



<u>PROJEKTO PAVADINIMAS:</u>	Garažų paskirties pastato (požeminės automobilių saugyklos) ir sporto paskirties inžinerinio statinio (stadiono) statybos projektas, sporto paskirties statinio (stadiono) griovimas, Skuodo g. 27, Kaunas
<u>ADRESAS:</u>	Breslaujos g. 3, Kaunas
<u>SKLYPO KADASTRINIS NR.:</u>	1901/0191:247
<u>UŽSAKOVAS:</u>	Kauno miesto savivaldybė
<u>STATYTOJAS:</u>	Kauno miesto savivaldybė
<u>STATINIO KATEGORIJA:</u>	Ypatingasis statinys
<u>STATYBOS RŪŠIS:</u>	Nauja statyba
<u>STATINIO NAUDOJIMO PASKIRTIS:</u>	Garažų paskirties pastatas Sporto paskirties inžinerinis statinys (stadionas)
<u>PROJEKTAVIMO DARBŲ STADIJA:</u>	Techninis projektas
<u>PROJEKTO DALIS</u>	Konstrukcijų. Sprendinių detalieji skaičiavimai
<u>LAIDA</u>	0
<u>BYLA:</u>	IN2330-01-TP-SK-S

Direktorius

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Parašas

Proj.

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Parašas

2024 m.

PROJEKTO SUDĖTIES ŽINIARAŠTIS		
Eil. Nr.	Projekto dalies pavadinimas	Raidinis žymėjimas
1.	Bendroji	BD
2.	Sklypo sutvarkymo (sklypo planas)	SP
3.	Architektūros (statinio architektūra)	SA
4.	Konstrukcijų (statinio konstrukcijos)	SK
	Konstruktinė. Sprendinių detalieji skaičiavimai	SK-S
5.	Vandentiekio ir nuotekų šalinimo (vidaus)	VN
	Vandentiekio ir nuotekų šalinimo (lauko)	LVN
6.	Šildymo, vėdinimo ir oro kondicionavimo	ŠVOK
7.	Elektrotechnikos (vidaus)	E
	Elektrotechnikos (lauko)	LE
8.	Elektros tinklų iškėlimas ir apsaugojimas	ER
	Elektroninių ryšių (telekomunikacijų)(lauko)	LER
9.	Dujotiekio iškėlimo	D
10.	Apsauginės signalizacijos	AS
11.	Gaisro aptikimo ir signalizacijos	GSS
12.	Procesų valdymo ir automatizacijos	PVA
13.	Šilumos gamybos ir tiekimo	ŠT
14.	Gaisrinės saugos	GS
15.	Pasirengimo statybai ir statybos darbų organizavimo	SO
16.	Statybos skaičiuojamosios kainos	KS
17.	Griovimo aprašas	AP

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	2	126	0

PROJEKTO DALIES BYLŲ (SEGTUVŲ) SUDĖTIES ŽINIARAŠTIS

Eil. Nr.	Bylos (segtuvo) žymuo	Laida	Pavadinimas	Pastabos
1.	IN2330-01-TP-SK	0	Konstrukcijų (statinio konstrukcijos)	
3.	IN2330-01-TP-SK-S	0	Konstrukcijų. Sprendinių detalieji skaičiavimai	

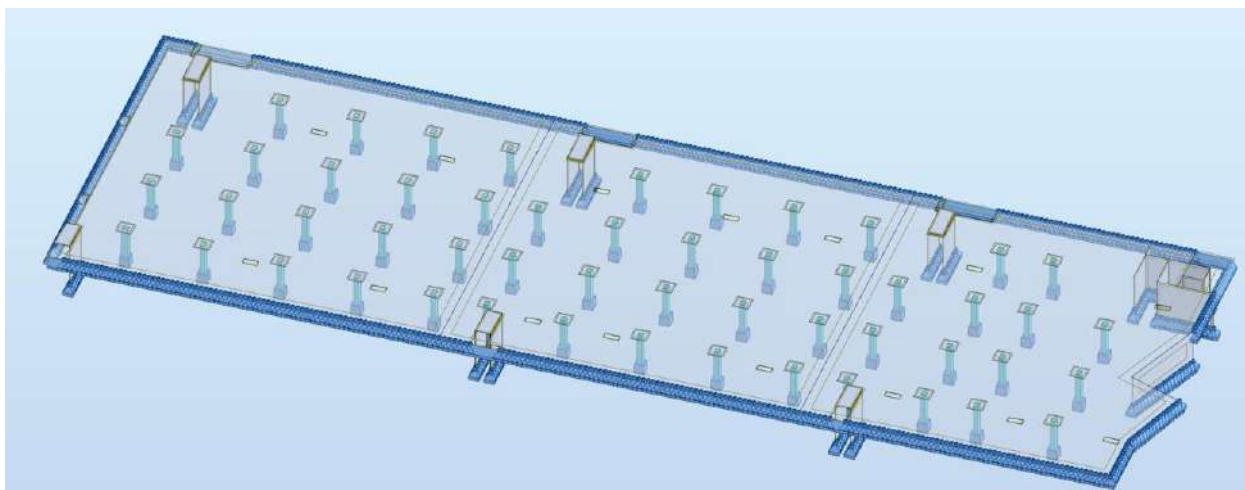
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	3	126	0

1. KONSTRUKCIJŲ SKAIČIAVIMAS

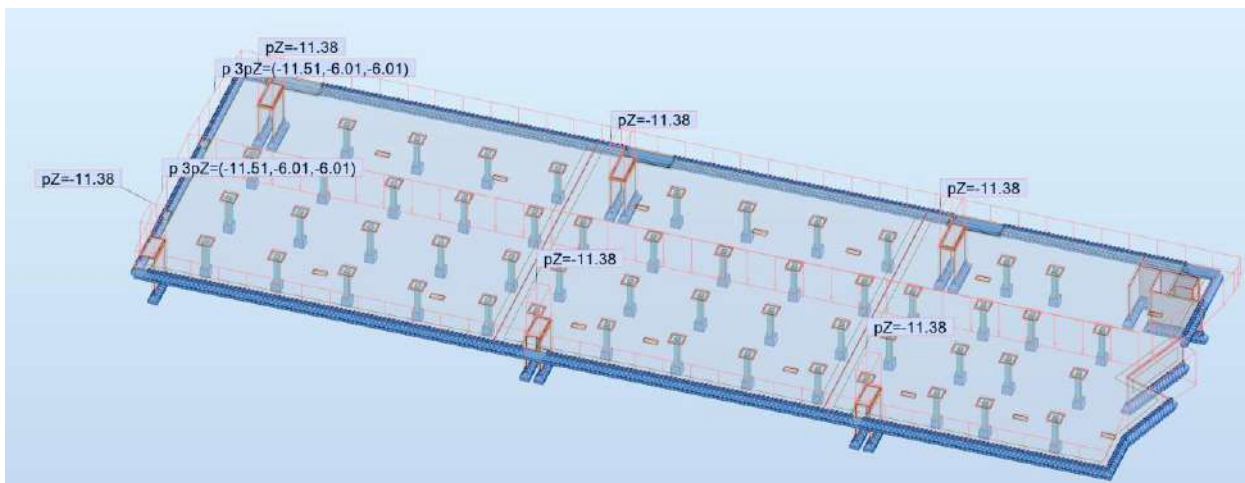
Laikančių konstrukcijų skaičiavimai atlikti baigtinių elementų skaičiavimo programa Autodesk Robot Structural Analysis Professional 2023.

1.1. Diskretinis modelis ir veikiančios apkrovos

Diskretinis modelis:



Nuolatinės apkrovos:



Naudojimo apkrovos:

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Sniego apkrovos:

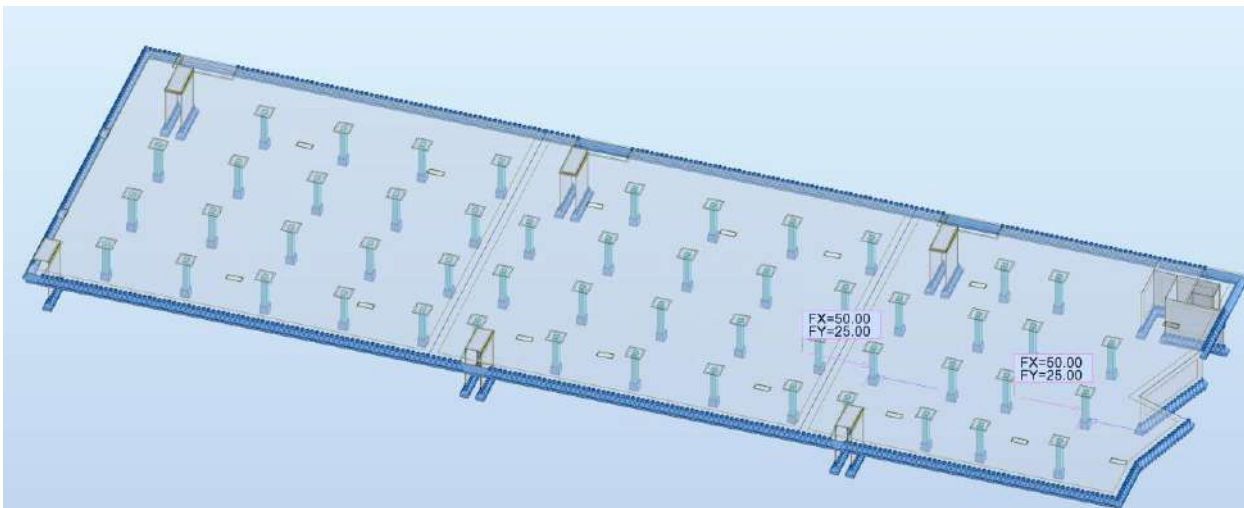


Ypatingojo poveikio apkrovos (sprogimo apkrovos):

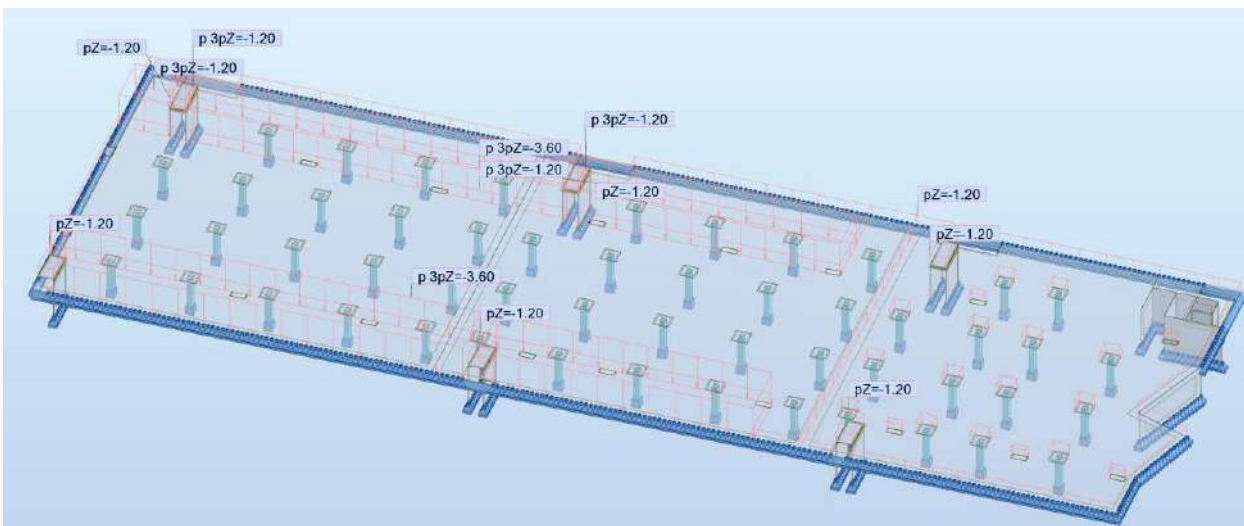


Ypatingojo poveikio apkrovos (atsitiktinis transporto priemonės smūgis):

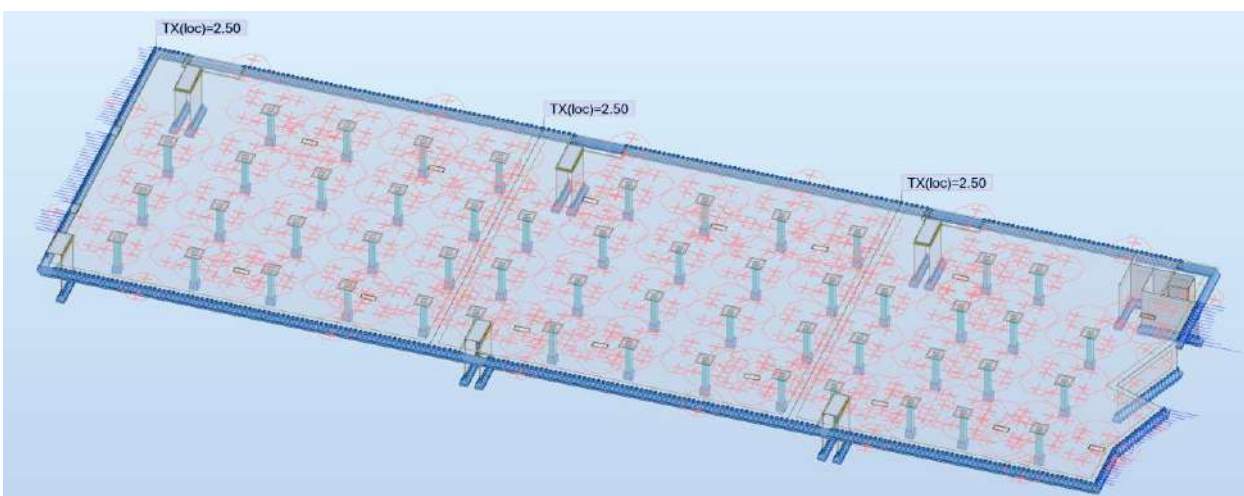
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Sniego sandėliavimo apkrovos (sniego nukasimas nuo aikštelių):

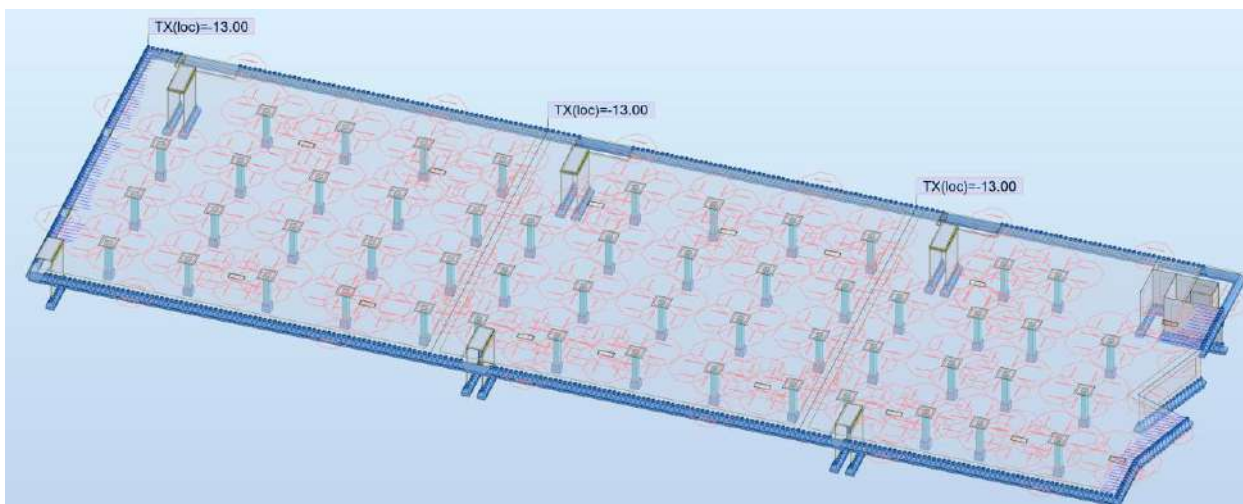


Vasaros temperatūrinės apkrovos:



Žiemos temperatūrinės apkrovos:

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	6	126	0



1.2.Monolitinių perdangų plokščių projektavimas

Projektuojamos monolitinės g/b perdangos.

Betonas: C35/45;

Aplinkos klasė XC2 XF3;

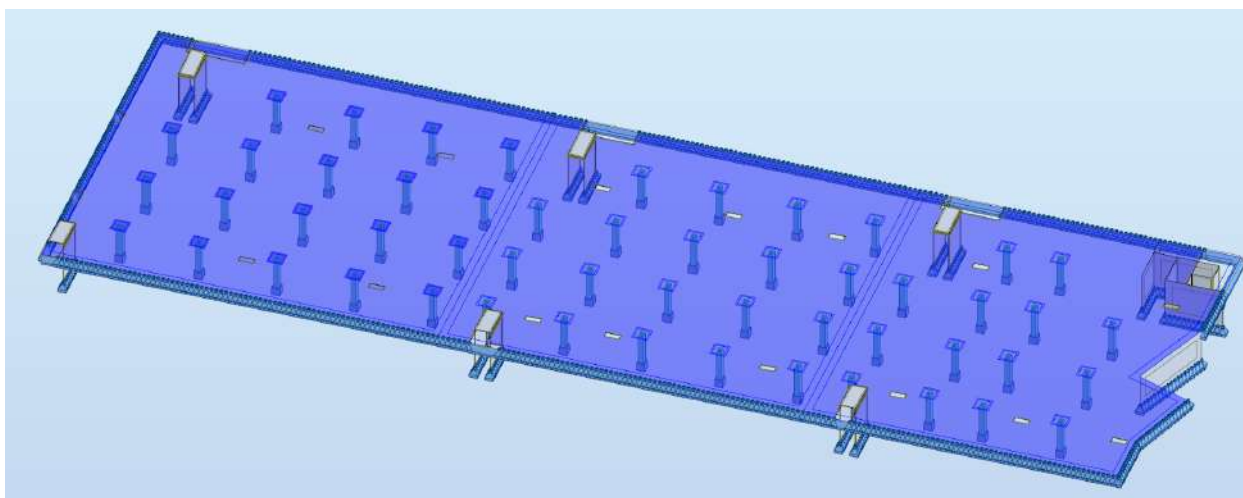
Kolonos su perdanga jungiasi standžiai. Galuose perdanga remiasi lanksčiai ant polių sienų.

Perdanga su monolitinėmis laiptinių sienomis jungiasi standžiai.

Apsauginis betono sluoksnis: ne mažiau kaip armatūros skersmuo ir ne mažiau nei 30 mm iki pagrindinės armatūros krašto. Ugniaatsparumas R120.

Projektuojamos perdangos storis: 500mm. Kapitelių virš kolonų storis: 1000mm. Perdangų virš laiptinių storis: 300mm.

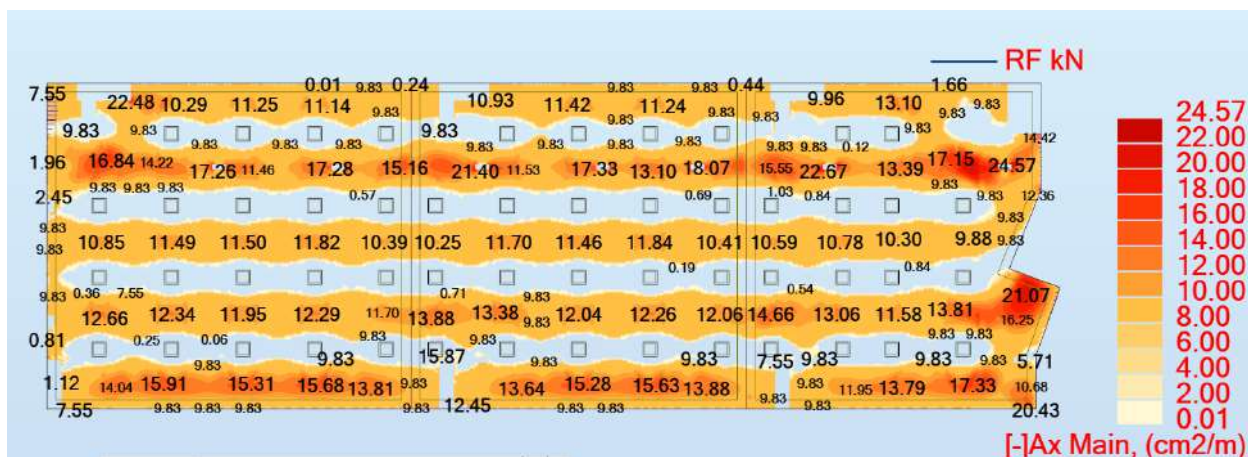
Perdangų išdėstymas:



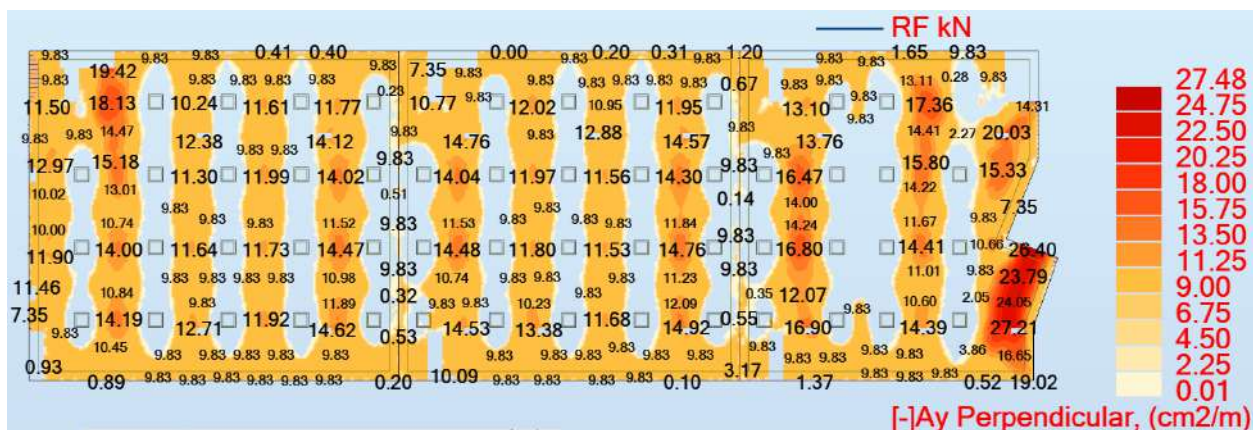
Reikalingas perdangų armavimo plotas.

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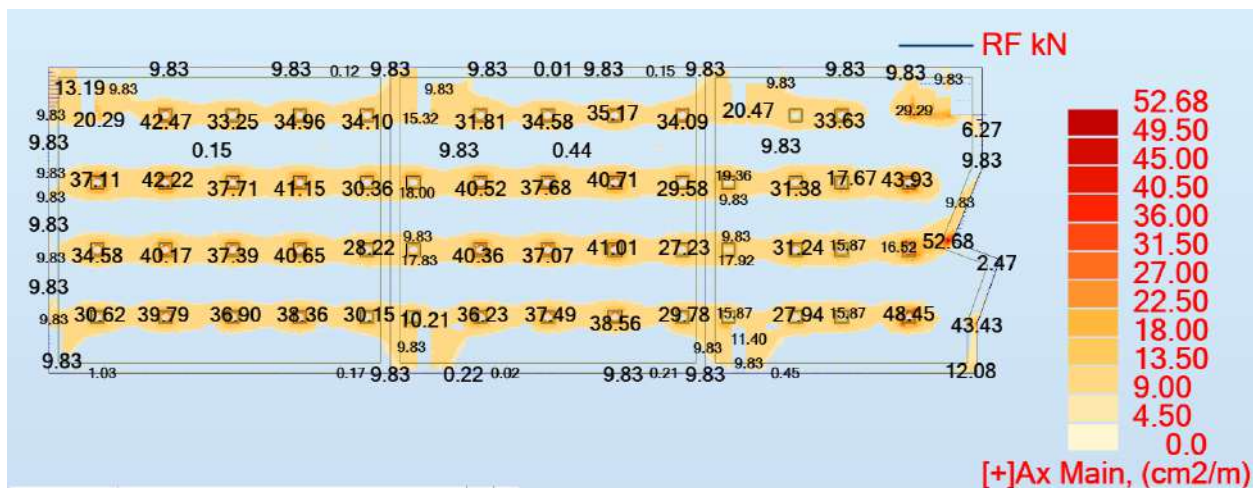
Apatinis armavimas X kryptimi:



Apatinis armavimas Y kryptimi:

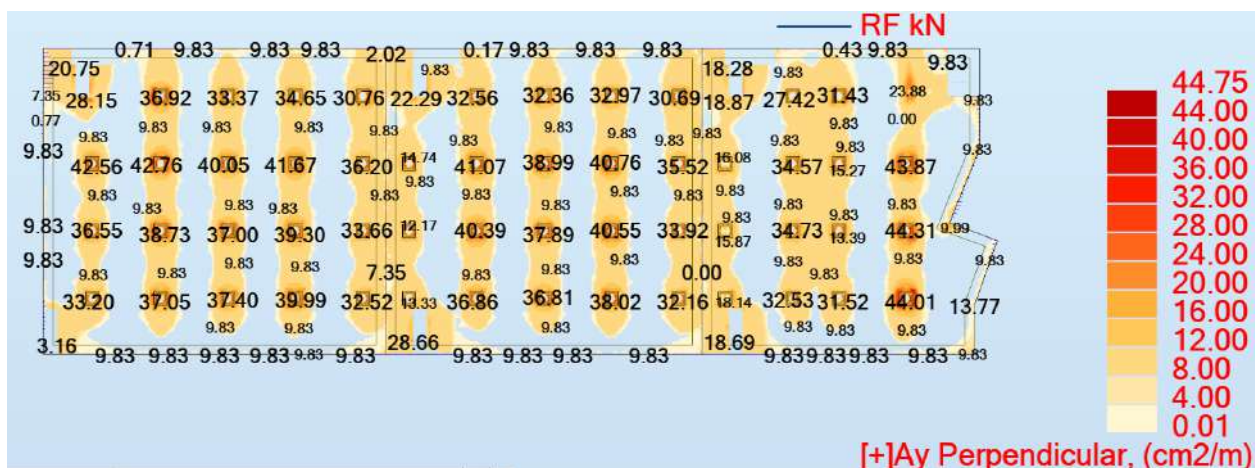


Viršutinis armavimas X kryptimi:

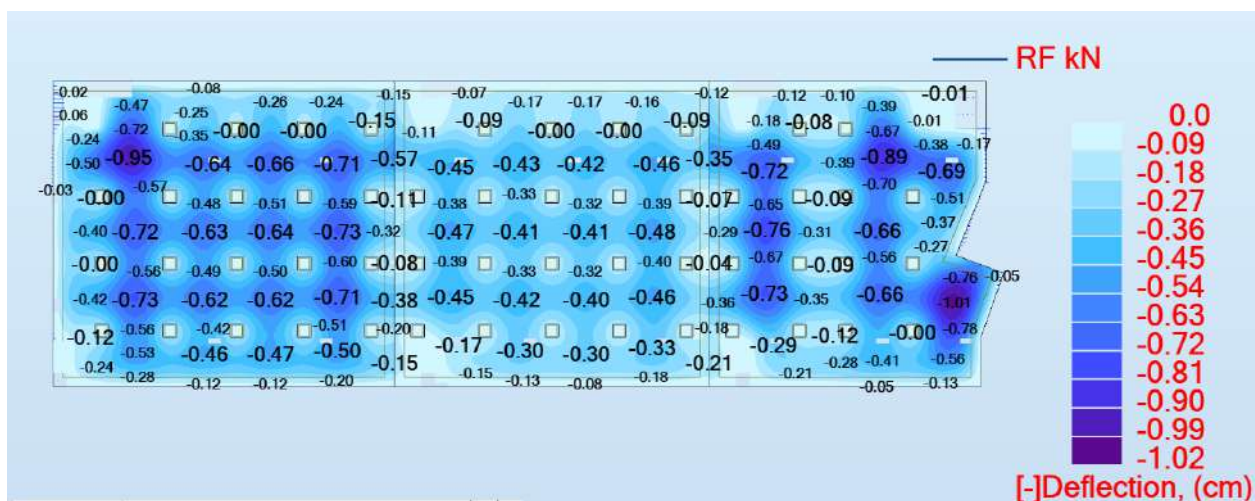


Viršutinis armavimas Y kryptimi:

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	8	126	0



Perdangų deformacijos:



Perdangos didžiausi įlinkiai:

Ribinis įlinkis $L/250=8,0/250=3,2\text{cm}$

Perdangos plokštės įlinkis $0,89\text{cm}<3,2\text{cm}$

Išvada: sąlyga tenkinama

Perdangos didžiausi įlinkiai virš įvažiavimo:

Ribinis įlinkis $L/205=6,5/205=3,2\text{cm}$

Perdangos plokštės įlinkis $1,01\text{cm}<3,2\text{cm}$

Išvada: sąlyga tenkinama

Valkšnumo koeficiento ir susitraukimo deformacijų nustatymas su skaičiuokle pagal EN1992-1-1:

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Concrete characteristic strength	$f_{ck} =$ 35 MPa
Concrete cross-sectional area	$A_c =$ 0.5 m ²
Part of cross-section perimeter exposed to drying	$u =$ 2 m
Age of concrete at loading	$t_0 =$ 28 days
Ambient temperature	$T =$ 20 °C
Relative humidity of ambient environment	$RH =$ 80 %
Cement type	= Class N
Age of concrete at end of curing	$t_s =$ 7 days

Final creep coefficient
Final shrinkage strain

$$\varphi(\infty, t_0) = 1.463$$

$$\varepsilon_{cs}(\infty, t_s) = 23.98 \times 10^{-5}$$

Notional creep coefficient

The notional creep coefficient φ_0 is calculated in accordance with EN1992-1-1 equation (B.2) as the product:

$$\varphi_0 = \varphi_{RH} \cdot \beta(f_{cm}) \cdot \beta(t_0) = 1.169 \cdot 2.562 \cdot 0.489 = 1.463$$

Time-development of creep coefficient

The time-development curve of creep coefficient $\varphi(t, t_0)$ as a function of time t is calculated as the product $\varphi(t, t_0) = \varphi_0 \cdot \beta(t, t_0)$ in accordance with EN1992-1-1 equation (B.1), where the time-development coefficient $\beta(t, t_0)$ is given by EN1992-1-1 equation (B.7) as follows:

$$\beta(t, t_0) = [(t - t_0) / (\beta_H + t - t_0)]^{0.3}, \text{ where time } t \text{ is given in days}$$

Final creep coefficient at infinite time

The final creep coefficient $\varphi(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta(t, t_0) = 1.0$ and therefore $\varphi(\infty, t_0) = \varphi_0 = 1.463$.

Therefore the final creep coefficient at infinite time is calculated as $\varphi(\infty, t_0) = 1.463$.

Intermediate factors

In addition to the previous calculations the following intermediate factors and coefficients are calculated:

- The coefficients a_{d51} and a_{d52} depend on the cement type. For cement type Class N they are specified in EN1992-1-1 §B.2(1) as $a_{d51} = 4$ and $a_{d52} = 0.12$.
- The factor β_{RH} accounts for the effect of relative humidity in accordance with EN1992-1-1 equation (B.12). It is calculated as $\beta_{RH} = 1.55 \cdot [1 - (RH / 100 \%)^3] = 1.55 \cdot [1 - (80.0 \% / 100 \%)^3] = 0.756$

Basic drying shrinkage strain

The basic drying shrinkage $\varepsilon_{cd,0}$ is given in EN1992-1-1 equation (B.11). It is calculated as $\varepsilon_{cd,0} = 25.33 \times 10^{-5}$.

Autogenous shrinkage strain

The autogenous shrinkage strain at infinite time $\varepsilon_{ca}(\infty)$ is calculated in accordance with EN1992-1-1 equation (3.12) as:

$$\varepsilon_{ca}(\infty) = 2.5 \cdot (f_{ck} - 10 \text{ MPa}) \cdot 10^{-6} = 2.5 \cdot (35.00 \text{ MPa} - 10 \text{ MPa}) \cdot 10^{-6} = 6.25 \times 10^{-5}$$

Total shrinkage strain

The total shrinkage strain ε_{cs} is composed from the drying shrinkage strain ε_{cd} and the autogenous shrinkage strain ε_{ca} as specified in EN1992-1-1 equation (3.8):

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

Time-development of shrinkage strain

The time-development curve of the drying shrinkage strain $\varepsilon_{cd}(t)$ as a function of time t is calculated as the product $\varepsilon_{cd}(t) = \beta_{ds}(t, t_0) \cdot k_1 \cdot \varepsilon_{cd,0}$ in accordance with EN1992-1-1 equation (3.9), where the time-development coefficient $\beta_{ds}(t, t_0)$ is given by EN1992-1-1 equation (3.10):

$$\beta_{ds}(t, t_0) = (t - t_0) / [(t - t_0) + 0.04 \cdot h_0^{3/2}]$$

The time-development curve of the autogenous shrinkage strain $\varepsilon_{ca}(t)$ as a function of time t is calculated as the product $\varepsilon_{ca}(t) = \beta_{as}(t) \cdot \varepsilon_{ca}(\infty)$ in accordance with EN1992-1-1 equation (3.11), where the time-development coefficient $\beta_{as}(t)$ is given by EN1992-1-1 equation (3.13):

$$\beta_{as}(t) = 1 - \exp(-0.2 \cdot t^{0.5}), \text{ where time } t \text{ is given in days}$$

Final shrinkage strain at infinite time

The final total shrinkage strain $\varepsilon_{cs}(\infty, t_s)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta_{ds}(t, t_0) = 1.0$ and $\beta_{as}(t) = 1.0$, and therefore:

$$\varepsilon_{cs}(\infty, t_s) = k_1 \cdot \varepsilon_{cd,0} + \varepsilon_{ca}(\infty) = 0.70 \cdot 25.33 \times 10^{-5} + 6.25 \times 10^{-5} = 23.98 \times 10^{-5}$$

Therefore the final total shrinkage strain at infinite time is calculated as $\varepsilon_{cs}(\infty, t_s) = 23.98 \times 10^{-5}$.

Skaičiuoklėje gautas valkšnumo koeficientas 1,463.

Skaičiavimo programoje gautas valkšnumo koeficientas 1,46.

1. Slab: Slab1095 - Panel no. 1095

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	10	126	0

1.1. Reinforcement:

- Type : Perdanga
- Main reinforcement direction : 0°
- Main reinforcement grade : B500B; Characteristic strength = 500.00 MPa
Horizontal branch of the stress-strain diagram
- Ductility class : B
- Bar diameters
bottom d1 = 1.2 (cm) d2 = 1.2 (cm)
top d1 = 1.2 (cm) d2 = 1.2 (cm)
- Cover
bottom c1 = 3.2 (cm)
top c2 = 7.0 (cm)
- Cover deviations
Cdev = 1.0(cm), Cdur = 0.0(cm)

1.2. Concrete

- Class : C35/45; Characteristic strength = 35.00 MPa
Rectangular stress distribution [3.1.7(3)]
- Density : 2501.36 (kG/m3)
- Concrete creep coefficient : 1.46
- Cement class : N

1.3. Hypothesis

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Method of reinforcement area calculations : analytical
- Allowable cracking width
- upper layer : 0.30 (mm)
- lower layer : 0.30 (mm)
- Allowable deflection : 4.0 (cm)
- Verification of punching : yes
- Exposure
- upper layer : XC2
- lower layer : XC2
- Calculation type : simple bending
- Structure class : S4

Modified partial coefficients:

$$a_{cc} = 0.9 \quad 1992-1-1 \text{ 3.1.6 (1)P}$$

1.4. Slab geometry

Thickness 0.500 (m)

Contour:

edge	beginning		end		length
	x1	y1	x2	y2	(m)
1	0.000	-3.200	36.300	-3.200	36.300
2	36.300	-3.200	36.300	29.150	32.350
3	36.300	29.150	29.270	29.150	7.030
4	29.270	29.150	20.360	32.748	9.609
5	20.360	32.748	17.550	26.908	6.481
6	17.550	26.908	13.650	29.280	4.565
7	13.650	29.280	9.650	31.060	4.378
8	9.650	31.060	5.650	32.180	4.154
9	5.650	32.180	2.898	32.510	2.772

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	11	126	0



10	2.898	32.510	1.980	32.620	0.924
11	1.980	32.620	0.000	32.260	2.012
12	0.000	32.260	0.000	-3.200	35.460

Support:

n°	Name	dimensions (m)	coordinates		edge
			x	y	
0	linear	4.550 / 0.250	1.900	23.475	—
0	linear	0.250 / 3.750	3.775	23.600	—
0	linear	5.900 / 0.250	5.650	26.550	—
0	linear	0.200 / 13.156	6.578	29.500	—
0	linear	0.300 / 3.750	3.775	1.600	—
0	linear	0.250 / 3.750	3.775	1.600	—
0	linear	0.300 / 3.750	32.775	1.600	—
0	linear	0.250 / 3.750	32.775	1.600	—
0	linear	1.600 / 0.250	30.900	0.800	—
0	linear	1.250 / 0.250	5.650	0.975	—
0	linear	0.300 / 2.950	3.375	0.000	—
0	linear	0.250 / 2.950	3.375	0.000	—
0	linear	0.300 / 3.750	32.775	0.000	—
0	linear	0.250 / 3.750	32.775	0.000	—
0	linear	0.250 / 5.650	2.825	21.200	—
415	point	0.010	28.850	-1.250	—
417	point	0.010	29.216	-1.250	—
419	point	0.010	29.505	-1.250	—
421	point	0.010	29.795	-1.250	—
423	point	0.010	30.084	-1.250	—
425	point	0.010	30.450	-1.250	—
427	point	0.010	30.450	-0.884	—
429	point	0.010	30.450	-0.595	—
431	point	0.010	30.450	-0.305	—
433	point	0.010	30.450	-0.016	—
435	point	0.010	30.450	0.350	—
437	point	0.010	30.084	0.350	—
439	point	0.010	29.795	0.350	—
441	point	0.010	29.505	0.350	—
443	point	0.010	29.216	0.350	—
445	point	0.010	28.850	0.350	—
447	point	0.010	28.850	-0.016	—
449	point	0.010	28.850	-0.305	—
451	point	0.010	28.850	-0.595	—
453	point	0.010	28.850	-0.884	—
498	point	0.010	20.850	-1.250	—
500	point	0.010	21.216	-1.250	—
502	point	0.010	21.505	-1.250	—
504	point	0.010	21.795	-1.250	—
506	point	0.010	22.084	-1.250	—
508	point	0.010	22.450	-1.250	—
510	point	0.010	22.450	-0.884	—
512	point	0.010	22.450	-0.595	—
514	point	0.010	22.450	-0.305	—
516	point	0.010	22.450	-0.016	—
518	point	0.010	22.450	0.350	—
520	point	0.010	22.084	0.350	—
522	point	0.010	21.795	0.350	—
524	point	0.010	21.505	0.350	—
526	point	0.010	21.216	0.350	—
550	point	0.010	4.850	-1.250	—

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	12	126	0



552	point	0.010	6.450	-1.250	—
553	point	0.010	6.450	0.350	—
556	point	0.010	20.850	0.350	—
558	point	0.010	20.850	-0.016	—
559	point	0.010	5.216	-1.250	—
560	point	0.010	5.505	-1.250	—
561	point	0.010	5.795	-1.250	—
562	point	0.010	6.084	-1.250	—
563	point	0.010	6.450	-0.884	—
564	point	0.010	6.450	-0.595	—
565	point	0.010	6.450	-0.305	—
566	point	0.010	6.450	-0.016	—
567	point	0.010	6.084	0.350	—
568	point	0.010	5.795	0.350	—
569	point	0.010	4.850	-0.016	—
573	point	0.010	20.850	-0.305	—
575	point	0.010	20.850	-0.595	—
577	point	0.010	20.850	-0.884	—
578	point	0.010	4.850	-0.305	—
579	point	0.010	4.850	-0.595	—
580	point	0.010	4.850	-0.884	—
598	point	0.010	17.550	26.908	—
603	point	0.010	12.850	-1.250	—
605	point	0.010	13.216	-1.250	—
607	point	0.010	13.505	-1.250	—
609	point	0.010	13.795	-1.250	—
611	point	0.010	14.084	-1.250	—
613	point	0.010	14.450	-1.250	—
615	point	0.010	14.450	-0.884	—
617	point	0.010	14.450	-0.595	—
619	point	0.010	14.450	-0.305	—
621	point	0.010	14.450	-0.016	—
623	point	0.010	14.450	0.350	—
729	point	0.010	14.084	0.350	—
735	point	0.010	13.795	0.350	—
737	point	0.010	13.505	0.350	—
739	point	0.010	13.216	0.350	—
822	point	0.010	12.850	0.350	—
826	point	0.010	12.850	-0.016	—
828	point	0.010	12.850	-0.305	—
830	point	0.010	12.850	-0.595	—
832	point	0.010	12.850	-0.884	—
2384	point	0.010	20.850	20.250	—
2386	point	0.010	21.216	20.250	—
2388	point	0.010	21.505	20.250	—
2390	point	0.010	21.795	20.250	—
2392	point	0.010	22.084	20.250	—
2394	point	0.010	22.450	20.250	—
2396	point	0.010	22.450	20.616	—
2398	point	0.010	22.450	20.905	—
2400	point	0.010	22.450	21.195	—
2402	point	0.010	22.450	21.484	—
2404	point	0.010	22.450	21.850	—
2406	point	0.010	22.084	21.850	—
2408	point	0.010	21.795	21.850	—
2410	point	0.010	21.505	21.850	—
2412	point	0.010	21.216	21.850	—
2414	point	0.010	20.850	21.850	—

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2416	point	0.010	20.850	21.484	—
2418	point	0.010	20.850	21.195	—
2420	point	0.010	20.850	20.905	—
2422	point	0.010	20.850	20.616	—
2447	point	0.010	20.850	24.008	—
2449	point	0.010	21.216	24.008	—
2451	point	0.010	21.505	24.008	—
2453	point	0.010	21.795	24.008	—
2455	point	0.010	22.084	24.008	—
2457	point	0.010	22.450	24.008	—
2459	point	0.010	22.450	24.374	—
2461	point	0.010	22.450	24.663	—
2463	point	0.010	22.450	24.953	—
2465	point	0.010	22.450	25.242	—
2467	point	0.010	22.450	25.608	—
2469	point	0.010	22.084	25.608	—
2471	point	0.010	21.795	25.608	—
2473	point	0.010	21.505	25.608	—
2475	point	0.010	21.216	25.608	—
2477	point	0.010	20.850	25.608	—
2479	point	0.010	20.850	25.242	—
2481	point	0.010	20.850	24.953	—
2483	point	0.010	20.850	24.663	—
2485	point	0.010	20.850	24.374	—
2511	point	0.010	12.850	20.250	—
2513	point	0.010	13.216	20.250	—
2515	point	0.010	13.505	20.250	—
2517	point	0.010	13.795	20.250	—
2519	point	0.010	14.084	20.250	—
2521	point	0.010	14.450	20.250	—
2523	point	0.010	14.450	20.616	—
2525	point	0.010	14.450	20.905	—
2527	point	0.010	14.450	21.195	—
2529	point	0.010	14.450	21.484	—
2531	point	0.010	14.450	21.850	—
2533	point	0.010	14.084	21.850	—
2535	point	0.010	13.795	21.850	—
2537	point	0.010	13.505	21.850	—
2539	point	0.010	13.216	21.850	—
3472	point	0.010	30.450	20.250	—
3473	point	0.010	30.450	21.850	—
3475	point	0.010	28.850	21.850	—
3484	point	0.010	28.850	20.250	—
3487	point	0.010	30.450	20.616	—
3488	point	0.010	30.450	20.905	—
3489	point	0.010	30.450	21.195	—
3490	point	0.010	30.450	21.484	—
3491	point	0.010	30.084	21.850	—
3495	point	0.010	29.795	21.850	—
3497	point	0.010	29.505	21.850	—
3499	point	0.010	29.216	21.850	—
3500	point	0.010	28.850	21.484	—
3501	point	0.010	28.850	21.195	—
3502	point	0.010	28.850	20.905	—
3510	point	0.010	28.850	20.616	—
3513	point	0.010	29.216	20.250	—
3515	point	0.010	29.505	20.250	—
3517	point	0.010	29.795	20.250	—

