

Osnovni podaci o modelu, Ulazni podaci - Konstrukcija

Datoteka: TUNEL.twp
Datum proračuna: 14.4.2016

Način proračuna: 3D model

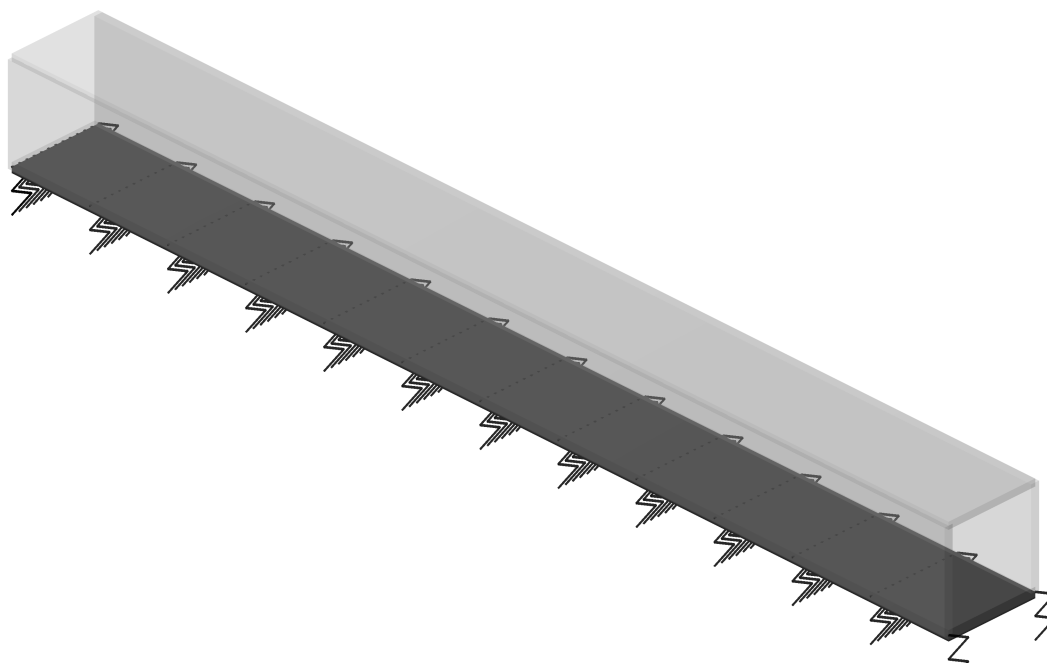
- ☒ Teorija I-og reda ☐ Modalna analiza ☐ Stabilitnost
☐ Teorija II-og reda ☐ Seizmički proračun ☐ Faze građenja
☐ Nelinearni proračun

Veličina modela

Broj čvorova: 5280
 Broj pločastih elemenata: 5236
 Broj grednih elemenata: 0
 Broj graničnih elemenata: 15708
 Broj osnovnih slučajeva opterećenja: 2
 Broj kombinacija opterećenja: 2

Jedinice mjera

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



Izometrija

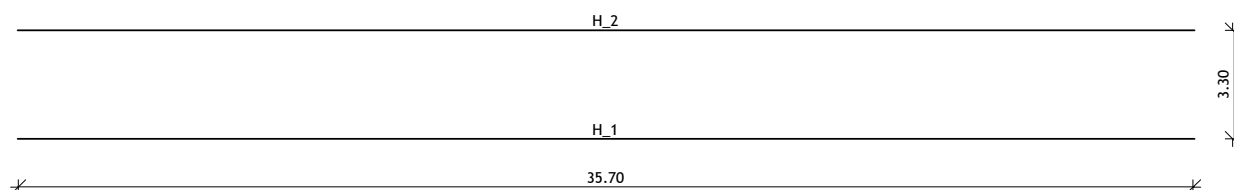


Tabela materijala

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

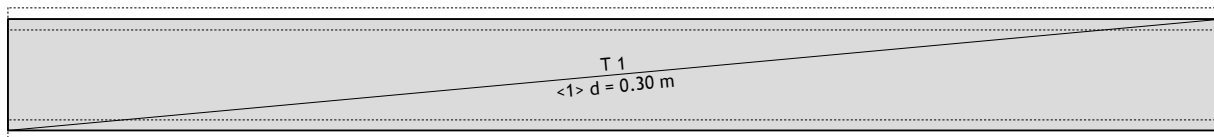
Setovi ploča

No	d[m]	e[m]	Materijal	Tip proračuna	Ortotropija	E2[kN/m ²]	G[kN/m ²]	α
<1>	0.300	0.150	1	Tanka ploča	Izotropna			
<2>	0.300	0.150	1	Tanka ploča	Izotropna			

