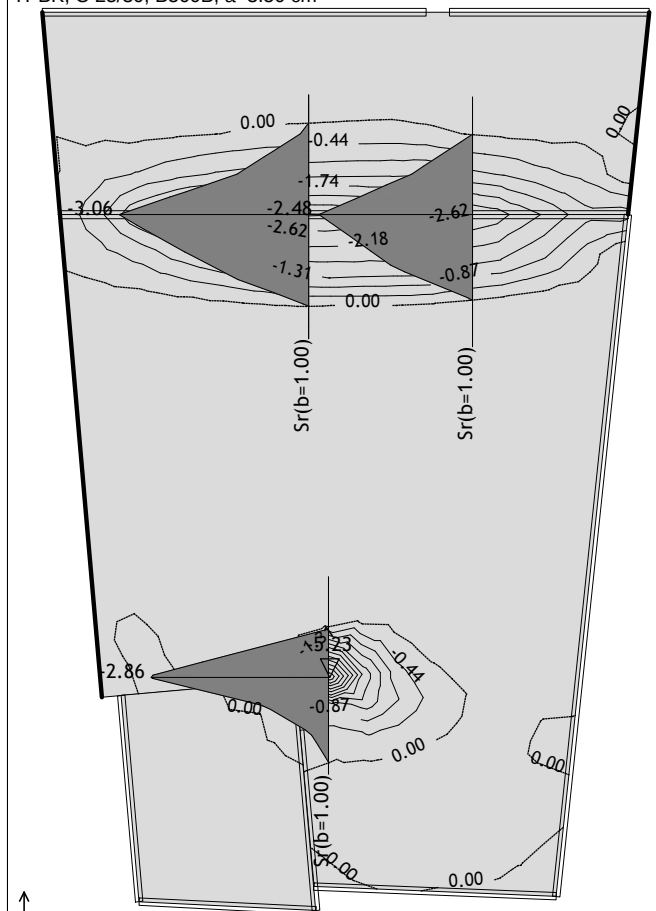
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 500 [14.40 m]

Aa - d.zona - Pravic 2 - max Aa2,d= 2.50 cm²/m

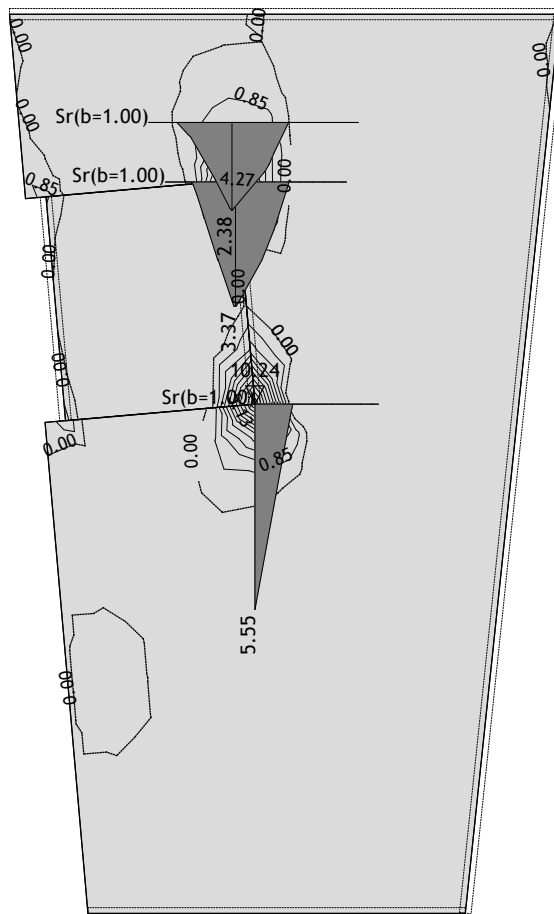
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=3.50 cm



Nivo: ETAŽA 500 [14.40 m]

Aa - g.zona - Pravac 2 - max Aa2,g= -5.23 cm²/m

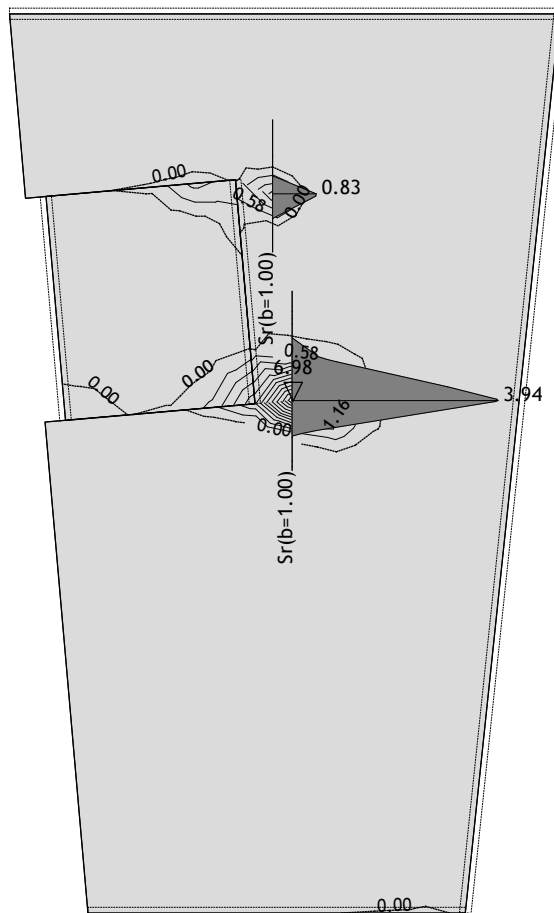
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Nivo: TEMELJI [0.00 m]