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3525	point	0.010	30.084	20.250	—
3865	point	0.010	12.850	21.850	—
3909	point	0.010	12.850	21.484	—
3910	point	0.010	12.850	21.195	—
3911	point	0.010	12.850	20.905	—
3912	point	0.010	12.850	20.616	—
3935	point	0.010	14.450	12.250	—
3936	point	0.010	14.450	13.850	—
3937	point	0.010	12.850	13.850	—
3938	point	0.010	12.850	12.250	—
3941	point	0.010	13.216	12.250	—
3945	point	0.010	13.505	12.250	—
3948	point	0.010	13.795	12.250	—
3950	point	0.010	14.084	12.250	—
3952	point	0.010	14.450	12.616	—
3960	point	0.010	14.450	12.905	—
3964	point	0.010	14.450	13.195	—
3965	point	0.010	14.450	13.484	—
3968	point	0.010	14.084	13.850	—
3976	point	0.010	13.795	13.850	—
3978	point	0.010	13.505	13.850	—
3984	point	0.010	13.216	13.850	—
3992	point	0.010	12.850	13.484	—
3993	point	0.010	12.850	13.195	—
3994	point	0.010	12.850	12.905	—
3996	point	0.010	12.850	12.616	—
4019	point	0.010	22.450	12.250	—
4020	point	0.010	22.450	13.850	—
4021	point	0.010	20.850	13.850	—
4022	point	0.010	20.850	12.250	—
4024	point	0.010	21.216	12.250	—
4025	point	0.010	21.505	12.250	—
4026	point	0.010	21.795	12.250	—
4027	point	0.010	22.084	12.250	—
4028	point	0.010	22.450	12.616	—
4029	point	0.010	22.450	12.905	—
4030	point	0.010	22.450	13.195	—
4032	point	0.010	22.450	13.484	—
4033	point	0.010	22.084	13.850	—
4035	point	0.010	21.795	13.850	—
4037	point	0.010	21.505	13.850	—
4039	point	0.010	21.216	13.850	—
4047	point	0.010	20.850	13.484	—
4051	point	0.010	20.850	13.195	—
4052	point	0.010	20.850	12.905	—
4055	point	0.010	20.850	12.616	—
4103	point	0.010	30.450	12.250	—
4104	point	0.010	30.450	13.850	—
4105	point	0.010	28.850	13.850	—
4106	point	0.010	28.850	12.250	—
4108	point	0.010	29.216	12.250	—
4109	point	0.010	29.505	12.250	—
4110	point	0.010	29.795	12.250	—
4111	point	0.010	30.084	12.250	—
4112	point	0.010	30.450	12.616	—
4113	point	0.010	30.450	12.905	—
4114	point	0.010	30.450	13.195	—
4115	point	0.010	30.450	13.484	—

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4116	point	0.010	30.084	13.850	—
4117	point	0.010	29.795	13.850	—
4118	point	0.010	29.505	13.850	—
4119	point	0.010	29.216	13.850	—
4120	point	0.010	28.850	13.484	—
4121	point	0.010	28.850	13.195	—
4122	point	0.010	28.850	12.905	—
4123	point	0.010	28.850	12.616	—
4188	point	0.010	30.450	6.750	—
4189	point	0.010	30.450	8.350	—
4190	point	0.010	28.850	8.350	—
4191	point	0.010	28.850	6.750	—
4192	point	0.010	29.216	6.750	—
4193	point	0.010	29.505	6.750	—
4194	point	0.010	29.795	6.750	—
4195	point	0.010	30.084	6.750	—
4196	point	0.010	30.450	7.116	—
4197	point	0.010	30.450	7.405	—
4198	point	0.010	30.450	7.695	—
4199	point	0.010	30.450	7.984	—
4200	point	0.010	30.084	8.350	—
4201	point	0.010	29.795	8.350	—
4202	point	0.010	29.505	8.350	—
4203	point	0.010	29.216	8.350	—
4204	point	0.010	28.850	7.984	—
4205	point	0.010	28.850	7.695	—
4206	point	0.010	28.850	7.405	—
4207	point	0.010	28.850	7.116	—
4269	point	0.010	22.450	6.750	—
4271	point	0.010	22.450	8.350	—
4272	point	0.010	20.850	8.350	—
4273	point	0.010	20.850	6.750	—
4275	point	0.010	21.216	6.750	—
4278	point	0.010	21.505	6.750	—
4279	point	0.010	21.795	6.750	—
4280	point	0.010	22.084	6.750	—
4281	point	0.010	22.450	7.116	—
4282	point	0.010	22.450	7.405	—
4283	point	0.010	22.450	7.695	—
4284	point	0.010	22.450	7.984	—
4285	point	0.010	22.084	8.350	—
4286	point	0.010	21.795	8.350	—
4287	point	0.010	21.505	8.350	—
4288	point	0.010	21.216	8.350	—
4289	point	0.010	20.850	7.984	—
4290	point	0.010	20.850	7.695	—
4291	point	0.010	20.850	7.405	—
4292	point	0.010	20.850	7.116	—
4327	point	0.010	14.450	6.750	—
4333	point	0.010	14.450	8.350	—
4341	point	0.010	12.850	8.350	—
4342	point	0.010	12.850	6.750	—
4346	point	0.010	13.216	6.750	—
4355	point	0.010	13.505	6.750	—
4356	point	0.010	13.795	6.750	—
4358	point	0.010	14.084	6.750	—
4359	point	0.010	14.450	7.116	—
4360	point	0.010	14.450	7.405	—

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4361	point	0.010	14.450	7.695	—
4362	point	0.010	14.450	7.984	—
4366	point	0.010	14.084	8.350	—
4368	point	0.010	13.795	8.350	—
4370	point	0.010	13.505	8.350	—
4371	point	0.010	13.216	8.350	—
4372	point	0.010	12.850	7.984	—
4373	point	0.010	12.850	7.695	—
4375	point	0.010	12.850	7.405	—
4376	point	0.010	12.850	7.116	—
4399	point	0.010	6.450	6.750	—
4400	point	0.010	6.450	8.350	—
4401	point	0.010	4.850	8.350	—
4402	point	0.010	4.850	6.750	—
4405	point	0.010	5.216	6.750	—
4412	point	0.010	5.505	6.750	—
4414	point	0.010	5.795	6.750	—
4420	point	0.010	6.084	6.750	—
4428	point	0.010	6.450	7.116	—
4429	point	0.010	6.450	7.405	—
4430	point	0.010	6.450	7.695	—
4433	point	0.010	6.450	7.984	—
4442	point	0.010	6.084	8.350	—
4443	point	0.010	5.795	8.350	—
4445	point	0.010	5.505	8.350	—
4446	point	0.010	5.216	8.350	—
4447	point	0.010	4.850	7.984	—
4448	point	0.010	4.850	7.695	—
4449	point	0.010	4.850	7.405	—
4453	point	0.010	4.850	7.116	—
4483	point	0.010	6.450	12.250	—
4484	point	0.010	6.450	13.850	—
4485	point	0.010	4.850	13.850	—
4486	point	0.010	4.850	12.250	—
4488	point	0.010	5.216	12.250	—
4489	point	0.010	5.505	12.250	—
4490	point	0.010	5.795	12.250	—
4491	point	0.010	6.084	12.250	—
4492	point	0.010	6.450	12.616	—
4493	point	0.010	6.450	12.905	—
4494	point	0.010	6.450	13.195	—
4496	point	0.010	6.450	13.484	—
4499	point	0.010	6.084	13.850	—
4501	point	0.010	5.795	13.850	—
4507	point	0.010	5.505	13.850	—
4515	point	0.010	5.216	13.850	—
4516	point	0.010	4.850	13.484	—
4517	point	0.010	4.850	13.195	—
4520	point	0.010	4.850	12.905	—
4529	point	0.010	4.850	12.616	—
7326	point	0.010	29.270	29.150	—

* - head present

1.5. Calculation results:

1.5.1. Maximum moments + reinforcement for bending

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	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Provided reinforcement (cm2/m):	45.70	21.68	42.41	28.32
Modified required reinforcement (cm2/m):	31.67	20.88	36.90	21.89
Original required reinforcement (cm2/m):	31.67	20.88	36.90	21.89
Coordinates (m):	30.450;20.250 23.815;28.211	36.300;29.150	30.450;20.250	

1.5.2. Maximum moments + reinforcement for bending

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Symbol: required area/provided area				
Ax(+) (cm2/m)	31.67/45.70 0.00/16.76	11.32/16.76	31.67/45.70	
Ax(-) (cm2/m)	0.00/18.28 15.16/18.28	20.88/21.68	0.00/18.28	
Ay(+) (cm2/m)	36.90/42.41 0.00/16.76	11.24/16.76	36.90/42.41	
Ay(-) (cm2/m)	0.00/18.28 21.89/28.32	20.71/27.99	0.00/18.28	
SLS				
Mxx (kN*m/m)	173.79	-76.60	173.79	-46.77
Myy (kN*m/m)	193.88	-83.31	193.88	-103.36
Mxy (kN*m/m)	-37.08	62.80	-37.08	-53.57
Nxx (kN/m)	-1.99	-0.01	-1.99	-1.46
Nyy (kN/m)	2.68	0.01	2.68	0.38
Nxy (kN/m)	-0.70	0.04	-0.70	-1.98
ULS				
Mxx (kN*m/m)	233.07	-102.71	233.07	-62.73
Myy (kN*m/m)	259.98	-111.71	259.98	-138.62
Mxy (kN*m/m)	-49.73	84.21	-49.73	-71.85
Nxx (kN/m)	-2.66	-0.01	-2.66	-1.96
Nyy (kN/m)	3.59	0.01	3.59	0.50
Nxy (kN/m)	-0.95	0.06	-0.95	-2.66
ULS - accid. comb.				
Mxx (kN*m/m)	534.60	-238.85	534.60	-141.10
Myy (kN*m/m)	600.52	-259.79	600.52	-314.84
Mxy (kN*m/m)	-114.68	195.83	-114.68	-162.56
Nxx (kN/m)	-7.56	-0.03	-7.56	-5.06
Nyy (kN/m)	8.36	0.03	8.36	2.18
Nxy (kN/m)	-1.54	0.15	-1.54	-6.29
Coordinates (m)	30.450;20.250 23.815;28.211	36.300;29.150	30.450;20.250	
Coordinates* (m)	101.200;4.700;4.400 101.200;4.700;4.400		110.100;-1.150;4.400 109.161;11.335;4.400	
* - Coordinates in the structure global coordinate system				

1.5.4. Deflection

|f(+)| = 0.0 (cm) <= fdop(+) = 4.0 (cm)

|f(-)| = 1.1 (cm) <= fdop(-) = 4.0 (cm)

1.5.5. Cracking

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upper layer
 ax = 0.17 (mm) <= adop = 0.30 (mm)
 ay = 0.20 (mm) <= adop = 0.30 (mm)
 lower layer
 ax = 0.00 (mm) <= adop = 0.30 (mm)
 ay = 0.00 (mm) <= adop = 0.30 (mm)

3. Results - detailing

List of solutions:
 Reinforcement: bars

Solution no.	Reinforcement range Diameter / Weight	Total weight (kG)
1	-	66158.64

Results for the solution no. 1
 Reinforcement zones

Bottom reinforcement

Name	coordinates Ar x1 y1 x2 y2 (cm2/m)				Provided reinforcement At φ (mm) / (cm) (cm2/m)	
1/1- Ax Main	0.000	-3.200	36.300	32.748	16.0 / 11.0	17.85 <
	18.28					
1/2-(1/1-) Ax Main	35.400	28.388	36.300	29.150	12.0 / 5.5	20.88 <
	28.56					
1/3- Ay Perpendicular	0.000	-3.200	36.300	32.748	16.0 / 11.0	16.91 <
	18.28					
1/4-(1/3-) Ay Perpendicular	35.400	28.388	36.300	29.150		12.0 / 5.5
	20.71	<	28.56			
1/5-(1/3-) Ay Perpendicular	18.018	23.950	32.638	31.433		16.0 / 5.5
	21.89	<	36.56			

Top reinforcement

Name	coordinates Ar x1 y1 x2 y2 (cm2/m)				Provided reinforcement At φ (mm) / (cm) (cm2/m)	
1/6+ Ax Main	0.000	-3.200	36.300	32.748	16.0 / 12.0	16.33 <
	16.76					
1/7+(1/6+) Ax Main	28.280	28.388	29.751	29.725	12.0 / 6.0	25.11 <
	26.18					
1/8+(1/6+) Ax Main	27.785	19.020	31.676	22.964	16.0 / 6.0	31.67 <
	33.51					
1/9+(1/6+) Ax Main	16.575	25.429	18.955	27.625	16.0 / 6.0	30.55 <
	33.51					
1/10+(1/6+) Ax Main	19.892	19.513	23.330	26.415	12.0 / 6.0	25.10 <
	26.18					
1/11+(1/6+) Ax Main	11.650	19.020	15.600	22.964	12.0 / 6.0	22.97 <
	26.18					
1/12+(1/6+) Ax Main	3.300	20.006	6.650	25.429	14.0 / 6.0	27.14 <
	29.58					
1/13+(1/6+) Ax Main	11.650	11.624	15.600	14.582	12.0 / 6.0	18.32 <
	26.18					
1/14+(1/6+) Ax Main	19.892	11.131	23.330	14.582	16.0 / 6.0	19.60 <
	33.51					

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1/15+(1/6+) Ax Main	27.785 26.18	11.131	31.676	14.582	12.0 / 6.0	20.35 <
1/16+(1/6+) Ax Main	27.785 26.18	6.201	31.676	9.159	12.0 / 6.0	19.71 <
1/17+(1/6+) Ax Main	19.892 26.18	6.201	23.330	9.159	12.0 / 6.0	19.59 <
1/18+(1/6+) Ax Main	11.650 26.18	6.201	15.600	9.159	12.0 / 6.0	18.02 <
1/19+(1/6+) Ax Main	11.650 26.18	-2.200	15.113	1.288	12.0 / 6.0	18.69 <
1/20+(1/6+) Ax Main	19.892 26.18	-2.200	23.330	1.288	12.0 / 6.0	19.98 <
1/21+(1/6+) Ax Main	29.751 26.18	-2.200	32.157	2.263	12.0 / 6.0	23.53 <
1/22+(1/6+) Ax Main	5.650 26.18	25.429	6.150	26.908	12.0 / 6.0	17.78 <
1/23+(1/6+) Ax Main	3.775 26.18	0.800	6.150	2.263	12.0 / 6.0	17.47 <
1/24+(1/6+) Ax Main	4.713 26.18	25.429	5.650	25.922	12.0 / 6.0	17.78 <
1/25+ Ay Perpendicular	0.000 16.76	-3.200	36.300	32.748	16.0 / 12.0	16.70 <
1/26+(1/25+) Ay Perpendicular	8.150 21.15 <	28.769 26.18	12.650	30.615	12.0 / 6.0	
1/27+(1/25+) Ay Perpendicular	17.063 35.14 <	25.922 42.94	19.423	28.006	20.0 / 6.0	
1/28+(1/25+) Ay Perpendicular	3.300 24.49 <	20.006 26.18	6.650	22.471	12.0 / 6.0	
1/29+(1/25+) Ay Perpendicular	11.650 25.41 <	19.020 26.18	15.600	22.964	12.0 / 6.0	
1/30+(1/25+) Ay Perpendicular	19.892 26.14 <	19.513 33.51	23.330	24.936	16.0 / 6.0	
1/31+(1/25+) Ay Perpendicular	26.795 36.90 <	19.020 42.94	31.676	22.964	20.0 / 6.0	
1/32+(1/25+) Ay Perpendicular	28.280 18.01 <	11.131 26.18	31.194	14.582	12.0 / 6.0	
1/33+(1/25+) Ay Perpendicular	20.360 20.08 <	11.131 26.18	23.330	13.103	12.0 / 6.0	
1/34+(1/25+) Ay Perpendicular	12.150 18.30 <	11.131 26.18	15.113	12.610	12.0 / 6.0	
1/35+(1/25+) Ay Perpendicular	4.244 18.04 <	11.131 26.18	7.150	13.103	12.0 / 6.0	
1/36+(1/25+) Ay Perpendicular	12.150 17.24 <	6.201 26.18	13.650	8.666	12.0 / 6.0	
1/37+(1/25+) Ay Perpendicular	20.360 17.33 <	6.201 26.18	21.350	9.159	12.0 / 6.0	
1/38+(1/25+) Ay Perpendicular	29.751 18.48 <	-0.200 26.18	31.676	2.263	12.0 / 6.0	
1/39+(1/25+) Ay Perpendicular	20.360 17.84 <	-2.200 26.18	23.330	1.288	12.0 / 6.0	
1/40+(1/25+) Ay Perpendicular	12.150 19.15 <	-1.700 26.18	15.113	1.288	12.0 / 6.0	
1/41+(1/25+) Ay Perpendicular	5.650 16.87 <	0.300 26.18	6.650	1.775	12.0 / 6.0	

4. Material survey

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- Concrete volume = 610.261 (m³)
- Formwork = 1220.523 (m²)
- Slab circumference = 146.035 (m)
- Area of openings = 46.278 (m²)

- Steel B500B
- Total weight = 72521.19 (kG)
- Density = 118.84 (kG/m³)
- Average diameter = 15.8 (mm)
- Survey according to diameters:

Diameter	Length (m)	Number of identical elements:
12	0.880	1
12	1.071	6
12	1.178	16
12	1.220	8
12	1.309	10
12	1.357	6
12	1.475	1
12	1.530	4
12	1.832	14
12	1.890	1
12	1.943	1
12	1.996	1
12	2.050	1
12	2.103	1
12	2.157	1
12	2.210	1
12	2.263	1
12	2.317	1
12	2.370	1
12	2.424	1
12	2.477	1
12	2.530	1
12	2.584	1
12	2.637	17
12	2.691	1
12	2.744	10
12	2.797	1
12	2.851	1
12	2.904	1
12	2.943	3
12	2.958	1
12	2.977	7
12	3.011	1
12	3.064	5
12	3.118	1
12	3.168	1
12	3.202	1
12	3.235	1
12	3.269	1
12	3.302	1
12	3.336	1
12	3.361	26
12	3.403	1
12	3.437	1

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	21	126	0



12	3.470	1
12	3.504	1
12	3.538	1
12	3.571	1
12	3.854	49
12	3.881	6
12	3.911	24
12	4.120	10
12	4.347	41
12	4.587	25
12	4.840	8
12	4.944	110
12	4.968	29
12	5.076	25
12	5.333	24
12	5.396	52
12	5.456	81
12	5.670	8
12	5.826	33
14	4.856	45
16	0.239	1
16	0.505	1
16	0.564	1
16	0.800	1
16	0.860	1
16	0.889	1
16	0.997	1
16	1.106	1
16	1.194	1
16	1.215	2
16	1.392	2
16	1.540	1
16	1.569	1
16	1.589	1
16	1.779	1
16	1.837	1
16	1.865	1
16	1.894	1
16	1.924	1
16	1.952	1
16	2.010	1
16	2.068	1
16	2.191	1
16	2.279	1
16	2.516	1
16	2.545	2
16	2.559	2
16	2.574	2
16	2.588	2
16	2.602	2
16	2.617	2
16	2.634	6
16	2.646	3
16	2.658	3
16	2.674	4
16	2.689	3
16	2.702	3
16	2.717	4

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	22	126	0



16	2.732	3
16	2.745	4
16	2.767	7
16	2.789	5
16	2.804	3
16	2.818	3
16	2.833	5
16	2.847	4
16	2.861	2
16	2.876	4
16	2.890	4
16	2.904	3
16	2.919	4
16	2.933	4
16	2.948	4
16	2.962	3
16	2.976	2
16	2.989	1
16	3.060	191
16	3.167	1
16	3.344	1
16	3.492	1
16	3.699	1
16	3.817	1
16	3.886	12
16	4.054	1
16	4.143	1
16	4.274	1
16	4.409	1
16	4.428	2
16	4.468	1
16	4.503	1
16	4.731	1
16	4.764	1
16	4.793	1
16	4.944	28
16	4.960	1
16	5.119	2
16	5.188	1
16	5.396	33
16	5.417	1
16	5.444	32
16	5.473	1
16	5.484	1
16	5.510	1
16	5.528	1
16	5.546	1
16	5.573	1
16	5.617	1
16	5.646	1
16	5.662	1
16	5.706	1
16	5.751	1
16	5.769	1
16	5.795	1
16	5.828	1
16	5.839	1
16	5.874	2

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	23	126	0



16	5.903	1
16	5.928	1
16	5.974	2
16	6.017	1
16	6.062	1
16	6.094	2
16	6.106	1
16	6.150	1
16	6.183	1
16	6.195	1
16	6.239	1
16	6.284	1
16	6.296	1
16	6.325	4
16	6.347	2
16	6.372	1
16	6.403	1
16	6.420	2
16	6.459	3
16	6.471	2
16	6.506	1
16	6.533	29
16	6.550	1
16	6.560	1
16	6.594	5
16	6.639	1
16	6.689	2
16	6.728	1
16	6.745	1
16	6.772	1
16	6.788	29
16	6.817	1
16	6.831	1
16	6.861	1
16	6.893	1
16	6.905	1
16	6.950	1
16	6.994	1
16	7.017	1
16	7.039	1
16	7.070	1
16	7.081	2
16	7.128	1
16	7.172	1
16	7.216	1
16	7.248	2
16	7.260	2
16	7.305	30
16	7.350	1
16	7.396	2
16	7.439	1
16	7.474	3
16	7.523	2
16	7.568	2
16	7.603	1
16	7.616	1
16	7.661	1
16	7.689	1

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	24	126	0



16	7.703	2
16	7.721	1
16	7.756	7
16	7.774	7
16	7.793	5
16	7.811	6
16	7.838	12
16	7.866	7
16	7.884	5
16	7.902	8
16	7.920	7
16	7.939	5
16	7.958	7
16	7.975	6
16	7.993	6
16	8.011	11
16	8.028	12
16	8.041	12
16	8.066	11
16	8.084	36
16	8.096	12
16	8.117	9
16	8.129	4
16	8.139	4
16	8.152	13
16	8.175	10
16	8.194	6
16	8.212	12
16	8.238	11
16	8.248	4
16	8.258	137
16	8.277	12
16	8.296	6
16	8.313	13
16	8.329	8
16	8.339	11
16	8.358	14
16	8.372	7
16	8.384	8
16	8.402	12
16	8.419	10
16	8.435	17
16	8.455	10
16	8.467	12
16	8.479	8
16	8.491	12
16	8.503	71
16	8.515	9
16	8.526	14
16	8.546	13
16	8.564	16
16	8.576	14
16	8.588	14
16	8.600	12
16	8.612	16
16	8.622	6
16	8.633	45
16	8.647	21

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	25	126	0



16	8.668	25
16	8.685	18
16	8.697	18
16	8.709	18
16	8.721	16
16	8.734	14
16	8.746	18
16	8.758	16
16	8.770	14
16	8.781	18
16	8.791	18
16	8.806	20
16	8.818	16
16	8.830	21
16	8.841	22
16	8.855	18
16	8.866	20
16	8.879	35
16	8.891	24
16	8.902	18
16	8.915	20
16	8.927	18
16	8.939	18
16	8.950	20
16	8.963	22
16	8.974	21
16	8.988	18
16	9.000	20
16	9.012	18
16	9.022	23
16	9.034	24
16	9.045	21
16	9.059	25
16	9.074	20
16	9.085	20
16	9.102	30
16	9.113	14
16	9.131	24
16	9.145	18
16	9.160	26
16	9.170	14
16	9.189	26
16	9.205	20
16	9.218	17
16	9.230	12
16	9.247	21
16	9.264	16
16	9.276	12
16	9.295	838
16	9.306	10
16	9.317	6
16	9.333	12
16	9.352	9
16	9.362	6
16	9.377	9
16	9.391	196
16	9.403	9
16	9.420	10

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	26	126	0



16	9.437	9
16	9.449	8
16	9.461	2
16	9.478	4
16	9.507	4
16	9.535	4
16	9.550	816
16	9.603	1
16	9.619	1
16	9.647	93
16	9.673	1
16	9.712	2
16	9.732	1
16	9.784	1
16	9.817	1
16	9.959	2
16	9.982	1
16	9.998	1
16	10.014	1
16	10.087	1
16	10.145	1
16	10.211	2
16	10.252	1
16	10.310	66
16	10.324	2
16	10.408	1
16	10.425	42
16	10.442	1
16	10.454	1
16	10.507	1
16	10.521	1
16	10.606	1
16	10.680	22
16	10.701	1
16	10.743	2
16	10.767	2
16	10.791	3
16	10.803	1
16	10.816	2
16	10.840	2
16	10.865	3
16	10.889	2
16	10.913	2
16	10.938	2
16	10.948	1
16	10.962	2
16	10.986	60
16	11.000	2
16	11.011	4
16	11.022	3
16	11.035	4
16	11.047	4
16	11.061	3
16	11.071	5
16	11.088	5
16	11.106	4
16	11.120	5
16	11.142	3

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	27	126	0



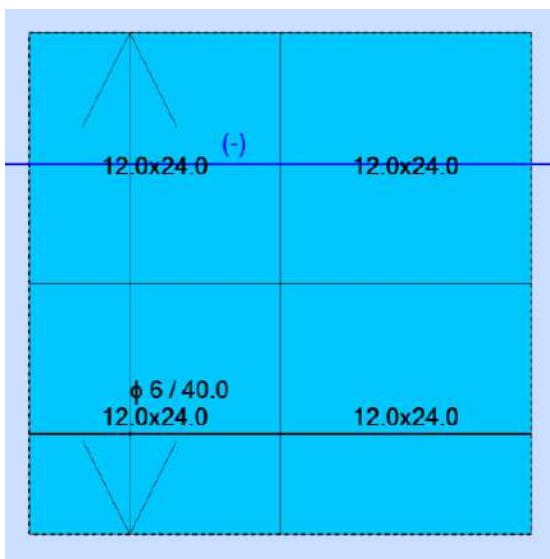
16	11.160	3
16	11.177	2
16	11.198	5
16	11.213	3
16	11.231	3
16	11.241	32
16	11.266	4
16	11.282	4
16	11.298	4
16	11.314	3
16	11.330	3
16	11.343	2
16	11.361	2
16	11.379	2
16	11.395	2
16	11.415	2
16	11.432	1
16	11.450	2
16	11.468	1
16	11.486	1
16	11.504	1
16	11.521	1
16	11.539	1
16	11.557	1
16	11.575	1
16	11.592	3
16	11.675	136
16	11.690	1
16	11.870	1
16	11.930	69
20	1.857	1
20	1.930	1
20	2.003	1
20	2.076	1
20	2.107	1
20	2.149	1
20	2.356	1
20	2.605	1
20	2.855	1
20	3.104	1
20	3.353	1
20	3.603	1
20	3.813	8
20	5.302	40

Išvada: perdangos laikomoji galia pakankama, praspaudimas virš kolonų su kapiteliais neskaičiuojamas

Rodomas reikalingas kapitelio virš kolonos armavimas:

Apatinis armavimas X kryptimi:

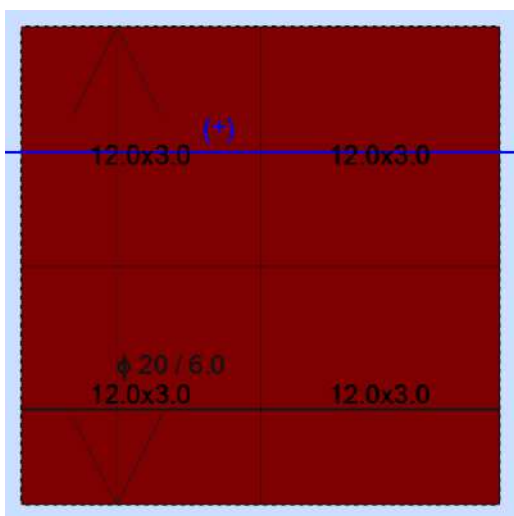
IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	28	126	0



Apatinis armavimas Y kryptimi:

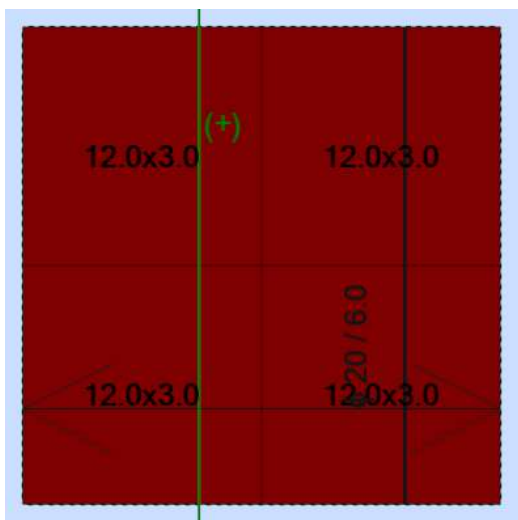


Viršutinis armavimas X kryptimi:



Viršutinis armavimas Y kryptimi:

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	29	126	0



Valkšnumo koeficiento ir susitraukimo deformacijų nustatymas su skaičiuokle pagal EN1992-1-1:

Concrete characteristic strength	$f_{ck} =$ 35 MPa
Concrete cross-sectional area	$A_c =$ 1 m ²
Part of cross-section perimeter exposed to drying	$u =$ 2 m
Age of concrete at loading	$t_0 =$ 28 days
Ambient temperature	$T =$ 20 °C
Relative humidity of ambient environment	$RH =$ 80 %
Cement type	= Class N
Age of concrete at end of curing	$t_s =$ 7 days

Final creep coefficient

$$\varphi(\infty, t_0) = 1.409$$

Final shrinkage strain

$$\varepsilon_{cs}(\infty, t_s) = 23.98 \times 10^{-5}$$

Notional creep coefficient

The notional creep coefficient φ_0 is calculated in accordance with EN1992-1-1 equation (B.2) as the product:

$$\varphi_0 = \varphi_{RH} \beta(f_{cm}) \beta(t_0) = 1.126 \cdot 2.562 \cdot 0.489 = 1.409$$

Time-development of creep coefficient

The time-development curve of creep coefficient $\varphi(t, t_0)$ as a function of time t is calculated as the product $\varphi(t, t_0) = \varphi_0 \beta(t, t_0)$ in accordance with EN1992-1-1 equation (B.1), where the time-development coefficient $\beta(t, t_0)$ is given by EN1992-1-1 equation (B.7) as follows:

$$\beta(t, t_0) = \left[(t - t_0) / (\beta_H + t - t_0) \right]^{0.3}, \text{ where time } t \text{ is given in days}$$

Final creep coefficient at infinite time

The final creep coefficient $\varphi(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta(t, t_0) = 1.0$ and therefore $\varphi(\infty, t_0) = \varphi_0 = 1.409$.

Therefore the final creep coefficient at infinite time is calculated as $\varphi(\infty, t_0) = 1.409$.

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	30	126	0

Intermediate factors

In addition to the previous calculations the following intermediate factors and coefficients are calculated:

- o The coefficients α_{ds1} and α_{ds2} depend on the cement type. For cement type Class N they are specified in EN1992-1-1 5B.2(1) as $\alpha_{ds1} = 4$ and $\alpha_{ds2} = 0.12$.
- o The factor β_{RH} accounts for the effect of relative humidity in accordance with EN1992-1-1 equation (B.12). It is calculated as $\beta_{RH} = 1.55 \cdot [1 - (RH / 100 \%)^3] = 1.55 \cdot [1 - (80.0 \% / 100 \%)^3] = 0.756$

Basic drying shrinkage strain

The basic drying shrinkage $\epsilon_{cd,0}$ is given in EN1992-1-1 equation (B.11). It is calculated as $\epsilon_{cd,0} = 25.33 \times 10^{-5}$.

Autogenous shrinkage strain

The autogenous shrinkage strain at infinite time $\epsilon_{ca}(\infty)$ is calculated in accordance with EN1992-1-1 equation (3.12) as:

$$\epsilon_{ca}(\infty) = 2.5 \cdot (f_{ck} - 10 \text{ MPa}) \cdot 10^{-6} = 2.5 \cdot (35.00 \text{ MPa} - 10 \text{ MPa}) \cdot 10^{-6} = 6.25 \times 10^{-5}$$

Total shrinkage strain

The total shrinkage strain ϵ_{cs} is composed from the drying shrinkage strain ϵ_{cd} and the autogenous shrinkage strain ϵ_{ca} as specified in EN1992-1-1 equation (3.8):

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

Time-development of shrinkage strain

The time-development curve of the drying shrinkage strain $\epsilon_{cd}(t)$ as a function of time t is calculated as the product $\epsilon_{cd}(t) = \beta_{ds}(t, t_s) \cdot \epsilon_{cd,0}$ in accordance with EN1992-1-1 equation (3.9), where the time-development coefficient $\beta_{ds}(t, t_s)$ is given by EN1992-1-1 equation (3.10):

$$\beta_{ds}(t, t_s) = (t - t_s) / [(t - t_s) + 0.04 \cdot h_0^{-3/2}]$$

The time-development curve of the autogenous shrinkage strain $\epsilon_{ca}(t)$ as a function of time t is calculated as the product $\epsilon_{ca}(t) = \beta_{as}(t) \cdot \epsilon_{ca}(\infty)$ in accordance with EN1992-1-1 equation (3.11), where the time-development coefficient $\beta_{as}(t)$ is given by EN1992-1-1 equation (3.13):

$$\beta_{as}(t) = 1 - \exp(-0.2 \cdot t^{0.5}), \text{ where time } t \text{ is given in days}$$

Final shrinkage strain at infinite time

The final total shrinkage strain $\epsilon_{cs}(\infty, t_s)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta_{ds}(t, t_s) = 1.0$ and $\beta_{as}(t) = 1.0$, and therefore:

$$\epsilon_{cs}(\infty, t_s) = \epsilon_{cd,0} + \epsilon_{ca}(\infty) = 0.70 \cdot 25.33 \times 10^{-5} + 6.25 \times 10^{-5} = 23.98 \times 10^{-5}$$

Therefore the final total shrinkage strain at infinite time is calculated as $\epsilon_{cs}(\infty, t_s) = 23.98 \times 10^{-5}$.

Skaičiuoklėje gautas valkšnumo koeficientas 1,409.

Skaičiavimo programoje gautas valkšnumo koeficientas 1,41.

1. Slab: Slab1096 - Panel no. 1096

1.1. Reinforcement:

- Type : Perdanga
- Main reinforcement direction : 0°
- Main reinforcement grade : B500B; Characteristic strength = 500.00 MPa
Horizontal branch of the stress-strain diagram
- Ductility class : B
- Bar diameters : bottom d1 = 1.2 (cm) d2 = 1.2 (cm)
top d1 = 1.2 (cm) d2 = 1.2 (cm)
- Cover : bottom c1 = 3.2 (cm)
top c2 = 7.0 (cm)
- Cover deviations : Cdev = 1.0(cm), Cdur = 0.0(cm)

1.2. Concrete

- Class : C35/45; Characteristic strength = 35.00 MPa
Rectangular stress distribution [3.1.7(3)]
- Density : 2501.36 (kg/m3)
- Concrete creep coefficient : 1.41
- Cement class : N

1.3. Hypothesis

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Method of reinforcement area calculations : analytical
- Allowable cracking width

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	31	126	0

- upper layer	: 0.30 (mm)
- lower layer	: 0.30 (mm)
• Allowable deflection	: 4.0 (cm)
• Verification of punching	: yes
• Exposure	
- upper layer	: XC2
- lower layer	: XC2
• Calculation type	: simple bending
• Structure class	: S4
Modified partial coefficients:	
$\alpha_{cc} = 0.9$	1992-1-1 3.1.6 (1)P

1.4. Slab geometry

Thickness 1.000 (m)

Contour:

edge	beginning		end		length
	x1	y1	x2	y2	(m)
1	0.000	-1.600	1.600	-1.600	1.600
2	1.600	-1.600	1.600	0.000	1.600
3	1.600	0.000	0.000	0.000	1.600
4	0.000	0.000	0.000	-1.600	1.600

Support:

n°	Name	dimensions (m)	coordinates		edge
			x	y	
28	point	0.600	0.800	-0.800	—
3472	point	0.010	-0.000	-1.600	—
3473	point	0.010	1.600	-1.600	—
3475	point	0.010	1.600	-0.000	—
3484	point	0.010	-0.000	-0.000	—
3487	point	0.010	0.366	-1.600	—
3488	point	0.010	0.655	-1.600	—
3489	point	0.010	0.945	-1.600	—
3490	point	0.010	1.234	-1.600	—
3491	point	0.010	1.600	-1.234	—
3495	point	0.010	1.600	-0.945	—
3497	point	0.010	1.600	-0.655	—
3499	point	0.010	1.600	-0.366	—
3500	point	0.010	1.234	-0.000	—
3501	point	0.010	0.945	0.000	—
3502	point	0.010	0.655	0.000	—
3510	point	0.010	0.366	0.000	—
3513	point	0.010	-0.000	-0.366	—
3515	point	0.010	-0.000	-0.655	—
3517	point	0.010	-0.000	-0.945	—
3525	point	0.010	-0.000	-1.234	—

* - head present

1.5. Calculation results:

1.5.1. Maximum moments + reinforcement for bending

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	32	126	0



	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Provided reinforcement (cm2/m):	52.36	0.00	52.36	0.00
Modified required reinforcement (cm2/m):	48.52	0.00	42.72	0.00
Original required reinforcement (cm2/m):	48.52	0.00	42.72	0.00
Coordinates (m):	1.075;-0.324	-101.200;-6.300	1.276;-0.525	-
101.200;-6.300				

1.5.2. Maximum moments + reinforcement for bending

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Symbol: required area/ provided area				
Ax(+) (cm2/m)	48.52/52.36	30.49/0.00	48.52/52.36	
Ax(-) (cm2/m)	0.00/0.71	0.00/0.00	0.00/0.71	0.00/0.00
Ay(+) (cm2/m)	42.72/52.36	15.10/0.00	42.72/52.36	
Ay(-) (cm2/m)	0.00/0.00	0.00/0.00	0.00/0.00	0.00/0.00
SLS				
Mxx (kN*m/m)	631.20	0.00	487.36	0.00
Myy (kN*m/m)	408.90	0.00	534.23	0.00
Mxy (kN*m/m)	-18.87	0.00	-34.04	0.00
Nxx (kN/m)	1.53	0.00	-0.10	0.00
Nyy (kN/m)	-5.91	0.00	-4.12	0.00
Nxy (kN/m)	-3.10	0.00	-3.21	0.00
ULS				
Mxx (kN*m/m)	846.46	0.00	653.56	0.00
Myy (kN*m/m)	548.37	0.00	716.46	0.00
Mxy (kN*m/m)	-25.32	0.00	-45.66	0.00
Nxx (kN/m)	2.05	0.00	-0.13	0.00
Nyy (kN/m)	-7.93	0.00	-5.52	0.00
Nxy (kN/m)	-4.17	0.00	-4.30	0.00
ULS - accid. comb.				
Mxx (kN*m/m)	1947.31	0.00	1505.24	0.00
Myy (kN*m/m)	1255.17	0.00	1638.05	0.00
Mxy (kN*m/m)	-56.10	0.00	-102.99	0.00
Nxx (kN/m)	5.00	0.00	0.29	0.00
Nyy (kN/m)	-17.60	0.00	-13.00	0.00
Nxy (kN/m)	-8.64	0.00	-9.01	0.00
Coordinates (m)	1.075;-0.324	-101.200;-6.300	1.276;-0.525	-
101.200;-6.300				
Coordinates* (m)	102.275;5.976;4.400		0.000;0.000;0.000	
	102.476;5.775;4.400		0.000;0.000;0.000	
	* - Coordinates in the structure global coordinate system			

1.5.3. Punching

Support no. / Point	Location (m)		Geometry: (m)			
	x	y	a	b	d	h
S1 (22245)	0.800	-0.800	Column	-	-	0.600
	-	-				
Support no. / Point	Loads: (kN)		Critical perimeter (m)		Qadm / Q	
	Q	Qadm	u		Lapas	Lapų
IN2330-01-TP-SK-S						
					33	126
						Laida
						0

S1 (22245)

0.00

0.00

0.000

< 1

Support no. / Point: S1 (22245)

uo = 1.885
u1 = 0.000
 ρ_{Lx} = 0.01
 ρ_{Ly} = 0.01
heff = 91.8 (cm)
Ax = 52.36 (cm²)
Ay = 52.36 (cm²)
 α = 1.57
v = 0.52 ()
 γ_c = 1.50 ()
fcd = 23.33 (MPa)
vRdmax = 4.82 (MPa)

vRdc = 0.48
vmin = 0.37
vEds = 0.00
cRdc = 0.12
k = 1.47
 ρ_L = 0.01 ()
vlim = 0.48 (MPa)
v = ##### (MPa)
A = 0.000 (m²)

1.5.4. Deflection

|f(+)| = 0.0 (cm) <= fdop(+) = 4.0 (cm)
|f(-)| = 0.1 (cm) <= fdop(-) = 4.0 (cm)

1.5.5. Cracking

upper layer
ax = 0.17 (mm) <= adop = 0.30 (mm)
ay = 0.21 (mm) <= adop = 0.30 (mm)
lower layer
ax = 0.00 (mm) <= adop = 0.30 (mm)
ay = 0.00 (mm) <= adop = 0.30 (mm)

3. Results - detailing

List of solutions:

Reinforcement: bars

Solution no.	Reinforcement range Diameter / Weight	Total weight (kg)
1	-	211.94

Results for the solution no. 1

Reinforcement zones

Bottom reinforcement

Name	coordinates Ar	Provided reinforcement	At
	x1 y1 x2 y2 (cm ² /m)	ϕ (mm) / (cm)	(cm ² /m)

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	34	126	0

1/1- Ax Main 0.000 -1.600 1.600 0.000 6.0 / 40.0 0.00 <
0.71

Top reinforcement
Name

Name	coordinates Ar				Provided reinforcement At	
	x1	y1	x2	y2	φ (mm) / (cm)	(cm2/m)
1/2+ Ax Main	0.000	-1.600	1.600	0.000	20.0 / 6.0	48.52 <
1/3+ Ay Perpendicular	0.000	-1.600	1.600	0.000	20.0 / 6.0	42.72 <

4. Material survey

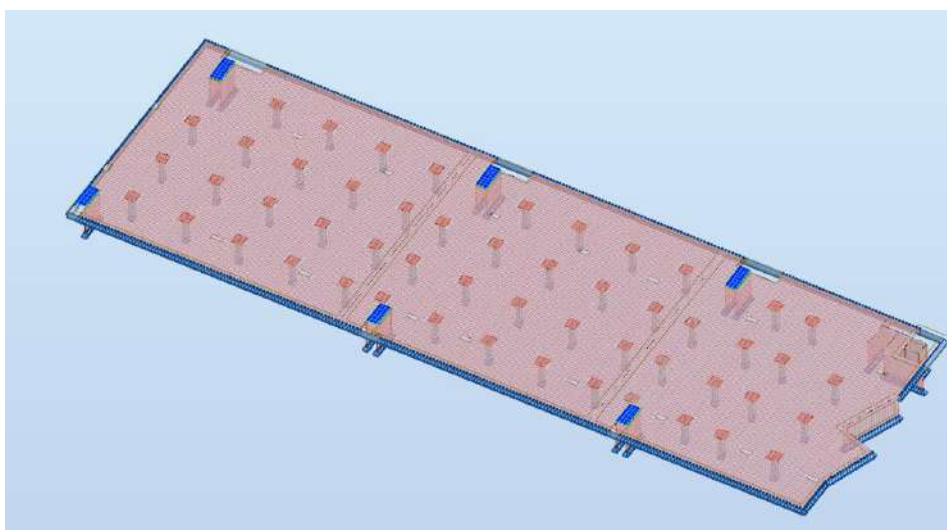
- Concrete volume = 2.560 (m3)
- Formwork = 2.560 (m2)
- Slab circumference = 6.400 (m)
- Area of openings = 0.000 (m2)

- Steel B500B
- Total weight = 181.39 (kG)
- Density = 70.85 (kG/m3)
- Average diameter = 19.0 (mm)
- Survey according to diameters:

Diameter	Length (m)	Number of identical elements:
6	1.460	4
20	1.460	50

Išvada: perdangos laikomoji galia pakankama, praspaudimas virš kolonų su kapiteliais neskaiciuojamas

Perdangų virš laiptinių išdėstymas:

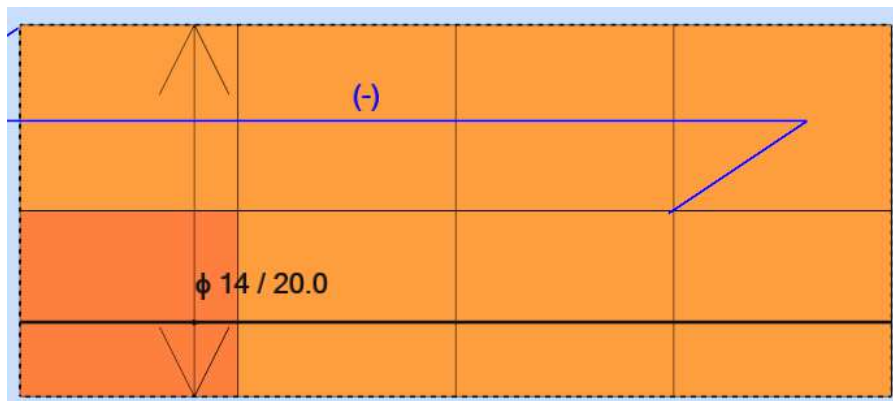


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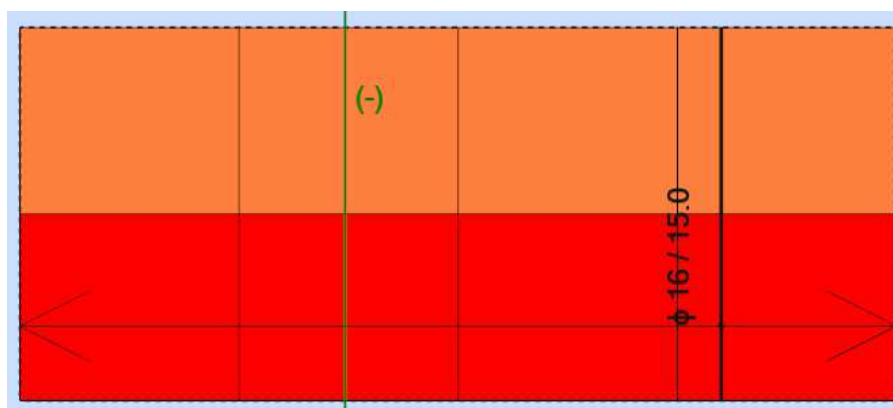
Lapas	Lapų	Laida
35	126	0

Rodomas didžiausias armavimas perdangos virš laiptinės:

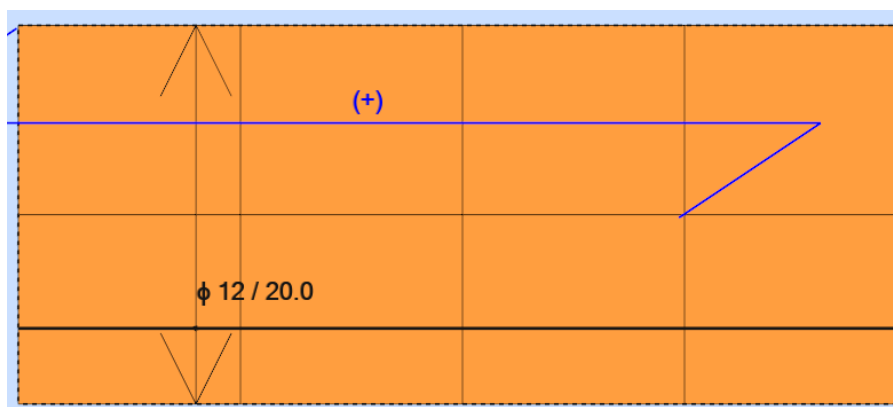
Apatinis armavimas X kryptimi:



Apatinis armavimas Y kryptimi:

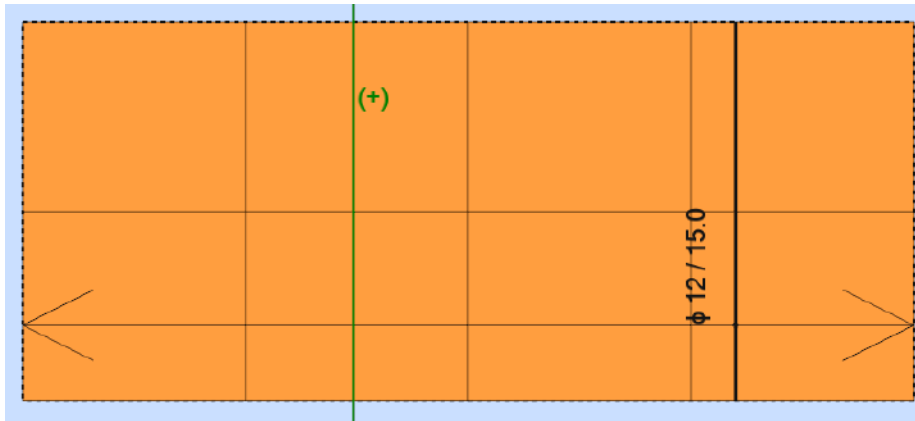


Viršutinis armavimas X kryptimi:



Viršutinis armavimas Y kryptimi:

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	36	126	0



Valkšnumo koeficiento ir susitraukimo deformacijų nustatymas su skaičiuokle pagal EN1992-1-1:

Concrete characteristic strength	$f_{ck} =$ 35 MPa
Concrete cross-sectional area	$A_c =$ 0.3 m ²
Part of cross-section perimeter exposed to drying	$u =$ 2 m
Age of concrete at loading	$t_0 =$ 28 days
Ambient temperature	$T =$ 20 °C
Relative humidity of ambient environment	$RH =$ 80 %
Cement type	= Class N
Age of concrete at end of curing	$t_s =$ 7 days

Final creep coefficient

$$\varphi(\infty, t_0) = 1.512$$

Final shrinkage strain

$$\epsilon_{cs}(\infty, t_s) = 25.25 \times 10^{-5}$$

Notional creep coefficient

The notional creep coefficient φ_0 is calculated in accordance with EN1992-1-1 equation (B.2) as the product:

$$\varphi_0 = \varphi_{01} \beta(f_{cm}) \beta(t_0) = 1.208 \cdot 2.562 \cdot 0.489 = 1.512$$

Time-development of creep coefficient

The time-development curve of creep coefficient $\varphi(t, t_0)$ as a function of time t is calculated as the product $\varphi(t, t_0) = \varphi_0 \beta(t, t_0)$ in accordance with EN1992-1-1 equation (B.1), where the time-development coefficient $\beta(t, t_0)$ is given by EN1992-1-1 equation (B.7) as follows:

$$\beta(t, t_0) = \left[\frac{(t - t_0)}{(\beta_{H1} + t - t_0)} \right]^{0.3}, \text{ where time } t \text{ is given in days}$$

Final creep coefficient at infinite time

The final creep coefficient $\varphi(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta(t, t_0) = 1.0$ and therefore $\varphi(\infty, t_0) = \varphi_0 = 1.512$.