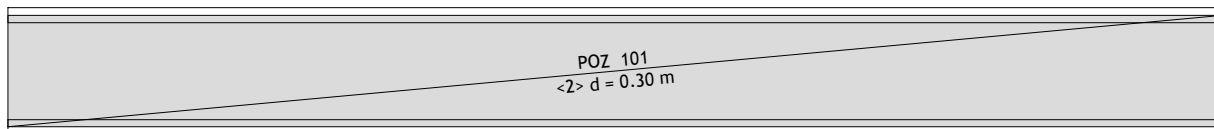
Setovi površinskih ležajeva

Set	K,R1	K,R2	K,R3
1	1.000e+10	1.000e+10	1.000e+10

PLAN POZICIJA



Nivo: DONJA PLOČA [0.00 m]



Nivo: GORNJA PLOČA [3.40 m]

Ulazni podaci - Opterećenje

Lista slučajeva opterećenja

LC	Naziv
1	STALNO (g)
2	UPORABNO

Opt. 1: STALNO (g)

LC	Naziv
3	Komb.: 1.35xI+1.5xII
4	Komb.: I+II

Opt. 2: UPORABNO

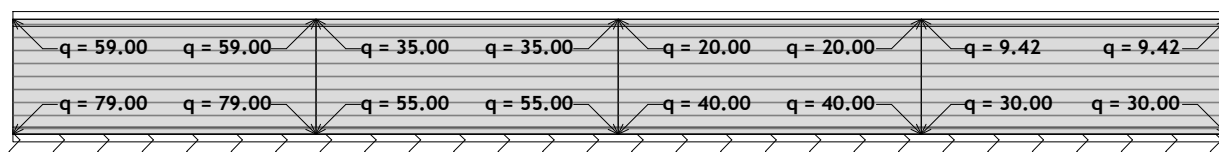
$q = -178.00$	$q = -106.00$	$q = -61.00$	$q = -29.00$
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$q = -3.00$

Nivo: GORNJA PLOČA [3.40 m]

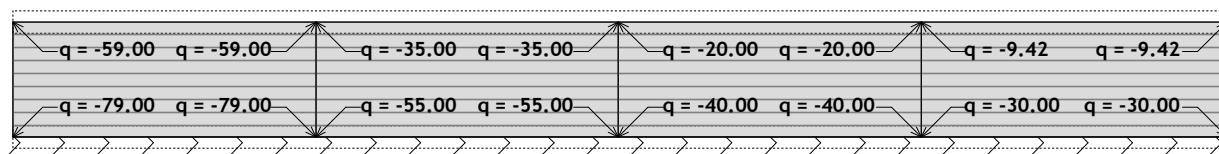
Opt. 1: STALNO (g)

Nivo: GORNJA PLOČA [3.40 m]



Okvir: H 1

Opt. 1: STALNO (g)

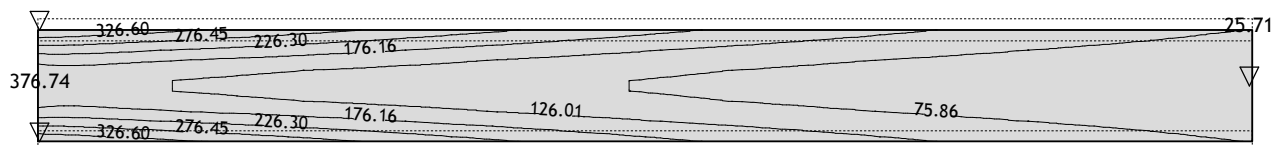


Okvir: H 2

Statički proračun

Opt. 4: I+II

376.74

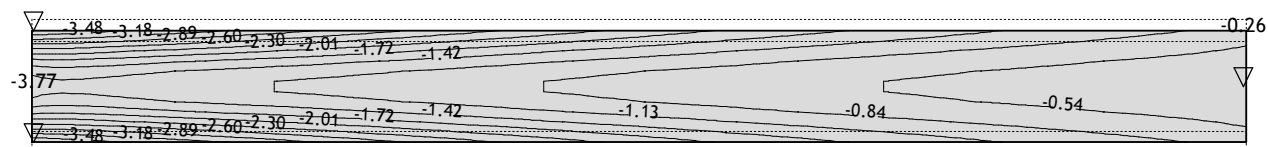


Nivo: DONJA PLOČA [0.00 m]