Aa - d.zona - Pramac 1 - max Aa1,d= 10.24 cm²/m

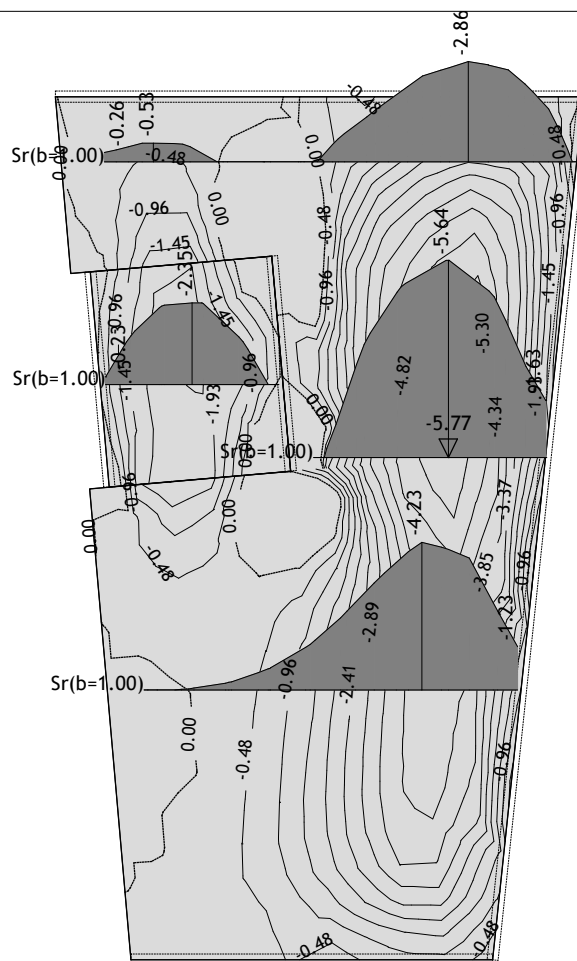
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Nivo: TEMELJI [0.00 m]

Aa - d.zona - Pramac 2 - max Aa2,d= 6.98 cm²/m

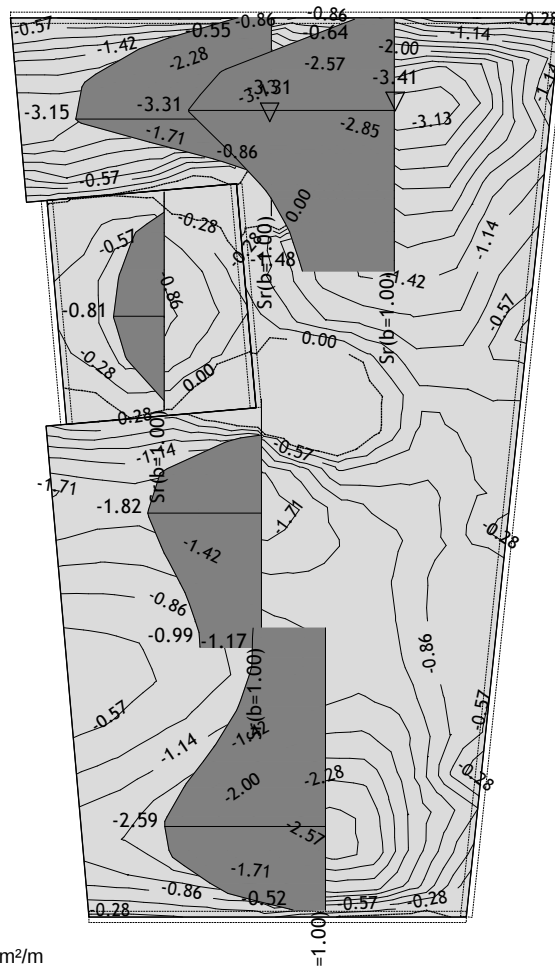
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Nivo: TEMELJI [0.00 m]

Aa - g.zona - Pravac 1 - max Aa1,g= -5.77 cm²/m

Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Nivo: TEMELJI [0.00 m]

Aa - g.zona - Pravac 2 - max Aa2,g= -3.41 cm²/m