Therefore the final creep coefficient at infinite time is calculated as $\varphi(\infty, t_0) = 1.512$.

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	37	126	0

Intermediate factors

In addition to the previous calculations the following intermediate factors and coefficients are calculated:

- The coefficients a_{d51} and a_{d52} depend on the cement type. For cement type Class N they are specified in EN1992-1-1 5B.2(7) as $a_{d51} = 4$ and $a_{d52} = 0.12$
- The factor β_{RH} accounts for the effect of relative humidity in accordance with EN1992-1-1 equation (B.12). It is calculated as $\beta_{RH} = 1.55 \cdot [1 - (RH / 100 \%)^2] = 1.55 \cdot [1 - (80.0 \% / 100 \%)^2] = 0.756$

Basic drying shrinkage strain

The basic drying shrinkage $\epsilon_{cd,0}$ is given in EN1992-1-1 equation (B.11). It is calculated as $\epsilon_{cd,0} = 25.33 \times 10^{-5}$.

Autogenous shrinkage strain

The autogenous shrinkage strain at infinite time $\epsilon_{ca}(\infty)$ is calculated in accordance with EN1992-1-1 equation (3.12) as:

$$\epsilon_{ca}(\infty) = 2.5 \cdot (f_{ck} - 10 \text{ MPa}) \cdot 10^{-6} = 2.5 \cdot (35.00 \text{ MPa} - 10 \text{ MPa}) \cdot 10^{-6} = 6.25 \times 10^{-5}$$

Total shrinkage strain

The total shrinkage strain ϵ_{cs} is composed from the drying shrinkage strain ϵ_{cd} and the autogenous shrinkage strain ϵ_{ca} as specified in EN1992-1-1 equation (3.8):

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

Time-development of shrinkage strain

The time-development curve of the drying shrinkage strain $\epsilon_{cd}(t)$ as a function of time t is calculated as the product $\epsilon_{cd}(t) = \beta_{ds}(t, t_s) \cdot k_{fr} \cdot \epsilon_{cd,0}$ in accordance with EN1992-1-1 equation (3.9), where the time-development coefficient $\beta_{ds}(t, t_s)$ is given by EN1992-1-1 equation (3.10):

$$\beta_{ds}(t, t_s) = (t - t_s) / [(t - t_s) + 0.04 \cdot h_0^{3/2}]$$

The time-development curve of the autogenous shrinkage strain $\epsilon_{ca}(t)$ as a function of time t is calculated as the product $\epsilon_{ca}(t) = \beta_{as}(t) \cdot \epsilon_{ca}(\infty)$ in accordance with EN1992-1-1 equation (3.11), where the time-development coefficient $\beta_{as}(t)$ is given by EN1992-1-1 equation (3.13):

$$\beta_{as}(t) = 1 - \exp(-0.2 \cdot t^{0.5}), \text{ where time } t \text{ is given in days}$$

Final shrinkage strain at infinite time

The final total shrinkage strain $\epsilon_{cs}(\infty, t_s)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta_{ds}(t, t_s) = 1.0$ and $\beta_{as}(t) = 1.0$, and therefore:

$$\epsilon_{cs}(\infty, t_s) = k_{fr} \cdot \epsilon_{cd,0} + \epsilon_{ca}(\infty) = 0.75 \cdot 25.33 \times 10^{-5} + 6.25 \times 10^{-5} = 25.25 \times 10^{-5}$$

Therefore the final total shrinkage strain at infinite time is calculated as $\epsilon_{cs}(\infty, t_s) = 25.25 \times 10^{-5}$.

Skaičiuoklėje gautas valkšnumo koeficientas 1,512.

Skaičiavimo programoje gautas valkšnumo koeficientas 1,56.

1. Slab: Slab1075 - Panel no. 1075

1.1. Reinforcement:

- Type : Perdanga
- Main reinforcement direction : 0°
- Main reinforcement grade : B500B; Characteristic strength = 500.00 MPa
Horizontal branch of the stress-strain diagram
- Ductility class : B
- Bar diameters : bottom d1 = 1.2 (cm) d2 = 1.2 (cm)
top d1 = 1.2 (cm) d2 = 1.2 (cm)
- Cover : bottom c1 = 3.0 (cm)
top c2 = 3.0 (cm)
- Cover deviations : Cdev = 1.0(cm), Cdur = 0.0(cm)

1.2. Concrete

- Class : C35/45; Characteristic strength = 35.00 MPa
Rectangular stress distribution [3.1.7(3)]
- Density : 2501.36 (kg/m3)
- Concrete creep coefficient : 1.56
- Cement class : N

1.3. Hypothesis

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Method of reinforcement area calculations : analytical
- Allowable cracking width : 0.30 (mm)
- upper layer : 0.30 (mm)
- lower layer : 4.00 (cm)
- Allowable deflection : 4.00 (cm)

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	38	126	0

- Verification of punching : no
 - Exposure : XC2
 - upper layer : XC2
 - lower layer : XC2
 - Calculation type : simple bending
 - Structure class : S4
- Modified partial coefficients:
 $a_{cc} = 0.9$ 1992-1-1 3.1.6 (1)P

1.4. Slab geometry

Thickness 0.200 (m)

Contour:

edge	beginning		end		length
	x1	y1	x2	y2	(m)
1	0.000	-1.600	3.756	-1.600	3.756
2	3.756	-1.600	3.756	0.000	1.600
3	3.756	0.000	0.000	0.000	3.756
4	0.000	0.000	0.000	-1.600	1.600

Support:

n°	Name	dimensions (m)	coordinates		edge
			x	y	
0	linear	0.300 / 3.756	1.878	0.000	—
0	linear	1.600 / 0.300	0.000	-0.800	—
0	linear	0.300 / 3.756	1.878	-1.600	—

* - head present

1.5. Calculation results:

1.5.1. Maximum moments + reinforcement for bending

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Provided reinforcement (cm2/m):	5.65	7.70	7.54	13.40
Modified required reinforcement (cm2/m):	4.57	5.56	4.57	13.18
Original required reinforcement (cm2/m):	4.57	5.56	4.57	13.18
Coordinates (m):	0.000;-1.600	0.470;-1.600	0.000;-1.600	0.470;-1.600

1.5.2. Maximum moments + reinforcement for bending

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Symbol: required area/provided area				
Ax(+) (cm2/m)	4.57/5.65	4.57/5.65	4.57/5.65	4.57/5.65
Ax(-) (cm2/m)	5.56/7.70	5.56/7.70	5.56/7.70	5.56/7.70
Ay(+) (cm2/m)	4.57/7.54	4.57/7.54	4.57/7.54	4.57/7.54
Ay(-) (cm2/m)	13.18/13.40	13.18/13.40	13.18/13.40	13.18/13.40

	SLS			
Mxx (kN*m/m)	-14.76	-8.93	-14.76	-8.93

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	39	126	0



Myy (kN*m/m)	-22.82	-42.77	-22.82	-42.77
Mxy (kN*m/m)	10.37	9.16	10.37	9.16
Nxx (kN/m)	13.03	8.90	13.03	8.90
Nyy (kN/m)	249.03	275.73	249.03	275.73
Nxy (kN/m)	196.75	143.80	196.75	143.80
ULS				
Mxx (kN*m/m)	-19.42	-11.62	-19.42	-11.62
Myy (kN*m/m)	-29.70	-55.67	-29.70	-55.67
Mxy (kN*m/m)	13.49	11.91	13.49	11.91
Nxx (kN/m)	17.33	11.85	17.33	11.85
Nyy (kN/m)	325.76	358.81	325.76	358.81
Nxy (kN/m)	257.43	187.00	257.43	187.00
ULS - accid. comb.				
Mxx (kN*m/m)	-6.99	-5.81	-6.99	-5.81
Myy (kN*m/m)	-14.20	-26.29	-14.20	-26.29
Mxy (kN*m/m)	5.48	5.88	5.48	5.88
Nxx (kN/m)	36.23	26.23	36.23	26.23
Nyy (kN/m)	121.14	167.45	121.14	167.45
Nxy (kN/m)	95.11	87.39	95.11	87.39
Coordinates (m)	0.000;-1.600	0.470;-1.600	0.000;-1.600	0.470;-1.600
Coordinates* (m)	-0.400;4.250;4.600	-0.400;3.781;4.628	-0.400;4.250;4.600	-0.400;3.781;4.628
* - Coordinates in the structure global coordinate system				

1.5.4. Deflection

$|f(+)| = 0.00 \text{ (cm)} \leq f_{dop}(+) = 4.00 \text{ (cm)}$

$|f(-)| = 0.02 \text{ (cm)} \leq f_{dop}(-) = 4.00 \text{ (cm)}$

1.5.5. Cracking

upper layer

$a_x = 0.00 \text{ (mm)} \leq a_{dop} = 0.30 \text{ (mm)}$

$a_y = 0.00 \text{ (mm)} \leq a_{dop} = 0.30 \text{ (mm)}$

lower layer

$a_x = 0.00 \text{ (mm)} \leq a_{dop} = 0.30 \text{ (mm)}$

$a_y = 0.00 \text{ (mm)} \leq a_{dop} = 0.30 \text{ (mm)}$

3. Results - detailing

List of solutions:

Reinforcement: bars

Solution no.	Reinforcement range Diameter / Weight	Total weight (kg)
1	-	161.87

Results for the solution no. 1

Reinforcement zones

Bottom reinforcement

Name	coordinates Ar	Provided reinforcement At	
	x1 y1 x2 y2	$\phi \text{ (mm)} / \text{(cm)}$	$\text{(cm}^2\text{/m)}$
	(cm ² /m)		

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1/1- Ax Main	0.000	-1.600	3.756	0.000	14.0 / 20.0	5.56 <
	7.70					
1/2- Ay Perpendicular	0.000	-1.600	3.756	0.000	16.0 / 15.0	13.18 <
	13.40					

Top reinforcement

Name	coordinates				Provided reinforcement At	
	Ar					
	x1	y1	x2	y2	φ (mm) / (cm)	(cm2/m)
	(cm2/m)					
1/3+ Ax Main	0.000	-1.600	3.756	0.000	12.0 / 20.0	4.57 <
	5.65					
1/4+ Ay Perpendicular	0.000	-1.600	3.756	0.000	12.0 / 15.0	4.57 <
	7.54					

4. Material survey

- Concrete volume = 1.202 (m3)
- Formwork = 6.010 (m2)
- Slab circumference = 10.713 (m)
- Area of openings = 0.000 (m2)

- Steel B500B
- Total weight = 137.69 (kG)
- Density = 114.54 (kG/m3)
- Average diameter = 13.6 (mm)
- Survey according to diameters:

Diameter	Length (m)	Number of identical elements:
12	1.540	24
12	3.696	6
14	3.696	6
16	1.540	24

Išvada: perdangos virš laiptinės laikomoji galia pakankama

1.3. Kolonų projektavimas

Betonas: C35/45;

Aplinkos klasė XC3 XF2 XD3;

Kolonas su pamatu jungiamos standžiai.

Apsauginis betono sluoksnis: ne mažiau kaip armatūros skersmuo ir ne mažiau nei 45 mm iki skersinės armatūros krašto. Ugniaatsparumas R120.

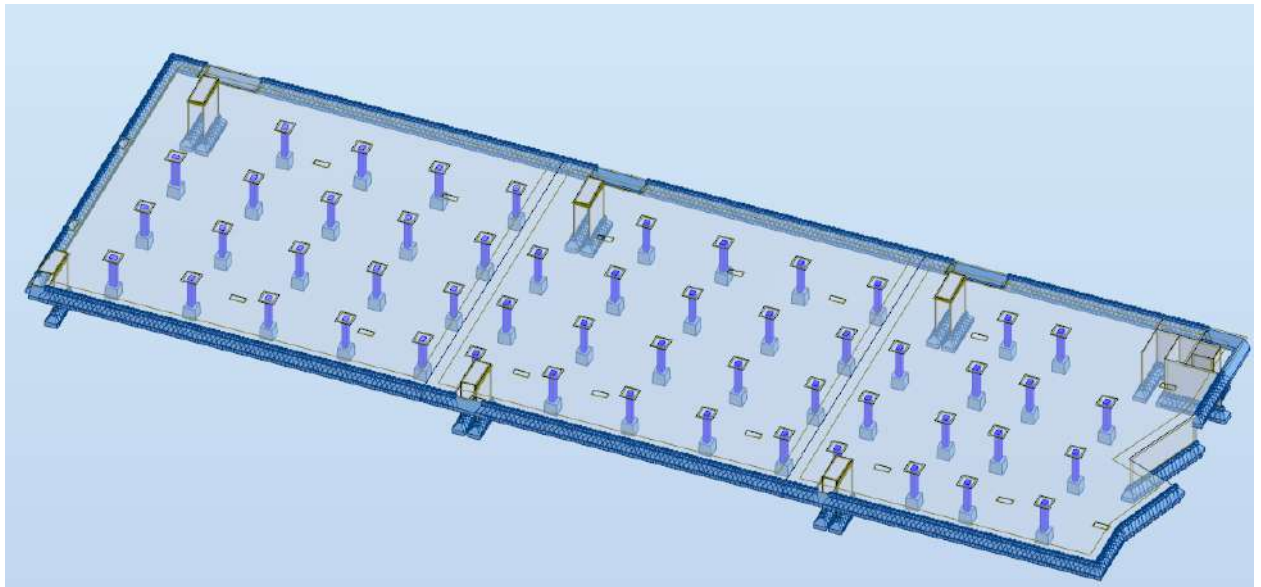
Projektuojamos kolonos skerspjūvis: 500x700mm.

Kolonas projektuojamos montavimo ir eksploataavimo stadijoje. Kolonų atsparumą transportavimo ir kėlimo metu turi įvertinti Gamintojas.

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	41	126	0

Išilginės armatūros kiekis negali būti mažesnis nei nurodyta skaičiavimuose.

Kolonų išdėstymas:



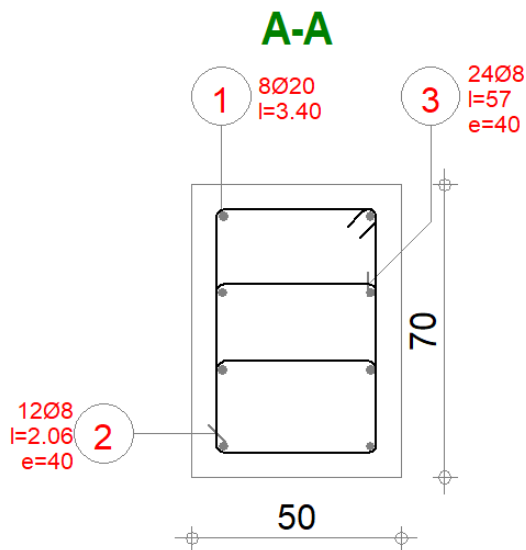
Kolonos geometrinis ilgis: 3,45 m.

Skaičiuojamieji ilgiai:

Member: Kolona	
Buckling with respect to Y axis Member length l_y ☐ at support faces ☒ in axes ☐ real m ☐ coeff. * L_0 Buckling length coefficient Ky: 1.25	Buckling with respect to Z axis Member length l_z ☐ at support faces ☒ in axes ☐ real m ☐ coeff. * L_0 Buckling length coefficient Kz: 1.25

Reikalingas armavimas:

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	42	126	0



Valkšnumo koeficiento ir susitraukimo deformacijų nustatymas su skaičiuokle pagal EN1992-1-1:

Concrete characteristic strength

$f_{ck} = 35$ MPa

Concrete cross-sectional area

$A_c = 0.35$ m²

Part of cross-section perimeter exposed to drying

$u = 2$ m

Age of concrete at loading

$t_0 = 28$ days

Ambient temperature

$T = 20$ °C

Relative humidity of ambient environment

$RH = 80$ %

Cement type

= Class N

Age of concrete at end of curing

$t_s = 7$ days

Final creep coefficient

$\varphi(\infty, t_0) = 1.497$

Final shrinkage strain

$\epsilon_{cs}(\infty, t_s) = 24.93 \times 10^{-5}$

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	43	126	0

Intermediate factors

The following intermediate factors and coefficients are calculated:

- The notional size h_0 of the cross-section is calculated as $h_0 = 2A_c / u = 2 \cdot 0.350 \text{ m}^2 / 2.000 \text{ m} = 350 \text{ mm}$, as specified in EN1992-1-1 §3.1.4(4)
- The coefficient k_1 depending on the notional size h_0 is calculated as a function of h_0 in accordance with EN1992-1-1 Table 3.3. With linear interpolation the following value is obtained: $k_1 = 0.74$
- The coefficients $\alpha_1, \alpha_2, \alpha_3$ that consider the influence of concrete strength are calculated in accordance with EN1992-1-1 equations (B8.c) as follows: $\alpha_1 = (35 \text{ MPa} / f_{cm})^{0.7} = (35 \text{ MPa} / 43 \text{ MPa})^{0.7} = 0.866$, $\alpha_2 = (35 \text{ MPa} / f_{cm})^{0.2} = (35 \text{ MPa} / 43 \text{ MPa})^{0.2} = 0.960$, $\alpha_3 = (35 \text{ MPa} / f_{cm})^{0.5} = (35 \text{ MPa} / 43 \text{ MPa})^{0.5} = 0.902$
- The coefficient α depends on the cement type. For cement type Class N it is specified in EN1992-1-1 §8.1(2) as $\alpha = 0$
- The effect of ambient temperature is taken into account by adjusting the concrete ages t and t_0 in accordance with EN1992-1-1 equation (B.10)
- The effect of cement type is taken into account by adjusting the concrete age at loading t_0 in accordance with EN1992-1-1 equation (B.9)
- The adjusted value of concrete age at loading t_0 by taking into account both contributions of ambient temperature and cement type is $t_0 = 27.947$ days
- The factor φ_{RH} accounts for the effect of relative humidity. It is calculated in accordance with EN1992-1-1 equations (B.3a), (B.3b) as $\varphi_{RH} = 1.195$
- The coefficient $\beta(f_{cm})$ allows for the effect of concrete strength. It is calculated in accordance with EN1992-1-1 equation (B.4) as $\beta(f_{cm}) = 16.8 / f_{cm}^{0.5} = 16.8 / (43 \text{ MPa})^{0.5} = 2.562$
- The coefficient $\beta(t_0)$ allows for the effect of concrete age at loading. It is calculated in accordance with EN1992-1-1 equation (B.5) as $\beta(t_0) = 1 / (0.1 + t_0^{0.2}) = 1 / [0.1 + (27.947 \text{ days})^{0.2}] = 0.489$
- The coefficient β_H depends on the relative humidity RH and the notional member size h_0 . It is calculated in accordance with EN1992-1-1 equations (B.8a), (B.8b) as $\beta_H = 1002.340$

Notional creep coefficient

The notional creep coefficient φ_0 is calculated in accordance with EN1992-1-1 equation (B.2) as the product:

$$\varphi_0 = \varphi_{RH} \cdot \beta(f_{cm}) \cdot \beta(t_0) = 1.195 \cdot 2.562 \cdot 0.489 = 1.497$$

Time-development of creep coefficient

The time-development curve of creep coefficient $\varphi(t, t_0)$ as a function of time t is calculated as the product $\varphi(t, t_0) = \varphi_0 \cdot \beta(t, t_0)$ in accordance with EN1992-1-1 equation (B.1), where the time-development coefficient $\beta(t, t_0)$ is given by EN1992-1-1 equation (B.7) as follows:

$$\beta(t, t_0) = [t \cdot (t - t_0) / (\beta_H + t - t_0)]^{0.3}, \text{ where time } t \text{ is given in days}$$

Final creep coefficient at infinite time

The final creep coefficient $\varphi(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta(t, t_0) = 1.0$ and therefore $\varphi(\infty, t_0) = \varphi_0 = 1.497$.

Therefore the final creep coefficient at infinite time is calculated as $\varphi(\infty, t_0) = 1.497$.

Intermediate factors

In addition to the previous calculations the following intermediate factors and coefficients are calculated:

- The coefficients α_{d1} and α_{d2} depend on the cement type. For cement type Class N they are specified in EN1992-1-1 §8.2(1) as $\alpha_{d1} = 4$ and $\alpha_{d2} = 0.12$
- The factor β_{RH} accounts for the effect of relative humidity in accordance with EN1992-1-1 equation (B.12). It is calculated as $\beta_{RH} = 1.55 \cdot [1 - (RH / 100 \%)^3] = 1.55 \cdot [1 - (80.0 \% / 100 \%)^3] = 0.756$

Basic drying shrinkage strain

The basic drying shrinkage $\epsilon_{cd,0}$ is given in EN1992-1-1 equation (B.11). It is calculated as $\epsilon_{cd,0} = 25.33 \times 10^{-5}$.

Autogenous shrinkage strain

The autogenous shrinkage strain at infinite time $\epsilon_{ca}(\infty)$ is calculated in accordance with EN1992-1-1 equation (3.12) as:

$$\epsilon_{ca}(\infty) = 2.5 \cdot (f_{cm} - 10 \text{ MPa}) \cdot 10^{-6} = 2.5 \cdot (35.00 \text{ MPa} - 10 \text{ MPa}) \cdot 10^{-6} = 6.25 \times 10^{-5}$$

Total shrinkage strain

The total shrinkage strain ϵ_{cs} is composed from the drying shrinkage strain ϵ_{cd} and the autogenous shrinkage strain ϵ_{ca} as specified in EN1992-1-1 equation (3.8):

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

Time-development of shrinkage strain

The time-development curve of the drying shrinkage strain $\epsilon_{cd}(t)$ as a function of time t is calculated as the product $\epsilon_{cd}(t) = \beta_{ds}(t, t_0) \cdot k_1 \cdot \epsilon_{cd,0}$ in accordance with EN1992-1-1 equation (3.9), where the time-development coefficient $\beta_{ds}(t, t_0)$ is given by EN1992-1-1 equation (3.10):

$$\beta_{ds}(t, t_0) = (t - t_0) / [(t - t_0) + 0.04 \cdot h_0^{3/2}]$$

The time-development curve of the autogenous shrinkage strain $\epsilon_{ca}(t)$ as a function of time t is calculated as the product $\epsilon_{ca}(t) = \beta_{as}(t) \cdot \epsilon_{ca}(\infty)$ in accordance with EN1992-1-1 equation (3.11), where the time-development coefficient $\beta_{as}(t)$ is given by EN1992-1-1 equation (3.13):

$$\beta_{as}(t) = 1 - \exp(-0.2 \cdot t^{0.5}), \text{ where time } t \text{ is given in days}$$

Final shrinkage strain at infinite time

The final total shrinkage strain $\epsilon_{cs}(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta_{ds}(t, t_0) = 1.0$ and $\beta_{as}(t) = 1.0$, and therefore:

$$\epsilon_{cs}(\infty, t_0) = k_1 \cdot \epsilon_{cd,0} + \epsilon_{ca}(\infty) = 0.74 \cdot 25.33 \times 10^{-5} + 6.25 \times 10^{-5} = 24.93 \times 10^{-5}$$

Therefore the final total shrinkage strain at infinite time is calculated as $\epsilon_{cs}(\infty, t_0) = 24.93 \times 10^{-5}$.

Skaičiuoklėje gautas valkšnumo koeficientas 1,497.

Skaičiavimo programoje gautas valkšnumo koeficientas 1,50.

1 Level:

- Name :
- Reference level : 0.000 (m)
- Concrete creep coefficient : $\varphi_p = 1.50$
- Cement class : N
- Environment class : XD3
- Structure class : S4

2 Column: Column1..74

Number of identical elements: 53

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	44	126	0

2.1 Material properties:

- Concrete : C35/45 $f_{ck} = 35.00$ (MPa)
- Unit weight : 2501.36 (kG/m³)
- Aggregate size : 20.0 (mm)
- Longitudinal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Ductility class : B
- Transversal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Modified partial coefficients:
 $\alpha_{cc} = 0.9$ 1992-1-1 3.1.6 (1)P

2.2 Geometry:

- 2.2.1 Rectangular 50.0 x 70.0 (cm)
- 2.2.2 Height: L = 3.450 (m)
- 2.2.3 Slab thickness = 0.000 (m)
- 2.2.4 Beam height = 0.000 (m)
- 2.2.5 Cover = 5.5 (cm)

2.3 Calculation options:

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Seismic dispositions : No requirements
- Precast column : yes
- Pre-design : no
- Slenderness taken into account : yes
- Compression : with bending
- Ties : to slab
- Fire resistance class : No requirements

2.4 Calculation results:

Safety factors $R_d/E_d = 1.22 > 1.0$

2.4.1 ULS/ALS Analysis

Design combination: ACC:ACC/2=1*1.00 + 2*0.70 + 3*0.20 + 4*1.00 (C)

Combination type: ALS

Internal forces:

$N_{sd} = 6974.33$ (kN) $M_{sdy} = 117.18$ (kN*m) $M_{sdz} = 44.83$ (kN*m)

Design forces:

Cross-section in the middle of the column

$N = 6974.33$ (kN) $N^*etotz = 162.73$ (kN*m) $N^*etoty = 255.80$ (kN*m)

Eccentricity:

		ez (My/N) (cm)	ey (Mz/N) (cm)
Initial	e0:	1.7	0.6
Imperfection	ei:	0.0	1.1
I order (e0 + ei)	e0Ed:	1.7	1.7
Minimal	eEdmin:	2.3	2.0
Total	eEd:	2.3	3.7

2.4.1.1. Detailed analysis-Direction Y:

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	45	126	0

2.4.1.1.1 Slenderness analysis

Non-sway structure

L (m)	Lo (m)	λ	λ_{lim}	
3.450	4.313	21.34	39.51	Short column

2.4.1.1.2 Buckling analysis

MA = 292.96 (kN*m) MB = -147.88 (kN*m) MC = 117.18 (kN*m)
Case: Cross-section in the middle of the column, Slenderness not taken into account
M0 = max(|M0e|, |M0emin|) = 117.18 (kN*m)
M0e = 0.6*M02+0.4*M01 = 116.62 (kN*m)
M0emin = 0.4*M02 = 117.18 (kN*m)
M01 = min(|MA|, |MB|)
M02 = max(|MA|, |MB|)
| MA | > | MB | $\Rightarrow$ M01 = MB, M02 = MA

ei = 0.0 (cm)
Ma = N*ei = 0.00 (kN*m)
MEdmin = 162.73 (kN*m)
M0Ed = max(MEdmin, M0 + Ma) = 162.73 (kN*m)

2.4.1.2. Detailed analysis-Direction Z:

2.4.1.2.1 Slenderness analysis

Non-sway structure

L (m)	Lo (m)	λ	λ_{lim}	
3.450	4.313	29.88	12.84	Slender column

2.4.1.2.2 Buckling analysis

MA = 111.25 (kN*m) MB = -54.80 (kN*m) MC = 44.83 (kN*m)
Case: Cross-section in the middle of the column, Slenderness taken into account
M0 = max(|M0e|, |M0emin|) = 44.83 (kN*m)
M0e = 0.6*M02+0.4*M01 = 44.83 (kN*m)
M0emin = 0.4*M02 = 44.50 (kN*m)
M01 = min(|MA|, |MB|)
M02 = max(|MA|, |MB|)
| MA | > | MB | $\Rightarrow$ M01 = MB, M02 = MA

ei = $\theta_1 \cdot l_0 / 2 = 1.1$ (cm)
 $\theta_1 = \theta_0 \cdot \alpha_h \cdot \alpha_m = 0.01$
 $\theta_0 = 0.01$
 $\alpha_h = 1.00$
 $\alpha_m = (0.5(1+1/m))^{0.5} = 1.00$
m = 1.00

Method based on nominal stiffness

$$\left[1 + \frac{\beta}{(N_B / N) - 1} \right] = 2.13$$

$\beta = 1.23$

Nb = $(\pi^2 \cdot EJ) / l_0^2 = 14580.23$ (kN)

EJ = Kc*Ecd*Jc+Ks*Es*Js = 27474.060 (kN*m²)

$\phi_{ef} = 2.06$

Jc = 729166.7 (cm⁴)

Js = 7785.4 (cm⁴)

Kc = 0.06 ()

Ks = 1.00 ()

MEdmin = 139.49 (kN*m)

$$M_{Ed} = \max \left\{ M_{Edmin}; \left[1 + \frac{\beta}{(N_B / N) - 1} \right] M_{0Ed} \right\} = 255.80 \text{ (kN*m)}$$

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	46	126	0

2.4.2 Reinforcement:

Real (provided) area
Ratio:

Asr = 25.13 (cm²)
 $\rho = 0.72 \%$

2.5 Reinforcement:

Main bars (B500B):

- 8 $\phi 20$ l = 3.395 (m)

Transversal reinforcement: (B500B):

stirrups: 12 $\phi 8$ l = 2.056 (m)
pins 24 $\phi 8$ l = 0.565 (m)

3 Material survey:

- Concrete volume = 63.998 (m³)
- Formwork = 438.840 (m²)
- Steel B500B
 - Total weight = 4351.04 (kG)
 - Density = 67.99 (kG/m³)
 - Average diameter = 13.0 (mm)
 - Reinforcement survey:

Diameter	Length (m)	Weight (kG)	Number (No.)	Total weight (kG)
8	0.565	0.22	1272	283.59
8	2.056	0.81	636	516.27
20	3.395	8.38	424	3551.19

Governing case			
Load type	ULS		
Description	N (kN)	My (kN·m)	Mz (kN·m)
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2623.25	61.21	-78.70
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2623.25	-61.21	92.28
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2518.39	58.76	148.92
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2518.39	-58.76	75.88
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2518.39	-58.76	-89.05
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2507.43	58.51	-143.78
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2507.43	58.51	-73.99
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	2507.43	-58.51	84.75
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	3154.22	169.78	63.08
ULS/8=1*1.35 + 2*1.30 + 3*0.91 + 8*	3154.22	73.60	77.20

Išvada: laikomoji galia pakankama

1.4. Monolitinių sienų projektavimas

Projektuojamos monolitinės g/b perdangos.

Bortelių virš perdangos betonas: C25/30;

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Laiptinių sienų betonas: C35/45;

Bortelių virš perdangos aplinkos klasė XC2 XF2;

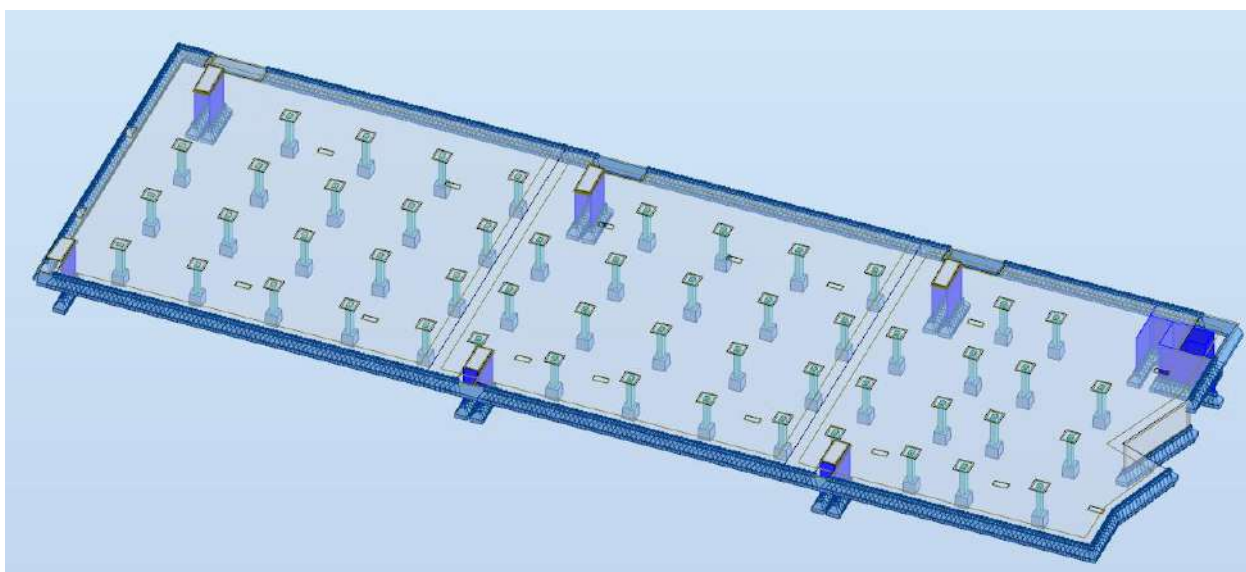
Laiptinių sienų aplinkos klasė XC4 XD3 XF2;

Sienos viršuje su perdanga jungiasi standžiai. Sienos tarpusavyje jungiasi standžiai. Sienos su pamatu jungiasi lanksčiai.

Apsauginis betono sluoksnis: ne mažiau kaip armatūros skersmuo ir ne mažiau nei 45 mm iki pagrindinės armatūros krašto. Ugniaatsparumas R120.

Projektuojamos sienos storis: 220mm.

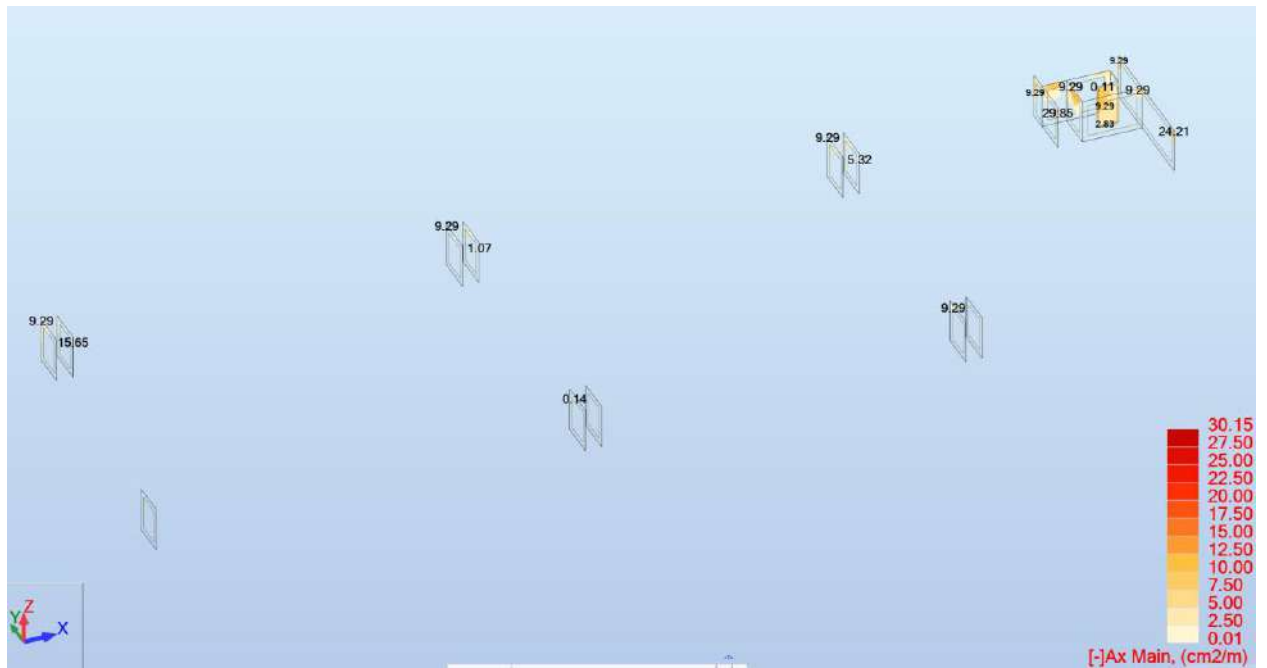
Monolitinių sienų išdėstymas:



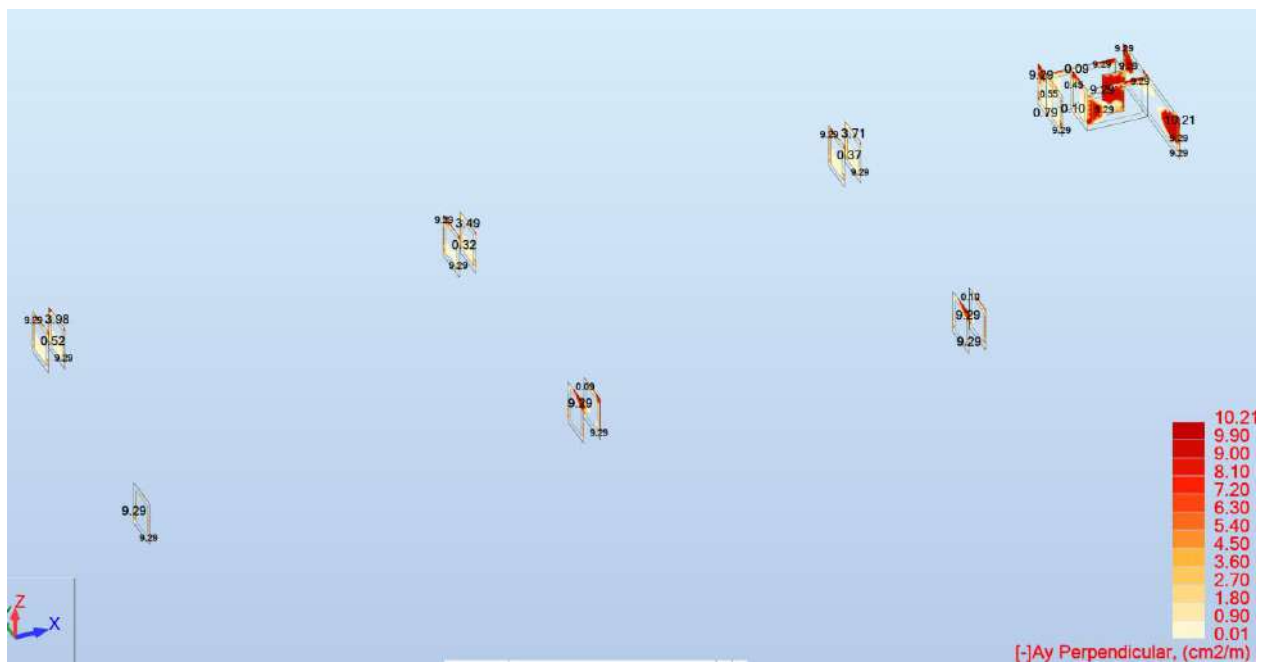
Reikalingas sienų armavimo plotas.