Utjecaji u pov. ležaju: max σ_{tla} = 376.74 / min σ_{tla} = 25.71 kN/m²

Opt. 4: I+II

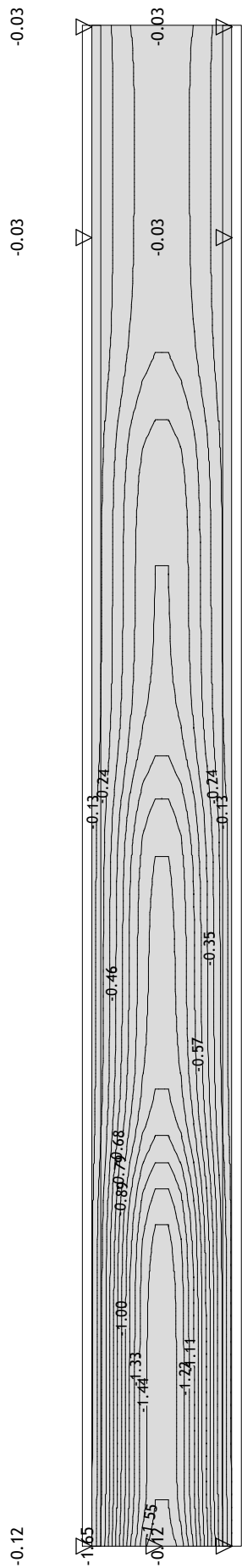
-3.77



Nivo: DONJA PLOČA [0.00 m]

Utjecaji u pov. ležaju: max s_{tla} = -0.26 / min s_{tla} = -3.77 m / 1000

Opt. 4: I+II

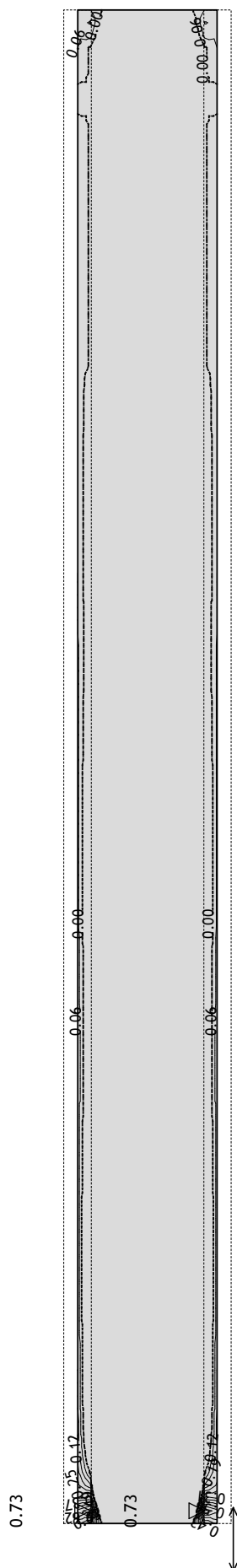


Nivo: GORNJA PLOČA [3.40 m]
Utjecaji u ploči: max Zp= -0.03 / min Zp= -1.65 m / 1000