Apatinis armavimas X kryptimi:

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	48	126	0



Apatinis armavimas Y kryptimi:

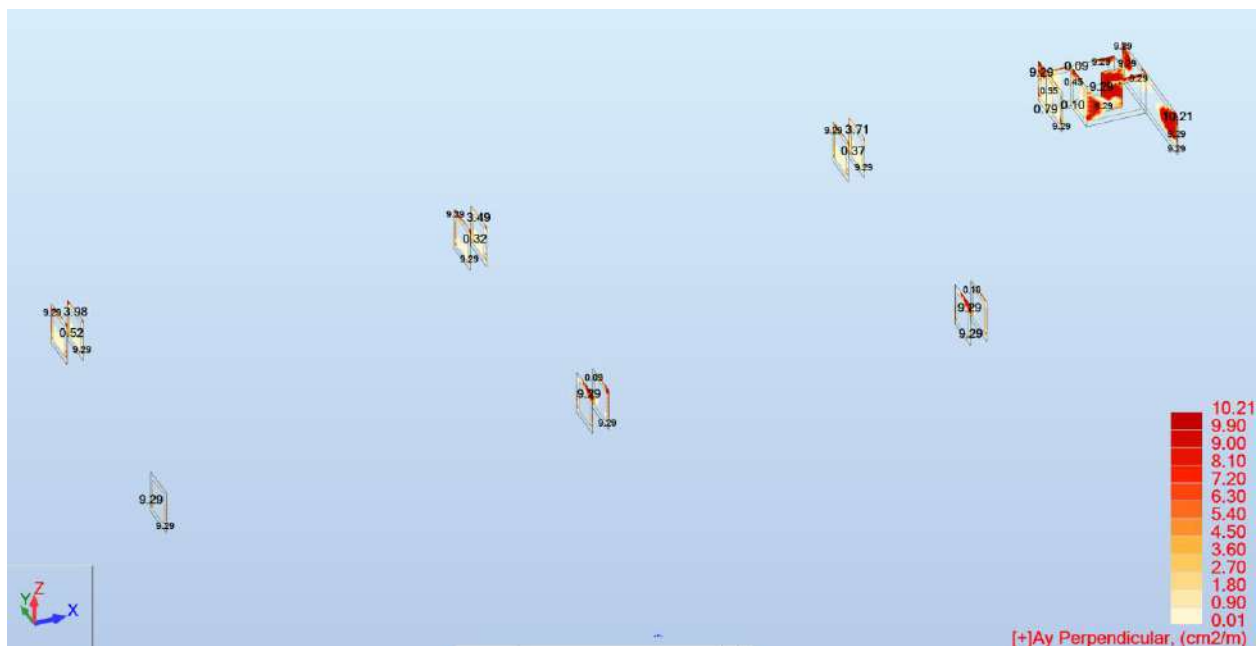


Viršutinis armavimas X kryptimi:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	49	126	0



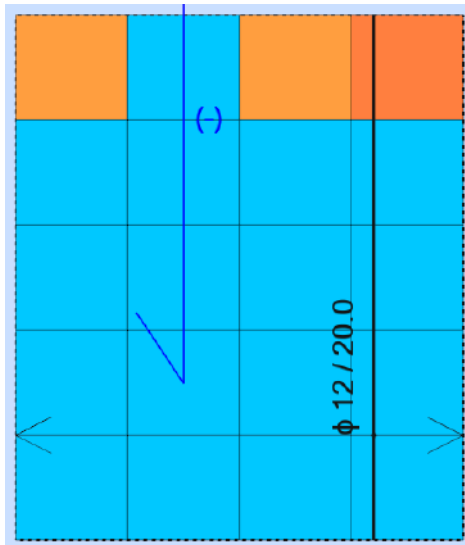
Viršutinis armavimas Y kryptimi:



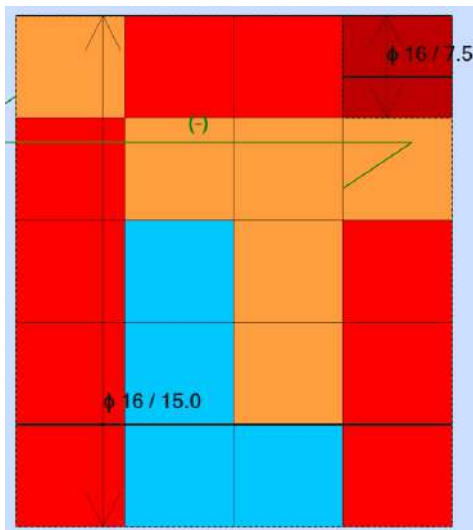
Sienos armavimas su didžiausiu reikalingu armavimo plotu:

Apatinis armavimas X kryptimi:

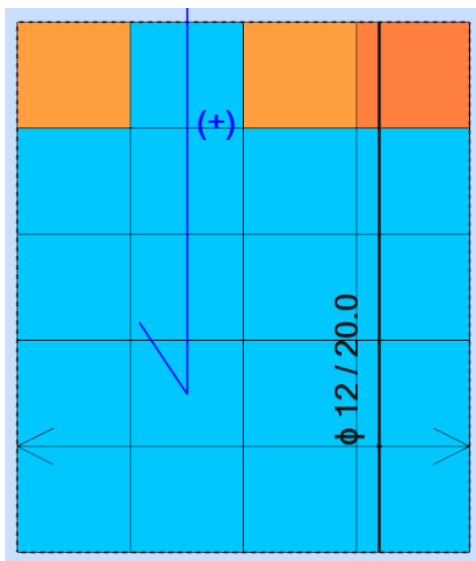
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	50	126	0



Apatinis armavimas Y kryptimi:



Viršutinis armavimas X kryptimi:



$$\varepsilon_{CS}(\infty, t_S) = 27.27 \times 10^{-5}$$

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	52	126	0

Intermediate factors

The following intermediate factors and coefficients are calculated:

- The notional size h_0 of the cross-section is calculated as $h_0 = 2A_c / u = 2 \cdot 0.220 \text{ m}^2 / 2.000 \text{ m} = 220 \text{ mm}$, as specified in EN1992-1-1 §3.1.4(4)
- The coefficient k_1 depending on the notional size h_0 is calculated as a function of h_0 in accordance with EN1992-1-1 Table 3.3. With linear interpolation the following value is obtained: $k_1 = 0.83$
- The coefficients $\alpha_1, \alpha_2, \alpha_3$ that consider the influence of concrete strength are calculated in accordance with EN1992-1-1 equations (B8.c) as follows: $\alpha_1 = (35 \text{ MPa} / f_{cm})^{0.7} = (35 \text{ MPa} / 43 \text{ MPa})^{0.7} = 0.866$, $\alpha_2 = (35 \text{ MPa} / f_{cm})^{0.2} = (35 \text{ MPa} / 43 \text{ MPa})^{0.2} = 0.960$, $\alpha_3 = (35 \text{ MPa} / f_{cm})^{0.5} = (35 \text{ MPa} / 43 \text{ MPa})^{0.5} = 0.902$
- The coefficient α depends on the cement type. For cement type Class N it is specified in EN1992-1-1 §8.1(2) as $\alpha = 0$
- The effect of ambient temperature is taken into account by adjusting the concrete ages t and t_0 in accordance with EN1992-1-1 equation (B.10)
- The effect of cement type is taken into account by adjusting the concrete age at loading t_0 in accordance with EN1992-1-1 equation (B.9)
- The adjusted value of concrete age at loading t_0 by taking into account both contributions of ambient temperature and cement type is $t_0 = 27.947$ days
- The factor φ_{RH} accounts for the effect of relative humidity. It is calculated in accordance with EN1992-1-1 equations (B.3a), (B.3b) as $\varphi_{RH} = 1.235$
- The coefficient $\beta(f_{cm})$ allows for the effect of concrete strength. It is calculated in accordance with EN1992-1-1 equation (B.4) as $\beta(f_{cm}) = 16.8 / f_{cm}^{0.5} = 16.8 / (43 \text{ MPa})^{0.5} = 2.562$
- The coefficient $\beta(t_0)$ allows for the effect of concrete age at loading. It is calculated in accordance with EN1992-1-1 equation (B.5) as $\beta(t_0) = 1 / (0.1 + t_0^{0.2}) = 1 / (0.1 + (27.947 \text{ days})^{0.2}) = 0.489$
- The coefficient β_H depends on the relative humidity RH and the notional member size h_0 . It is calculated in accordance with EN1992-1-1 equations (B.8a), (B.8b) as $\beta_H = 713.818$

Notional creep coefficient

The notional creep coefficient φ_0 is calculated in accordance with EN1992-1-1 equation (B.2) as the product:

$$\varphi_0 = \varphi_{RH} \beta(f_{cm}) \beta(t_0) = 1.235 \cdot 2.562 \cdot 0.489 = 1.546$$

Time-development of creep coefficient

The time-development curve of creep coefficient $\varphi(t, t_0)$ as a function of time t is calculated as the product $\varphi(t, t_0) = \varphi_0 \beta(t, t_0)$ in accordance with EN1992-1-1 equation (B.1), where the time-development coefficient $\beta(t, t_0)$ is given by EN1992-1-1 equation (B.7) as follows:

$$\beta(t, t_0) = [(t - t_0) / (\beta_H + t - t_0)]^{0.3}, \text{ where time } t \text{ is given in days}$$

Final creep coefficient at infinite time

The final creep coefficient $\varphi(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta(t, t_0) = 1.0$ and therefore $\varphi(\infty, t_0) = \varphi_0 = 1.546$.

Therefore the final creep coefficient at infinite time is calculated as $\varphi(\infty, t_0) = 1.546$.

Intermediate factors

In addition to the previous calculations the following intermediate factors and coefficients are calculated:

- The coefficients $\alpha_{d,1}$ and $\alpha_{d,2}$ depend on the cement type. For cement type Class N they are specified in EN1992-1-1 §8.2(1) as $\alpha_{d,1} = 4$ and $\alpha_{d,2} = 0.12$
- The factor β_{RH} accounts for the effect of relative humidity in accordance with EN1992-1-1 equation (B.12). It is calculated as $\beta_{RH} = 1.55[1 - (RH / 100 \%)^3] = 1.55[1 - (80.0 \% / 100 \%)^3] = 0.756$

Basic drying shrinkage strain

The basic drying shrinkage $\epsilon_{cd,0}$ is given in EN1992-1-1 equation (B.11). It is calculated as $\epsilon_{cd,0} = 25.33 \times 10^{-5}$.

Autogenous shrinkage strain

The autogenous shrinkage strain at infinite time $\epsilon_{ca}(\infty)$ is calculated in accordance with EN1992-1-1 equation (3.12) as:

$$\epsilon_{ca}(\infty) = 2.5 \cdot (f_{cm} - 10 \text{ MPa}) \cdot 10^{-6} = 2.5 \cdot (35.00 \text{ MPa} - 10 \text{ MPa}) \cdot 10^{-6} = 6.25 \times 10^{-5}$$

Total shrinkage strain

The total shrinkage strain ϵ_{cs} is composed from the drying shrinkage strain ϵ_{cd} and the autogenous shrinkage strain ϵ_{ca} as specified in EN1992-1-1 equation (3.8):

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

Time-development of shrinkage strain

The time-development curve of the drying shrinkage strain $\epsilon_{cd}(t)$ as a function of time t is calculated as the product $\epsilon_{cd}(t) = \beta_{ds}(t, t_0) \cdot k_1 \cdot \epsilon_{cd,0}$ in accordance with EN1992-1-1 equation (3.9), where the time-development coefficient $\beta_{ds}(t, t_0)$ is given by EN1992-1-1 equation (3.10):

$$\beta_{ds}(t, t_0) = (t - t_0) / [(t - t_0) + 0.04 \cdot h_0^{3/2}]$$

The time-development curve of the autogenous shrinkage strain $\epsilon_{ca}(t)$ as a function of time t is calculated as the product $\epsilon_{ca}(t) = \beta_{as}(t) \cdot \epsilon_{ca}(\infty)$ in accordance with EN1992-1-1 equation (3.11), where the time-development coefficient $\beta_{as}(t)$ is given by EN1992-1-1 equation (3.13):

$$\beta_{as}(t) = 1 - \exp(-0.2 \cdot t^{0.5}), \text{ where time } t \text{ is given in days}$$

Final shrinkage strain at infinite time

The final total shrinkage strain $\epsilon_{cs}(\infty, t_0)$ at infinite time is obtained by setting $t = \infty$ which corresponds to setting $\beta_{ds}(t, t_0) = 1.0$ and $\beta_{as}(t) = 1.0$, and therefore:

$$\epsilon_{cs}(\infty, t_0) = k_1 \cdot \epsilon_{cd,0} + \epsilon_{ca}(\infty) = 0.83 \cdot 25.33 \times 10^{-5} + 6.25 \times 10^{-5} = 27.27 \times 10^{-5}$$

Therefore the final total shrinkage strain at infinite time is calculated as $\epsilon_{cs}(\infty, t_0) = 27.27 \times 10^{-5}$.

Skaičiuoklėje gautas valkšnumo koeficientas 1,546.

Skaičiavimo programoje gautas valkšnumo koeficientas 1,55.

1. Wall: Slab1090 - Panel no. 1090

1.1. Reinforcement:

- Type : siena
- Main reinforcement direction : 0°
- Main reinforcement grade : B500B; Characteristic strength = 500.00 MPa
Horizontal branch of the stress-strain diagram
- Ductility class : B
- Bar diameters : bottom d1 = 1.2 (cm) d2 = 1.2 (cm)
top d1 = 1.2 (cm) d2 = 1.2 (cm)
- Cover : bottom c1 = 4.5 (cm)
top c2 = 4.5 (cm)

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	53	126	0

- Cover deviations $C_{dev} = 1.0(\text{cm})$, $C_{dur} = 0.0(\text{cm})$

1.2. Concrete

- Class : C35/45; Characteristic strength = 35.00 MPa
Rectangular stress distribution [3.1.7(3)]
- Density : 2501.36 (kG/m³)
- Concrete creep coefficient : 1.55
- Cement class : N

1.3. Hypothesis

- Calculations according to : EN 1992-1-1:2004/A1:2014
 - Method of reinforcement area calculations : analytical
 - Allowable cracking width
 - upper layer : 0.30 (mm)
 - lower layer : 0.30 (mm)
 - Verification of punching : no
 - Exposure
 - upper layer : XC4
 - lower layer : XC4
 - Calculation type : compression/tension
 - Structure class : S4
- Modified partial coefficients:
 $a_{cc} = 0.9$ 1992-1-1 3.1.6 (1)P

1.4. Slab geometry

Thickness 0.220 (m)

Contour:

edge	beginning		end		length
	x1	y1	x2	y2	(m)
1	0.000	4.400	3.750	4.400	3.750
2	3.750	4.400	3.750	0.000	4.400
3	3.750	0.000	0.000	0.000	3.750
4	0.000	0.000	0.000	4.400	4.400

Support:

n°	Name	dimensions (m)	coordinates		edge
			x	y	
0	linear	0.500 / 3.750	1.875	4.400	—
* - head present					

1.5. Calculation results:

1.5.1. Maximum forces + reinforcement

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Provided reinforcement (cm ² /m):	5.65	5.65	26.81	26.81
Modified required reinforcement (cm ² /m):	5.34	5.34	25.33	25.33

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Original required reinforcement (cm2/m):	5.34	5.34	25.33	25.33
Coordinates (m):	3.281;4.400 3.750;4.400	3.281;4.400	3.750;4.400	

1.5.2. Maximum forces + reinforcement

	Ax(+)	Ax(-)	Ay(+)	Ay(-)
Symbol: required area/provided area				
Ax(+) (cm2/m)	5.34/5.65	5.34/5.65	5.34/5.65	5.34/5.65
Ax(-) (cm2/m)	5.34/5.65	5.34/5.65	5.34/5.65	5.34/5.65
Ay(+) (cm2/m)	12.10/26.81	12.10/26.81	25.33/26.81	
	25.33/26.81			
Ay(-) (cm2/m)	12.10/26.81	12.10/26.81	25.33/26.81	
	25.33/26.81			
	SLS			
Mxx (kN*m/m)	20.99	20.99	-48.46	-48.46
Myy (kN*m/m)	15.97	15.97	-34.18	-34.18
Mxy (kN*m/m)	-1.06	-1.06	-2.18	-2.18
Nxx (kN/m)	210.30	210.30	447.76	447.76
Nyy (kN/m)	-265.35	-265.35	-612.76	-612.76
Nxy (kN/m)	-175.41	-175.41	-201.20	-201.20
	ULS			
Mxx (kN*m/m)	27.51	27.51	-63.37	-63.37
Myy (kN*m/m)	21.50	21.50	-44.59	-44.59
Mxy (kN*m/m)	-1.46	-1.46	-2.93	-2.93
Nxx (kN/m)	286.90	286.90	619.70	619.70
Nyy (kN/m)	-349.46	-349.46	-816.47	-816.47
Nxy (kN/m)	-230.14	-230.14	-267.03	-267.03
	ULS - accid. comb.			
Mxx (kN*m/m)	10.12	10.12	-23.61	-23.61
Myy (kN*m/m)	-13.58	-13.58	-16.82	-16.82
Mxy (kN*m/m)	1.81	1.81	2.10	2.10
Nxx (kN/m)	-238.58	-238.58	-646.11	-646.11
Nyy (kN/m)	-501.05	-501.05	-1887.85	-1887.85
Nxy (kN/m)	-253.08	-253.08	-533.35	-533.35
Coordinates (m)	3.281;4.400	3.281;4.400	3.750;4.400	
	3.750;4.400			
Coordinates* (m)	1.200;3.781;4.400	1.200;3.781;4.400	1.200;4.250;4.400	
	1.200;4.250;4.400			
	* - Coordinates in the structure global coordinate system			

3. Results - detailing

List of solutions:

Reinforcement: bars

Solution no.

1

Reinforcement range

Diameter / Weight

—

Total weight

(kG)

511.26

Results for the solution no. 1

Reinforcement zones

IN2330-01-TP-SK-S	Lapas	Lapq	Laida
	55	126	0

Bottom reinforcement

Name	coordinates				Provided reinforcement At	
	Ar	x1	y1	x2	y2	φ (mm) / (cm)
	(cm2/m)					(cm2/m)
1/1- Ax Main	3.750	0.000	0.000	4.400	12.0 / 20.0	5.34 <
	5.65					
1/2- Ay Perpendicular	3.750	0.000	0.000	4.400	16.0 / 15.0	12.57 <
	13.40					
1/3-(1/2-) Ay Perpendicular	3.750	3.520	2.813	4.400	16.0 / 7.5	
	25.33 <	26.81				

Top reinforcement

Name	coordinates				Provided reinforcement At	
	Ar	x1	y1	x2	y2	φ (mm) / (cm)
	(cm2/m)					(cm2/m)
1/4+ Ax Main	3.750	0.000	0.000	4.400	12.0 / 20.0	5.34 <
	5.65					
1/5+ Ay Perpendicular	3.750	0.000	0.000	4.400	16.0 / 15.0	12.57 <
	13.40					
1/6+(1/5+) Ay Perpendicular	3.750	3.520	2.813	4.400	16.0 / 7.5	
	25.33 <	26.81				

4. Material survey

- Concrete volume = 3.630 (m3)
- Formwork = 16.500 (m2)
- Slab circumference = 16.300 (m)
- Area of openings = 0.000 (m2)

- Steel B500B
- Total weight = 488.42 (kG)
- Density = 134.55 (kG/m3)
- Average diameter = 14.3 (mm)
- Survey according to diameters:

Diameter	Length (m)	Number of identical elements:
12	4.310	38
16	1.420	4
16	1.645	4
16	3.660	56

Išvada: sienų laikomoji galia pakankama

1.5. Polių sienos projektavimas

Polių sienos sprendinius sprendinius tikslinti Darbo projekte. Pamatų betonai ne žemesnės klasės nei C30/37, W6, XC2. Armatūra S500. Atramines reakcijas į polių sieną nuo perdangos žiūrėti reakcijų plane.

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	56	126	0

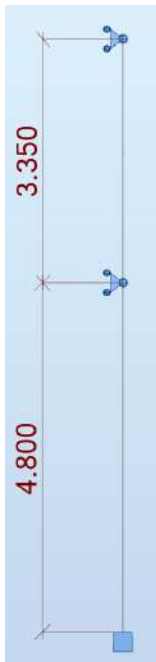
Projektuojami du polių sienos tipai:

- 1- Polių siena prie esamo pastato. Poliaus skersmuo 600mm;
- 2- Kita polių siena. Poliaus skersmuo 500mm.

I tipo polių sienos projektavimas

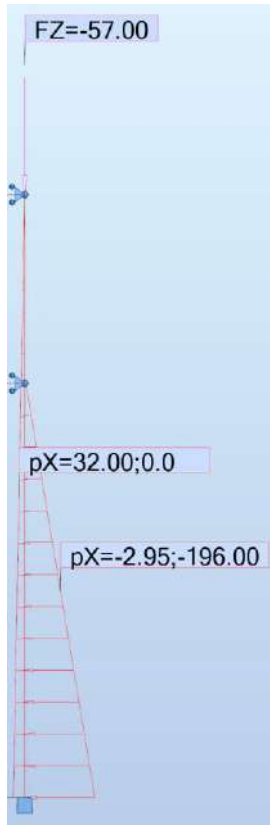
Numatomas polių sienos prie esamo pastato išramstymas iki perdangos sumontavimo. Polių sienos kaip atraminės sienos stabilumas montavimo metu netikrinamas.

Skaičiuojamoji schema eksploataavimo metu. Priimama, kad grindys ant grunto suvaržo polių sienos horizontalius poslinkius:

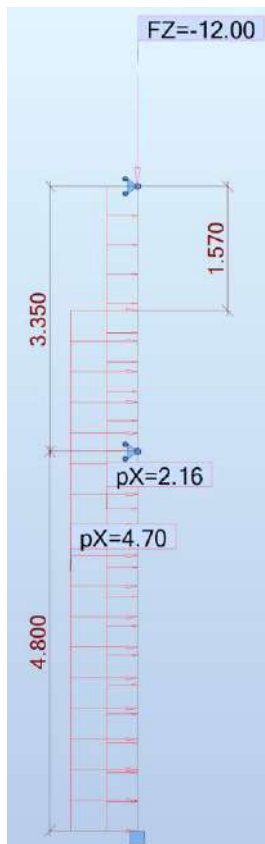


Veikiančios apkrovos. Nuolatinės apkrovos:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	57	126	0

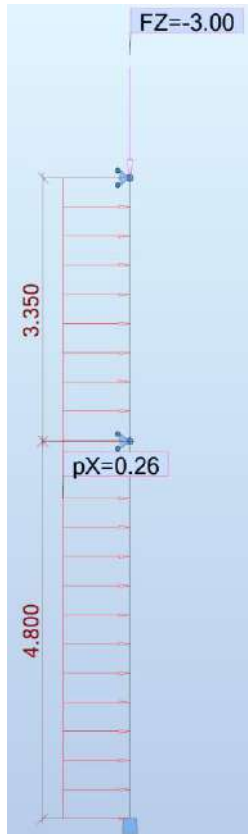


Naudojimo apkrovos:

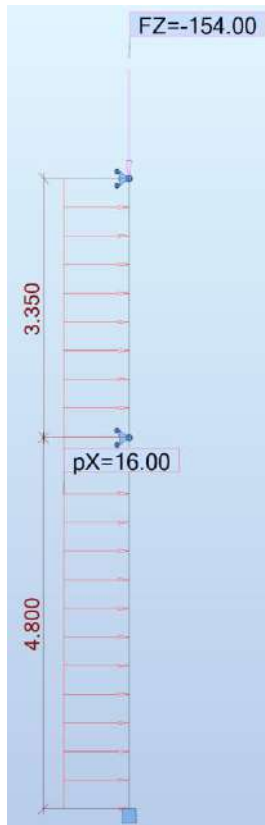


Sniego apkrovos:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	58	126	0

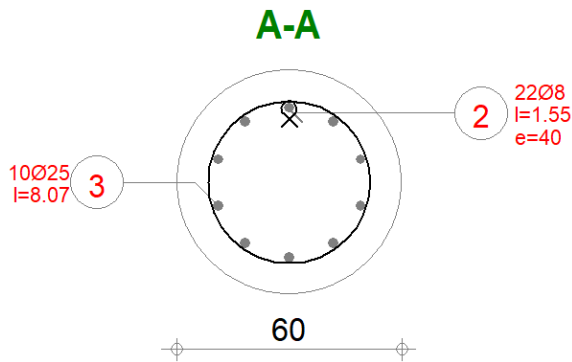


Ypatingojo poveikio apkrovos:



Poliaus reikalingas armavimas:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	59	126	0



1 Level:

- Name :
- Reference level : -0.400 (m)
- Concrete creep coefficient : $\varphi_p = 2.33$
- Cement class : N
- Environment class : XC2
- Structure class : S4

2 Column: Column1

Number of identical elements: 1

2.1 Material properties:

- Concrete : C30/37 $f_{ck} = 30.00$ (MPa)
- Unit weight : 2501.36 (kg/m³)
- Aggregate size : 20.0 (mm)
- Longitudinal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Ductility class : B
- Transversal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Modified partial coefficients: $\alpha_{cc} = 0.9$ 1992-1-1 3.1.6 (1)P

2.2 Geometry:

- 2.2.1 C Diameter = 60.0 (cm)
- 2.2.2 Height: L = 8.150 (m)
- 2.2.3 Slab thickness = 0.000 (m)
- 2.2.4 Beam height = 0.000 (m)
- 2.2.5 Cover = 8.0 (cm)

2.3 Calculation options:

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Seismic dispositions : No requirements
- Precast column : no
- Pre-design : no
- Slenderness taken into account : yes
- Compression : with bending

	Lapas	Lapų	Laida
IN2330-01-TP-SK-S	60	126	0

- Ties : to slab
- Fire resistance class : No requirements

2.4 Calculation results:

Safety factors $Rd/Ed = 1.43 > 1.0$

2.4.1 ULS/ALS Analysis

Design combination: ULS/3=1*1.35 (B)

Combination type: ULS

Internal forces:

$Nsd = 153.26$ (kN) $Msd_y = -284.83$ (kN*m) $Msd_z = 0.00$ (kN*m)

Design forces:

Lower node

$N = 153.26$ (kN) $N^*etotz = -289.21$ (kN*m) $N^*etoty = 3.07$ (kN*m)

Eccentricity:

		e_z (My/N) (cm)	e_y (Mz/N) (cm)
Initial	e_0 :	-185.8	0.0
Imperfection	e_i :	2.9	0.0
1 order ($e_0 + e_i$)	e_{0Ed} :	-183.0	0.0
Minimal	e_{Edmin} :	2.0	2.0
Total	e_{Ed} :	-188.7	2.0

2.4.1.1. Detailed analysis-Direction Y:

2.4.1.1.1 Slenderness analysis

Non-sway structure

L (m)	L_0 (m)	λ	λ_{lim}	
8.150	16.300	108.67	74.67	Slender column

2.4.1.1.2 Buckling analysis

$MA = 0.00$ (kN*m) $MB = -284.83$ (kN*m)

Case: Cross-section at the column end (Lower node), Slenderness not taken into account

$M_0 = -284.83$ (kN*m)

$e_i = \theta_1 * l_0 / 2 = 2.9$ (cm)

$\theta_1 = \theta_0 * \alpha_\eta * \alpha_m = 0.00$

$\theta_0 = 0.01$

$\alpha_h = 0.70$

$\alpha_m = (0.5(1+1/m))^{0.5} = 1.00$

$m = 1.00$

$Ma = N * e_i = 4.38$ (kN*m)

$ME_{dmin} = 3.07$ (kN*m)

$M_{0Ed} = \max(ME_{dmin}, M_0 + Ma) = -289.21$ (kN*m)

2.4.1.2. Detailed analysis-Direction Z:

2.4.1.2.1 Slenderness analysis

Non-sway structure

L (m)	L_0 (m)	λ	λ_{lim}	
8.150	16.300	108.67	74.67	Slender column

2.4.1.2.2 Buckling analysis

$MA = 0.00$ (kN*m) $MB = 0.00$ (kN*m)

Case: Cross-section at the column end (Lower node), Slenderness not taken into account

	Lapas	Lapų	Laida
IN2330-01-TP-SK-S	61	126	0

$$\begin{aligned} M_0 &= 0.00 \text{ (kN*m)} \\ e_i &= 0.0 \text{ (cm)} \\ M_a &= N \cdot e_i = 0.00 \text{ (kN*m)} \\ M_{Edmin} &= 3.07 \text{ (kN*m)} \\ M_{Ed} &= \max(M_{Edmin}, M_0 + M_a) = 3.07 \text{ (kN*m)} \end{aligned}$$

2.4.2 Reinforcement:

$$\begin{aligned} \text{Real (provided) area} & & A_{sr} &= 49.09 \text{ (cm}^2\text{)} \\ \text{Ratio:} & & \rho &= 1.74 \% \end{aligned}$$

2.5 Reinforcement:

Main bars (B500B):

- 10 $\phi 25$ $l = 8.070$ (m)

Transversal reinforcement: (B500B):

$$\text{stirrups: } 22 \phi 8 \quad l = 1.551 \text{ (m)}$$

3 Material survey:

- Concrete volume = 2.304 (m³)
- Formwork = 15.362 (m²)
- Steel B500B
 - Total weight = 324.54 (kG)
 - Density = 140.84 (kG/m³)
 - Average diameter = 19.9 (mm)
 - Reinforcement survey:

Diameter	Length (m)	Weight (kG)	Number (No.)	Total weight (kG)
8	1.551	0.61	22	13.47
25	8.070	31.11	10	311.07

Išvada: poliaus laikomoji galia pakankama

II tipo polių sienos projektavimas

Tikrinimas polių sienos kaip atraminės sienos stabilumas montavimo metu iki grindų sluoksnių įrengimo pradžios:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	62	126	0

Grunto vidinis trinties kampas:

$$\varphi := 30 \quad \text{laipsnių}$$

Grunto svorio tankis:

$$\gamma := 18 \quad \frac{\text{kN}}{\text{m}^3}$$

Igylinimas:

$$d := 3.8 \quad \text{m}$$

Reikiamas atraminės sienutės įgylinimas:

$$d_{\text{fak}} := 1.2 \cdot d = 4.56 \quad \text{m}$$

Iškasos gylis iki grūdų įrengimo pradžios:

$$h := 3.38 \quad \text{m}$$

Skaičiuojamas gylis:

$$z := d + h = 7.18 \quad \text{m}$$

Tolygiai išskirstytą pasyvi naudojimo apkrova:

$$p_p := 0 \quad \text{kPa}$$

Tolygiai išskirstyta aktyvi naudojimo apkrova:

$$p_a := 10 \quad \text{kPa}$$

Grunto sankiba:

$$c := 0$$

Pasyvus grunto slėgis nuo grunto svorio:

$$\sigma_p := \tan \left[\left(45 + \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2 \cdot (\gamma \cdot d) - 2 \cdot c \cdot \sqrt{\tan \left[\left(45 + \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2} = 205.2 \quad \text{kPa}$$

Aktyvus grunto slėgis nuo grunto svorio:

$$\sigma_a := \tan \left[\left(45 - \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2 \cdot (\gamma \cdot z) - 2 \cdot c \cdot \sqrt{\tan \left[\left(45 - \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2} = 43.08 \quad \text{kPa}$$

Pasyvus grunto slėgis nuo naudojimo apkrovos:

$$\sigma_{p1} := \tan \left[\left(45 + \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2 \cdot (p_p) - 2 \cdot c \cdot \sqrt{\tan \left[\left(45 + \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2} = 0$$

Aktyvus grunto slėgis nuo naudojimo apkrovos:

$$\sigma_{a1} := \tan \left[\left(45 - \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2 \cdot (p_a) - 2 \cdot c \cdot \sqrt{\tan \left[\left(45 - \frac{\varphi}{2} \right) \cdot \frac{\pi}{180} \right]^2} = 3.333 \quad \text{kPa}$$

Pasyvus grunto slėgio atstojamoji:

$$E_p := \frac{\sigma_p \cdot d}{2} + \sigma_{p1} \cdot d = 389.88 \quad \text{kN}$$

Aktyvus grunto slėgio atstojamoji:

$$E_a := \frac{\sigma_a \cdot z}{2} + \sigma_{a1} \cdot z = 178.591 \quad \text{kN}$$

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	63	126	0

Momentas nuo pasyvaus slėgio aplink tašką gylįje z:

$$M_p := \frac{\sigma_p \cdot d}{2} \cdot \frac{d}{3} + \sigma_{p1} \cdot d \cdot \frac{d}{2} = 493.848 \quad \text{kNm}$$

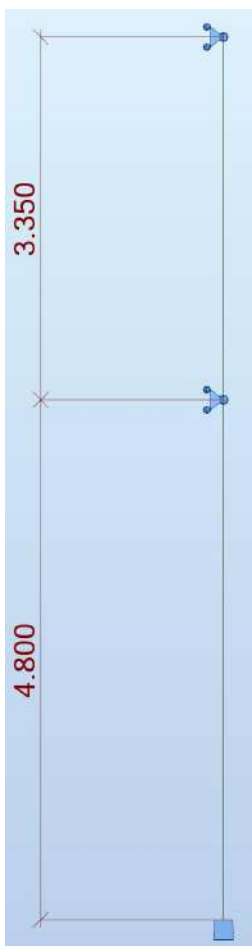
Momentas nuo aktyvaus slėgio aplink tašką gylįje z:

$$M_a := \frac{\sigma_a \cdot z}{2} \cdot \frac{z}{3} + \sigma_{a1} \cdot z \cdot \frac{z}{2} = 456.067 \quad \text{kNm}$$

$$\text{Ats} := \text{if}(M_p \geq M_a, \text{"STABILU"}, \text{"NESTABILU"}) = \text{"STABILU"}$$

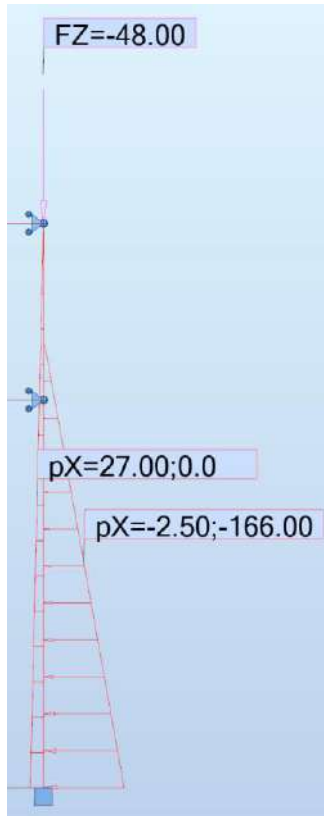
Išvada: polių siena montavimo metu išlieka stabili. Po perdangos įrengimo polių siena suvaržoma viršuje ir horizontaliai nebesideformuoja.

Skaičiuojamoji schema eksploatavimo metu. Priimama, kad grindys ant grunto suvaržo polių sienos horizontalius poslinkius:

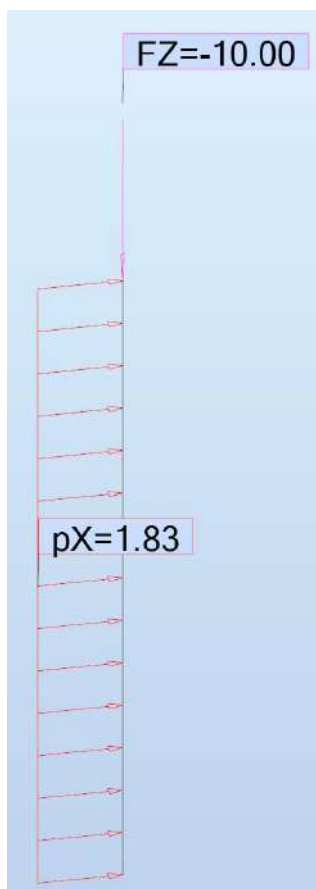


Veikiančios apkrovos. Nuolatinės apkrovos:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	64	126	0

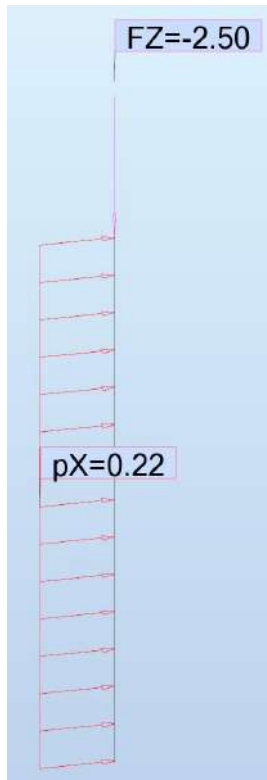


Naudojimo apkrovos:

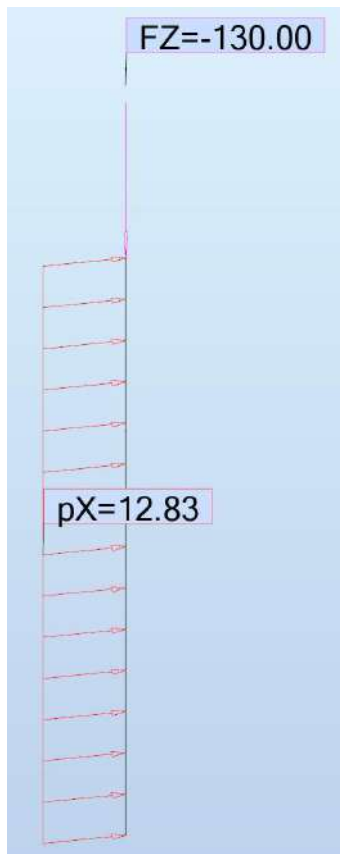


IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	65	126	0

Sniego apkrovos:

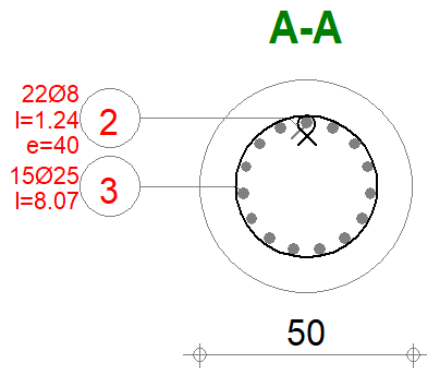


Ypatingojo poveikio apkrovos:



IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	66	126	0

Poliaus reikalingas armavimas:



1 Level:

- Name :
- Reference level : -0.400 (m)
- Concrete creep coefficient : $\varphi_p = 2.39$
- Cement class : N
- Environment class : XC2
- Structure class : S4

2 Column: Column1

Number of identical elements: 1

2.1 Material properties:

- Concrete : C30/37 $f_{ck} = 30.00$ (MPa)
- Unit weight : 2501.36 (kg/m³)
- Aggregate size : 20.0 (mm)
- Longitudinal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Ductility class : B
- Transversal reinforcement: : B500B $f_{yk} = 500.00$ (MPa)
- Modified partial coefficients: $\alpha_{cc} = 0.9$ 1992-1-1 3.1.6 (1)P

2.2 Geometry:

- 2.2.1 C Diameter = 50.0 (cm)
- 2.2.2 Height: L = 8.150 (m)
- 2.2.3 Slab thickness = 0.000 (m)
- 2.2.4 Beam height = 0.000 (m)
- 2.2.5 Cover = 8.0 (cm)

2.3 Calculation options:

- Calculations according to : EN 1992-1-1:2004/A1:2014
- Seismic dispositions : No requirements
- Precast column : no

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	67	126	0

- Pre-design : no
- Slenderness taken into account : yes
- Compression : with bending
- Ties : to slab
- Fire resistance class : No requirements

2.4 Calculation results:

Safety factors $R_d/E_d = 1.28 > 1.0$

2.4.1 ULS/ALS Analysis

Design combination: ULS/3=1*1.35 (B)

Combination type: ULS

Internal forces:

$N_{sd} = 117.79$ (kN) $M_{sdy} = -294.73$ (kN*m) $M_{sdz} = 0.00$ (kN*m)

Design forces:

Lower node

$N = 117.79$ (kN) $N^*etotz = -298.09$ (kN*m) $N^*etoty = 2.36$ (kN*m)

Eccentricity:

		e_z (My/N) (cm)	e_y (Mz/N) (cm)
Initial	e_0 :	-250.2	0.0
Imperfection	e_i :	2.9	0.0
I order ($e_0 + e_i$)	e_{0Ed} :	-247.4	0.0
Minimal	e_{Edmin} :	2.0	2.0
Total	e_{Ed} :	-253.1	2.0

2.4.1.1. Detailed analysis-Direction Y:

2.4.1.1.1 Slenderness analysis

Non-sway structure

L (m)	L_0 (m)	λ	λ_{lim}	
8.150	16.300	130.40	87.01	Slender column

2.4.1.1.2 Buckling analysis

$M_A = 0.00$ (kN*m) $M_B = -294.73$ (kN*m)

Case: Cross-section at the column end (Lower node), Slenderness not taken into account

$M_0 = -294.73$ (kN*m)

$e_i = \theta_1 * l_0 / 2 = 2.9$ (cm)

$\theta_1 = \theta_0 * \alpha_\eta * \alpha_m = 0.00$

$\theta_0 = 0.01$

$\alpha_h = 0.70$

$\alpha_m = (0.5(1+1/m))^{0.5} = 1.00$

$m = 1.00$

$M_a = N * e_i = 3.36$ (kN*m)

$M_{Edmin} = 2.36$ (kN*m)

$M_{0Ed} = \max(M_{Edmin}, M_0 + M_a) = -298.09$ (kN*m)

2.4.1.2. Detailed analysis-Direction Z:

2.4.1.2.1 Slenderness analysis

Non-sway structure

L (m)	L_0 (m)	λ	λ_{lim}	
8.150	16.300	130.40	87.01	Slender column

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	68	126	0

2.4.1.2.2 Buckling analysis

$MA = 0.00 \text{ (kN*m)}$ $MB = 0.00 \text{ (kN*m)}$
 Case: Cross-section at the column end (Lower node), Slenderness not taken into account
 $M_0 = 0.00 \text{ (kN*m)}$
 $ei = 0.0 \text{ (cm)}$
 $Ma = N*ei = 0.00 \text{ (kN*m)}$
 $ME_{min} = 2.36 \text{ (kN*m)}$
 $M_{0Ed} = \max(ME_{min}, M_0 + Ma) = 2.36 \text{ (kN*m)}$

2.4.2 Reinforcement:

Real (provided) area $Asr = 73.63 \text{ (cm}^2\text{)}$
 Ratio: $\rho = 3.75 \%$

2.5 Reinforcement:

Main bars (B500B):

- 15 $\phi 25$ $l = 8.070 \text{ (m)}$

Transversal reinforcement: (B500B):

stirrups: 22 $\phi 8$ $l = 1.237 \text{ (m)}$

3 Material survey:

- Concrete volume = 1.600 (m³)
- Formwork = 12.802 (m²)
- Steel B500B
 - Total weight = 477.35 (kG)
 - Density = 298.30 (kG/m³)
 - Average diameter = 21.9 (mm)
 - Reinforcement survey:

Diameter	Length (m)	Weight (kG)	Number (No.)	Total weight (kG)
8	1.237	0.49	22	10.74
25	8.070	31.11	15	466.61

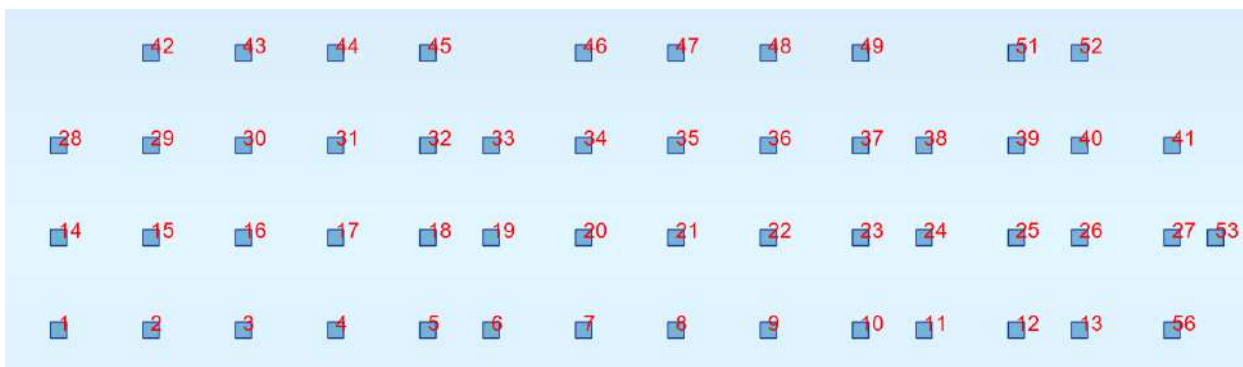
Išvada: poliaus laikomoji galia pakankama

1.6. Pamatų projektavimas

Pamatų sprendinius tikslinti Darbo projekte. Pamatų betonas ne žemesnės klasės nei C25/30, XC2. Armatūra S500. Pamatų atramines reakcijas žiūrėti kartu su atraminių reakcijų planu.

Kolonų atraminių reakcijų taškai:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	69	126	0



Pamatų reakcijos

Reakcijų kryptys pagal globalias koordinacių ašis, pateiktas pamatų išdėstymo schemeje:

Pagal LST EN 1990:2004 STR ir GEO ribiniam būviui apkrovų deriniai sudaromi pagal formulę:

$$\sum_{j \geq 1} \gamma_{G,j} G_{k,j} + \gamma_p P + \gamma_{Q,1} Q_{k,1} + \sum_{i \geq 1} \gamma_{Q,i} \Psi_{0,i} Q_{k,i};$$

Čia “+” reiškia derinimas su; $G_{k,j}$ ir $Q_{k,j}$ yra nuolatinių ir kintamų apkrovų charakteristinės reikšmės, γ_G ir γ_Q yra daliniai nuolatinių ir kintamųjų poveikių koeficientai, kurie atsižvelgia į įrašų skaičiavimo modelių neapibrėžtumus, skaičiuojamosios schemos neapibrėžtumus, galimas perkrovas ir t.t.; $\Psi_{0,i}$ – kintamojo poveikio derintinės reikšmės koeficientas.

Daliniai koeficientai poveikiams (γ_F) ir jų efektams (γ_E):

Poveikis		Žymuo	Apkrovimo grupė	
			A1	A2
Nuolatinis	Nepalankus	γ_G	1,35	1,0
	Palankus		1,0	1,0
Kintamasis	Nepalankus	γ_Q	1,3	1,3
	Palankus		0	0

Pamatų reakcijos po kolonomis A1 deriniui:

Taškas/ kombinacija	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
1/ 5 (C)	32.88>>	15.12	2496.62	-17.38	37.79	-0.08
1/ 10 (C)	20.09<<	9.32	1533.54	-10.72	23.09	-0.05
1/ 5 (C)	32.88	15.12>>	2496.62	-17.38	37.79	-0.08
1/ 10 (C)	20.09	9.32<<	1533.54	-10.72	23.09	-0.05
1/ 5 (C)	32.88	15.12	2496.62>>	-17.38	37.79	-0.08

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	70	126	0



1/ 10 (C)	20.09	9.32	1533.54<<	-10.72	23.09	-0.05
1/ 10 (C)	20.09	9.32	1533.54	-10.72>>	23.09	-0.05
1/ 5 (C)	32.88	15.12	2496.62	-17.38<<	37.79	-0.08
1/ 5 (C)	32.88	15.12	2496.62	-17.38	37.79>>	-0.08
1/ 10 (C)	20.09	9.32	1533.54	-10.72	23.09<<	-0.05
1/ 10 (C)	20.09	9.32	1533.54	-10.72	23.09	-0.05>>
1/ 5 (C)	32.88	15.12	2496.62	-17.38	37.79	-0.08<<
2/ 10 (C)	-3.89>>	5.11	1806.12	-5.88	-4.46	-0.01
2/ 5 (C)	-6.37<<	8.19	2943.18	-9.42	-7.3	-0.02
2/ 5 (C)	-6.37	8.19>>	2943.18	-9.42	-7.3	-0.02
2/ 10 (C)	-3.89	5.11<<	1806.12	-5.88	-4.46	-0.01
2/ 5 (C)	-6.37	8.19	2943.18>>	-9.42	-7.3	-0.02
2/ 10 (C)	-3.89	5.11	1806.12<<	-5.88	-4.46	-0.01
2/ 10 (C)	-3.89	5.11	1806.12	-5.88>>	-4.46	-0.01
2/ 5 (C)	-6.37	8.19	2943.18	-9.42<<	-7.3	-0.02
2/ 10 (C)	-3.89	5.11	1806.12	-5.88	-4.46>>	-0.01
2/ 5 (C)	-6.37	8.19	2943.18	-9.42	-7.30<<	-0.02
2/ 10 (C)	-3.89	5.11	1806.12	-5.88	-4.46	-0.01>>
2/ 5 (C)	-6.37	8.19	2943.18	-9.42	-7.3	-0.02<<
3/ 5 (C)	1.47>>	7.15	2824.87	-8.21	1.71	-0.01
3/ 10 (C)	0.90<<	4.48	1733.81	-5.14	1.04	0
3/ 5 (C)	1.47	7.15>>	2824.87	-8.21	1.71	-0.01
3/ 10 (C)	0.9	4.48<<	1733.81	-5.14	1.04	0
3/ 5 (C)	1.47	7.15	2824.87>>	-8.21	1.71	-0.01
3/ 10 (C)	0.9	4.48	1733.81<<	-5.14	1.04	0
3/ 10 (C)	0.9	4.48	1733.81	-5.14>>	1.04	0
3/ 5 (C)	1.47	7.15	2824.87	-8.21<<	1.71	-0.01
3/ 5 (C)	1.47	7.15	2824.87	-8.21	1.71>>	-0.01
3/ 10 (C)	0.9	4.48	1733.81	-5.14	1.04<<	0
3/ 10 (C)	0.9	4.48	1733.81	-5.14	1.04	-0.00>>
3/ 5 (C)	1.47	7.15	2824.87	-8.21	1.71	-0.01<<
4/ 5 (C)	3.95>>	8.39	2928.08	-9.66	4.55	-0.01
4/ 10 (C)	2.42<<	5.24	1796.86	-6.02	2.78	-0.01
4/ 5 (C)	3.95	8.39>>	2928.08	-9.66	4.55	-0.01
4/ 10 (C)	2.42	5.24<<	1796.86	-6.02	2.78	-0.01
4/ 5 (C)	3.95	8.39	2928.08>>	-9.66	4.55	-0.01
4/ 10 (C)	2.42	5.24	1796.86<<	-6.02	2.78	-0.01
4/ 10 (C)	2.42	5.24	1796.86	-6.02>>	2.78	-0.01
4/ 5 (C)	3.95	8.39	2928.08	-9.66<<	4.55	-0.01
4/ 5 (C)	3.95	8.39	2928.08	-9.66	4.55>>	-0.01
4/ 10 (C)	2.42	5.24	1796.86	-6.02	2.78<<	-0.01
4/ 10 (C)	2.42	5.24	1796.86	-6.02	2.78	-0.01>>
4/ 5 (C)	3.95	8.39	2928.08	-9.66	4.55	-0.01<<
5/ 10 (C)	-19.85>>	7.43	1492.57	-8.58	-22.83	-0.03
5/ 5 (C)	-32.51<<	12.01	2429.52	-13.86	-37.4	-0.04



5/ 5 (C)	-32.51	12.01>>	2429.52	-13.86	-37.4	-0.04
5/ 10 (C)	-19.85	7.43<<	1492.57	-8.58	-22.83	-0.03
5/ 5 (C)	-32.51	12.01	2429.52>>	-13.86	-37.4	-0.04
5/ 10 (C)	-19.85	7.43	1492.57<<	-8.58	-22.83	-0.03
5/ 10 (C)	-19.85	7.43	1492.57	-8.58>>	-22.83	-0.03
5/ 5 (C)	-32.51	12.01	2429.52	-13.86<<	-37.4	-0.04
5/ 10 (C)	-19.85	7.43	1492.57	-8.58	-22.83>>	-0.03
5/ 5 (C)	-32.51	12.01	2429.52	-13.86	-37.40<<	-0.04
5/ 10 (C)	-19.85	7.43	1492.57	-8.58	-22.83	-0.03>>
5/ 5 (C)	-32.51	12.01	2429.52	-13.86	-37.4	-0.04<<
6/ 5 (C)	4.35>>	45.17	1483.23	-51.8	5.01	-0.14
6/ 10 (C)	2.64<<	27.67	914.44	-31.74	3.04	-0.08
6/ 5 (C)	4.35	45.17>>	1483.23	-51.8	5.01	-0.14
6/ 10 (C)	2.64	27.67<<	914.44	-31.74	3.04	-0.08
6/ 5 (C)	4.35	45.17	1483.23>>	-51.8	5.01	-0.14
6/ 10 (C)	2.64	27.67	914.44<<	-31.74	3.04	-0.08
6/ 10 (C)	2.64	27.67	914.44	-31.74>>	3.04	-0.08
6/ 5 (C)	4.35	45.17	1483.23	-51.80<<	5.01	-0.14
6/ 5 (C)	4.35	45.17	1483.23	-51.8	5.01>>	-0.14
6/ 10 (C)	2.64	27.67	914.44	-31.74	3.04<<	-0.08
6/ 10 (C)	2.64	27.67	914.44	-31.74	3.04	-0.08>>
6/ 5 (C)	4.35	45.17	1483.23	-51.8	5.01	-0.14<<
7/ 5 (C)	11.82>>	17.26	2707.08	-19.91	13.82	0
7/ 10 (C)	7.22<<	10.64	1661.97	-12.28	8.44	0
7/ 5 (C)	11.82	17.26>>	2707.08	-19.91	13.82	0
7/ 10 (C)	7.22	10.64<<	1661.97	-12.28	8.44	0
7/ 5 (C)	11.82	17.26	2707.08>>	-19.91	13.82	0
7/ 10 (C)	7.22	10.64	1661.97<<	-12.28	8.44	0
7/ 10 (C)	7.22	10.64	1661.97	-12.28>>	8.44	0
7/ 5 (C)	11.82	17.26	2707.08	-19.91<<	13.82	0
7/ 5 (C)	11.82	17.26	2707.08	-19.91	13.82>>	0
7/ 10 (C)	7.22	10.64	1661.97	-12.28	8.44<<	0
7/ 7 (C)	9.74	14.37	2243.65	-16.58	11.39	0.00>>
7/ 8 (C)	9.3	13.53	2125.39	-15.62	10.87	0.00<<
8/ 10 (C)	-0.46>>	4.77	1753.68	-5.5	-0.47	-0.01
8/ 5 (C)	-0.76<<	7.63	2857.4	-8.8	-0.76	-0.01
8/ 5 (C)	-0.76	7.63>>	2857.4	-8.8	-0.76	-0.01
8/ 10 (C)	-0.46	4.77<<	1753.68	-5.5	-0.47	-0.01
8/ 5 (C)	-0.76	7.63	2857.40>>	-8.8	-0.76	-0.01
8/ 10 (C)	-0.46	4.77	1753.68<<	-5.5	-0.47	-0.01
8/ 10 (C)	-0.46	4.77	1753.68	-5.50>>	-0.47	-0.01
8/ 5 (C)	-0.76	7.63	2857.4	-8.80<<	-0.76	-0.01
8/ 10 (C)	-0.46	4.77	1753.68	-5.5	-0.47>>	-0.01
8/ 5 (C)	-0.76	7.63	2857.4	-8.8	-0.76<<	-0.01
8/ 10 (C)	-0.46	4.77	1753.68	-5.5	-0.47	-0.01>>



8/ 5 (C)	-0.76	7.63	2857.4	-8.8	-0.76	-0.01<<
9/ 5 (C)	5.23>>	8.04	2941.66	-9.27	6.06	-0.03
9/ 10 (C)	3.20<<	5.02	1805.16	-5.79	3.7	-0.02
9/ 5 (C)	5.23	8.04>>	2941.66	-9.27	6.06	-0.03
9/ 10 (C)	3.2	5.02<<	1805.16	-5.79	3.7	-0.02
9/ 5 (C)	5.23	8.04	2941.66>>	-9.27	6.06	-0.03
9/ 10 (C)	3.2	5.02	1805.16<<	-5.79	3.7	-0.02
9/ 10 (C)	3.2	5.02	1805.16	-5.79>>	3.7	-0.02
9/ 5 (C)	5.23	8.04	2941.66	-9.27<<	6.06	-0.03
9/ 5 (C)	5.23	8.04	2941.66	-9.27	6.06>>	-0.03
9/ 10 (C)	3.2	5.02	1805.16	-5.79	3.70<<	-0.02
9/ 10 (C)	3.2	5.02	1805.16	-5.79	3.7	-0.02>>
9/ 5 (C)	5.23	8.04	2941.66	-9.27	6.06	-0.03<<
10/ 10 (C)	-20.09>>	7.62	1476.54	-8.81	-23.1	-0.04
10/ 5 (C)	-32.91<<	12.32	2403.27	-14.24	-37.83	-0.06
10/ 5 (C)	-32.91	12.32>>	2403.27	-14.24	-37.83	-0.06
10/ 10 (C)	-20.09	7.62<<	1476.54	-8.81	-23.1	-0.04
10/ 5 (C)	-32.91	12.32	2403.27>>	-14.24	-37.83	-0.06
10/ 10 (C)	-20.09	7.62	1476.54<<	-8.81	-23.1	-0.04
10/ 10 (C)	-20.09	7.62	1476.54	-8.81>>	-23.1	-0.04
10/ 5 (C)	-32.91	12.32	2403.27	-14.24<<	-37.83	-0.06
10/ 10 (C)	-20.09	7.62	1476.54	-8.81	-23.10>>	-0.04
10/ 5 (C)	-32.91	12.32	2403.27	-14.24	-37.83<<	-0.06
10/ 10 (C)	-20.09	7.62	1476.54	-8.81	-23.1	-0.04>>
10/ 5 (C)	-32.91	12.32	2403.27	-14.24	-37.83	-0.06<<
11/ 5 (C)	7.48>>	47.39	1517.89	-54.37	8.64	-0.27
11/ 10 (C)	4.55<<	29.03	935.62	-33.31	5.26	-0.16
11/ 5 (C)	7.48	47.39>>	1517.89	-54.37	8.64	-0.27
11/ 10 (C)	4.55	29.03<<	935.62	-33.31	5.26	-0.16
11/ 5 (C)	7.48	47.39	1517.89>>	-54.37	8.64	-0.27
11/ 10 (C)	4.55	29.03	935.62<<	-33.31	5.26	-0.16
11/ 10 (C)	4.55	29.03	935.62	-33.31>>	5.26	-0.16
11/ 5 (C)	7.48	47.39	1517.89	-54.37<<	8.64	-0.27
11/ 5 (C)	7.48	47.39	1517.89	-54.37	8.64>>	-0.27
11/ 10 (C)	4.55	29.03	935.62	-33.31	5.26<<	-0.16
11/ 10 (C)	4.55	29.03	935.62	-33.31	5.26	-0.16>>
11/ 5 (C)	7.48	47.39	1517.89	-54.37	8.64	-0.27<<
12/ 10 (C)	-13.61>>	8.99	1349.56	-10.4	-15.47	-0.01
12/ 5 (C)	-22.28<<	14.57	2195.34	-16.85	-25.33	-0.01
12/ 5 (C)	-22.28	14.57>>	2195.34	-16.85	-25.33	-0.01
12/ 10 (C)	-13.61	8.99<<	1349.56	-10.4	-15.47	-0.01
12/ 5 (C)	-22.28	14.57	2195.34>>	-16.85	-25.33	-0.01
12/ 10 (C)	-13.61	8.99	1349.56<<	-10.4	-15.47	-0.01
12/ 10 (C)	-13.61	8.99	1349.56	-10.40>>	-15.47	-0.01
12/ 5 (C)	-22.28	14.57	2195.34	-16.85<<	-25.33	-0.01



12/ 10 (C)	-13.61	8.99	1349.56	-10.4	-15.47>>	-0.01
12/ 5 (C)	-22.28	14.57	2195.34	-16.85	-25.33<<	-0.01
12/ 10 (C)	-13.61	8.99	1349.56	-10.4	-15.47	-0.01>>
12/ 5 (C)	-22.28	14.57	2195.34	-16.85	-25.33	-0.01<<
13/ 5 (C)	31.72>>	6.57	2391.07	-7.63	36.57	-0.02
13/ 10 (C)	19.38<<	4.12	1469.08	-4.78	22.33	-0.01
13/ 5 (C)	31.72	6.57>>	2391.07	-7.63	36.57	-0.02
13/ 10 (C)	19.38	4.12<<	1469.08	-4.78	22.33	-0.01
13/ 5 (C)	31.72	6.57	2391.07>>	-7.63	36.57	-0.02
13/ 10 (C)	19.38	4.12	1469.08<<	-4.78	22.33	-0.01
13/ 10 (C)	19.38	4.12	1469.08	-4.78>>	22.33	-0.01
13/ 5 (C)	31.72	6.57	2391.07	-7.63<<	36.57	-0.02
13/ 5 (C)	31.72	6.57	2391.07	-7.63	36.57>>	-0.02
13/ 10 (C)	19.38	4.12	1469.08	-4.78	22.33<<	-0.01
13/ 10 (C)	19.38	4.12	1469.08	-4.78	22.33	-0.01>>
13/ 5 (C)	31.72	6.57	2391.07	-7.63	36.57	-0.02<<
14/ 5 (C)	21.96>>	-4.45	2743.75	5.06	25.23	0.01
14/ 10 (C)	13.47<<	-2.64	1689.66	2.99	15.48	0.01
14/ 10 (C)	13.47	-2.64>>	1689.66	2.99	15.48	0.01
14/ 5 (C)	21.96	-4.45<<	2743.75	5.06	25.23	0.01
14/ 5 (C)	21.96	-4.45	2743.75>>	5.06	25.23	0.01
14/ 10 (C)	13.47	-2.64	1689.66<<	2.99	15.48	0.01
14/ 5 (C)	21.96	-4.45	2743.75	5.06>>	25.23	0.01
14/ 10 (C)	13.47	-2.64	1689.66	2.99<<	15.48	0.01
14/ 5 (C)	21.96	-4.45	2743.75	5.06	25.23>>	0.01
14/ 10 (C)	13.47	-2.64	1689.66	2.99	15.48<<	0.01
14/ 5 (C)	21.96	-4.45	2743.75	5.06	25.23	0.01>>
14/ 10 (C)	13.47	-2.64	1689.66	2.99	15.48	0.01<<
15/ 10 (C)	-3.41>>	-2.36	1809.92	2.7	-3.9	0.01
15/ 5 (C)	-5.57<<	-4.01	2939.68	4.59	-6.36	0.02
15/ 10 (C)	-3.41	-2.36>>	1809.92	2.7	-3.9	0.01
15/ 5 (C)	-5.57	-4.01<<	2939.68	4.59	-6.36	0.02
15/ 5 (C)	-5.57	-4.01	2939.68>>	4.59	-6.36	0.02
15/ 10 (C)	-3.41	-2.36	1809.92<<	2.7	-3.9	0.01
15/ 5 (C)	-5.57	-4.01	2939.68	4.59>>	-6.36	0.02
15/ 10 (C)	-3.41	-2.36	1809.92	2.70<<	-3.9	0.01
15/ 10 (C)	-3.41	-2.36	1809.92	2.7	-3.90>>	0.01
15/ 5 (C)	-5.57	-4.01	2939.68	4.59	-6.36<<	0.02
15/ 5 (C)	-5.57	-4.01	2939.68	4.59	-6.36	0.02>>
15/ 10 (C)	-3.41	-2.36	1809.92	2.7	-3.9	0.01<<
16/ 5 (C)	0.04>>	-2.79	2850.43	3.22	0.11	0.01
16/ 10 (C)	0.02<<	-1.61	1755.19	1.86	0.07	0
16/ 10 (C)	0.02	-1.61>>	1755.19	1.86	0.07	0
16/ 5 (C)	0.04	-2.79<<	2850.43	3.22	0.11	0.01
16/ 5 (C)	0.04	-2.79	2850.43>>	3.22	0.11	0.01

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16/ 10 (C)	0.02	-1.61	1755.19<<	1.86	0.07	0
16/ 5 (C)	0.04	-2.79	2850.43	3.22>>	0.11	0.01
16/ 10 (C)	0.02	-1.61	1755.19	1.86<<	0.07	0
16/ 5 (C)	0.04	-2.79	2850.43	3.22	0.11>>	0.01
16/ 10 (C)	0.02	-1.61	1755.19	1.86	0.07<<	0
16/ 5 (C)	0.04	-2.79	2850.43	3.22	0.11	0.01>>
16/ 10 (C)	0.02	-1.61	1755.19	1.86	0.07	0.00<<
17/ 5 (C)	7.13>>	-2.96	2978.14	3.38	8.28	-0.01
17/ 10 (C)	4.36<<	-1.72	1833.36	1.96	5.07	-0.01
17/ 10 (C)	4.36	-1.72>>	1833.36	1.96	5.07	-0.01
17/ 5 (C)	7.13	-2.96<<	2978.14	3.38	8.28	-0.01
17/ 5 (C)	7.13	-2.96	2978.14>>	3.38	8.28	-0.01
17/ 10 (C)	4.36	-1.72	1833.36<<	1.96	5.07	-0.01
17/ 5 (C)	7.13	-2.96	2978.14	3.38>>	8.28	-0.01
17/ 10 (C)	4.36	-1.72	1833.36	1.96<<	5.07	-0.01
17/ 5 (C)	7.13	-2.96	2978.14	3.38	8.28>>	-0.01
17/ 10 (C)	4.36	-1.72	1833.36	1.96	5.07<<	-0.01
17/ 10 (C)	4.36	-1.72	1833.36	1.96	5.07	-0.01>>
17/ 5 (C)	7.13	-2.96	2978.14	3.38	8.28	-0.01<<
18/ 10 (C)	-22.98>>	-3.72	1471.26	4.23	-26.32	-0.01
18/ 5 (C)	-37.53<<	-6.23	2386.77	7.08	-42.99	-0.02
18/ 10 (C)	-22.98	-3.72>>	1471.26	4.23	-26.32	-0.01
18/ 5 (C)	-37.53	-6.23<<	2386.77	7.08	-42.99	-0.02
18/ 5 (C)	-37.53	-6.23	2386.77>>	7.08	-42.99	-0.02
18/ 10 (C)	-22.98	-3.72	1471.26<<	4.23	-26.32	-0.01
18/ 5 (C)	-37.53	-6.23	2386.77	7.08>>	-42.99	-0.02
18/ 10 (C)	-22.98	-3.72	1471.26	4.23<<	-26.32	-0.01
18/ 10 (C)	-22.98	-3.72	1471.26	4.23	-26.32>>	-0.01
18/ 5 (C)	-37.53	-6.23	2386.77	7.08	-42.99<<	-0.02
18/ 10 (C)	-22.98	-3.72	1471.26	4.23	-26.32	-0.01>>
18/ 5 (C)	-37.53	-6.23	2386.77	7.08	-42.99	-0.02<<
19/ 5 (C)	37.98>>	-7.61	2408.43	8.67	43.72	-0.04
19/ 10 (C)	23.25<<	-4.56	1484.48	5.19	26.76	-0.03
19/ 10 (C)	23.25	-4.56>>	1484.48	5.19	26.76	-0.03
19/ 5 (C)	37.98	-7.61<<	2408.43	8.67	43.72	-0.04
19/ 5 (C)	37.98	-7.61	2408.43>>	8.67	43.72	-0.04
19/ 10 (C)	23.25	-4.56	1484.48<<	5.19	26.76	-0.03
19/ 5 (C)	37.98	-7.61	2408.43	8.67>>	43.72	-0.04
19/ 10 (C)	23.25	-4.56	1484.48	5.19<<	26.76	-0.03
19/ 5 (C)	37.98	-7.61	2408.43	8.67	43.72>>	-0.04
19/ 10 (C)	23.25	-4.56	1484.48	5.19	26.76<<	-0.03
19/ 10 (C)	23.25	-4.56	1484.48	5.19	26.76	-0.03>>
19/ 5 (C)	37.98	-7.61	2408.43	8.67	43.72	-0.04<<
20/ 10 (C)	-3.78>>	-2.58	1848.7	2.92	-4.28	-0.02
20/ 5 (C)	-6.18<<	-4.39	3003.27	4.95	-6.99	-0.03



20/ 10 (C)	-3.78	-2.58>>	1848.7	2.92	-4.28	-0.02
20/ 5 (C)	-6.18	-4.39<<	3003.27	4.95	-6.99	-0.03
20/ 5 (C)	-6.18	-4.39	3003.27>>	4.95	-6.99	-0.03
20/ 10 (C)	-3.78	-2.58	1848.70<<	2.92	-4.28	-0.02
20/ 5 (C)	-6.18	-4.39	3003.27	4.95>>	-6.99	-0.03
20/ 10 (C)	-3.78	-2.58	1848.7	2.92<<	-4.28	-0.02
20/ 10 (C)	-3.78	-2.58	1848.7	2.92	-4.28>>	-0.02
20/ 5 (C)	-6.18	-4.39	3003.27	4.95	-6.99<<	-0.03
20/ 10 (C)	-3.78	-2.58	1848.7	2.92	-4.28	-0.02>>
20/ 5 (C)	-6.18	-4.39	3003.27	4.95	-6.99	-0.03<<
21/ 10 (C)	-0.42>>	-1.93	1757.19	2.18	-0.41	-0.01
21/ 5 (C)	-0.70<<	-3.3	2853.69	3.74	-0.67	-0.01
21/ 10 (C)	-0.42	-1.93>>	1757.19	2.18	-0.41	-0.01
21/ 5 (C)	-0.7	-3.30<<	2853.69	3.74	-0.67	-0.01
21/ 5 (C)	-0.7	-3.3	2853.69>>	3.74	-0.67	-0.01
21/ 10 (C)	-0.42	-1.93	1757.19<<	2.18	-0.41	-0.01
21/ 5 (C)	-0.7	-3.3	2853.69	3.74>>	-0.67	-0.01
21/ 10 (C)	-0.42	-1.93	1757.19	2.18<<	-0.41	-0.01
21/ 10 (C)	-0.42	-1.93	1757.19	2.18	-0.41>>	-0.01
21/ 5 (C)	-0.7	-3.3	2853.69	3.74	-0.67<<	-0.01
21/ 10 (C)	-0.42	-1.93	1757.19	2.18	-0.41	-0.01>>
21/ 5 (C)	-0.7	-3.3	2853.69	3.74	-0.67	-0.01<<
22/ 5 (C)	7.74>>	-2.89	2976.79	3.26	9.04	-0.02
22/ 10 (C)	4.74<<	-1.67	1832.54	1.89	5.53	-0.01
22/ 10 (C)	4.74	-1.67>>	1832.54	1.89	5.53	-0.01
22/ 5 (C)	7.74	-2.89<<	2976.79	3.26	9.04	-0.02
22/ 5 (C)	7.74	-2.89	2976.79>>	3.26	9.04	-0.02
22/ 10 (C)	4.74	-1.67	1832.54<<	1.89	5.53	-0.01
22/ 5 (C)	7.74	-2.89	2976.79	3.26>>	9.04	-0.02
22/ 10 (C)	4.74	-1.67	1832.54	1.89<<	5.53	-0.01
22/ 5 (C)	7.74	-2.89	2976.79	3.26	9.04>>	-0.02
22/ 10 (C)	4.74	-1.67	1832.54	1.89	5.53<<	-0.01
22/ 10 (C)	4.74	-1.67	1832.54	1.89	5.53	-0.01>>
22/ 5 (C)	7.74	-2.89	2976.79	3.26	9.04	-0.02<<
23/ 10 (C)	-23.79>>	-3.76	1455.68	4.25	-27.21	-0.02
23/ 5 (C)	-38.85<<	-6.3	2361.32	7.13	-44.45	-0.02
23/ 10 (C)	-23.79	-3.76>>	1455.68	4.25	-27.21	-0.02
23/ 5 (C)	-38.85	-6.30<<	2361.32	7.13	-44.45	-0.02
23/ 5 (C)	-38.85	-6.3	2361.32>>	7.13	-44.45	-0.02
23/ 10 (C)	-23.79	-3.76	1455.68<<	4.25	-27.21	-0.02
23/ 5 (C)	-38.85	-6.3	2361.32	7.13>>	-44.45	-0.02
23/ 10 (C)	-23.79	-3.76	1455.68	4.25<<	-27.21	-0.02
23/ 10 (C)	-23.79	-3.76	1455.68	4.25	-27.21>>	-0.02
23/ 5 (C)	-38.85	-6.3	2361.32	7.13	-44.45<<	-0.02
23/ 10 (C)	-23.79	-3.76	1455.68	4.25	-27.21	-0.02>>



23/ 5 (C)	-38.85	-6.3	2361.32	7.13	-44.45	-0.02<<
24/ 5 (C)	45.00>>	-7.35	2516.78	8.31	51.83	-0.04
24/ 10 (C)	27.54<<	-4.4	1550.79	4.97	31.73	-0.03
24/ 10 (C)	27.54	-4.40>>	1550.79	4.97	31.73	-0.03
24/ 5 (C)	45	-7.35<<	2516.78	8.31	51.83	-0.04
24/ 5 (C)	45	-7.35	2516.78>>	8.31	51.83	-0.04
24/ 10 (C)	27.54	-4.4	1550.79<<	4.97	31.73	-0.03
24/ 5 (C)	45	-7.35	2516.78	8.31>>	51.83	-0.04
24/ 10 (C)	27.54	-4.4	1550.79	4.97<<	31.73	-0.03
24/ 5 (C)	45	-7.35	2516.78	8.31	51.83>>	-0.04
24/ 10 (C)	27.54	-4.4	1550.79	4.97	31.73<<	-0.03
24/ 10 (C)	27.54	-4.4	1550.79	4.97	31.73	-0.03>>
24/ 5 (C)	45	-7.35	2516.78	8.31	51.83	-0.04<<
25/ 10 (C)	-27.82>>	-2.18	1519.38	2.41	-31.86	-0.02
25/ 5 (C)	-45.45<<	-3.71	2465.44	4.1	-52.04	-0.04
25/ 10 (C)	-27.82	-2.18>>	1519.38	2.41	-31.86	-0.02
25/ 5 (C)	-45.45	-3.71<<	2465.44	4.1	-52.04	-0.04
25/ 5 (C)	-45.45	-3.71	2465.44>>	4.1	-52.04	-0.04
25/ 10 (C)	-27.82	-2.18	1519.38<<	2.41	-31.86	-0.02
25/ 5 (C)	-45.45	-3.71	2465.44	4.10>>	-52.04	-0.04
25/ 10 (C)	-27.82	-2.18	1519.38	2.41<<	-31.86	-0.02
25/ 10 (C)	-27.82	-2.18	1519.38	2.41	-31.86>>	-0.02
25/ 5 (C)	-45.45	-3.71	2465.44	4.1	-52.04<<	-0.04
25/ 10 (C)	-27.82	-2.18	1519.38	2.41	-31.86	-0.02>>
25/ 5 (C)	-45.45	-3.71	2465.44	4.1	-52.04	-0.04<<
26/ 5 (C)	44.31>>	-3.78	2410.62	4.19	51.03	-0.03
26/ 10 (C)	27.13<<	-2.23	1485.98	2.47	31.25	-0.02
26/ 10 (C)	27.13	-2.23>>	1485.98	2.47	31.25	-0.02
26/ 5 (C)	44.31	-3.78<<	2410.62	4.19	51.03	-0.03
26/ 5 (C)	44.31	-3.78	2410.62>>	4.19	51.03	-0.03
26/ 10 (C)	27.13	-2.23	1485.98<<	2.47	31.25	-0.02
26/ 5 (C)	44.31	-3.78	2410.62	4.19>>	51.03	-0.03
26/ 10 (C)	27.13	-2.23	1485.98	2.47<<	31.25	-0.02
26/ 5 (C)	44.31	-3.78	2410.62	4.19	51.03>>	-0.03
26/ 10 (C)	27.13	-2.23	1485.98	2.47	31.25<<	-0.02
26/ 10 (C)	27.13	-2.23	1485.98	2.47	31.25	-0.02>>
26/ 5 (C)	44.31	-3.78	2410.62	4.19	51.03	-0.03<<
27/ 10 (C)	-29.47>>	-10.3	1382.87	11.75	-33.79	-0.03
27/ 5 (C)	-48.12<<	-16.97	2242.03	19.34	-55.17	-0.05
27/ 10 (C)	-29.47	-10.30>>	1382.87	11.75	-33.79	-0.03
27/ 5 (C)	-48.12	-16.97<<	2242.03	19.34	-55.17	-0.05
27/ 5 (C)	-48.12	-16.97	2242.03>>	19.34	-55.17	-0.05
27/ 10 (C)	-29.47	-10.3	1382.87<<	11.75	-33.79	-0.03
27/ 5 (C)	-48.12	-16.97	2242.03	19.34>>	-55.17	-0.05
27/ 10 (C)	-29.47	-10.3	1382.87	11.75<<	-33.79	-0.03



27/ 10 (C)	-29.47	-10.3	1382.87	11.75	-33.79>>	-0.03
27/ 5 (C)	-48.12	-16.97	2242.03	19.34	-55.17<<	-0.05
27/ 10 (C)	-29.47	-10.3	1382.87	11.75	-33.79	-0.03>>
27/ 5 (C)	-48.12	-16.97	2242.03	19.34	-55.17	-0.05<<
28/ 5 (C)	25.78>>	17.33	2950.75	-20.09	29.67	0.15
28/ 10 (C)	15.80<<	10.47	1815.27	-12.14	18.19	0.09
28/ 5 (C)	25.78	17.33>>	2950.75	-20.09	29.67	0.15
28/ 10 (C)	15.8	10.47<<	1815.27	-12.14	18.19	0.09
28/ 5 (C)	25.78	17.33	2950.75>>	-20.09	29.67	0.15
28/ 10 (C)	15.8	10.47	1815.27<<	-12.14	18.19	0.09
28/ 10 (C)	15.8	10.47	1815.27	-12.14>>	18.19	0.09
28/ 5 (C)	25.78	17.33	2950.75	-20.09<<	29.67	0.15
28/ 5 (C)	25.78	17.33	2950.75	-20.09	29.67>>	0.15
28/ 10 (C)	15.8	10.47	1815.27	-12.14	18.19<<	0.09
28/ 5 (C)	25.78	17.33	2950.75	-20.09	29.67	0.15>>
28/ 10 (C)	15.8	10.47	1815.27	-12.14	18.19	0.09<<
29/ 10 (C)	-5.84>>	5.62	1860.17	-6.44	-6.62	0.04
29/ 5 (C)	-9.55<<	9.38	3023.01	-10.75	-10.83	0.07
29/ 5 (C)	-9.55	9.38>>	3023.01	-10.75	-10.83	0.07
29/ 10 (C)	-5.84	5.62<<	1860.17	-6.44	-6.62	0.04
29/ 5 (C)	-9.55	9.38	3023.01>>	-10.75	-10.83	0.07
29/ 10 (C)	-5.84	5.62	1860.17<<	-6.44	-6.62	0.04
29/ 10 (C)	-5.84	5.62	1860.17	-6.44>>	-6.62	0.04
29/ 5 (C)	-9.55	9.38	3023.01	-10.75<<	-10.83	0.07
29/ 10 (C)	-5.84	5.62	1860.17	-6.44	-6.62>>	0.04
29/ 5 (C)	-9.55	9.38	3023.01	-10.75	-10.83<<	0.07
29/ 5 (C)	-9.55	9.38	3023.01	-10.75	-10.83	0.07>>
29/ 10 (C)	-5.84	5.62	1860.17	-6.44	-6.62	0.04<<
30/ 5 (C)	1.99>>	5.31	2880.14	-6.05	2.43	0.02
30/ 10 (C)	1.22<<	3.14	1772.74	-3.57	1.48	0.01
30/ 5 (C)	1.99	5.31>>	2880.14	-6.05	2.43	0.02
30/ 10 (C)	1.22	3.14<<	1772.74	-3.57	1.48	0.01
30/ 5 (C)	1.99	5.31	2880.14>>	-6.05	2.43	0.02
30/ 10 (C)	1.22	3.14	1772.74<<	-3.57	1.48	0.01
30/ 10 (C)	1.22	3.14	1772.74	-3.57>>	1.48	0.01
30/ 5 (C)	1.99	5.31	2880.14	-6.05<<	2.43	0.02
30/ 5 (C)	1.99	5.31	2880.14	-6.05	2.43>>	0.02
30/ 10 (C)	1.22	3.14	1772.74	-3.57	1.48<<	0.01
30/ 5 (C)	1.99	5.31	2880.14	-6.05	2.43	0.02>>
30/ 10 (C)	1.22	3.14	1772.74	-3.57	1.48	0.01<<
31/ 5 (C)	5.85>>	5.61	3012.84	-6.44	6.84	0
31/ 10 (C)	3.59<<	3.32	1853.95	-3.81	4.19	0
31/ 5 (C)	5.85	5.61>>	3012.84	-6.44	6.84	0
31/ 10 (C)	3.59	3.32<<	1853.95	-3.81	4.19	0
31/ 5 (C)	5.85	5.61	3012.84>>	-6.44	6.84	0

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31/ 10 (C)	3.59	3.32	1853.95<<	-3.81	4.19	0
31/ 10 (C)	3.59	3.32	1853.95	-3.81>>	4.19	0
31/ 5 (C)	5.85	5.61	3012.84	-6.44<<	6.84	0
31/ 5 (C)	5.85	5.61	3012.84	-6.44	6.84>>	0
31/ 10 (C)	3.59	3.32	1853.95	-3.81	4.19<<	0
31/ 10 (C)	3.59	3.32	1853.95	-3.81	4.19	-0.00>>
31/ 5 (C)	5.85	5.61	3012.84	-6.44	6.84	-0.00<<
32/ 10 (C)	-22.02>>	6.06	1497.86	-7.03	-25.2	-0.02
32/ 5 (C)	-35.97<<	10.1	2431.17	-11.7	-41.17	-0.03
32/ 5 (C)	-35.97	10.10>>	2431.17	-11.7	-41.17	-0.03
32/ 10 (C)	-22.02	6.06<<	1497.86	-7.03	-25.2	-0.02
32/ 5 (C)	-35.97	10.1	2431.17>>	-11.7	-41.17	-0.03
32/ 10 (C)	-22.02	6.06	1497.86<<	-7.03	-25.2	-0.02
32/ 10 (C)	-22.02	6.06	1497.86	-7.03>>	-25.2	-0.02
32/ 5 (C)	-35.97	10.1	2431.17	-11.70<<	-41.17	-0.03
32/ 10 (C)	-22.02	6.06	1497.86	-7.03	-25.20>>	-0.02
32/ 5 (C)	-35.97	10.1	2431.17	-11.7	-41.17<<	-0.03
32/ 10 (C)	-22.02	6.06	1497.86	-7.03	-25.2	-0.02>>
32/ 5 (C)	-35.97	10.1	2431.17	-11.7	-41.17	-0.03<<
33/ 5 (C)	36.37>>	12.65	2467.33	-14.75	41.92	-0.04
33/ 10 (C)	22.26<<	7.61	1519.75	-8.87	25.66	-0.02
33/ 5 (C)	36.37	12.65>>	2467.33	-14.75	41.92	-0.04
33/ 10 (C)	22.26	7.61<<	1519.75	-8.87	25.66	-0.02
33/ 5 (C)	36.37	12.65	2467.33>>	-14.75	41.92	-0.04
33/ 10 (C)	22.26	7.61	1519.75<<	-8.87	25.66	-0.02
33/ 10 (C)	22.26	7.61	1519.75	-8.87>>	25.66	-0.02
33/ 5 (C)	36.37	12.65	2467.33	-14.75<<	41.92	-0.04
33/ 5 (C)	36.37	12.65	2467.33	-14.75	41.92>>	-0.04
33/ 10 (C)	22.26	7.61	1519.75	-8.87	25.66<<	-0.02
33/ 10 (C)	22.26	7.61	1519.75	-8.87	25.66	-0.02>>
33/ 5 (C)	36.37	12.65	2467.33	-14.75	41.92	-0.04<<
34/ 10 (C)	-2.83>>	3.65	1855.47	-4.24	-3.17	-0.02
34/ 5 (C)	-4.63<<	6.15	3015.39	-7.15	-5.18	-0.03
34/ 5 (C)	-4.63	6.15>>	3015.39	-7.15	-5.18	-0.03
34/ 10 (C)	-2.83	3.65<<	1855.47	-4.24	-3.17	-0.02
34/ 5 (C)	-4.63	6.15	3015.39>>	-7.15	-5.18	-0.03
34/ 10 (C)	-2.83	3.65	1855.47<<	-4.24	-3.17	-0.02
34/ 10 (C)	-2.83	3.65	1855.47	-4.24>>	-3.17	-0.02
34/ 5 (C)	-4.63	6.15	3015.39	-7.15<<	-5.18	-0.03
34/ 10 (C)	-2.83	3.65	1855.47	-4.24	-3.17>>	-0.02
34/ 5 (C)	-4.63	6.15	3015.39	-7.15	-5.18<<	-0.03
34/ 10 (C)	-2.83	3.65	1855.47	-4.24	-3.17	-0.02>>
34/ 5 (C)	-4.63	6.15	3015.39	-7.15	-5.18	-0.03<<
35/ 10 (C)	-0.71>>	3.74	1783.06	-4.3	-0.72	-0.01
35/ 5 (C)	-1.16<<	6.3	2897.02	-7.24	-1.18	-0.01



35/ 5 (C)	-1.16	6.30>>	2897.02	-7.24	-1.18	-0.01
35/ 10 (C)	-0.71	3.74<<	1783.06	-4.3	-0.72	-0.01
35/ 5 (C)	-1.16	6.3	2897.02>>	-7.24	-1.18	-0.01
35/ 10 (C)	-0.71	3.74	1783.06<<	-4.3	-0.72	-0.01
35/ 10 (C)	-0.71	3.74	1783.06	-4.30>>	-0.72	-0.01
35/ 5 (C)	-1.16	6.3	2897.02	-7.24<<	-1.18	-0.01
35/ 10 (C)	-0.71	3.74	1783.06	-4.3	-0.72>>	-0.01
35/ 5 (C)	-1.16	6.3	2897.02	-7.24	-1.18<<	-0.01
35/ 10 (C)	-0.71	3.74	1783.06	-4.3	-0.72	-0.01>>
35/ 5 (C)	-1.16	6.3	2897.02	-7.24	-1.18	-0.01<<
36/ 5 (C)	7.19>>	5.57	3007.93	-6.43	8.41	-0.01
36/ 10 (C)	4.40<<	3.29	1850.96	-3.8	5.15	0
36/ 5 (C)	7.19	5.57>>	3007.93	-6.43	8.41	-0.01
36/ 10 (C)	4.4	3.29<<	1850.96	-3.8	5.15	0
36/ 5 (C)	7.19	5.57	3007.93>>	-6.43	8.41	-0.01
36/ 10 (C)	4.4	3.29	1850.96<<	-3.8	5.15	0
36/ 10 (C)	4.4	3.29	1850.96	-3.80>>	5.15	0
36/ 5 (C)	7.19	5.57	3007.93	-6.43<<	8.41	-0.01
36/ 5 (C)	7.19	5.57	3007.93	-6.43	8.41>>	-0.01
36/ 10 (C)	4.4	3.29	1850.96	-3.8	5.15<<	0
36/ 10 (C)	4.4	3.29	1850.96	-3.8	5.15	-0.00>>
36/ 5 (C)	7.19	5.57	3007.93	-6.43	8.41	-0.01<<
37/ 10 (C)	-22.80>>	6.15	1479.64	-7.16	-26.06	0
37/ 5 (C)	-37.25<<	10.24	2401.4	-11.91	-42.58	0
37/ 5 (C)	-37.25	10.24>>	2401.4	-11.91	-42.58	0
37/ 10 (C)	-22.8	6.15<<	1479.64	-7.16	-26.06	0
37/ 5 (C)	-37.25	10.24	2401.40>>	-11.91	-42.58	0
37/ 10 (C)	-22.8	6.15	1479.64<<	-7.16	-26.06	0
37/ 10 (C)	-22.8	6.15	1479.64	-7.16>>	-26.06	0
37/ 5 (C)	-37.25	10.24	2401.4	-11.91<<	-42.58	0
37/ 10 (C)	-22.8	6.15	1479.64	-7.16	-26.06>>	0
37/ 5 (C)	-37.25	10.24	2401.4	-11.91	-42.58<<	0
37/ 5 (C)	-37.25	10.24	2401.4	-11.91	-42.58	0.00>>
37/ 10 (C)	-22.8	6.15	1479.64	-7.16	-26.06	0.00<<
38/ 5 (C)	43.67>>	12.53	2575.19	-14.7	50.36	0.01
38/ 10 (C)	26.73<<	7.54	1585.74	-8.85	30.82	0.01
38/ 5 (C)	43.67	12.53>>	2575.19	-14.7	50.36	0.01
38/ 10 (C)	26.73	7.54<<	1585.74	-8.85	30.82	0.01
38/ 5 (C)	43.67	12.53	2575.19>>	-14.7	50.36	0.01
38/ 10 (C)	26.73	7.54	1585.74<<	-8.85	30.82	0.01
38/ 10 (C)	26.73	7.54	1585.74	-8.85>>	30.82	0.01
38/ 5 (C)	43.67	12.53	2575.19	-14.70<<	50.36	0.01
38/ 5 (C)	43.67	12.53	2575.19	-14.7	50.36>>	0.01
38/ 10 (C)	26.73	7.54	1585.74	-8.85	30.82<<	0.01
38/ 5 (C)	43.67	12.53	2575.19	-14.7	50.36	0.01>>

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Lapas	Lapų	Laida
80	126	0



38/ 10 (C)	26.73	7.54	1585.74	-8.85	30.82	0.01<<
39/ 10 (C)	-27.41>>	3.27	1513.26	-3.87	-31.36	-0.01
39/ 5 (C)	-44.79<<	5.53	2456.28	-6.53	-51.24	-0.02
39/ 5 (C)	-44.79	5.53>>	2456.28	-6.53	-51.24	-0.02
39/ 10 (C)	-27.41	3.27<<	1513.26	-3.87	-31.36	-0.01
39/ 5 (C)	-44.79	5.53	2456.28>>	-6.53	-51.24	-0.02
39/ 10 (C)	-27.41	3.27	1513.26<<	-3.87	-31.36	-0.01
39/ 10 (C)	-27.41	3.27	1513.26	-3.87>>	-31.36	-0.01
39/ 5 (C)	-44.79	5.53	2456.28	-6.53<<	-51.24	-0.02
39/ 10 (C)	-27.41	3.27	1513.26	-3.87	-31.36>>	-0.01
39/ 5 (C)	-44.79	5.53	2456.28	-6.53	-51.24<<	-0.02
39/ 10 (C)	-27.41	3.27	1513.26	-3.87	-31.36	-0.01>>
39/ 5 (C)	-44.79	5.53	2456.28	-6.53	-51.24	-0.02<<
40/ 5 (C)	45.95>>	10.04	2475.47	-11.69	53.01	-0.05
40/ 10 (C)	28.12<<	6.03	1524.99	-7.02	32.44	-0.03
40/ 5 (C)	45.95	10.04>>	2475.47	-11.69	53.01	-0.05
40/ 10 (C)	28.12	6.03<<	1524.99	-7.02	32.44	-0.03
40/ 5 (C)	45.95	10.04	2475.47>>	-11.69	53.01	-0.05
40/ 10 (C)	28.12	6.03	1524.99<<	-7.02	32.44	-0.03
40/ 10 (C)	28.12	6.03	1524.99	-7.02>>	32.44	-0.03
40/ 5 (C)	45.95	10.04	2475.47	-11.69<<	53.01	-0.05
40/ 5 (C)	45.95	10.04	2475.47	-11.69	53.01>>	-0.05
40/ 10 (C)	28.12	6.03	1524.99	-7.02	32.44<<	-0.03
40/ 10 (C)	28.12	6.03	1524.99	-7.02	32.44	-0.03>>
40/ 5 (C)	45.95	10.04	2475.47	-11.69	53.01	-0.05<<
41/ 10 (C)	-12.47>>	17.9	1892.08	-20.73	-14.21	-0.05
41/ 5 (C)	-20.35<<	29.44	3076.26	-34.11	-23.18	-0.09
41/ 5 (C)	-20.35	29.44>>	3076.26	-34.11	-23.18	-0.09
41/ 10 (C)	-12.47	17.90<<	1892.08	-20.73	-14.21	-0.05
41/ 5 (C)	-20.35	29.44	3076.26>>	-34.11	-23.18	-0.09
41/ 10 (C)	-12.47	17.9	1892.08<<	-20.73	-14.21	-0.05
41/ 10 (C)	-12.47	17.9	1892.08	-20.73>>	-14.21	-0.05
41/ 5 (C)	-20.35	29.44	3076.26	-34.11<<	-23.18	-0.09
41/ 10 (C)	-12.47	17.9	1892.08	-20.73	-14.21>>	-0.05
41/ 5 (C)	-20.35	29.44	3076.26	-34.11	-23.18<<	-0.09
41/ 10 (C)	-12.47	17.9	1892.08	-20.73	-14.21	-0.05>>
41/ 5 (C)	-20.35	29.44	3076.26	-34.11	-23.18	-0.09<<
42/ 10 (C)	-12.42>>	-17.45	1784.09	20.1	-13.95	0.05
42/ 5 (C)	-20.35<<	-28.45	2907.92	32.76	-22.86	0.09
42/ 10 (C)	-12.42	-17.45>>	1784.09	20.1	-13.95	0.05
42/ 5 (C)	-20.35	-28.45<<	2907.92	32.76	-22.86	0.09
42/ 5 (C)	-20.35	-28.45	2907.92>>	32.76	-22.86	0.09
42/ 10 (C)	-12.42	-17.45	1784.09<<	20.1	-13.95	0.05
42/ 5 (C)	-20.35	-28.45	2907.92	32.76>>	-22.86	0.09
42/ 10 (C)	-12.42	-17.45	1784.09	20.10<<	-13.95	0.05