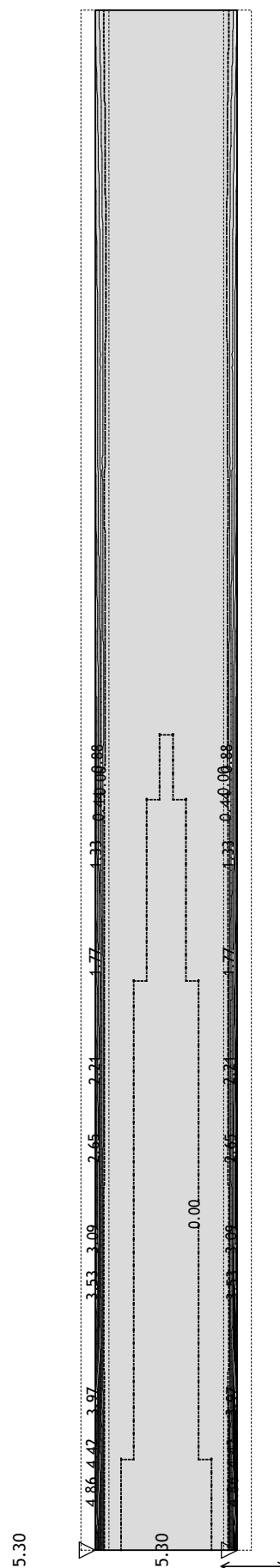
Dimenzioniranje (beton)

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

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TPBK, C 25/30, B500B, a=4.50 cm

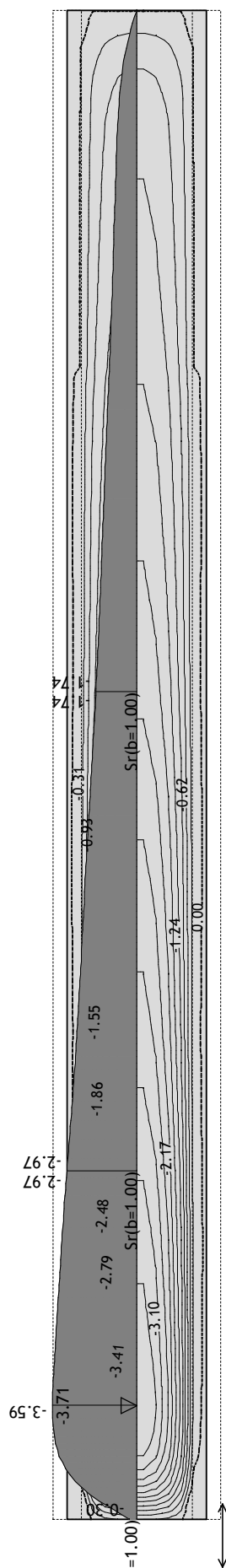


Nivo: DONJA PLOČA [0.00 m]
Aa - d.zona - Pravac 1 - max Aa1,d= 0.73 cm²/m



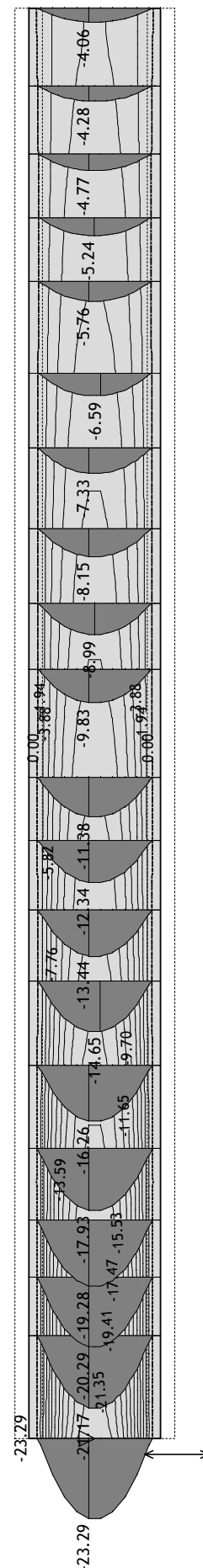
Nivo: DONJA PLOČA [0.00 m]
Aa - d.zona - Pravac 2 - max Aa2,d= 5.30 cm²/m

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



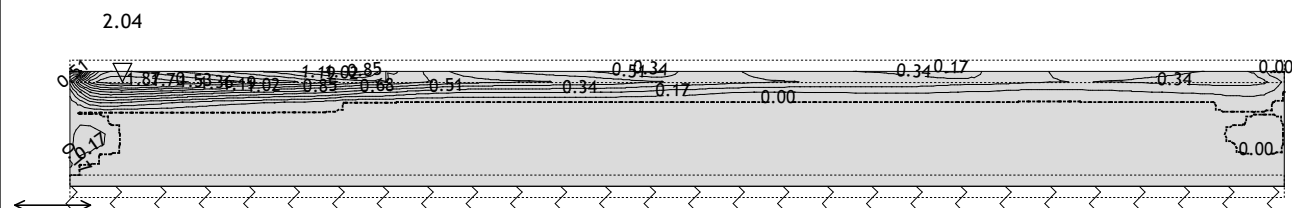
Nivo: DONJA PLOČA [0.00 m]
Aa - g.zona - Pravac 1 - max Aa1,g = 3.71 cm²/m