42/ 10 (C)	-12.42	-17.45	1784.09	20.1	-13.95>>	0.05
42/ 5 (C)	-20.35	-28.45	2907.92	32.76	-22.86<<	0.09
42/ 5 (C)	-20.35	-28.45	2907.92	32.76	-22.86	0.09>>
42/ 10 (C)	-12.42	-17.45	1784.09	20.1	-13.95	0.05<<
43/ 5 (C)	3.50>>	-25.38	2591.21	29.15	4.19	0.05
43/ 10 (C)	2.14<<	-15.58	1590.8	17.89	2.56	0.03
43/ 10 (C)	2.14	-15.58>>	1590.8	17.89	2.56	0.03
43/ 5 (C)	3.5	-25.38<<	2591.21	29.15	4.19	0.05
43/ 5 (C)	3.5	-25.38	2591.21>>	29.15	4.19	0.05
43/ 10 (C)	2.14	-15.58	1590.80<<	17.89	2.56	0.03
43/ 5 (C)	3.5	-25.38	2591.21	29.15>>	4.19	0.05
43/ 10 (C)	2.14	-15.58	1590.8	17.89<<	2.56	0.03
43/ 5 (C)	3.5	-25.38	2591.21	29.15	4.19>>	0.05
43/ 10 (C)	2.14	-15.58	1590.8	17.89	2.56<<	0.03
43/ 5 (C)	3.5	-25.38	2591.21	29.15	4.19	0.05>>
43/ 10 (C)	2.14	-15.58	1590.8	17.89	2.56	0.03<<
44/ 5 (C)	2.49>>	-26.73	2692.84	30.69	2.9	0.01
44/ 10 (C)	1.53<<	-16.4	1652.89	18.83	1.77	0.01
44/ 10 (C)	1.53	-16.40>>	1652.89	18.83	1.77	0.01
44/ 5 (C)	2.49	-26.73<<	2692.84	30.69	2.9	0.01
44/ 5 (C)	2.49	-26.73	2692.84>>	30.69	2.9	0.01
44/ 10 (C)	1.53	-16.4	1652.89<<	18.83	1.77	0.01
44/ 5 (C)	2.49	-26.73	2692.84	30.69>>	2.9	0.01
44/ 10 (C)	1.53	-16.4	1652.89	18.83<<	1.77	0.01
44/ 5 (C)	2.49	-26.73	2692.84	30.69	2.90>>	0.01
44/ 10 (C)	1.53	-16.4	1652.89	18.83	1.77<<	0.01
44/ 5 (C)	2.49	-26.73	2692.84	30.69	2.9	0.01>>
44/ 10 (C)	1.53	-16.4	1652.89	18.83	1.77	0.01<<
45/ 10 (C)	-10.52>>	-16.16	1505.7	18.53	-12.16	-0.01
45/ 5 (C)	-17.21<<	-26.35	2451.99	30.22	-19.88	-0.01
45/ 10 (C)	-10.52	-16.16>>	1505.7	18.53	-12.16	-0.01
45/ 5 (C)	-17.21	-26.35<<	2451.99	30.22	-19.88	-0.01
45/ 5 (C)	-17.21	-26.35	2451.99>>	30.22	-19.88	-0.01
45/ 10 (C)	-10.52	-16.16	1505.70<<	18.53	-12.16	-0.01
45/ 5 (C)	-17.21	-26.35	2451.99	30.22>>	-19.88	-0.01
45/ 10 (C)	-10.52	-16.16	1505.7	18.53<<	-12.16	-0.01
45/ 10 (C)	-10.52	-16.16	1505.7	18.53	-12.16>>	-0.01
45/ 5 (C)	-17.21	-26.35	2451.99	30.22	-19.88<<	-0.01
45/ 10 (C)	-10.52	-16.16	1505.7	18.53	-12.16	-0.01>>
45/ 5 (C)	-17.21	-26.35	2451.99	30.22	-19.88	-0.01<<
46/ 5 (C)	13.50>>	-30.09	2490.6	34.57	16.01	-0.02
46/ 10 (C)	8.25<<	-18.45	1529.35	21.2	9.78	-0.01
46/ 10 (C)	8.25	-18.45>>	1529.35	21.2	9.78	-0.01
46/ 5 (C)	13.5	-30.09<<	2490.6	34.57	16.01	-0.02
46/ 5 (C)	13.5	-30.09	2490.60>>	34.57	16.01	-0.02

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Lapas	Lapų	Laida
82	126	0



46/ 10 (C)	8.25	-18.45	1529.35<<	21.2	9.78	-0.01
46/ 5 (C)	13.5	-30.09	2490.6	34.57>>	16.01	-0.02
46/ 10 (C)	8.25	-18.45	1529.35	21.20<<	9.78	-0.01
46/ 5 (C)	13.5	-30.09	2490.6	34.57	16.01>>	-0.02
46/ 10 (C)	8.25	-18.45	1529.35	21.2	9.78<<	-0.01
46/ 10 (C)	8.25	-18.45	1529.35	21.2	9.78	-0.01>>
46/ 5 (C)	13.5	-30.09	2490.6	34.57	16.01	-0.02<<
47/ 10 (C)	-1.59>>	-15.87	1630.05	18.22	-1.72	0
47/ 5 (C)	-2.60<<	-25.85	2655.5	29.68	-2.81	0.01
47/ 10 (C)	-1.59	-15.87>>	1630.05	18.22	-1.72	0
47/ 5 (C)	-2.6	-25.85<<	2655.5	29.68	-2.81	0.01
47/ 5 (C)	-2.6	-25.85	2655.50>>	29.68	-2.81	0.01
47/ 10 (C)	-1.59	-15.87	1630.05<<	18.22	-1.72	0
47/ 5 (C)	-2.6	-25.85	2655.5	29.68>>	-2.81	0.01
47/ 10 (C)	-1.59	-15.87	1630.05	18.22<<	-1.72	0
47/ 10 (C)	-1.59	-15.87	1630.05	18.22	-1.72>>	0
47/ 5 (C)	-2.6	-25.85	2655.5	29.68	-2.81<<	0.01
47/ 5 (C)	-2.6	-25.85	2655.5	29.68	-2.81	0.01>>
47/ 10 (C)	-1.59	-15.87	1630.05	18.22	-1.72	0.00<<
48/ 5 (C)	3.91>>	-26.58	2682.51	30.51	4.53	0.01
48/ 10 (C)	2.39<<	-16.31	1646.58	18.72	2.77	0.01
48/ 10 (C)	2.39	-16.31>>	1646.58	18.72	2.77	0.01
48/ 5 (C)	3.91	-26.58<<	2682.51	30.51	4.53	0.01
48/ 5 (C)	3.91	-26.58	2682.51>>	30.51	4.53	0.01
48/ 10 (C)	2.39	-16.31	1646.58<<	18.72	2.77	0.01
48/ 5 (C)	3.91	-26.58	2682.51	30.51>>	4.53	0.01
48/ 10 (C)	2.39	-16.31	1646.58	18.72<<	2.77	0.01
48/ 5 (C)	3.91	-26.58	2682.51	30.51	4.53>>	0.01
48/ 10 (C)	2.39	-16.31	1646.58	18.72	2.77<<	0.01
48/ 5 (C)	3.91	-26.58	2682.51	30.51	4.53	0.01>>
48/ 10 (C)	2.39	-16.31	1646.58	18.72	2.77	0.01<<
49/ 10 (C)	-10.71>>	-16.05	1500.29	18.39	-12.38	0.03
49/ 5 (C)	-17.53<<	-26.17	2443.15	29.99	-20.25	0.04
49/ 10 (C)	-10.71	-16.05>>	1500.29	18.39	-12.38	0.03
49/ 5 (C)	-17.53	-26.17<<	2443.15	29.99	-20.25	0.04
49/ 5 (C)	-17.53	-26.17	2443.15>>	29.99	-20.25	0.04
49/ 10 (C)	-10.71	-16.05	1500.29<<	18.39	-12.38	0.03
49/ 5 (C)	-17.53	-26.17	2443.15	29.99>>	-20.25	0.04
49/ 10 (C)	-10.71	-16.05	1500.29	18.39<<	-12.38	0.03
49/ 10 (C)	-10.71	-16.05	1500.29	18.39	-12.38>>	0.03
49/ 5 (C)	-17.53	-26.17	2443.15	29.99	-20.25<<	0.04
49/ 5 (C)	-17.53	-26.17	2443.15	29.99	-20.25	0.04>>
49/ 10 (C)	-10.71	-16.05	1500.29	18.39	-12.38	0.03<<
51/ 10 (C)	-12.21>>	-16.06	1206.11	18.43	-13.66	0
51/ 5 (C)	-20.01<<	-26.19	1960.95	30.06	-22.4	0

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	83	126	0



51/ 10 (C)	-12.21	-16.06>>	1206.11	18.43	-13.66	0
51/ 5 (C)	-20.01	-26.19<<	1960.95	30.06	-22.4	0
51/ 5 (C)	-20.01	-26.19	1960.95>>	30.06	-22.4	0
51/ 10 (C)	-12.21	-16.06	1206.11<<	18.43	-13.66	0
51/ 5 (C)	-20.01	-26.19	1960.95	30.06>>	-22.4	0
51/ 10 (C)	-12.21	-16.06	1206.11	18.43<<	-13.66	0
51/ 10 (C)	-12.21	-16.06	1206.11	18.43	-13.66>>	0
51/ 5 (C)	-20.01	-26.19	1960.95	30.06	-22.40<<	0
51/ 10 (C)	-12.21	-16.06	1206.11	18.43	-13.66	-0.00>>
51/ 5 (C)	-20.01	-26.19	1960.95	30.06	-22.4	-0.00<<
52/ 5 (C)	42.63>>	-26.36	2421.57	30.2	49.28	-0.06
52/ 10 (C)	26.02<<	-16.17	1487.28	18.52	30.08	-0.04
52/ 10 (C)	26.02	-16.17>>	1487.28	18.52	30.08	-0.04
52/ 5 (C)	42.63	-26.36<<	2421.57	30.2	49.28	-0.06
52/ 5 (C)	42.63	-26.36	2421.57>>	30.2	49.28	-0.06
52/ 10 (C)	26.02	-16.17	1487.28<<	18.52	30.08	-0.04
52/ 5 (C)	42.63	-26.36	2421.57	30.20>>	49.28	-0.06
52/ 10 (C)	26.02	-16.17	1487.28	18.52<<	30.08	-0.04
52/ 5 (C)	42.63	-26.36	2421.57	30.2	49.28>>	-0.06
52/ 10 (C)	26.02	-16.17	1487.28	18.52	30.08<<	-0.04
52/ 10 (C)	26.02	-16.17	1487.28	18.52	30.08	-0.04>>
52/ 5 (C)	42.63	-26.36	2421.57	30.2	49.28	-0.06<<
53/ 5 (C)	30.61>>	-37.85	1772.09	43.37	35.21	-0.07
53/ 10 (C)	18.69<<	-23.12	1093.44	26.49	21.5	-0.05
53/ 10 (C)	18.69	-23.12>>	1093.44	26.49	21.5	-0.05
53/ 5 (C)	30.61	-37.85<<	1772.09	43.37	35.21	-0.07
53/ 5 (C)	30.61	-37.85	1772.09>>	43.37	35.21	-0.07
53/ 10 (C)	18.69	-23.12	1093.44<<	26.49	21.5	-0.05
53/ 5 (C)	30.61	-37.85	1772.09	43.37>>	35.21	-0.07
53/ 10 (C)	18.69	-23.12	1093.44	26.49<<	21.5	-0.05
53/ 5 (C)	30.61	-37.85	1772.09	43.37	35.21>>	-0.07
53/ 10 (C)	18.69	-23.12	1093.44	26.49	21.50<<	-0.05
53/ 10 (C)	18.69	-23.12	1093.44	26.49	21.5	-0.05>>
53/ 5 (C)	30.61	-37.85	1772.09	43.37	35.21	-0.07<<
56/ 5 (C)	10.16>>	8.22	3181.04	-9.49	11.7	-0.05
56/ 10 (C)	6.19<<	5.13	1951.32	-5.92	7.13	-0.03
56/ 5 (C)	10.16	8.22>>	3181.04	-9.49	11.7	-0.05
56/ 10 (C)	6.19	5.13<<	1951.32	-5.92	7.13	-0.03
56/ 5 (C)	10.16	8.22	3181.04>>	-9.49	11.7	-0.05
56/ 10 (C)	6.19	5.13	1951.32<<	-5.92	7.13	-0.03
56/ 10 (C)	6.19	5.13	1951.32	-5.92>>	7.13	-0.03
56/ 5 (C)	10.16	8.22	3181.04	-9.49<<	11.7	-0.05
56/ 5 (C)	10.16	8.22	3181.04	-9.49	11.70>>	-0.05
56/ 10 (C)	6.19	5.13	1951.32	-5.92	7.13<<	-0.03
56/ 10 (C)	6.19	5.13	1951.32	-5.92	7.13	-0.03>>



56/ 5 (C)	10.16	8.22	3181.04	-9.49	11.7	-0.05<<
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Pamatų reakcijos po kolonomis A2 deriniui:

Taškas/ kombinacija	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
1/ 24 (C)	25.84>>	11.86	1959.88	-13.63	29.71	-0.06
1/ 26 (C)	20.09<<	9.32	1533.54	-10.72	23.09	-0.05
1/ 24 (C)	25.84	11.86>>	1959.88	-13.63	29.71	-0.06
1/ 26 (C)	20.09	9.32<<	1533.54	-10.72	23.09	-0.05
1/ 24 (C)	25.84	11.86	1959.88>>	-13.63	29.71	-0.06
1/ 26 (C)	20.09	9.32	1533.54<<	-10.72	23.09	-0.05
1/ 26 (C)	20.09	9.32	1533.54	-10.72>>	23.09	-0.05
1/ 24 (C)	25.84	11.86	1959.88	-13.63<<	29.71	-0.06
1/ 24 (C)	25.84	11.86	1959.88	-13.63	29.71>>	-0.06
1/ 26 (C)	20.09	9.32	1533.54	-10.72	23.09<<	-0.05
1/ 26 (C)	20.09	9.32	1533.54	-10.72	23.09	-0.05>>
1/ 24 (C)	25.84	11.86	1959.88	-13.63	29.71	-0.06<<
2/ 26 (C)	-3.89>>	5.11	1806.12	-5.88	-4.46	-0.01
2/ 24 (C)	-5.01<<	6.4	2311.04	-7.36	-5.74	-0.01
2/ 24 (C)	-5.01	6.40>>	2311.04	-7.36	-5.74	-0.01
2/ 26 (C)	-3.89	5.11<<	1806.12	-5.88	-4.46	-0.01
2/ 24 (C)	-5.01	6.4	2311.04>>	-7.36	-5.74	-0.01
2/ 26 (C)	-3.89	5.11	1806.12<<	-5.88	-4.46	-0.01
2/ 26 (C)	-3.89	5.11	1806.12	-5.88>>	-4.46	-0.01
2/ 24 (C)	-5.01	6.4	2311.04	-7.36<<	-5.74	-0.01
2/ 26 (C)	-3.89	5.11	1806.12	-5.88	-4.46>>	-0.01
2/ 24 (C)	-5.01	6.4	2311.04	-7.36	-5.74<<	-0.01
2/ 26 (C)	-3.89	5.11	1806.12	-5.88	-4.46	-0.01>>
2/ 24 (C)	-5.01	6.4	2311.04	-7.36	-5.74	-0.01<<
3/ 24 (C)	1.16>>	5.58	2218.03	-6.41	1.34	-0.01
3/ 26 (C)	0.90<<	4.48	1733.81	-5.14	1.04	0
3/ 24 (C)	1.16	5.58>>	2218.03	-6.41	1.34	-0.01
3/ 26 (C)	0.9	4.48<<	1733.81	-5.14	1.04	0
3/ 24 (C)	1.16	5.58	2218.03>>	-6.41	1.34	-0.01
3/ 26 (C)	0.9	4.48	1733.81<<	-5.14	1.04	0
3/ 26 (C)	0.9	4.48	1733.81	-5.14>>	1.04	0
3/ 24 (C)	1.16	5.58	2218.03	-6.41<<	1.34	-0.01
3/ 24 (C)	1.16	5.58	2218.03	-6.41	1.34>>	-0.01
3/ 26 (C)	0.9	4.48	1733.81	-5.14	1.04<<	0
3/ 26 (C)	0.9	4.48	1733.81	-5.14	1.04	-0.00>>
3/ 24 (C)	1.16	5.58	2218.03	-6.41	1.34	-0.01<<
4/ 24 (C)	3.11>>	6.56	2299.18	-7.55	3.58	-0.01
4/ 26 (C)	2.42<<	5.24	1796.86	-6.02	2.78	-0.01
4/ 24 (C)	3.11	6.56>>	2299.18	-7.55	3.58	-0.01

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4/ 26 (C)	2.42	5.24<<	1796.86	-6.02	2.78	-0.01
4/ 24 (C)	3.11	6.56	2299.18>>	-7.55	3.58	-0.01
4/ 26 (C)	2.42	5.24	1796.86<<	-6.02	2.78	-0.01
4/ 26 (C)	2.42	5.24	1796.86	-6.02>>	2.78	-0.01
4/ 24 (C)	3.11	6.56	2299.18	-7.55<<	3.58	-0.01
4/ 24 (C)	3.11	6.56	2299.18	-7.55	3.58>>	-0.01
4/ 26 (C)	2.42	5.24	1796.86	-6.02	2.78<<	-0.01
4/ 26 (C)	2.42	5.24	1796.86	-6.02	2.78	-0.01>>
4/ 24 (C)	3.11	6.56	2299.18	-7.55	3.58	-0.01<<
5/ 26 (C)	-19.85>>	7.43	1492.57	-8.58	-22.83	-0.03
5/ 24 (C)	-25.56<<	9.41	1907.12	-10.86	-29.41	-0.03
5/ 24 (C)	-25.56	9.41>>	1907.12	-10.86	-29.41	-0.03
5/ 26 (C)	-19.85	7.43<<	1492.57	-8.58	-22.83	-0.03
5/ 24 (C)	-25.56	9.41	1907.12>>	-10.86	-29.41	-0.03
5/ 26 (C)	-19.85	7.43	1492.57<<	-8.58	-22.83	-0.03
5/ 26 (C)	-19.85	7.43	1492.57	-8.58>>	-22.83	-0.03
5/ 24 (C)	-25.56	9.41	1907.12	-10.86<<	-29.41	-0.03
5/ 26 (C)	-19.85	7.43	1492.57	-8.58	-22.83>>	-0.03
5/ 24 (C)	-25.56	9.41	1907.12	-10.86	-29.41<<	-0.03
5/ 26 (C)	-19.85	7.43	1492.57	-8.58	-22.83	-0.03>>
5/ 24 (C)	-25.56	9.41	1907.12	-10.86	-29.41	-0.03<<
6/ 24 (C)	3.42>>	35.48	1163.18	-40.69	3.95	-0.11
6/ 26 (C)	2.64<<	27.67	914.44	-31.74	3.04	-0.08
6/ 24 (C)	3.42	35.48>>	1163.18	-40.69	3.95	-0.11
6/ 26 (C)	2.64	27.67<<	914.44	-31.74	3.04	-0.08
6/ 24 (C)	3.42	35.48	1163.18>>	-40.69	3.95	-0.11
6/ 26 (C)	2.64	27.67	914.44<<	-31.74	3.04	-0.08
6/ 26 (C)	2.64	27.67	914.44	-31.74>>	3.04	-0.08
6/ 24 (C)	3.42	35.48	1163.18	-40.69<<	3.95	-0.11
6/ 24 (C)	3.42	35.48	1163.18	-40.69	3.95>>	-0.11
6/ 26 (C)	2.64	27.67	914.44	-31.74	3.04<<	-0.08
6/ 26 (C)	2.64	27.67	914.44	-31.74	3.04	-0.08>>
6/ 24 (C)	3.42	35.48	1163.18	-40.69	3.95	-0.11<<
7/ 24 (C)	9.30>>	13.53	2125.39	-15.62	10.87	0
7/ 26 (C)	7.22<<	10.64	1661.97	-12.28	8.44	0
7/ 24 (C)	9.3	13.53>>	2125.39	-15.62	10.87	0
7/ 26 (C)	7.22	10.64<<	1661.97	-12.28	8.44	0
7/ 24 (C)	9.3	13.53	2125.39>>	-15.62	10.87	0
7/ 26 (C)	7.22	10.64	1661.97<<	-12.28	8.44	0
7/ 26 (C)	7.22	10.64	1661.97	-12.28>>	8.44	0
7/ 24 (C)	9.3	13.53	2125.39	-15.62<<	10.87	0
7/ 24 (C)	9.3	13.53	2125.39	-15.62	10.87>>	0
7/ 26 (C)	7.22	10.64	1661.97	-12.28	8.44<<	0
7/ 26 (C)	7.22	10.64	1661.97	-12.28	8.44	0.00>>
7/ 24 (C)	9.3	13.53	2125.39	-15.62	10.87	0.00<<



8/ 26 (C)	-0.46>>	4.77	1753.68	-5.5	-0.47	-0.01
8/ 24 (C)	-0.60<<	5.96	2243.61	-6.88	-0.6	-0.01
8/ 24 (C)	-0.6	5.96>>	2243.61	-6.88	-0.6	-0.01
8/ 26 (C)	-0.46	4.77<<	1753.68	-5.5	-0.47	-0.01
8/ 24 (C)	-0.6	5.96	2243.61>>	-6.88	-0.6	-0.01
8/ 26 (C)	-0.46	4.77	1753.68<<	-5.5	-0.47	-0.01
8/ 26 (C)	-0.46	4.77	1753.68	-5.50>>	-0.47	-0.01
8/ 24 (C)	-0.6	5.96	2243.61	-6.88<<	-0.6	-0.01
8/ 26 (C)	-0.46	4.77	1753.68	-5.5	-0.47>>	-0.01
8/ 24 (C)	-0.6	5.96	2243.61	-6.88	-0.60<<	-0.01
8/ 26 (C)	-0.46	4.77	1753.68	-5.5	-0.47	-0.01>>
8/ 24 (C)	-0.6	5.96	2243.61	-6.88	-0.6	-0.01<<
9/ 24 (C)	4.12>>	6.28	2309.86	-7.24	4.77	-0.02
9/ 26 (C)	3.20<<	5.02	1805.16	-5.79	3.7	-0.02
9/ 24 (C)	4.12	6.28>>	2309.86	-7.24	4.77	-0.02
9/ 26 (C)	3.2	5.02<<	1805.16	-5.79	3.7	-0.02
9/ 24 (C)	4.12	6.28	2309.86>>	-7.24	4.77	-0.02
9/ 26 (C)	3.2	5.02	1805.16<<	-5.79	3.7	-0.02
9/ 26 (C)	3.2	5.02	1805.16	-5.79>>	3.7	-0.02
9/ 24 (C)	4.12	6.28	2309.86	-7.24<<	4.77	-0.02
9/ 24 (C)	4.12	6.28	2309.86	-7.24	4.77>>	-0.02
9/ 26 (C)	3.2	5.02	1805.16	-5.79	3.70<<	-0.02
9/ 26 (C)	3.2	5.02	1805.16	-5.79	3.7	-0.02>>
9/ 24 (C)	4.12	6.28	2309.86	-7.24	4.77	-0.02<<
10/ 26 (C)	-20.09>>	7.62	1476.54	-8.81	-23.1	-0.04
10/ 24 (C)	-25.88<<	9.65	1886.48	-11.16	-29.75	-0.05
10/ 24 (C)	-25.88	9.65>>	1886.48	-11.16	-29.75	-0.05
10/ 26 (C)	-20.09	7.62<<	1476.54	-8.81	-23.1	-0.04
10/ 24 (C)	-25.88	9.65	1886.48>>	-11.16	-29.75	-0.05
10/ 26 (C)	-20.09	7.62	1476.54<<	-8.81	-23.1	-0.04
10/ 26 (C)	-20.09	7.62	1476.54	-8.81>>	-23.1	-0.04
10/ 24 (C)	-25.88	9.65	1886.48	-11.16<<	-29.75	-0.05
10/ 26 (C)	-20.09	7.62	1476.54	-8.81	-23.10>>	-0.04
10/ 24 (C)	-25.88	9.65	1886.48	-11.16	-29.75<<	-0.05
10/ 26 (C)	-20.09	7.62	1476.54	-8.81	-23.1	-0.04>>
10/ 24 (C)	-25.88	9.65	1886.48	-11.16	-29.75	-0.05<<
11/ 24 (C)	5.89>>	37.23	1190.42	-42.71	6.8	-0.21
11/ 26 (C)	4.55<<	29.03	935.62	-33.31	5.26	-0.16
11/ 24 (C)	5.89	37.23>>	1190.42	-42.71	6.8	-0.21
11/ 26 (C)	4.55	29.03<<	935.62	-33.31	5.26	-0.16
11/ 24 (C)	5.89	37.23	1190.42>>	-42.71	6.8	-0.21
11/ 26 (C)	4.55	29.03	935.62<<	-33.31	5.26	-0.16
11/ 26 (C)	4.55	29.03	935.62	-33.31>>	5.26	-0.16
11/ 24 (C)	5.89	37.23	1190.42	-42.71<<	6.8	-0.21
11/ 24 (C)	5.89	37.23	1190.42	-42.71	6.80>>	-0.21

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11/ 26 (C)	4.55	29.03	935.62	-33.31	5.26<<	-0.16
11/ 26 (C)	4.55	29.03	935.62	-33.31	5.26	-0.16>>
11/ 24 (C)	5.89	37.23	1190.42	-42.71	6.8	-0.21<<
12/ 26 (C)	-13.61>>	8.99	1349.56	-10.4	-15.47	-0.01
12/ 24 (C)	-17.52<<	11.42	1722.99	-13.21	-19.91	-0.01
12/ 24 (C)	-17.52	11.42>>	1722.99	-13.21	-19.91	-0.01
12/ 26 (C)	-13.61	8.99<<	1349.56	-10.4	-15.47	-0.01
12/ 24 (C)	-17.52	11.42	1722.99>>	-13.21	-19.91	-0.01
12/ 26 (C)	-13.61	8.99	1349.56<<	-10.4	-15.47	-0.01
12/ 26 (C)	-13.61	8.99	1349.56	-10.40>>	-15.47	-0.01
12/ 24 (C)	-17.52	11.42	1722.99	-13.21<<	-19.91	-0.01
12/ 26 (C)	-13.61	8.99	1349.56	-10.4	-15.47>>	-0.01
12/ 24 (C)	-17.52	11.42	1722.99	-13.21	-19.91<<	-0.01
12/ 26 (C)	-13.61	8.99	1349.56	-10.4	-15.47	-0.01>>
12/ 24 (C)	-17.52	11.42	1722.99	-13.21	-19.91	-0.01<<
13/ 24 (C)	24.94>>	5.13	1876.89	-5.96	28.75	-0.02
13/ 26 (C)	19.38<<	4.12	1469.08	-4.78	22.33	-0.01
13/ 24 (C)	24.94	5.13>>	1876.89	-5.96	28.75	-0.02
13/ 26 (C)	19.38	4.12<<	1469.08	-4.78	22.33	-0.01
13/ 24 (C)	24.94	5.13	1876.89>>	-5.96	28.75	-0.02
13/ 26 (C)	19.38	4.12	1469.08<<	-4.78	22.33	-0.01
13/ 26 (C)	19.38	4.12	1469.08	-4.78>>	22.33	-0.01
13/ 24 (C)	24.94	5.13	1876.89	-5.96<<	28.75	-0.02
13/ 24 (C)	24.94	5.13	1876.89	-5.96	28.75>>	-0.02
13/ 26 (C)	19.38	4.12	1469.08	-4.78	22.33<<	-0.01
13/ 26 (C)	19.38	4.12	1469.08	-4.78	22.33	-0.01>>
13/ 24 (C)	24.94	5.13	1876.89	-5.96	28.75	-0.02<<
14/ 24 (C)	17.25>>	-3.53	2152.37	4.01	19.81	0.01
14/ 26 (C)	13.47<<	-2.64	1689.66	2.99	15.48	0.01
14/ 26 (C)	13.47	-2.64>>	1689.66	2.99	15.48	0.01
14/ 24 (C)	17.25	-3.53<<	2152.37	4.01	19.81	0.01
14/ 24 (C)	17.25	-3.53	2152.37>>	4.01	19.81	0.01
14/ 26 (C)	13.47	-2.64	1689.66<<	2.99	15.48	0.01
14/ 24 (C)	17.25	-3.53	2152.37	4.01>>	19.81	0.01
14/ 26 (C)	13.47	-2.64	1689.66	2.99<<	15.48	0.01
14/ 24 (C)	17.25	-3.53	2152.37	4.01	19.81>>	0.01
14/ 26 (C)	13.47	-2.64	1689.66	2.99	15.48<<	0.01
14/ 24 (C)	17.25	-3.53	2152.37	4.01	19.81	0.01>>
14/ 26 (C)	13.47	-2.64	1689.66	2.99	15.48	0.01<<
15/ 26 (C)	-3.41>>	-2.36	1809.92	2.7	-3.9	0.01
15/ 24 (C)	-4.37<<	-3.19	2306.21	3.65	-5	0.01
15/ 26 (C)	-3.41	-2.36>>	1809.92	2.7	-3.9	0.01
15/ 24 (C)	-4.37	-3.19<<	2306.21	3.65	-5	0.01
15/ 24 (C)	-4.37	-3.19	2306.21>>	3.65	-5	0.01
15/ 26 (C)	-3.41	-2.36	1809.92<<	2.7	-3.9	0.01

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15/ 24 (C)	-4.37	-3.19	2306.21	3.65>>	-5	0.01
15/ 26 (C)	-3.41	-2.36	1809.92	2.70<<	-3.9	0.01
15/ 26 (C)	-3.41	-2.36	1809.92	2.7	-3.90>>	0.01
15/ 24 (C)	-4.37	-3.19	2306.21	3.65	-5.00<<	0.01
15/ 24 (C)	-4.37	-3.19	2306.21	3.65	-5	0.01>>
15/ 26 (C)	-3.41	-2.36	1809.92	2.7	-3.9	0.01<<
16/ 24 (C)	0.03>>	-2.22	2236.11	2.56	0.09	0
16/ 26 (C)	0.02<<	-1.61	1755.19	1.86	0.07	0
16/ 26 (C)	0.02	-1.61>>	1755.19	1.86	0.07	0
16/ 24 (C)	0.03	-2.22<<	2236.11	2.56	0.09	0
16/ 24 (C)	0.03	-2.22	2236.11>>	2.56	0.09	0
16/ 26 (C)	0.02	-1.61	1755.19<<	1.86	0.07	0
16/ 24 (C)	0.03	-2.22	2236.11	2.56>>	0.09	0
16/ 26 (C)	0.02	-1.61	1755.19	1.86<<	0.07	0
16/ 24 (C)	0.03	-2.22	2236.11	2.56	0.09>>	0
16/ 26 (C)	0.02	-1.61	1755.19	1.86	0.07<<	0
16/ 24 (C)	0.03	-2.22	2236.11	2.56	0.09	0.00>>
16/ 26 (C)	0.02	-1.61	1755.19	1.86	0.07	0.00<<
17/ 24 (C)	5.60>>	-2.36	2336.46	2.69	6.51	-0.01
17/ 26 (C)	4.36<<	-1.72	1833.36	1.96	5.07	-0.01
17/ 26 (C)	4.36	-1.72>>	1833.36	1.96	5.07	-0.01
17/ 24 (C)	5.6	-2.36<<	2336.46	2.69	6.51	-0.01
17/ 24 (C)	5.6	-2.36	2336.46>>	2.69	6.51	-0.01
17/ 26 (C)	4.36	-1.72	1833.36<<	1.96	5.07	-0.01
17/ 24 (C)	5.6	-2.36	2336.46	2.69>>	6.51	-0.01
17/ 26 (C)	4.36	-1.72	1833.36	1.96<<	5.07	-0.01
17/ 24 (C)	5.6	-2.36	2336.46	2.69	6.51>>	-0.01
17/ 26 (C)	4.36	-1.72	1833.36	1.96	5.07<<	-0.01
17/ 26 (C)	4.36	-1.72	1833.36	1.96	5.07	-0.01>>
17/ 24 (C)	5.6	-2.36	2336.46	2.69	6.51	-0.01<<
18/ 26 (C)	-22.98>>	-3.72	1471.26	4.23	-26.32	-0.01
18/ 24 (C)	-29.49<<	-4.93	1871.83	5.6	-33.77	-0.02
18/ 26 (C)	-22.98	-3.72>>	1471.26	4.23	-26.32	-0.01
18/ 24 (C)	-29.49	-4.93<<	1871.83	5.6	-33.77	-0.02
18/ 24 (C)	-29.49	-4.93	1871.83>>	5.6	-33.77	-0.02
18/ 26 (C)	-22.98	-3.72	1471.26<<	4.23	-26.32	-0.01
18/ 24 (C)	-29.49	-4.93	1871.83	5.60>>	-33.77	-0.02
18/ 26 (C)	-22.98	-3.72	1471.26	4.23<<	-26.32	-0.01
18/ 26 (C)	-22.98	-3.72	1471.26	4.23	-26.32>>	-0.01
18/ 24 (C)	-29.49	-4.93	1871.83	5.6	-33.77<<	-0.02
18/ 26 (C)	-22.98	-3.72	1471.26	4.23	-26.32	-0.01>>
18/ 24 (C)	-29.49	-4.93	1871.83	5.6	-33.77	-0.02<<
19/ 24 (C)	29.84>>	-6.02	1888.87	6.85	34.35	-0.03
19/ 26 (C)	23.25<<	-4.56	1484.48	5.19	26.76	-0.03
19/ 26 (C)	23.25	-4.56>>	1484.48	5.19	26.76	-0.03

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19/ 24 (C)	29.84	-6.02<<	1888.87	6.85	34.35	-0.03
19/ 24 (C)	29.84	-6.02	1888.87>>	6.85	34.35	-0.03
19/ 26 (C)	23.25	-4.56	1484.48<<	5.19	26.76	-0.03
19/ 24 (C)	29.84	-6.02	1888.87	6.85>>	34.35	-0.03
19/ 26 (C)	23.25	-4.56	1484.48	5.19<<	26.76	-0.03
19/ 24 (C)	29.84	-6.02	1888.87	6.85	34.35>>	-0.03
19/ 26 (C)	23.25	-4.56	1484.48	5.19	26.76<<	-0.03
19/ 26 (C)	23.25	-4.56	1484.48	5.19	26.76	-0.03>>
19/ 24 (C)	29.84	-6.02	1888.87	6.85	34.35	-0.03<<
20/ 26 (C)	-3.78>>	-2.58	1848.7	2.92	-4.28	-0.02
20/ 24 (C)	-4.86<<	-3.48	2356.22	3.93	-5.49	-0.03
20/ 26 (C)	-3.78	-2.58>>	1848.7	2.92	-4.28	-0.02
20/ 24 (C)	-4.86	-3.48<<	2356.22	3.93	-5.49	-0.03
20/ 24 (C)	-4.86	-3.48	2356.22>>	3.93	-5.49	-0.03
20/ 26 (C)	-3.78	-2.58	1848.70<<	2.92	-4.28	-0.02
20/ 24 (C)	-4.86	-3.48	2356.22	3.93>>	-5.49	-0.03
20/ 26 (C)	-3.78	-2.58	1848.7	2.92<<	-4.28	-0.02
20/ 26 (C)	-3.78	-2.58	1848.7	2.92	-4.28>>	-0.02
20/ 24 (C)	-4.86	-3.48	2356.22	3.93	-5.49<<	-0.03
20/ 26 (C)	-3.78	-2.58	1848.7	2.92	-4.28	-0.02>>
20/ 24 (C)	-4.86	-3.48	2356.22	3.93	-5.49	-0.03<<
21/ 26 (C)	-0.42>>	-1.93	1757.19	2.18	-0.41	-0.01
21/ 24 (C)	-0.55<<	-2.63	2238.67	2.98	-0.52	-0.01
21/ 26 (C)	-0.42	-1.93>>	1757.19	2.18	-0.41	-0.01
21/ 24 (C)	-0.55	-2.63<<	2238.67	2.98	-0.52	-0.01
21/ 24 (C)	-0.55	-2.63	2238.67>>	2.98	-0.52	-0.01
21/ 26 (C)	-0.42	-1.93	1757.19<<	2.18	-0.41	-0.01
21/ 24 (C)	-0.55	-2.63	2238.67	2.98>>	-0.52	-0.01
21/ 26 (C)	-0.42	-1.93	1757.19	2.18<<	-0.41	-0.01
21/ 26 (C)	-0.42	-1.93	1757.19	2.18	-0.41>>	-0.01
21/ 24 (C)	-0.55	-2.63	2238.67	2.98	-0.52<<	-0.01
21/ 26 (C)	-0.42	-1.93	1757.19	2.18	-0.41	-0.01>>
21/ 24 (C)	-0.55	-2.63	2238.67	2.98	-0.52	-0.01<<
22/ 24 (C)	6.09>>	-2.3	2335.4	2.6	7.1	-0.01
22/ 26 (C)	4.74<<	-1.67	1832.54	1.89	5.53	-0.01
22/ 26 (C)	4.74	-1.67>>	1832.54	1.89	5.53	-0.01
22/ 24 (C)	6.09	-2.30<<	2335.4	2.6	7.1	-0.01
22/ 24 (C)	6.09	-2.3	2335.40>>	2.6	7.1	-0.01
22/ 26 (C)	4.74	-1.67	1832.54<<	1.89	5.53	-0.01
22/ 24 (C)	6.09	-2.3	2335.4	2.60>>	7.1	-0.01
22/ 26 (C)	4.74	-1.67	1832.54	1.89<<	5.53	-0.01
22/ 24 (C)	6.09	-2.3	2335.4	2.6	7.10>>	-0.01
22/ 26 (C)	4.74	-1.67	1832.54	1.89	5.53<<	-0.01
22/ 26 (C)	4.74	-1.67	1832.54	1.89	5.53	-0.01>>
22/ 24 (C)	6.09	-2.3	2335.4	2.6	7.1	-0.01<<



23/ 26 (C)	-23.79>>	-3.76	1455.68	4.25	-27.21	-0.02
23/ 24 (C)	-30.53<<	-4.98	1851.83	5.64	-34.92	-0.02
23/ 26 (C)	-23.79	-3.76>>	1455.68	4.25	-27.21	-0.02
23/ 24 (C)	-30.53	-4.98<<	1851.83	5.64	-34.92	-0.02
23/ 24 (C)	-30.53	-4.98	1851.83>>	5.64	-34.92	-0.02
23/ 26 (C)	-23.79	-3.76	1455.68<<	4.25	-27.21	-0.02
23/ 24 (C)	-30.53	-4.98	1851.83	5.64>>	-34.92	-0.02
23/ 26 (C)	-23.79	-3.76	1455.68	4.25<<	-27.21	-0.02
23/ 26 (C)	-23.79	-3.76	1455.68	4.25	-27.21>>	-0.02
23/ 24 (C)	-30.53	-4.98	1851.83	5.64	-34.92<<	-0.02
23/ 26 (C)	-23.79	-3.76	1455.68	4.25	-27.21	-0.02>>
23/ 24 (C)	-30.53	-4.98	1851.83	5.64	-34.92	-0.02<<
24/ 24 (C)	35.36>>	-5.81	1974.01	6.57	40.73	-0.03
24/ 26 (C)	27.54<<	-4.4	1550.79	4.97	31.73	-0.03
24/ 26 (C)	27.54	-4.40>>	1550.79	4.97	31.73	-0.03
24/ 24 (C)	35.36	-5.81<<	1974.01	6.57	40.73	-0.03
24/ 24 (C)	35.36	-5.81	1974.01>>	6.57	40.73	-0.03
24/ 26 (C)	27.54	-4.4	1550.79<<	4.97	31.73	-0.03
24/ 24 (C)	35.36	-5.81	1974.01	6.57>>	40.73	-0.03
24/ 26 (C)	27.54	-4.4	1550.79	4.97<<	31.73	-0.03
24/ 24 (C)	35.36	-5.81	1974.01	6.57	40.73>>	-0.03
24/ 26 (C)	27.54	-4.4	1550.79	4.97	31.73<<	-0.03
24/ 26 (C)	27.54	-4.4	1550.79	4.97	31.73	-0.03>>
24/ 24 (C)	35.36	-5.81	1974.01	6.57	40.73	-0.03<<
25/ 26 (C)	-27.82>>	-2.18	1519.38	2.41	-31.86	-0.02
25/ 24 (C)	-35.71<<	-2.95	1933.66	3.26	-40.89	-0.03
25/ 26 (C)	-27.82	-2.18>>	1519.38	2.41	-31.86	-0.02
25/ 24 (C)	-35.71	-2.95<<	1933.66	3.26	-40.89	-0.03
25/ 24 (C)	-35.71	-2.95	1933.66>>	3.26	-40.89	-0.03
25/ 26 (C)	-27.82	-2.18	1519.38<<	2.41	-31.86	-0.02
25/ 24 (C)	-35.71	-2.95	1933.66	3.26>>	-40.89	-0.03
25/ 26 (C)	-27.82	-2.18	1519.38	2.41<<	-31.86	-0.02
25/ 26 (C)	-27.82	-2.18	1519.38	2.41	-31.86>>	-0.02
25/ 24 (C)	-35.71	-2.95	1933.66	3.26	-40.89<<	-0.03
25/ 26 (C)	-27.82	-2.18	1519.38	2.41	-31.86	-0.02>>
25/ 24 (C)	-35.71	-2.95	1933.66	3.26	-40.89	-0.03<<
26/ 24 (C)	34.81>>	-3	1890.52	3.33	40.1	-0.03
26/ 26 (C)	27.13<<	-2.23	1485.98	2.47	31.25	-0.02
26/ 26 (C)	27.13	-2.23>>	1485.98	2.47	31.25	-0.02
26/ 24 (C)	34.81	-3.00<<	1890.52	3.33	40.1	-0.03
26/ 24 (C)	34.81	-3	1890.52>>	3.33	40.1	-0.03
26/ 26 (C)	27.13	-2.23	1485.98<<	2.47	31.25	-0.02
26/ 24 (C)	34.81	-3	1890.52	3.33>>	40.1	-0.03
26/ 26 (C)	27.13	-2.23	1485.98	2.47<<	31.25	-0.02
26/ 24 (C)	34.81	-3	1890.52	3.33	40.10>>	-0.03