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



Nivo: DONJA PLOČA [0.00 m]
Aa - g.zona - Pravac 2 - max Aa2,g= -23.29 cm²/m

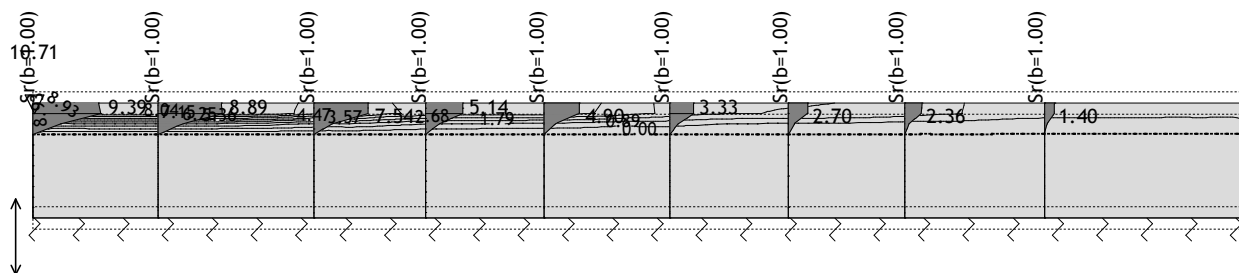
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Okvir: H_2

Aa - d.zona - Pramac 1 - max Aa1,d= 2.04 cm²/m

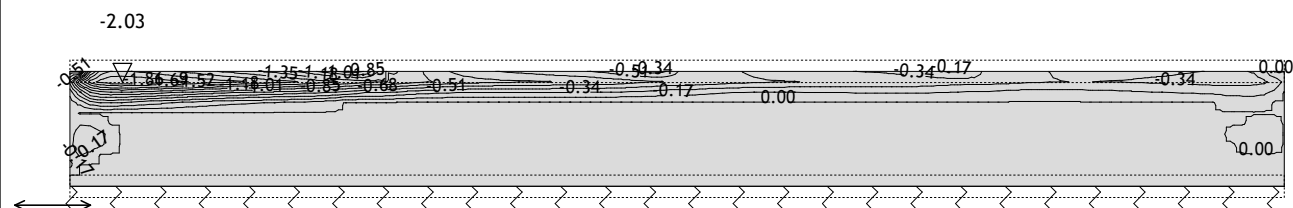
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Okvir: H_2

Aa - d.zona - Pramac 2 - max Aa2,d= 10.71 cm²/m

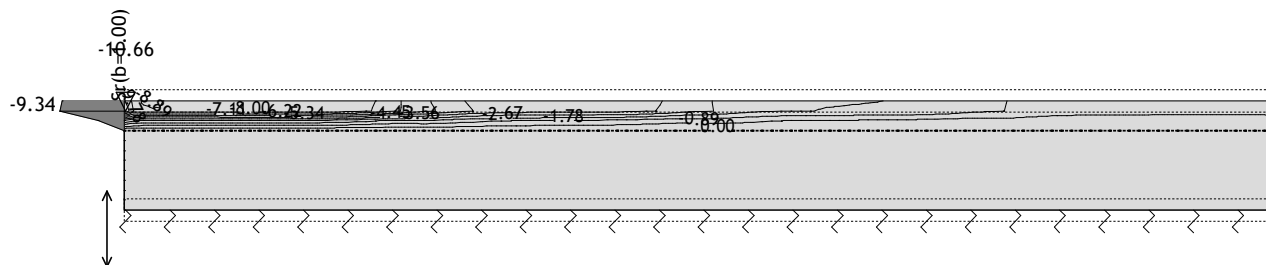
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Okvir: H_2