26/ 26 (C)	27.13	-2.23	1485.98	2.47	31.25<<	-0.02
26/ 26 (C)	27.13	-2.23	1485.98	2.47	31.25	-0.02>>
26/ 24 (C)	34.81	-3	1890.52	3.33	40.1	-0.03<<
27/ 26 (C)	-29.47>>	-10.3	1382.87	11.75	-33.79	-0.03
27/ 24 (C)	-37.80<<	-13.36	1758.03	15.23	-43.35	-0.04
27/ 26 (C)	-29.47	-10.30>>	1382.87	11.75	-33.79	-0.03
27/ 24 (C)	-37.8	-13.36<<	1758.03	15.23	-43.35	-0.04
27/ 24 (C)	-37.8	-13.36	1758.03>>	15.23	-43.35	-0.04
27/ 26 (C)	-29.47	-10.3	1382.87<<	11.75	-33.79	-0.03
27/ 24 (C)	-37.8	-13.36	1758.03	15.23>>	-43.35	-0.04
27/ 26 (C)	-29.47	-10.3	1382.87	11.75<<	-33.79	-0.03
27/ 26 (C)	-29.47	-10.3	1382.87	11.75	-33.79>>	-0.03
27/ 24 (C)	-37.8	-13.36	1758.03	15.23	-43.35<<	-0.04
27/ 26 (C)	-29.47	-10.3	1382.87	11.75	-33.79	-0.03>>
27/ 24 (C)	-37.8	-13.36	1758.03	15.23	-43.35	-0.04<<
28/ 24 (C)	20.25>>	13.67	2315.4	-15.84	23.31	0.12
28/ 26 (C)	15.80<<	10.47	1815.27	-12.14	18.19	0.09
28/ 24 (C)	20.25	13.67>>	2315.4	-15.84	23.31	0.12
28/ 26 (C)	15.8	10.47<<	1815.27	-12.14	18.19	0.09
28/ 24 (C)	20.25	13.67	2315.40>>	-15.84	23.31	0.12
28/ 26 (C)	15.8	10.47	1815.27<<	-12.14	18.19	0.09
28/ 26 (C)	15.8	10.47	1815.27	-12.14>>	18.19	0.09
28/ 24 (C)	20.25	13.67	2315.4	-15.84<<	23.31	0.12
28/ 24 (C)	20.25	13.67	2315.4	-15.84	23.31>>	0.12
28/ 26 (C)	15.8	10.47	1815.27	-12.14	18.19<<	0.09
28/ 24 (C)	20.25	13.67	2315.4	-15.84	23.31	0.12>>
28/ 26 (C)	15.8	10.47	1815.27	-12.14	18.19	0.09<<
29/ 26 (C)	-5.84>>	5.62	1860.17	-6.44	-6.62	0.04
29/ 24 (C)	-7.50<<	7.41	2371.95	-8.49	-8.51	0.05
29/ 24 (C)	-7.5	7.41>>	2371.95	-8.49	-8.51	0.05
29/ 26 (C)	-5.84	5.62<<	1860.17	-6.44	-6.62	0.04
29/ 24 (C)	-7.5	7.41	2371.95>>	-8.49	-8.51	0.05
29/ 26 (C)	-5.84	5.62	1860.17<<	-6.44	-6.62	0.04
29/ 26 (C)	-5.84	5.62	1860.17	-6.44>>	-6.62	0.04
29/ 24 (C)	-7.5	7.41	2371.95	-8.49<<	-8.51	0.05
29/ 26 (C)	-5.84	5.62	1860.17	-6.44	-6.62>>	0.04
29/ 24 (C)	-7.5	7.41	2371.95	-8.49	-8.51<<	0.05
29/ 24 (C)	-7.5	7.41	2371.95	-8.49	-8.51	0.05>>
29/ 26 (C)	-5.84	5.62	1860.17	-6.44	-6.62	0.04<<
30/ 24 (C)	1.57>>	4.21	2259.68	-4.8	1.91	0.02
30/ 26 (C)	1.22<<	3.14	1772.74	-3.57	1.48	0.01
30/ 24 (C)	1.57	4.21>>	2259.68	-4.8	1.91	0.02
30/ 26 (C)	1.22	3.14<<	1772.74	-3.57	1.48	0.01
30/ 24 (C)	1.57	4.21	2259.68>>	-4.8	1.91	0.02
30/ 26 (C)	1.22	3.14	1772.74<<	-3.57	1.48	0.01



30/ 26 (C)	1.22	3.14	1772.74	-3.57>>	1.48	0.01
30/ 24 (C)	1.57	4.21	2259.68	-4.80<<	1.91	0.02
30/ 24 (C)	1.57	4.21	2259.68	-4.8	1.91>>	0.02
30/ 26 (C)	1.22	3.14	1772.74	-3.57	1.48<<	0.01
30/ 24 (C)	1.57	4.21	2259.68	-4.8	1.91	0.02>>
30/ 26 (C)	1.22	3.14	1772.74	-3.57	1.48	0.01<<
31/ 24 (C)	4.60>>	4.45	2363.96	-5.11	5.37	0
31/ 26 (C)	3.59<<	3.32	1853.95	-3.81	4.19	0
31/ 24 (C)	4.6	4.45>>	2363.96	-5.11	5.37	0
31/ 26 (C)	3.59	3.32<<	1853.95	-3.81	4.19	0
31/ 24 (C)	4.6	4.45	2363.96>>	-5.11	5.37	0
31/ 26 (C)	3.59	3.32	1853.95<<	-3.81	4.19	0
31/ 26 (C)	3.59	3.32	1853.95	-3.81>>	4.19	0
31/ 24 (C)	4.6	4.45	2363.96	-5.11<<	5.37	0
31/ 24 (C)	4.6	4.45	2363.96	-5.11	5.37>>	0
31/ 26 (C)	3.59	3.32	1853.95	-3.81	4.19<<	0
31/ 26 (C)	3.59	3.32	1853.95	-3.81	4.19	-0.00>>
31/ 24 (C)	4.6	4.45	2363.96	-5.11	5.37	-0.00<<
32/ 26 (C)	-22.02>>	6.06	1497.86	-7.03	-25.2	-0.02
32/ 24 (C)	-28.27<<	7.97	1906.92	-9.24	-32.35	-0.02
32/ 24 (C)	-28.27	7.97>>	1906.92	-9.24	-32.35	-0.02
32/ 26 (C)	-22.02	6.06<<	1497.86	-7.03	-25.2	-0.02
32/ 24 (C)	-28.27	7.97	1906.92>>	-9.24	-32.35	-0.02
32/ 26 (C)	-22.02	6.06	1497.86<<	-7.03	-25.2	-0.02
32/ 26 (C)	-22.02	6.06	1497.86	-7.03>>	-25.2	-0.02
32/ 24 (C)	-28.27	7.97	1906.92	-9.24<<	-32.35	-0.02
32/ 26 (C)	-22.02	6.06	1497.86	-7.03	-25.20>>	-0.02
32/ 24 (C)	-28.27	7.97	1906.92	-9.24	-32.35<<	-0.02
32/ 26 (C)	-22.02	6.06	1497.86	-7.03	-25.2	-0.02>>
32/ 24 (C)	-28.27	7.97	1906.92	-9.24	-32.35	-0.02<<
33/ 24 (C)	28.58>>	9.98	1935.42	-11.64	32.94	-0.03
33/ 26 (C)	22.26<<	7.61	1519.75	-8.87	25.66	-0.02
33/ 24 (C)	28.58	9.98>>	1935.42	-11.64	32.94	-0.03
33/ 26 (C)	22.26	7.61<<	1519.75	-8.87	25.66	-0.02
33/ 24 (C)	28.58	9.98	1935.42>>	-11.64	32.94	-0.03
33/ 26 (C)	22.26	7.61	1519.75<<	-8.87	25.66	-0.02
33/ 26 (C)	22.26	7.61	1519.75	-8.87>>	25.66	-0.02
33/ 24 (C)	28.58	9.98	1935.42	-11.64<<	32.94	-0.03
33/ 24 (C)	28.58	9.98	1935.42	-11.64	32.94>>	-0.03
33/ 26 (C)	22.26	7.61	1519.75	-8.87	25.66<<	-0.02
33/ 26 (C)	22.26	7.61	1519.75	-8.87	25.66	-0.02>>
33/ 24 (C)	28.58	9.98	1935.42	-11.64	32.94	-0.03<<
34/ 26 (C)	-2.83>>	3.65	1855.47	-4.24	-3.17	-0.02
34/ 24 (C)	-3.64<<	4.88	2365.98	-5.67	-4.07	-0.02
34/ 24 (C)	-3.64	4.88>>	2365.98	-5.67	-4.07	-0.02

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34/ 26 (C)	-2.83	3.65<<	1855.47	-4.24	-3.17	-0.02
34/ 24 (C)	-3.64	4.88	2365.98>>	-5.67	-4.07	-0.02
34/ 26 (C)	-2.83	3.65	1855.47<<	-4.24	-3.17	-0.02
34/ 26 (C)	-2.83	3.65	1855.47	-4.24>>	-3.17	-0.02
34/ 24 (C)	-3.64	4.88	2365.98	-5.67<<	-4.07	-0.02
34/ 26 (C)	-2.83	3.65	1855.47	-4.24	-3.17>>	-0.02
34/ 24 (C)	-3.64	4.88	2365.98	-5.67	-4.07<<	-0.02
34/ 26 (C)	-2.83	3.65	1855.47	-4.24	-3.17	-0.02>>
34/ 24 (C)	-3.64	4.88	2365.98	-5.67	-4.07	-0.02<<
35/ 26 (C)	-0.71>>	3.74	1783.06	-4.3	-0.72	-0.01
35/ 24 (C)	-0.91<<	4.99	2272.96	-5.74	-0.92	-0.01
35/ 24 (C)	-0.91	4.99>>	2272.96	-5.74	-0.92	-0.01
35/ 26 (C)	-0.71	3.74<<	1783.06	-4.3	-0.72	-0.01
35/ 24 (C)	-0.91	4.99	2272.96>>	-5.74	-0.92	-0.01
35/ 26 (C)	-0.71	3.74	1783.06<<	-4.3	-0.72	-0.01
35/ 26 (C)	-0.71	3.74	1783.06	-4.30>>	-0.72	-0.01
35/ 24 (C)	-0.91	4.99	2272.96	-5.74<<	-0.92	-0.01
35/ 26 (C)	-0.71	3.74	1783.06	-4.3	-0.72>>	-0.01
35/ 24 (C)	-0.91	4.99	2272.96	-5.74	-0.92<<	-0.01
35/ 26 (C)	-0.71	3.74	1783.06	-4.3	-0.72	-0.01>>
35/ 24 (C)	-0.91	4.99	2272.96	-5.74	-0.92	-0.01<<
36/ 24 (C)	5.65>>	4.42	2360.1	-5.1	6.61	-0.01
36/ 26 (C)	4.40<<	3.29	1850.96	-3.8	5.15	0
36/ 24 (C)	5.65	4.42>>	2360.1	-5.1	6.61	-0.01
36/ 26 (C)	4.4	3.29<<	1850.96	-3.8	5.15	0
36/ 24 (C)	5.65	4.42	2360.10>>	-5.1	6.61	-0.01
36/ 26 (C)	4.4	3.29	1850.96<<	-3.8	5.15	0
36/ 26 (C)	4.4	3.29	1850.96	-3.80>>	5.15	0
36/ 24 (C)	5.65	4.42	2360.1	-5.10<<	6.61	-0.01
36/ 24 (C)	5.65	4.42	2360.1	-5.1	6.61>>	-0.01
36/ 26 (C)	4.4	3.29	1850.96	-3.8	5.15<<	0
36/ 26 (C)	4.4	3.29	1850.96	-3.8	5.15	-0.00>>
36/ 24 (C)	5.65	4.42	2360.1	-5.1	6.61	-0.01<<
37/ 26 (C)	-22.80>>	6.15	1479.64	-7.16	-26.06	0
37/ 24 (C)	-29.27<<	8.09	1883.53	-9.41	-33.45	0
37/ 24 (C)	-29.27	8.09>>	1883.53	-9.41	-33.45	0
37/ 26 (C)	-22.8	6.15<<	1479.64	-7.16	-26.06	0
37/ 24 (C)	-29.27	8.09	1883.53>>	-9.41	-33.45	0
37/ 26 (C)	-22.8	6.15	1479.64<<	-7.16	-26.06	0
37/ 26 (C)	-22.8	6.15	1479.64	-7.16>>	-26.06	0
37/ 24 (C)	-29.27	8.09	1883.53	-9.41<<	-33.45	0
37/ 26 (C)	-22.8	6.15	1479.64	-7.16	-26.06>>	0
37/ 24 (C)	-29.27	8.09	1883.53	-9.41	-33.45<<	0
37/ 24 (C)	-29.27	8.09	1883.53	-9.41	-33.45	0.00>>
37/ 26 (C)	-22.8	6.15	1479.64	-7.16	-26.06	0.00<<



38/ 24 (C)	34.32>>	9.9	2020.18	-11.61	39.57	0.01
38/ 26 (C)	26.73<<	7.54	1585.74	-8.85	30.82	0.01
38/ 24 (C)	34.32	9.90>>	2020.18	-11.61	39.57	0.01
38/ 26 (C)	26.73	7.54<<	1585.74	-8.85	30.82	0.01
38/ 24 (C)	34.32	9.9	2020.18>>	-11.61	39.57	0.01
38/ 26 (C)	26.73	7.54	1585.74<<	-8.85	30.82	0.01
38/ 26 (C)	26.73	7.54	1585.74	-8.85>>	30.82	0.01
38/ 24 (C)	34.32	9.9	2020.18	-11.61<<	39.57	0.01
38/ 24 (C)	34.32	9.9	2020.18	-11.61	39.57>>	0.01
38/ 26 (C)	26.73	7.54	1585.74	-8.85	30.82<<	0.01
38/ 24 (C)	34.32	9.9	2020.18	-11.61	39.57	0.01>>
38/ 26 (C)	26.73	7.54	1585.74	-8.85	30.82	0.01<<
39/ 26 (C)	-27.41>>	3.27	1513.26	-3.87	-31.36	-0.01
39/ 24 (C)	-35.20<<	4.38	1926.64	-5.18	-40.27	-0.01
39/ 24 (C)	-35.2	4.38>>	1926.64	-5.18	-40.27	-0.01
39/ 26 (C)	-27.41	3.27<<	1513.26	-3.87	-31.36	-0.01
39/ 24 (C)	-35.2	4.38	1926.64>>	-5.18	-40.27	-0.01
39/ 26 (C)	-27.41	3.27	1513.26<<	-3.87	-31.36	-0.01
39/ 26 (C)	-27.41	3.27	1513.26	-3.87>>	-31.36	-0.01
39/ 24 (C)	-35.2	4.38	1926.64	-5.18<<	-40.27	-0.01
39/ 26 (C)	-27.41	3.27	1513.26	-3.87	-31.36>>	-0.01
39/ 24 (C)	-35.2	4.38	1926.64	-5.18	-40.27<<	-0.01
39/ 26 (C)	-27.41	3.27	1513.26	-3.87	-31.36	-0.01>>
39/ 24 (C)	-35.2	4.38	1926.64	-5.18	-40.27	-0.01<<
40/ 24 (C)	36.11>>	7.93	1941.73	-9.23	41.65	-0.04
40/ 26 (C)	28.12<<	6.03	1524.99	-7.02	32.44	-0.03
40/ 24 (C)	36.11	7.93>>	1941.73	-9.23	41.65	-0.04
40/ 26 (C)	28.12	6.03<<	1524.99	-7.02	32.44	-0.03
40/ 24 (C)	36.11	7.93	1941.73>>	-9.23	41.65	-0.04
40/ 26 (C)	28.12	6.03	1524.99<<	-7.02	32.44	-0.03
40/ 26 (C)	28.12	6.03	1524.99	-7.02>>	32.44	-0.03
40/ 24 (C)	36.11	7.93	1941.73	-9.23<<	41.65	-0.04
40/ 24 (C)	36.11	7.93	1941.73	-9.23	41.65>>	-0.04
40/ 26 (C)	28.12	6.03	1524.99	-7.02	32.44<<	-0.03
40/ 26 (C)	28.12	6.03	1524.99	-7.02	32.44	-0.03>>
40/ 24 (C)	36.11	7.93	1941.73	-9.23	41.65	-0.04<<
41/ 26 (C)	-12.47>>	17.9	1892.08	-20.73	-14.21	-0.05
41/ 24 (C)	-15.98<<	23.18	2414.03	-26.85	-18.21	-0.07
41/ 24 (C)	-15.98	23.18>>	2414.03	-26.85	-18.21	-0.07
41/ 26 (C)	-12.47	17.90<<	1892.08	-20.73	-14.21	-0.05
41/ 24 (C)	-15.98	23.18	2414.03>>	-26.85	-18.21	-0.07
41/ 26 (C)	-12.47	17.9	1892.08<<	-20.73	-14.21	-0.05
41/ 26 (C)	-12.47	17.9	1892.08	-20.73>>	-14.21	-0.05
41/ 24 (C)	-15.98	23.18	2414.03	-26.85<<	-18.21	-0.07
41/ 26 (C)	-12.47	17.9	1892.08	-20.73	-14.21>>	-0.05

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	95	126	0



41/ 24 (C)	-15.98	23.18	2414.03	-26.85	-18.21<<	-0.07
41/ 26 (C)	-12.47	17.9	1892.08	-20.73	-14.21	-0.05>>
41/ 24 (C)	-15.98	23.18	2414.03	-26.85	-18.21	-0.07<<
42/ 26 (C)	-12.42>>	-17.45	1784.09	20.1	-13.95	0.05
42/ 24 (C)	-16.01<<	-22.35	2283.49	25.73	-17.98	0.07
42/ 26 (C)	-12.42	-17.45>>	1784.09	20.1	-13.95	0.05
42/ 24 (C)	-16.01	-22.35<<	2283.49	25.73	-17.98	0.07
42/ 24 (C)	-16.01	-22.35	2283.49>>	25.73	-17.98	0.07
42/ 26 (C)	-12.42	-17.45	1784.09<<	20.1	-13.95	0.05
42/ 24 (C)	-16.01	-22.35	2283.49	25.73>>	-17.98	0.07
42/ 26 (C)	-12.42	-17.45	1784.09	20.10<<	-13.95	0.05
42/ 26 (C)	-12.42	-17.45	1784.09	20.1	-13.95>>	0.05
42/ 24 (C)	-16.01	-22.35	2283.49	25.73	-17.98<<	0.07
42/ 24 (C)	-16.01	-22.35	2283.49	25.73	-17.98	0.07>>
42/ 26 (C)	-12.42	-17.45	1784.09	20.1	-13.95	0.05<<
43/ 24 (C)	2.76>>	-19.93	2034.43	22.89	3.29	0.04
43/ 26 (C)	2.14<<	-15.58	1590.8	17.89	2.56	0.03
43/ 26 (C)	2.14	-15.58>>	1590.8	17.89	2.56	0.03
43/ 24 (C)	2.76	-19.93<<	2034.43	22.89	3.29	0.04
43/ 24 (C)	2.76	-19.93	2034.43>>	22.89	3.29	0.04
43/ 26 (C)	2.14	-15.58	1590.80<<	17.89	2.56	0.03
43/ 24 (C)	2.76	-19.93	2034.43	22.89>>	3.29	0.04
43/ 26 (C)	2.14	-15.58	1590.8	17.89<<	2.56	0.03
43/ 24 (C)	2.76	-19.93	2034.43	22.89	3.29>>	0.04
43/ 26 (C)	2.14	-15.58	1590.8	17.89	2.56<<	0.03
43/ 24 (C)	2.76	-19.93	2034.43	22.89	3.29	0.04>>
43/ 26 (C)	2.14	-15.58	1590.8	17.89	2.56	0.03<<
44/ 24 (C)	1.96>>	-20.99	2114.32	24.1	2.28	0.01
44/ 26 (C)	1.53<<	-16.4	1652.89	18.83	1.77	0.01
44/ 26 (C)	1.53	-16.40>>	1652.89	18.83	1.77	0.01
44/ 24 (C)	1.96	-20.99<<	2114.32	24.1	2.28	0.01
44/ 24 (C)	1.96	-20.99	2114.32>>	24.1	2.28	0.01
44/ 26 (C)	1.53	-16.4	1652.89<<	18.83	1.77	0.01
44/ 24 (C)	1.96	-20.99	2114.32	24.10>>	2.28	0.01
44/ 26 (C)	1.53	-16.4	1652.89	18.83<<	1.77	0.01
44/ 24 (C)	1.96	-20.99	2114.32	24.1	2.28>>	0.01
44/ 26 (C)	1.53	-16.4	1652.89	18.83	1.77<<	0.01
44/ 24 (C)	1.96	-20.99	2114.32	24.1	2.28	0.01>>
44/ 26 (C)	1.53	-16.4	1652.89	18.83	1.77	0.01<<
45/ 26 (C)	-10.52>>	-16.16	1505.7	18.53	-12.16	-0.01
45/ 24 (C)	-13.53<<	-20.69	1924.99	23.73	-15.63	-0.01
45/ 26 (C)	-10.52	-16.16>>	1505.7	18.53	-12.16	-0.01
45/ 24 (C)	-13.53	-20.69<<	1924.99	23.73	-15.63	-0.01
45/ 24 (C)	-13.53	-20.69	1924.99>>	23.73	-15.63	-0.01
45/ 26 (C)	-10.52	-16.16	1505.70<<	18.53	-12.16	-0.01



45/ 24 (C)	-13.53	-20.69	1924.99	23.73>>	-15.63	-0.01
45/ 26 (C)	-10.52	-16.16	1505.7	18.53<<	-12.16	-0.01
45/ 26 (C)	-10.52	-16.16	1505.7	18.53	-12.16>>	-0.01
45/ 24 (C)	-13.53	-20.69	1924.99	23.73	-15.63<<	-0.01
45/ 26 (C)	-10.52	-16.16	1505.7	18.53	-12.16	-0.01>>
45/ 24 (C)	-13.53	-20.69	1924.99	23.73	-15.63	-0.01<<
46/ 24 (C)	10.62>>	-23.63	1955.33	27.16	12.58	-0.02
46/ 26 (C)	8.25<<	-18.45	1529.35	21.2	9.78	-0.01
46/ 26 (C)	8.25	-18.45>>	1529.35	21.2	9.78	-0.01
46/ 24 (C)	10.62	-23.63<<	1955.33	27.16	12.58	-0.02
46/ 24 (C)	10.62	-23.63	1955.33>>	27.16	12.58	-0.02
46/ 26 (C)	8.25	-18.45	1529.35<<	21.2	9.78	-0.01
46/ 24 (C)	10.62	-23.63	1955.33	27.16>>	12.58	-0.02
46/ 26 (C)	8.25	-18.45	1529.35	21.20<<	9.78	-0.01
46/ 24 (C)	10.62	-23.63	1955.33	27.16	12.58>>	-0.02
46/ 26 (C)	8.25	-18.45	1529.35	21.2	9.78<<	-0.01
46/ 26 (C)	8.25	-18.45	1529.35	21.2	9.78	-0.01>>
46/ 24 (C)	10.62	-23.63	1955.33	27.16	12.58	-0.02<<
47/ 26 (C)	-1.59>>	-15.87	1630.05	18.22	-1.72	0
47/ 24 (C)	-2.04<<	-20.3	2084.98	23.31	-2.21	0.01
47/ 26 (C)	-1.59	-15.87>>	1630.05	18.22	-1.72	0
47/ 24 (C)	-2.04	-20.30<<	2084.98	23.31	-2.21	0.01
47/ 24 (C)	-2.04	-20.3	2084.98>>	23.31	-2.21	0.01
47/ 26 (C)	-1.59	-15.87	1630.05<<	18.22	-1.72	0
47/ 24 (C)	-2.04	-20.3	2084.98	23.31>>	-2.21	0.01
47/ 26 (C)	-1.59	-15.87	1630.05	18.22<<	-1.72	0
47/ 26 (C)	-1.59	-15.87	1630.05	18.22	-1.72>>	0
47/ 24 (C)	-2.04	-20.3	2084.98	23.31	-2.21<<	0.01
47/ 24 (C)	-2.04	-20.3	2084.98	23.31	-2.21	0.01>>
47/ 26 (C)	-1.59	-15.87	1630.05	18.22	-1.72	0.00<<
48/ 24 (C)	3.08>>	-20.87	2106.21	23.96	3.56	0.01
48/ 26 (C)	2.39<<	-16.31	1646.58	18.72	2.77	0.01
48/ 26 (C)	2.39	-16.31>>	1646.58	18.72	2.77	0.01
48/ 24 (C)	3.08	-20.87<<	2106.21	23.96	3.56	0.01
48/ 24 (C)	3.08	-20.87	2106.21>>	23.96	3.56	0.01
48/ 26 (C)	2.39	-16.31	1646.58<<	18.72	2.77	0.01
48/ 24 (C)	3.08	-20.87	2106.21	23.96>>	3.56	0.01
48/ 26 (C)	2.39	-16.31	1646.58	18.72<<	2.77	0.01
48/ 24 (C)	3.08	-20.87	2106.21	23.96	3.56>>	0.01
48/ 26 (C)	2.39	-16.31	1646.58	18.72	2.77<<	0.01
48/ 24 (C)	3.08	-20.87	2106.21	23.96	3.56	0.01>>
48/ 26 (C)	2.39	-16.31	1646.58	18.72	2.77	0.01<<
49/ 26 (C)	-10.71>>	-16.05	1500.29	18.39	-12.38	0.03
49/ 24 (C)	-13.78<<	-20.55	1918.04	23.55	-15.92	0.03
49/ 26 (C)	-10.71	-16.05>>	1500.29	18.39	-12.38	0.03



49/ 24 (C)	-13.78	-20.55<<	1918.04	23.55	-15.92	0.03
49/ 24 (C)	-13.78	-20.55	1918.04>>	23.55	-15.92	0.03
49/ 26 (C)	-10.71	-16.05	1500.29<<	18.39	-12.38	0.03
49/ 24 (C)	-13.78	-20.55	1918.04	23.55>>	-15.92	0.03
49/ 26 (C)	-10.71	-16.05	1500.29	18.39<<	-12.38	0.03
49/ 26 (C)	-10.71	-16.05	1500.29	18.39	-12.38>>	0.03
49/ 24 (C)	-13.78	-20.55	1918.04	23.55	-15.92<<	0.03
49/ 24 (C)	-13.78	-20.55	1918.04	23.55	-15.92	0.03>>
49/ 26 (C)	-10.71	-16.05	1500.29	18.39	-12.38	0.03<<
51/ 26 (C)	-12.21>>	-16.06	1206.11	18.43	-13.66	0
51/ 24 (C)	-15.74<<	-20.57	1538.82	23.61	-17.62	0
51/ 26 (C)	-12.21	-16.06>>	1206.11	18.43	-13.66	0
51/ 24 (C)	-15.74	-20.57<<	1538.82	23.61	-17.62	0
51/ 24 (C)	-15.74	-20.57	1538.82>>	23.61	-17.62	0
51/ 26 (C)	-12.21	-16.06	1206.11<<	18.43	-13.66	0
51/ 24 (C)	-15.74	-20.57	1538.82	23.61>>	-17.62	0
51/ 26 (C)	-12.21	-16.06	1206.11	18.43<<	-13.66	0
51/ 26 (C)	-12.21	-16.06	1206.11	18.43	-13.66>>	0
51/ 24 (C)	-15.74	-20.57	1538.82	23.61	-17.62<<	0
51/ 26 (C)	-12.21	-16.06	1206.11	18.43	-13.66	-0.00>>
51/ 24 (C)	-15.74	-20.57	1538.82	23.61	-17.62	-0.00<<
52/ 24 (C)	33.53>>	-20.7	1901.02	23.71	38.75	-0.05
52/ 26 (C)	26.02<<	-16.17	1487.28	18.52	30.08	-0.04
52/ 26 (C)	26.02	-16.17>>	1487.28	18.52	30.08	-0.04
52/ 24 (C)	33.53	-20.70<<	1901.02	23.71	38.75	-0.05
52/ 24 (C)	33.53	-20.7	1901.02>>	23.71	38.75	-0.05
52/ 26 (C)	26.02	-16.17	1487.28<<	18.52	30.08	-0.04
52/ 24 (C)	33.53	-20.7	1901.02	23.71>>	38.75	-0.05
52/ 26 (C)	26.02	-16.17	1487.28	18.52<<	30.08	-0.04
52/ 24 (C)	33.53	-20.7	1901.02	23.71	38.75>>	-0.05
52/ 26 (C)	26.02	-16.17	1487.28	18.52	30.08<<	-0.04
52/ 26 (C)	26.02	-16.17	1487.28	18.52	30.08	-0.04>>
52/ 24 (C)	33.53	-20.7	1901.02	23.71	38.75	-0.05<<
53/ 24 (C)	24.06>>	-29.76	1389.38	34.1	27.68	-0.06
53/ 26 (C)	18.69<<	-23.12	1093.44	26.49	21.5	-0.05
53/ 26 (C)	18.69	-23.12>>	1093.44	26.49	21.5	-0.05
53/ 24 (C)	24.06	-29.76<<	1389.38	34.1	27.68	-0.06
53/ 24 (C)	24.06	-29.76	1389.38>>	34.1	27.68	-0.06
53/ 26 (C)	18.69	-23.12	1093.44<<	26.49	21.5	-0.05
53/ 24 (C)	24.06	-29.76	1389.38	34.10>>	27.68	-0.06
53/ 26 (C)	18.69	-23.12	1093.44	26.49<<	21.5	-0.05
53/ 24 (C)	24.06	-29.76	1389.38	34.1	27.68>>	-0.06
53/ 26 (C)	18.69	-23.12	1093.44	26.49	21.50<<	-0.05
53/ 26 (C)	18.69	-23.12	1093.44	26.49	21.5	-0.05>>
53/ 24 (C)	24.06	-29.76	1389.38	34.1	27.68	-0.06<<



56/ 24 (C)	7.99>>	6.42	2498.08	-7.41	9.21	-0.04
56/ 26 (C)	6.19<<	5.13	1951.32	-5.92	7.13	-0.03
56/ 24 (C)	7.99	6.42>>	2498.08	-7.41	9.21	-0.04
56/ 26 (C)	6.19	5.13<<	1951.32	-5.92	7.13	-0.03
56/ 24 (C)	7.99	6.42	2498.08>>	-7.41	9.21	-0.04
56/ 26 (C)	6.19	5.13	1951.32<<	-5.92	7.13	-0.03
56/ 26 (C)	6.19	5.13	1951.32	-5.92>>	7.13	-0.03
56/ 24 (C)	7.99	6.42	2498.08	-7.41<<	9.21	-0.04
56/ 24 (C)	7.99	6.42	2498.08	-7.41	9.21>>	-0.04
56/ 26 (C)	6.19	5.13	1951.32	-5.92	7.13<<	-0.03
56/ 26 (C)	6.19	5.13	1951.32	-5.92	7.13	-0.03>>
56/ 24 (C)	7.99	6.42	2498.08	-7.41	9.21	-0.04<<

Pamatų reakcijos po kolonomis ACC deriniui:

Taškas/ kombinacija	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
1/ 34 (C)	76.01>>	33.95	5674.48	-39.03	87.37	-0.19
1/ 37 (C)	20.09<<	9.32	1533.54	-10.72	23.09	-0.05
1/ 34 (C)	76.01	33.95>>	5674.48	-39.03	87.37	-0.19
1/ 37 (C)	20.09	9.32<<	1533.54	-10.72	23.09	-0.05
1/ 34 (C)	76.01	33.95	5674.48>>	-39.03	87.37	-0.19
1/ 37 (C)	20.09	9.32	1533.54<<	-10.72	23.09	-0.05
1/ 37 (C)	20.09	9.32	1533.54	-10.72>>	23.09	-0.05
1/ 34 (C)	76.01	33.95	5674.48	-39.03<<	87.37	-0.19
1/ 34 (C)	76.01	33.95	5674.48	-39.03	87.37>>	-0.19
1/ 37 (C)	20.09	9.32	1533.54	-10.72	23.09<<	-0.05
1/ 37 (C)	20.09	9.32	1533.54	-10.72	23.09	-0.05>>
1/ 34 (C)	76.01	33.95	5674.48	-39.03	87.37	-0.19<<
2/ 37 (C)	-3.89>>	5.11	1806.12	-5.88	-4.46	-0.01
2/ 34 (C)	-14.71<<	17.64	6710.34	-20.29	-16.85	-0.04
2/ 34 (C)	-14.71	17.64>>	6710.34	-20.29	-16.85	-0.04
2/ 37 (C)	-3.89	5.11<<	1806.12	-5.88	-4.46	-0.01
2/ 34 (C)	-14.71	17.64	6710.34>>	-20.29	-16.85	-0.04
2/ 37 (C)	-3.89	5.11	1806.12<<	-5.88	-4.46	-0.01
2/ 37 (C)	-3.89	5.11	1806.12	-5.88>>	-4.46	-0.01
2/ 34 (C)	-14.71	17.64	6710.34	-20.29<<	-16.85	-0.04
2/ 37 (C)	-3.89	5.11	1806.12	-5.88	-4.46>>	-0.01
2/ 34 (C)	-14.71	17.64	6710.34	-20.29	-16.85<<	-0.04
2/ 37 (C)	-3.89	5.11	1806.12	-5.88	-4.46	-0.01>>
2/ 34 (C)	-14.71	17.64	6710.34	-20.29	-16.85	-0.04<<
3/ 34 (C)	3.40>>	15.24	6436.98	-17.5	3.95	-0.02
3/ 37 (C)	0.90<<	4.48	1733.81	-5.14	1.04	0
3/ 34 (C)	3.4	15.24>>	6436.98	-17.5	3.95	-0.02
3/ 37 (C)	0.9	4.48<<	1733.81	-5.14	1.04	0



3/ 34 (C)	3.4	15.24	6436.98>>	-17.5	3.95	-0.02
3/ 37 (C)	0.9	4.48	1733.81<<	-5.14	1.04	0
3/ 37 (C)	0.9	4.48	1733.81	-5.14>>	1.04	0
3/ 34 (C)	3.4	15.24	6436.98	-17.50<<	3.95	-0.02
3/ 34 (C)	3.4	15.24	6436.98	-17.5	3.95>>	-0.02
3/ 37 (C)	0.9	4.48	1733.81	-5.14	1.04<<	0
3/ 37 (C)	0.9	4.48	1733.81	-5.14	1.04	-0.00>>
3/ 34 (C)	3.4	15.24	6436.98	-17.5	3.95	-0.02<<
4/ 34 (C)	9.14>>	18.1	6675.76	-20.84	10.53	-0.03
4/ 37 (C)	2.42<<	5.24	1796.86	-6.02	2.78	-0.01
4/ 34 (C)	9.14	18.10>>	6675.76	-20.84	10.53	-0.03
4/ 37 (C)	2.42	5.24<<	1796.86	-6.02	2.78	-0.01
4/ 34 (C)	9.14	18.1	6675.76>>	-20.84	10.53	-0.03
4/ 37 (C)	2.42	5.24	1796.86<<	-6.02	2.78	-0.01
4/ 37 (C)	2.42	5.24	1796.86	-6.02>>	2.78	-0.01
4/ 34 (C)	9.14	18.1	6675.76	-20.84<<	10.53	-0.03
4/ 34 (C)	9.14	18.1	6675.76	-20.84	10.53>>	-0.03
4/ 37 (C)	2.42	5.24	1796.86	-6.02	2.78<<	-0.01
4/ 37 (C)	2.42	5.24	1796.86	-6.02	2.78	-0.01>>
4/ 34 (C)	9.14	18.1	6675.76	-20.84	10.53	-0.03<<
5/ 37 (C)	-19.85>>	7.43	1492.57	-8.58	-22.83	-0.03
5/ 34 (C)	-75.37<<	26.64	5518.99	-30.76	-86.71	-0.1
5/ 34 (C)	-75.37	26.64>>	5518.99	-30.76	-86.71	-0.1
5/ 37 (C)	-19.85	7.43<<	1492.57	-8.58	-22.83	-0.03
5/ 34 (C)	-75.37	26.64	5518.99>>	-30.76	-86.71	-0.1
5/ 37 (C)	-19.85	7.43	1492.57<<	-8.58	-22.83	-0.03
5/ 37 (C)	-19.85	7.43	1492.57	-8.58>>	-22.83	-0.03
5/ 34 (C)	-75.37	26.64	5518.99	-30.76<<	-86.71	-0.1
5/ 37 (C)	-19.85	7.43	1492.57	-8.58	-22.83>>	-0.03
5/ 34 (C)	-75.37	26.64	5518.99	-30.76	-86.71<<	-0.1
5/ 37 (C)	-19.85	7.43	1492.57	-8.58	-22.83	-0.03>>
5/ 34 (C)	-75.37	26.64	5518.99	-30.76	-86.71	-0.10<<
6/ 34 (C)	10.26>>	103.51	3330.38	-118.71	11.84	-0.31
6/ 37 (C)	2.64<<	27.67	914.44	-31.74	3.04	-0.08
6/ 34 (C)	10.26	103.51>>	3330.38	-118.71	11.84	-0.31
6/ 37 (C)	2.64	27.67<<	914.44	-31.74	3.04	-0.08
6/ 34 (C)	10.26	103.51	3330.38>>	-118.71	11.84	-0.31
6/ 37 (C)	2.64	27.67	914.44<<	-31.74	3.04	-0.08
6/ 37 (C)	2.64	27.67	914.44	-31.74>>	3.04	-0.08
6/ 34 (C)	10.26	103.51	3330.38	-118.71<<	11.84	-0.31
6/ 34 (C)	10.26	103.51	3330.38	-118.71	11.84>>	-0.31
6/ 37 (C)	2.64	27.67	914.44	-31.74	3.04<<	-0.08
6/ 37 (C)	2.64	27.67	914.44	-31.74	3.04	-0.08>>
6/ 34 (C)	10.26	103.51	3330.38	-118.71	11.84	-0.31<<

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Lapas	Lapų	Laida
100	126	0



7/ 34 (C)	27.44>>	38.72	6163.14	-44.69	32.07	0
7/ 37 (C)	7.22<<	10.64	1661.97	-12.28	8.44	0
7/ 34 (C)	27.44	38.72>>	6163.14	-44.69	32.07	0
7/ 37 (C)	7.22	10.64<<	1661.97	-12.28	8.44	0
7/ 34 (C)	27.44	38.72	6163.14>>	-44.69	32.07	0
7/ 37 (C)	7.22	10.64	1661.97<<	-12.28	8.44	0
7/ 37 (C)	7.22	10.64	1661.97	-12.28>>	8.44	0
7/ 34 (C)	27.44	38.72	6163.14	-44.69<<	32.07	0
7/ 34 (C)	27.44	38.72	6163.14	-44.69	32.07>>	0
7/ 37 (C)	7.22	10.64	1661.97	-12.28	8.44<<	0
7/ 37 (C)	7.22	10.64	1661.97	-12.28	8.44	0.00>>
7/ 34 (C)	27.44	38.72	6163.14	-44.69	32.07	-0.00<<
8/ 37 (C)	-0.46>>	4.77	1753.68	-5.5	-0.47	-0.01
8/ 34 (C)	-1.76<<	16.36	6512.34	-18.88	-1.77	-0.03
8/ 34 (C)	-1.76	16.36>>	6512.34	-18.88	-1.77	-0.03
8/ 37 (C)	-0.46	4.77<<	1753.68	-5.5	-0.47	-0.01
8/ 34 (C)	-1.76	16.36	6512.34>>	-18.88	-1.77	-0.03
8/ 37 (C)	-0.46	4.77	1753.68<<	-5.5	-0.47	-0.01
8/ 37 (C)	-0.46	4.77	1753.68	-5.50>>	-0.47	-0.01
8/ 34 (C)	-1.76	16.36	6512.34	-18.88<<	-1.77	-0.03
8/ 37 (C)	-0.46	4.77	1753.68	-5.5	-0.47>>	-0.01
8/ 34 (C)	-1.76	16.36	6512.34	-18.88	-1.77<<	-0.03
8/ 37 (C)	-0.46	4.77	1753.68	-5.5	-0.47	-0.01>>
8/ 34 (C)	-1.76	16.36	6512.34	-18.88	-1.77	-0.03<<
9/ 34 (C)	12.11>>	17.28	6707.27	-19.94	14.03	-0.06
9/ 37 (C)	3.20<<	5.02	1805.16	-5.79	3.7	-0.02
9/ 34 (C)	12.11	17.28>>	6707.27	-19.94	14.03	-0.06
9/ 37 (C)	3.2	5.02<<	1805.16	-5.79	3.7	-0.02
9/ 34 (C)	12.11	17.28	6707.27>>	-19.94	14.03	-0.06
9/ 37 (C)	3.2	5.02	1805.16<<	-5.79	3.7	-0.02
9/ 37 (C)	3.2	5.02	1805.16	-5.79>>	3.7	-0.02
9/ 34 (C)	12.11	17.28	6707.27	-19.94<<	14.03	-0.06
9/ 34 (C)	12.11	17.28	6707.27	-19.94	14.03>>	-0.06
9/ 37 (C)	3.2	5.02	1805.16	-5.79	3.70<<	-0.02
9/ 37 (C)	3.2	5.02	1805.16	-5.79	3.7	-0.02>>
9/ 34 (C)	12.11	17.28	6707.27	-19.94	14.03	-0.06<<
10/ 37 (C)	-20.09>>	7.62	1476.54	-8.81	-23.1	-0.04
10/ 34 (C)	-76.30<<	27.35	5458.26	-31.62	-87.71	-0.15
10/ 34 (C)	-76.3	27.35>>	5458.26	-31.62	-87.71	-0.15
10/ 37 (C)	-20.09	7.62<<	1476.54	-8.81	-23.1	-0.04
10/ 34 (C)	-76.3	27.35	5458.26>>	-31.62	-87.71	-0.15
10/ 37 (C)	-20.09	7.62	1476.54<<	-8.81	-23.1	-0.04
10/ 37 (C)	-20.09	7.62	1476.54	-8.81>>	-23.1	-0.04
10/ 34 (C)	-76.3	27.35	5458.26	-31.62<<	-87.71	-0.15
10/ 37 (C)	-20.09	7.62	1476.54	-8.81	-23.10>>	-0.04

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Lapas	Lapų	Laida
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10/ 34 (C)	-76.3	27.35	5458.26	-31.62	-87.71<<	-0.15
10/ 37 (C)	-20.09	7.62	1476.54	-8.81	-23.1	-0.04>>
10/ 34 (C)	-76.3	27.35	5458.26	-31.62	-87.71	-0.15<<
11/ 34 (C)	17.51>>	108.63	3410.43	-124.65	20.22	-0.62
11/ 37 (C)	4.55<<	29.03	935.62	-33.31	5.26	-0.16
11/ 34 (C)	17.51	108.63>>	3410.43	-124.65	20.22	-0.62
11/ 37 (C)	4.55	29.03<<	935.62	-33.31	5.26	-0.16
11/ 34 (C)	17.51	108.63	3410.43>>	-124.65	20.22	-0.62
11/ 37 (C)	4.55	29.03	935.62<<	-33.31	5.26	-0.16
11/ 37 (C)	4.55	29.03	935.62	-33.31>>	5.26	-0.16
11/ 34 (C)	17.51	108.63	3410.43	-	124.65<<	20.22
11/ 34 (C)	17.51	108.63	3410.43	-124.65	20.22>>	-0.62
11/ 37 (C)	4.55	29.03	935.62	-33.31	5.26<<	-0.16
11/ 37 (C)	4.55	29.03	935.62	-33.31	5.26	-0.16>>
11/ 34 (C)	17.51	108.63	3410.43	-124.65	20.22	-0.62<<
12/ 37 (C)	-13.61>>	8.99	1349.56	-10.4	-15.47	-0.01
12/ 34 (C)	-51.58<<	32.57	4976.63	-37.68	-58.64	-0.02
12/ 34 (C)	-51.58	32.57>>	4976.63	-37.68	-58.64	-0.02
12/ 37 (C)	-13.61	8.99<<	1349.56	-10.4	-15.47	-0.01
12/ 34 (C)	-51.58	32.57	4976.63>>	-37.68	-58.64	-0.02
12/ 37 (C)	-13.61	8.99	1349.56<<	-10.4	-15.47	-0.01
12/ 37 (C)	-13.61	8.99	1349.56	-10.40>>	-15.47	-0.01
12/ 34 (C)	-51.58	32.57	4976.63	-37.68<<	-58.64	-0.02
12/ 37 (C)	-13.61	8.99	1349.56	-10.4	-15.47>>	-0.01
12/ 34 (C)	-51.58	32.57	4976.63	-37.68	-58.64<<	-0.02
12/ 37 (C)	-13.61	8.99	1349.56	-10.4	-15.47	-0.01>>
12/ 34 (C)	-51.58	32.57	4976.63	-37.68	-58.64	-0.02<<
13/ 34 (C)	73.45>>	13.95	5430.01	-16.21	84.66	-0.05
13/ 37 (C)	19.38<<	4.12	1469.08	-4.78	22.33	-0.01
13/ 34 (C)	73.45	13.95>>	5430.01	-16.21	84.66	-0.05
13/ 37 (C)	19.38	4.12<<	1469.08	-4.78	22.33	-0.01
13/ 34 (C)	73.45	13.95	5430.01>>	-16.21	84.66	-0.05
13/ 37 (C)	19.38	4.12	1469.08<<	-4.78	22.33	-0.01
13/ 37 (C)	19.38	4.12	1469.08	-4.78>>	22.33	-0.01
13/ 34 (C)	73.45	13.95	5430.01	-16.21<<	84.66	-0.05
13/ 34 (C)	73.45	13.95	5430.01	-16.21	84.66>>	-0.05
13/ 37 (C)	19.38	4.12	1469.08	-4.78	22.33<<	-0.01
13/ 37 (C)	19.38	4.12	1469.08	-4.78	22.33	-0.01>>
13/ 34 (C)	73.45	13.95	5430.01	-16.21	84.66	-0.05<<
14/ 34 (C)	50.12>>	-11.33	6183.89	12.88	57.57	0.02
14/ 37 (C)	13.47<<	-2.64	1689.66	2.99	15.48	0.01
14/ 37 (C)	13.47	-2.64>>	1689.66	2.99	15.48	0.01
14/ 34 (C)	50.12	-11.33<<	6183.89	12.88	57.57	0.02
14/ 34 (C)	50.12	-11.33	6183.89>>	12.88	57.57	0.02