Aa - g.zona - Pramac 1 - max Aa1,g= -2.03 cm²/m

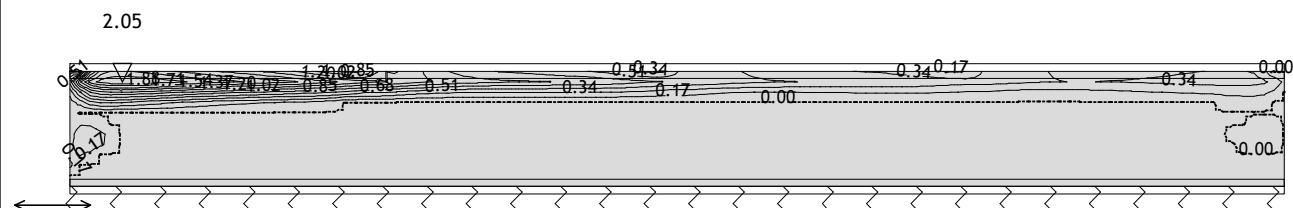
Mjerodavno opterećenje: 1.35xI+1.50xII
TPBK, C 25/30, B500B, a=4.50 cm



Okvir: H_2

Aa - g.zona - Pramac 2 - max Aa2,g= -10.66 cm²/m

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

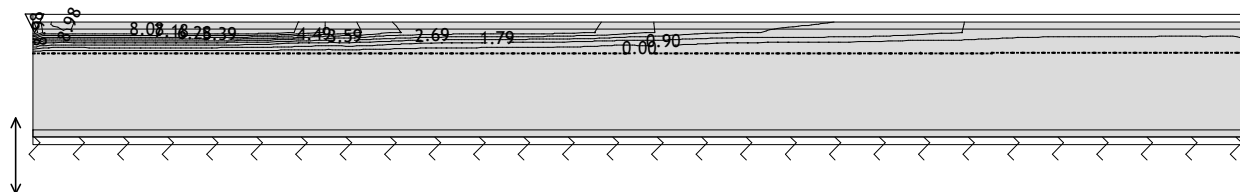


Okvir: H_1

Aa - d.zona - Pravac 1 - max Aa1,d= 2.05 cm²/m

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

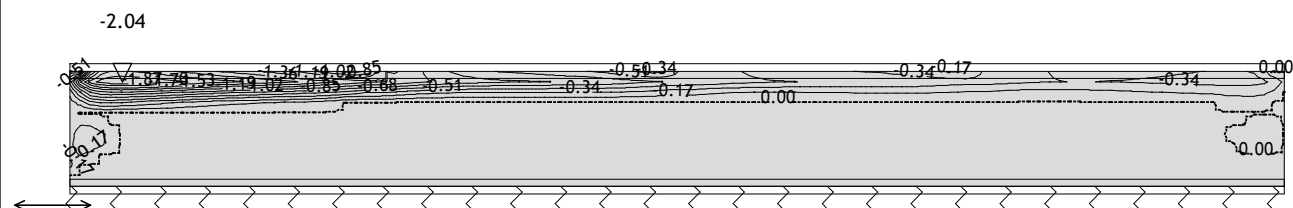
10.76



Okvir: H_1

Aa - d.zona - Pravac 2 - max Aa2,d= 10.76 cm²/m

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

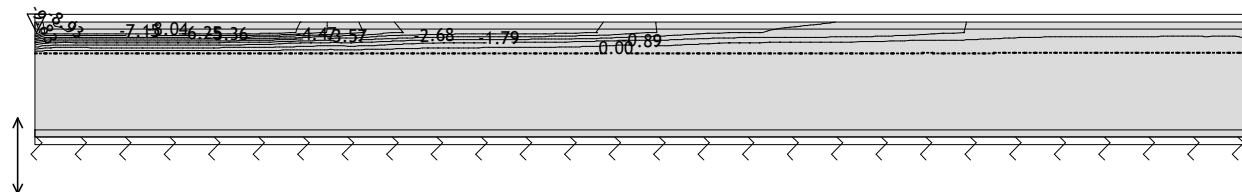


Okvir: H_1

Aa - g.zona - Pravac 1 - max Aa1,g= -2.04 cm²/m

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

-10.71



Okvir: H_1

Aa - g.zona - Pravac 2 - max Aa2,g= -10.71 cm²/m