14/ 37 (C)	13.47	-2.64	1689.66<<	2.99	15.48	0.01
14/ 34 (C)	50.12	-11.33	6183.89	12.88>>	57.57	0.02
14/ 37 (C)	13.47	-2.64	1689.66	2.99<<	15.48	0.01
14/ 34 (C)	50.12	-11.33	6183.89	12.88	57.57>>	0.02
14/ 37 (C)	13.47	-2.64	1689.66	2.99	15.48<<	0.01
14/ 34 (C)	50.12	-11.33	6183.89	12.88	57.57	0.02>>
14/ 37 (C)	13.47	-2.64	1689.66	2.99	15.48	0.01<<
15/ 37 (C)	-3.41>>	-2.36	1809.92	2.7	-3.9	0.01
15/ 34 (C)	-12.74<<	-10.41	6630.31	11.92	-14.56	0.03
15/ 37 (C)	-3.41	-2.36>>	1809.92	2.7	-3.9	0.01
15/ 34 (C)	-12.74	-10.41<<	6630.31	11.92	-14.56	0.03
15/ 34 (C)	-12.74	-10.41	6630.31>>	11.92	-14.56	0.03
15/ 37 (C)	-3.41	-2.36	1809.92<<	2.7	-3.9	0.01
15/ 34 (C)	-12.74	-10.41	6630.31	11.92>>	-14.56	0.03
15/ 37 (C)	-3.41	-2.36	1809.92	2.70<<	-3.9	0.01
15/ 37 (C)	-3.41	-2.36	1809.92	2.7	-3.90>>	0.01
15/ 34 (C)	-12.74	-10.41	6630.31	11.92	-14.56<<	0.03
15/ 34 (C)	-12.74	-10.41	6630.31	11.92	-14.56	0.03>>
15/ 37 (C)	-3.41	-2.36	1809.92	2.7	-3.9	0.01<<
16/ 34 (C)	0.08>>	-7.54	6426.29	8.69	0.25	0.01
16/ 37 (C)	0.02<<	-1.61	1755.19	1.86	0.07	0
16/ 37 (C)	0.02	-1.61>>	1755.19	1.86	0.07	0
16/ 34 (C)	0.08	-7.54<<	6426.29	8.69	0.25	0.01
16/ 34 (C)	0.08	-7.54	6426.29>>	8.69	0.25	0.01
16/ 37 (C)	0.02	-1.61	1755.19<<	1.86	0.07	0
16/ 34 (C)	0.08	-7.54	6426.29	8.69>>	0.25	0.01
16/ 37 (C)	0.02	-1.61	1755.19	1.86<<	0.07	0
16/ 34 (C)	0.08	-7.54	6426.29	8.69	0.25>>	0.01
16/ 37 (C)	0.02	-1.61	1755.19	1.86	0.07<<	0
16/ 34 (C)	0.08	-7.54	6426.29	8.69	0.25	0.01>>
16/ 37 (C)	0.02	-1.61	1755.19	1.86	0.07	0.00<<
17/ 34 (C)	16.41>>	-7.95	6719.91	9.08	19.05	-0.03
17/ 37 (C)	4.36<<	-1.72	1833.36	1.96	5.07	-0.01
17/ 37 (C)	4.36	-1.72>>	1833.36	1.96	5.07	-0.01
17/ 34 (C)	16.41	-7.95<<	6719.91	9.08	19.05	-0.03
17/ 34 (C)	16.41	-7.95	6719.91>>	9.08	19.05	-0.03
17/ 37 (C)	4.36	-1.72	1833.36<<	1.96	5.07	-0.01
17/ 34 (C)	16.41	-7.95	6719.91	9.08>>	19.05	-0.03
17/ 37 (C)	4.36	-1.72	1833.36	1.96<<	5.07	-0.01
17/ 34 (C)	16.41	-7.95	6719.91	9.08	19.05>>	-0.03
17/ 37 (C)	4.36	-1.72	1833.36	1.96	5.07<<	-0.01
17/ 37 (C)	4.36	-1.72	1833.36	1.96	5.07	-0.01>>
17/ 34 (C)	16.41	-7.95	6719.91	9.08	19.05	-0.03<<
18/ 37 (C)	-22.98>>	-3.72	1471.26	4.23	-26.32	-0.01
18/ 34 (C)	-86.23<<	-15.45	5361.97	17.59	-98.75	-0.05



18/ 37 (C)	-22.98	-3.72>>	1471.26	4.23	-26.32	-0.01
18/ 34 (C)	-86.23	-15.45<<	5361.97	17.59	-98.75	-0.05
18/ 34 (C)	-86.23	-15.45	5361.97>>	17.59	-98.75	-0.05
18/ 37 (C)	-22.98	-3.72	1471.26<<	4.23	-26.32	-0.01
18/ 34 (C)	-86.23	-15.45	5361.97	17.59>>	-98.75	-0.05
18/ 37 (C)	-22.98	-3.72	1471.26	4.23<<	-26.32	-0.01
18/ 37 (C)	-22.98	-3.72	1471.26	4.23	-26.32>>	-0.01
18/ 34 (C)	-86.23	-15.45	5361.97	17.59	-98.75<<	-0.05
18/ 37 (C)	-22.98	-3.72	1471.26	4.23	-26.32	-0.01>>
18/ 34 (C)	-86.23	-15.45	5361.97	17.59	-98.75	-0.05<<
19/ 34 (C)	87.25>>	-18.7	5412.26	21.3	100.45	-0.1
19/ 37 (C)	23.25<<	-4.56	1484.48	5.19	26.76	-0.03
19/ 37 (C)	23.25	-4.56>>	1484.48	5.19	26.76	-0.03
19/ 34 (C)	87.25	-18.70<<	5412.26	21.3	100.45	-0.1
19/ 34 (C)	87.25	-18.7	5412.26>>	21.3	100.45	-0.1
19/ 37 (C)	23.25	-4.56	1484.48<<	5.19	26.76	-0.03
19/ 34 (C)	87.25	-18.7	5412.26	21.30>>	100.45	-0.1
19/ 37 (C)	23.25	-4.56	1484.48	5.19<<	26.76	-0.03
19/ 34 (C)	87.25	-18.7	5412.26	21.3	100.45>>	-0.1
19/ 37 (C)	23.25	-4.56	1484.48	5.19	26.76<<	-0.03
19/ 37 (C)	23.25	-4.56	1484.48	5.19	26.76	-0.03>>
19/ 34 (C)	87.25	-18.7	5412.26	21.3	100.45	-0.10<<
20/ 37 (C)	-3.78>>	-2.58	1848.7	2.92	-4.28	-0.02
20/ 34 (C)	-14.21<<	-11.29	6778.2	12.77	-16.07	-0.08
20/ 37 (C)	-3.78	-2.58>>	1848.7	2.92	-4.28	-0.02
20/ 34 (C)	-14.21	-11.29<<	6778.2	12.77	-16.07	-0.08
20/ 34 (C)	-14.21	-11.29	6778.20>>	12.77	-16.07	-0.08
20/ 37 (C)	-3.78	-2.58	1848.70<<	2.92	-4.28	-0.02
20/ 34 (C)	-14.21	-11.29	6778.2	12.77>>	-16.07	-0.08
20/ 37 (C)	-3.78	-2.58	1848.7	2.92<<	-4.28	-0.02
20/ 37 (C)	-3.78	-2.58	1848.7	2.92	-4.28>>	-0.02
20/ 34 (C)	-14.21	-11.29	6778.2	12.77	-16.07<<	-0.08
20/ 37 (C)	-3.78	-2.58	1848.7	2.92	-4.28	-0.02>>
20/ 34 (C)	-14.21	-11.29	6778.2	12.77	-16.07	-0.08<<
21/ 37 (C)	-0.42>>	-1.93	1757.19	2.18	-0.41	-0.01
21/ 34 (C)	-1.61<<	-8.73	6433.73	9.92	-1.54	-0.03
21/ 37 (C)	-0.42	-1.93>>	1757.19	2.18	-0.41	-0.01
21/ 34 (C)	-1.61	-8.73<<	6433.73	9.92	-1.54	-0.03
21/ 34 (C)	-1.61	-8.73	6433.73>>	9.92	-1.54	-0.03
21/ 37 (C)	-0.42	-1.93	1757.19<<	2.18	-0.41	-0.01
21/ 34 (C)	-1.61	-8.73	6433.73	9.92>>	-1.54	-0.03
21/ 37 (C)	-0.42	-1.93	1757.19	2.18<<	-0.41	-0.01
21/ 37 (C)	-0.42	-1.93	1757.19	2.18	-0.41>>	-0.01
21/ 34 (C)	-1.61	-8.73	6433.73	9.92	-1.54<<	-0.03
21/ 37 (C)	-0.42	-1.93	1757.19	2.18	-0.41	-0.01>>



21/ 34 (C)	-1.61	-8.73	6433.73	9.92	-1.54	-0.03<<
22/ 34 (C)	17.82>>	-7.79	6716.75	8.81	20.8	-0.04
22/ 37 (C)	4.74<<	-1.67	1832.54	1.89	5.53	-0.01
22/ 37 (C)	4.74	-1.67>>	1832.54	1.89	5.53	-0.01
22/ 34 (C)	17.82	-7.79<<	6716.75	8.81	20.8	-0.04
22/ 34 (C)	17.82	-7.79	6716.75>>	8.81	20.8	-0.04
22/ 37 (C)	4.74	-1.67	1832.54<<	1.89	5.53	-0.01
22/ 34 (C)	17.82	-7.79	6716.75	8.81>>	20.8	-0.04
22/ 37 (C)	4.74	-1.67	1832.54	1.89<<	5.53	-0.01
22/ 34 (C)	17.82	-7.79	6716.75	8.81	20.80>>	-0.04
22/ 37 (C)	4.74	-1.67	1832.54	1.89	5.53<<	-0.01
22/ 37 (C)	4.74	-1.67	1832.54	1.89	5.53	-0.01>>
22/ 34 (C)	17.82	-7.79	6716.75	8.81	20.8	-0.04<<
23/ 37 (C)	-23.79>>	-3.76	1455.68	4.25	-27.21	-0.02
23/ 34 (C)	-89.26<<	-15.62	5303.39	17.69	-102.11	-0.06
23/ 37 (C)	-23.79	-3.76>>	1455.68	4.25	-27.21	-0.02
23/ 34 (C)	-89.26	-15.62<<	5303.39	17.69	-102.11	-0.06
23/ 34 (C)	-89.26	-15.62	5303.39>>	17.69	-102.11	-0.06
23/ 37 (C)	-23.79	-3.76	1455.68<<	4.25	-27.21	-0.02
23/ 34 (C)	-89.26	-15.62	5303.39	17.69>>	-102.11	-0.06
23/ 37 (C)	-23.79	-3.76	1455.68	4.25<<	-27.21	-0.02
23/ 37 (C)	-23.79	-3.76	1455.68	4.25	-27.21>>	-0.02
23/ 34 (C)	-89.26	-15.62	5303.39	17.69	-	-
23/ 37 (C)	-23.79	-3.76	1455.68	4.25	102.11<<	-0.06
23/ 34 (C)	-89.26	-15.62	5303.39	17.69	-102.11	-0.06<<
24/ 34 (C)	103.41>>	-18.1	5661.48	20.5	119.12	-0.1
24/ 37 (C)	27.54<<	-4.4	1550.79	4.97	31.73	-0.03
24/ 37 (C)	27.54	-4.40>>	1550.79	4.97	31.73	-0.03
24/ 34 (C)	103.41	-18.10<<	5661.48	20.5	119.12	-0.1
24/ 34 (C)	103.41	-18.1	5661.48>>	20.5	119.12	-0.1
24/ 37 (C)	27.54	-4.4	1550.79<<	4.97	31.73	-0.03
24/ 34 (C)	103.41	-18.1	5661.48	20.50>>	119.12	-0.1
24/ 37 (C)	27.54	-4.4	1550.79	4.97<<	31.73	-0.03
24/ 34 (C)	103.41	-18.1	5661.48	20.5	119.12>>	-0.1
24/ 37 (C)	27.54	-4.4	1550.79	4.97	31.73<<	-0.03
24/ 37 (C)	27.54	-4.4	1550.79	4.97	31.73	-0.03>>
24/ 34 (C)	103.41	-18.1	5661.48	20.5	119.12	-0.10<<
25/ 37 (C)	-27.82>>	-2.18	1519.38	2.41	-31.86	-0.02
25/ 34 (C)	-	-	-	-	-	-
25/ 34 (C)	104.44<<	-9.64	5543.25	10.7	-119.59	-0.09
25/ 37 (C)	-27.82	-2.18>>	1519.38	2.41	-31.86	-0.02
25/ 34 (C)	-104.44	-9.64<<	5543.25	10.7	-119.59	-0.09
25/ 34 (C)	-104.44	-9.64	5543.25>>	10.7	-119.59	-0.09
25/ 37 (C)	-27.82	-2.18	1519.38<<	2.41	-31.86	-0.02

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	105	126	0



25/ 34 (C)	-104.44	-9.64	5543.25	10.70>>	-119.59	-0.09
25/ 37 (C)	-27.82	-2.18	1519.38	2.41<<	-31.86	-0.02
25/ 37 (C)	-27.82	-2.18	1519.38	2.41	-31.86>>	-0.02
25/ 34 (C)	-104.44	-9.64	5543.25	10.7	-	-0.09
25/ 37 (C)	-27.82	-2.18	1519.38	2.41	119.59<<	-0.02>>
25/ 34 (C)	-104.44	-9.64	5543.25	10.7	-119.59	-0.09<<
26/ 34 (C)	101.76>>	-9.76	5415.25	10.85	117.19	-0.08
26/ 37 (C)	27.13<<	-2.23	1485.98	2.47	31.25	-0.02
26/ 37 (C)	27.13	-2.23>>	1485.98	2.47	31.25	-0.02
26/ 34 (C)	101.76	-9.76<<	5415.25	10.85	117.19	-0.08
26/ 34 (C)	101.76	-9.76	5415.25>>	10.85	117.19	-0.08
26/ 37 (C)	27.13	-2.23	1485.98<<	2.47	31.25	-0.02
26/ 34 (C)	101.76	-9.76	5415.25	10.85>>	117.19	-0.08
26/ 37 (C)	27.13	-2.23	1485.98	2.47<<	31.25	-0.02
26/ 34 (C)	101.76	-9.76	5415.25	10.85	117.19>>	-0.08
26/ 37 (C)	27.13	-2.23	1485.98	2.47	31.25<<	-0.02
26/ 37 (C)	27.13	-2.23	1485.98	2.47	31.25	-0.02>>
26/ 34 (C)	101.76	-9.76	5415.25	10.85	117.19	-0.08<<
27/ 37 (C)	-29.47>>	-10.3	1382.87	11.75	-33.79	-0.03
27/ 34 (C)	-	-39.99	5026.76	45.6	-	-0.11
27/ 37 (C)	-29.47	-10.30>>	1382.87	11.75	-33.79	-0.03
27/ 34 (C)	-110.43	-39.99<<	5026.76	45.6	-126.62	-0.11
27/ 34 (C)	-110.43	-39.99	5026.76>>	45.6	-126.62	-0.11
27/ 37 (C)	-29.47	-10.3	1382.87<<	11.75	-33.79	-0.03
27/ 34 (C)	-110.43	-39.99	5026.76	45.60>>	-126.62	-0.11
27/ 37 (C)	-29.47	-10.3	1382.87	11.75<<	-33.79	-0.03
27/ 37 (C)	-29.47	-10.3	1382.87	11.75	-33.79>>	-0.03
27/ 34 (C)	-110.43	-39.99	5026.76	45.6	-	-0.11
27/ 37 (C)	-29.47	-10.3	1382.87	11.75	126.62<<	-0.03>>
27/ 34 (C)	-110.43	-39.99	5026.76	45.6	-126.62	-0.11<<
28/ 34 (C)	59.01>>	41.51	6672.94	-48.1	67.93	0.34
28/ 37 (C)	15.80<<	10.47	1815.27	-12.14	18.19	0.09
28/ 34 (C)	59.01	41.51>>	6672.94	-48.1	67.93	0.34
28/ 37 (C)	15.8	10.47<<	1815.27	-12.14	18.19	0.09
28/ 34 (C)	59.01	41.51	6672.94>>	-48.1	67.93	0.34
28/ 37 (C)	15.8	10.47	1815.27<<	-12.14	18.19	0.09
28/ 37 (C)	15.8	10.47	1815.27	-12.14>>	18.19	0.09
28/ 34 (C)	59.01	41.51	6672.94	-48.10<<	67.93	0.34
28/ 34 (C)	59.01	41.51	6672.94	-48.1	67.93>>	0.34
28/ 37 (C)	15.8	10.47	1815.27	-12.14	18.19<<	0.09
28/ 34 (C)	59.01	41.51	6672.94	-48.1	67.93	0.34>>
28/ 37 (C)	15.8	10.47	1815.27	-12.14	18.19	0.09<<



29/ 37 (C)	-5.84>>	5.62	1860.17	-6.44	-6.62	0.04
29/ 34 (C)	-22.01<<	23.06	6830.97	-26.41	-24.96	0.16
29/ 34 (C)	-22.01	23.06>>	6830.97	-26.41	-24.96	0.16
29/ 37 (C)	-5.84	5.62<<	1860.17	-6.44	-6.62	0.04
29/ 34 (C)	-22.01	23.06	6830.97>>	-26.41	-24.96	0.16
29/ 37 (C)	-5.84	5.62	1860.17<<	-6.44	-6.62	0.04
29/ 37 (C)	-5.84	5.62	1860.17	-6.44>>	-6.62	0.04
29/ 34 (C)	-22.01	23.06	6830.97	-26.41<<	-24.96	0.16
29/ 37 (C)	-5.84	5.62	1860.17	-6.44	-6.62>>	0.04
29/ 34 (C)	-22.01	23.06	6830.97	-26.41	-24.96<<	0.16
29/ 34 (C)	-22.01	23.06	6830.97	-26.41	-24.96	0.16>>
29/ 37 (C)	-5.84	5.62	1860.17	-6.44	-6.62	0.04<<
30/ 34 (C)	4.61>>	13.56	6502.34	-15.47	5.61	0.05
30/ 37 (C)	1.22<<	3.14	1772.74	-3.57	1.48	0.01
30/ 34 (C)	4.61	13.56>>	6502.34	-15.47	5.61	0.05
30/ 37 (C)	1.22	3.14<<	1772.74	-3.57	1.48	0.01
30/ 34 (C)	4.61	13.56	6502.34>>	-15.47	5.61	0.05
30/ 37 (C)	1.22	3.14	1772.74<<	-3.57	1.48	0.01
30/ 37 (C)	1.22	3.14	1772.74	-3.57>>	1.48	0.01
30/ 34 (C)	4.61	13.56	6502.34	-15.47<<	5.61	0.05
30/ 34 (C)	4.61	13.56	6502.34	-15.47	5.61>>	0.05
30/ 37 (C)	1.22	3.14	1772.74	-3.57	1.48<<	0.01
30/ 34 (C)	4.61	13.56	6502.34	-15.47	5.61	0.05>>
30/ 37 (C)	1.22	3.14	1772.74	-3.57	1.48	0.01<<
31/ 34 (C)	13.44>>	14.27	6807.66	-16.39	15.7	-0.01
31/ 37 (C)	3.59<<	3.32	1853.95	-3.81	4.19	0
31/ 34 (C)	13.44	14.27>>	6807.66	-16.39	15.7	-0.01
31/ 37 (C)	3.59	3.32<<	1853.95	-3.81	4.19	0
31/ 34 (C)	13.44	14.27	6807.66>>	-16.39	15.7	-0.01
31/ 37 (C)	3.59	3.32	1853.95<<	-3.81	4.19	0
31/ 37 (C)	3.59	3.32	1853.95	-3.81>>	4.19	0
31/ 34 (C)	13.44	14.27	6807.66	-16.39<<	15.7	-0.01
31/ 34 (C)	13.44	14.27	6807.66	-16.39	15.70>>	-0.01
31/ 37 (C)	3.59	3.32	1853.95	-3.81	4.19<<	0
31/ 37 (C)	3.59	3.32	1853.95	-3.81	4.19	-0.00>>
31/ 34 (C)	13.44	14.27	6807.66	-16.39	15.7	-0.01<<
32/ 37 (C)	-22.02>>	6.06	1497.86	-7.03	-25.2	-0.02
32/ 34 (C)	-82.66<<	24.63	5471.07	-28.52	-94.59	-0.07
32/ 34 (C)	-82.66	24.63>>	5471.07	-28.52	-94.59	-0.07
32/ 37 (C)	-22.02	6.06<<	1497.86	-7.03	-25.2	-0.02
32/ 34 (C)	-82.66	24.63	5471.07>>	-28.52	-94.59	-0.07
32/ 37 (C)	-22.02	6.06	1497.86<<	-7.03	-25.2	-0.02
32/ 37 (C)	-22.02	6.06	1497.86	-7.03>>	-25.2	-0.02
32/ 34 (C)	-82.66	24.63	5471.07	-28.52<<	-94.59	-0.07
32/ 37 (C)	-22.02	6.06	1497.86	-7.03	-25.20>>	-0.02



32/ 34 (C)	-82.66	24.63	5471.07	-28.52	-94.59<<	-0.07
32/ 37 (C)	-22.02	6.06	1497.86	-7.03	-25.2	-0.02>>
32/ 34 (C)	-82.66	24.63	5471.07	-28.52	-94.59	-0.07<<
33/ 34 (C)	83.63>>	30.68	5557.1	-35.75	96.38	-0.09
33/ 37 (C)	22.26<<	7.61	1519.75	-8.87	25.66	-0.02
33/ 34 (C)	83.63	30.68>>	5557.1	-35.75	96.38	-0.09
33/ 37 (C)	22.26	7.61<<	1519.75	-8.87	25.66	-0.02
33/ 34 (C)	83.63	30.68	5557.10>>	-35.75	96.38	-0.09
33/ 37 (C)	22.26	7.61	1519.75<<	-8.87	25.66	-0.02
33/ 37 (C)	22.26	7.61	1519.75	-8.87>>	25.66	-0.02
33/ 34 (C)	83.63	30.68	5557.1	-35.75<<	96.38	-0.09
33/ 34 (C)	83.63	30.68	5557.1	-35.75	96.38>>	-0.09
33/ 37 (C)	22.26	7.61	1519.75	-8.87	25.66<<	-0.02
33/ 37 (C)	22.26	7.61	1519.75	-8.87	25.66	-0.02>>
33/ 34 (C)	83.63	30.68	5557.1	-35.75	96.38	-0.09<<
34/ 37 (C)	-2.83>>	3.65	1855.47	-4.24	-3.17	-0.02
34/ 34 (C)	-10.66<<	15.6	6814.01	-18.12	-11.93	-0.06
34/ 34 (C)	-10.66	15.60>>	6814.01	-18.12	-11.93	-0.06
34/ 37 (C)	-2.83	3.65<<	1855.47	-4.24	-3.17	-0.02
34/ 34 (C)	-10.66	15.6	6814.01>>	-18.12	-11.93	-0.06
34/ 37 (C)	-2.83	3.65	1855.47<<	-4.24	-3.17	-0.02
34/ 37 (C)	-2.83	3.65	1855.47	-4.24>>	-3.17	-0.02
34/ 34 (C)	-10.66	15.6	6814.01	-18.12<<	-11.93	-0.06
34/ 37 (C)	-2.83	3.65	1855.47	-4.24	-3.17>>	-0.02
34/ 34 (C)	-10.66	15.6	6814.01	-18.12	-11.93<<	-0.06
34/ 37 (C)	-2.83	3.65	1855.47	-4.24	-3.17	-0.02>>
34/ 34 (C)	-10.66	15.6	6814.01	-18.12	-11.93	-0.06<<
35/ 37 (C)	-0.71>>	3.74	1783.06	-4.3	-0.72	-0.01
35/ 34 (C)	-2.68<<	15.88	6541.38	-18.25	-2.71	-0.02
35/ 34 (C)	-2.68	15.88>>	6541.38	-18.25	-2.71	-0.02
35/ 37 (C)	-0.71	3.74<<	1783.06	-4.3	-0.72	-0.01
35/ 34 (C)	-2.68	15.88	6541.38>>	-18.25	-2.71	-0.02
35/ 37 (C)	-0.71	3.74	1783.06<<	-4.3	-0.72	-0.01
35/ 37 (C)	-0.71	3.74	1783.06	-4.30>>	-0.72	-0.01
35/ 34 (C)	-2.68	15.88	6541.38	-18.25<<	-2.71	-0.02
35/ 37 (C)	-0.71	3.74	1783.06	-4.3	-0.72>>	-0.01
35/ 34 (C)	-2.68	15.88	6541.38	-18.25	-2.71<<	-0.02
35/ 37 (C)	-0.71	3.74	1783.06	-4.3	-0.72	-0.01>>
35/ 34 (C)	-2.68	15.88	6541.38	-18.25	-2.71	-0.02<<
36/ 34 (C)	16.53>>	14.19	6796.19	-16.36	19.33	-0.02
36/ 37 (C)	4.40<<	3.29	1850.96	-3.8	5.15	0
36/ 34 (C)	16.53	14.19>>	6796.19	-16.36	19.33	-0.02
36/ 37 (C)	4.4	3.29<<	1850.96	-3.8	5.15	0
36/ 34 (C)	16.53	14.19	6796.19>>	-16.36	19.33	-0.02
36/ 37 (C)	4.4	3.29	1850.96<<	-3.8	5.15	0



36/ 37 (C)	4.4	3.29	1850.96	-3.80>>	5.15	0
36/ 34 (C)	16.53	14.19	6796.19	-16.36<<	19.33	-0.02
36/ 34 (C)	16.53	14.19	6796.19	-16.36	19.33>>	-0.02
36/ 37 (C)	4.4	3.29	1850.96	-3.8	5.15<<	0
36/ 37 (C)	4.4	3.29	1850.96	-3.8	5.15	-0.00>>
36/ 34 (C)	16.53	14.19	6796.19	-16.36	19.33	-0.02<<
37/ 37 (C)	-22.80>>	6.15	1479.64	-7.16	-26.06	0
37/ 34 (C)	-85.59<<	24.96	5402.54	-29.02	-97.83	0
37/ 34 (C)	-85.59	24.96>>	5402.54	-29.02	-97.83	0
37/ 37 (C)	-22.8	6.15<<	1479.64	-7.16	-26.06	0
37/ 34 (C)	-85.59	24.96	5402.54>>	-29.02	-97.83	0
37/ 37 (C)	-22.8	6.15	1479.64<<	-7.16	-26.06	0
37/ 37 (C)	-22.8	6.15	1479.64	-7.16>>	-26.06	0
37/ 34 (C)	-85.59	24.96	5402.54	-29.02<<	-97.83	0
37/ 37 (C)	-22.8	6.15	1479.64	-7.16	-26.06>>	0
37/ 34 (C)	-85.59	24.96	5402.54	-29.02	-97.83<<	0
37/ 34 (C)	-85.59	24.96	5402.54	-29.02	-97.83	0.00>>
37/ 37 (C)	-22.8	6.15	1479.64	-7.16	-26.06	0.00<<
38/ 34 (C)	100.43>>	30.44	5805.34	-35.67	115.81	0.02
38/ 37 (C)	26.73<<	7.54	1585.74	-8.85	30.82	0.01
38/ 34 (C)	100.43	30.44>>	5805.34	-35.67	115.81	0.02
38/ 37 (C)	26.73	7.54<<	1585.74	-8.85	30.82	0.01
38/ 34 (C)	100.43	30.44	5805.34>>	-35.67	115.81	0.02
38/ 37 (C)	26.73	7.54	1585.74<<	-8.85	30.82	0.01
38/ 37 (C)	26.73	7.54	1585.74	-8.85>>	30.82	0.01
38/ 34 (C)	100.43	30.44	5805.34	-35.67<<	115.81	0.02
38/ 34 (C)	100.43	30.44	5805.34	-35.67	115.81>>	0.02
38/ 37 (C)	26.73	7.54	1585.74	-8.85	30.82<<	0.01
38/ 34 (C)	100.43	30.44	5805.34	-35.67	115.81	0.02>>
38/ 37 (C)	26.73	7.54	1585.74	-8.85	30.82	0.01<<
39/ 37 (C)	-27.41>>	3.27	1513.26	-3.87	-31.36	-0.01
39/ 34 (C)	-	14.04	5528.31	-16.55	-117.88	-0.04
39/ 34 (C)	-103.05	14.04>>	5528.31	-16.55	-117.88	-0.04
39/ 37 (C)	-27.41	3.27<<	1513.26	-3.87	-31.36	-0.01
39/ 34 (C)	-103.05	14.04	5528.31>>	-16.55	-117.88	-0.04
39/ 37 (C)	-27.41	3.27	1513.26<<	-3.87	-31.36	-0.01
39/ 37 (C)	-27.41	3.27	1513.26	-3.87>>	-31.36	-0.01
39/ 34 (C)	-103.05	14.04	5528.31	-16.55<<	-117.88	-0.04
39/ 37 (C)	-27.41	3.27	1513.26	-3.87	-31.36>>	-0.01
39/ 34 (C)	-103.05	14.04	5528.31	-16.55	-	-
39/ 34 (C)	-103.05	14.04	5528.31	-16.55	117.88<<	-0.04
39/ 37 (C)	-27.41	3.27	1513.26	-3.87	-31.36	-0.01>>
39/ 34 (C)	-103.05	14.04	5528.31	-16.55	-117.88	-0.04<<
40/ 34 (C)	105.71>>	24.46	5572.68	-28.46	121.95	-0.12



40/ 37 (C)	28.12<<	6.03	1524.99	-7.02	32.44	-0.03
40/ 34 (C)	105.71	24.46>>	5572.68	-28.46	121.95	-0.12
40/ 37 (C)	28.12	6.03<<	1524.99	-7.02	32.44	-0.03
40/ 34 (C)	105.71	24.46	5572.68>>	-28.46	121.95	-0.12
40/ 37 (C)	28.12	6.03	1524.99<<	-7.02	32.44	-0.03
40/ 37 (C)	28.12	6.03	1524.99	-7.02>>	32.44	-0.03
40/ 34 (C)	105.71	24.46	5572.68	-28.46<<	121.95	-0.12
40/ 34 (C)	105.71	24.46	5572.68	-28.46	121.95>>	-0.12
40/ 37 (C)	28.12	6.03	1524.99	-7.02	32.44<<	-0.03
40/ 37 (C)	28.12	6.03	1524.99	-7.02	32.44	-0.03>>
40/ 34 (C)	105.71	24.46	5572.68	-28.46	121.95	-0.12<<
41/ 37 (C)	-12.47>>	17.9	1892.08	-20.73	-14.21	-0.05
41/ 34 (C)	-46.57<<	69.23	6961.65	-80.18	-53.06	-0.2
41/ 34 (C)	-46.57	69.23>>	6961.65	-80.18	-53.06	-0.2
41/ 37 (C)	-12.47	17.90<<	1892.08	-20.73	-14.21	-0.05
41/ 34 (C)	-46.57	69.23	6961.65>>	-80.18	-53.06	-0.2
41/ 37 (C)	-12.47	17.9	1892.08<<	-20.73	-14.21	-0.05
41/ 37 (C)	-12.47	17.9	1892.08	-20.73>>	-14.21	-0.05
41/ 34 (C)	-46.57	69.23	6961.65	-80.18<<	-53.06	-0.2
41/ 37 (C)	-12.47	17.9	1892.08	-20.73	-14.21>>	-0.05
41/ 34 (C)	-46.57	69.23	6961.65	-80.18	-53.06<<	-0.2
41/ 37 (C)	-12.47	17.9	1892.08	-20.73	-14.21	-0.05>>
41/ 34 (C)	-46.57	69.23	6961.65	-80.18	-53.06	-0.20<<
42/ 37 (C)	-12.42>>	-17.45	1784.09	20.1	-13.95	0.05
42/ 34 (C)	-47.27<<	-64.96	6634.72	74.81	-53.11	0.2
42/ 37 (C)	-12.42	-17.45>>	1784.09	20.1	-13.95	0.05
42/ 34 (C)	-47.27	-64.96<<	6634.72	74.81	-53.11	0.2
42/ 34 (C)	-47.27	-64.96	6634.72>>	74.81	-53.11	0.2
42/ 37 (C)	-12.42	-17.45	1784.09<<	20.1	-13.95	0.05
42/ 34 (C)	-47.27	-64.96	6634.72	74.81>>	-53.11	0.2
42/ 37 (C)	-12.42	-17.45	1784.09	20.10<<	-13.95	0.05
42/ 37 (C)	-12.42	-17.45	1784.09	20.1	-13.95>>	0.05
42/ 34 (C)	-47.27	-64.96	6634.72	74.81	-53.11<<	0.2
42/ 34 (C)	-47.27	-64.96	6634.72	74.81	-53.11	0.20>>
42/ 37 (C)	-12.42	-17.45	1784.09	20.1	-13.95	0.05<<
43/ 34 (C)	8.13>>	-57.83	5899.67	66.43	9.72	0.1
43/ 37 (C)	2.14<<	-15.58	1590.8	17.89	2.56	0.03
43/ 37 (C)	2.14	-15.58>>	1590.8	17.89	2.56	0.03
43/ 34 (C)	8.13	-57.83<<	5899.67	66.43	9.72	0.1
43/ 34 (C)	8.13	-57.83	5899.67>>	66.43	9.72	0.1
43/ 37 (C)	2.14	-15.58	1590.80<<	17.89	2.56	0.03
43/ 34 (C)	8.13	-57.83	5899.67	66.43>>	9.72	0.1
43/ 37 (C)	2.14	-15.58	1590.8	17.89<<	2.56	0.03
43/ 34 (C)	8.13	-57.83	5899.67	66.43	9.72>>	0.1
43/ 37 (C)	2.14	-15.58	1590.8	17.89	2.56<<	0.03



43/ 34 (C)	8.13	-57.83	5899.67	66.43	9.72	0.10>>
43/ 37 (C)	2.14	-15.58	1590.8	17.89	2.56	0.03<<
44/ 34 (C)	5.73>>	-60.95	6134.71	69.97	6.66	0.02
44/ 37 (C)	1.53<<	-16.4	1652.89	18.83	1.77	0.01
44/ 37 (C)	1.53	-16.40>>	1652.89	18.83	1.77	0.01
44/ 34 (C)	5.73	-60.95<<	6134.71	69.97	6.66	0.02
44/ 34 (C)	5.73	-60.95	6134.71>>	69.97	6.66	0.02
44/ 37 (C)	1.53	-16.4	1652.89<<	18.83	1.77	0.01
44/ 34 (C)	5.73	-60.95	6134.71	69.97>>	6.66	0.02
44/ 37 (C)	1.53	-16.4	1652.89	18.83<<	1.77	0.01
44/ 34 (C)	5.73	-60.95	6134.71	69.97	6.66>>	0.02
44/ 37 (C)	1.53	-16.4	1652.89	18.83	1.77<<	0.01
44/ 34 (C)	5.73	-60.95	6134.71	69.97	6.66	0.02>>
44/ 37 (C)	1.53	-16.4	1652.89	18.83	1.77	0.01<<
45/ 37 (C)	-10.52>>	-16.16	1505.7	18.53	-12.16	-0.01
45/ 34 (C)	-39.72<<	-60.22	5578.27	69.05	-45.88	-0.04
45/ 37 (C)	-10.52	-16.16>>	1505.7	18.53	-12.16	-0.01
45/ 34 (C)	-39.72	-60.22<<	5578.27	69.05	-45.88	-0.04
45/ 34 (C)	-39.72	-60.22	5578.27>>	69.05	-45.88	-0.04
45/ 37 (C)	-10.52	-16.16	1505.70<<	18.53	-12.16	-0.01
45/ 34 (C)	-39.72	-60.22	5578.27	69.05>>	-45.88	-0.04
45/ 37 (C)	-10.52	-16.16	1505.7	18.53<<	-12.16	-0.01
45/ 37 (C)	-10.52	-16.16	1505.7	18.53	-12.16>>	-0.01
45/ 34 (C)	-39.72	-60.22	5578.27	69.05	-45.88<<	-0.04
45/ 37 (C)	-10.52	-16.16	1505.7	18.53	-12.16	-0.01>>
45/ 34 (C)	-39.72	-60.22	5578.27	69.05	-45.88	-0.04<<
46/ 34 (C)	31.22>>	-68.83	5666.78	79.08	37	-0.05
46/ 37 (C)	8.25<<	-18.45	1529.35	21.2	9.78	-0.01
46/ 37 (C)	8.25	-18.45>>	1529.35	21.2	9.78	-0.01
46/ 34 (C)	31.22	-68.83<<	5666.78	79.08	37	-0.05
46/ 34 (C)	31.22	-68.83	5666.78>>	79.08	37	-0.05
46/ 37 (C)	8.25	-18.45	1529.35<<	21.2	9.78	-0.01
46/ 34 (C)	31.22	-68.83	5666.78	79.08>>	37	-0.05
46/ 37 (C)	8.25	-18.45	1529.35	21.20<<	9.78	-0.01
46/ 34 (C)	31.22	-68.83	5666.78	79.08	37.00>>	-0.05
46/ 37 (C)	8.25	-18.45	1529.35	21.2	9.78<<	-0.01
46/ 37 (C)	8.25	-18.45	1529.35	21.2	9.78	-0.01>>
46/ 34 (C)	31.22	-68.83	5666.78	79.08	37	-0.05<<
47/ 37 (C)	-1.59>>	-15.87	1630.05	18.22	-1.72	0
47/ 34 (C)	-6.01<<	-58.93	6048.71	67.66	-6.5	0.02
47/ 37 (C)	-1.59	-15.87>>	1630.05	18.22	-1.72	0
47/ 34 (C)	-6.01	-58.93<<	6048.71	67.66	-6.5	0.02
47/ 34 (C)	-6.01	-58.93	6048.71>>	67.66	-6.5	0.02
47/ 37 (C)	-1.59	-15.87	1630.05<<	18.22	-1.72	0
47/ 34 (C)	-6.01	-58.93	6048.71	67.66>>	-6.5	0.02

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47/ 37 (C)	-1.59	-15.87	1630.05	18.22<<	-1.72	0
47/ 37 (C)	-1.59	-15.87	1630.05	18.22	-1.72>>	0
47/ 34 (C)	-6.01	-58.93	6048.71	67.66	-6.50<<	0.02
47/ 34 (C)	-6.01	-58.93	6048.71	67.66	-6.5	0.02>>
47/ 37 (C)	-1.59	-15.87	1630.05	18.22	-1.72	0.00<<
48/ 34 (C)	9.02>>	-60.61	6110.86	69.56	10.45	0.03
48/ 37 (C)	2.39<<	-16.31	1646.58	18.72	2.77	0.01
48/ 37 (C)	2.39	-16.31>>	1646.58	18.72	2.77	0.01
48/ 34 (C)	9.02	-60.61<<	6110.86	69.56	10.45	0.03
48/ 34 (C)	9.02	-60.61	6110.86>>	69.56	10.45	0.03
48/ 37 (C)	2.39	-16.31	1646.58<<	18.72	2.77	0.01
48/ 34 (C)	9.02	-60.61	6110.86	69.56>>	10.45	0.03
48/ 37 (C)	2.39	-16.31	1646.58	18.72<<	2.77	0.01
48/ 34 (C)	9.02	-60.61	6110.86	69.56	10.45>>	0.03
48/ 37 (C)	2.39	-16.31	1646.58	18.72	2.77<<	0.01
48/ 34 (C)	9.02	-60.61	6110.86	69.56	10.45	0.03>>
48/ 37 (C)	2.39	-16.31	1646.58	18.72	2.77	0.01<<
49/ 37 (C)	-10.71>>	-16.05	1500.29	18.39	-12.38	0.03
49/ 34 (C)	-40.44<<	-59.8	5557.82	68.52	-46.73	0.09
49/ 37 (C)	-10.71	-16.05>>	1500.29	18.39	-12.38	0.03
49/ 34 (C)	-40.44	-59.80<<	5557.82	68.52	-46.73	0.09
49/ 34 (C)	-40.44	-59.8	5557.82>>	68.52	-46.73	0.09
49/ 37 (C)	-10.71	-16.05	1500.29<<	18.39	-12.38	0.03
49/ 34 (C)	-40.44	-59.8	5557.82	68.52>>	-46.73	0.09
49/ 37 (C)	-10.71	-16.05	1500.29	18.39<<	-12.38	0.03
49/ 37 (C)	-10.71	-16.05	1500.29	18.39	-12.38>>	0.03
49/ 34 (C)	-40.44	-59.8	5557.82	68.52	-46.73<<	0.09
49/ 34 (C)	-40.44	-59.8	5557.82	68.52	-46.73	0.09>>
49/ 37 (C)	-10.71	-16.05	1500.29	18.39	-12.38	0.03<<
51/ 37 (C)	-12.21>>	-16.06	1206.11	18.43	-13.66	0
51/ 34 (C)	-46.52<<	-59.84	4437.65	68.67	-52.08	-0.01
51/ 37 (C)	-12.21	-16.06>>	1206.11	18.43	-13.66	0
51/ 34 (C)	-46.52	-59.84<<	4437.65	68.67	-52.08	-0.01
51/ 34 (C)	-46.52	-59.84	4437.65>>	68.67	-52.08	-0.01
51/ 37 (C)	-12.21	-16.06	1206.11<<	18.43	-13.66	0
51/ 34 (C)	-46.52	-59.84	4437.65	68.67>>	-52.08	-0.01
51/ 37 (C)	-12.21	-16.06	1206.11	18.43<<	-13.66	0
51/ 37 (C)	-12.21	-16.06	1206.11	18.43	-13.66>>	0
51/ 34 (C)	-46.52	-59.84	4437.65	68.67	-52.08<<	-0.01
51/ 37 (C)	-12.21	-16.06	1206.11	18.43	-13.66	-0.00>>
51/ 34 (C)	-46.52	-59.84	4437.65	68.67	-52.08	-0.01<<
52/ 34 (C)	98.93>>	-60.19	5505.85	68.94	114.35	-0.13
52/ 37 (C)	26.02<<	-16.17	1487.28	18.52	30.08	-0.04
52/ 37 (C)	26.02	-16.17>>	1487.28	18.52	30.08	-0.04
52/ 34 (C)	98.93	-60.19<<	5505.85	68.94	114.35	-0.13

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	112	126	0

52/ 34 (C)	98.93	-60.19	5505.85>>	68.94	114.35	-0.13
52/ 37 (C)	26.02	-16.17	1487.28<<	18.52	30.08	-0.04
52/ 34 (C)	98.93	-60.19	5505.85	68.94>>	114.35	-0.13
52/ 37 (C)	26.02	-16.17	1487.28	18.52<<	30.08	-0.04
52/ 34 (C)	98.93	-60.19	5505.85	68.94	114.35>>	-0.13
52/ 37 (C)	26.02	-16.17	1487.28	18.52	30.08<<	-0.04
52/ 37 (C)	26.02	-16.17	1487.28	18.52	30.08	-0.04>>
52/ 34 (C)	98.93	-60.19	5505.85	68.94	114.35	-0.13<<
53/ 34 (C)	70.87>>	-87.66	3967.9	100.44	81.52	-0.17
53/ 37 (C)	18.69<<	-23.12	1093.44	26.49	21.5	-0.05
53/ 37 (C)	18.69	-23.12>>	1093.44	26.49	21.5	-0.05
53/ 34 (C)	70.87	-87.66<<	3967.9	100.44	81.52	-0.17
53/ 34 (C)	70.87	-87.66	3967.90>>	100.44	81.52	-0.17
53/ 37 (C)	18.69	-23.12	1093.44<<	26.49	21.5	-0.05
53/ 34 (C)	70.87	-87.66	3967.9	100.44>>	81.52	-0.17
53/ 37 (C)	18.69	-23.12	1093.44	26.49<<	21.5	-0.05
53/ 34 (C)	70.87	-87.66	3967.9	100.44	81.52>>	-0.17
53/ 37 (C)	18.69	-23.12	1093.44	26.49	21.50<<	-0.05
53/ 37 (C)	18.69	-23.12	1093.44	26.49	21.5	-0.05>>
53/ 34 (C)	70.87	-87.66	3967.9	100.44	81.52	-0.17<<
56/ 34 (C)	23.75>>	17.67	7261.94	-20.41	27.36	-0.11
56/ 37 (C)	6.19<<	5.13	1951.32	-5.92	7.13	-0.03
56/ 34 (C)	23.75	17.67>>	7261.94	-20.41	27.36	-0.11
56/ 37 (C)	6.19	5.13<<	1951.32	-5.92	7.13	-0.03
56/ 34 (C)	23.75	17.67	7261.94>>	-20.41	27.36	-0.11
56/ 37 (C)	6.19	5.13	1951.32<<	-5.92	7.13	-0.03
56/ 37 (C)	6.19	5.13	1951.32	-5.92>>	7.13	-0.03
56/ 34 (C)	23.75	17.67	7261.94	-20.41<<	27.36	-0.11
56/ 34 (C)	23.75	17.67	7261.94	-20.41	27.36>>	-0.11
56/ 37 (C)	6.19	5.13	1951.32	-5.92	7.13<<	-0.03
56/ 37 (C)	6.19	5.13	1951.32	-5.92	7.13	-0.03>>
56/ 34 (C)	23.75	17.67	7261.94	-20.41	27.36	-0.11<<

1.7. Pamatų geometrijos parinkimas

1.7.1. Pamato po kolonomis parinkimas

Projektuojami poliniai pamatai su galvena po vidinėmis kolonomis. Galvenos matmenys 4,5x4,5x0,8m. Poliai 600mm skersmens 8 vnt. Poliai remiami į abs. Alt +58.65 (IGS 8) polių geometriniis ilgis 5m. Mažiausias grunto kūginis stipris $q_c=3,1\text{MPa}$; šoninė trintis $f_s=10\text{--}138\text{ kPa}$ pagal sluoksnius.

Reakcijos po vidinėmis kolonomis pateiktos gaubtinėse.

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	113	126	0

Polių reakcijos:

Galvenos matmenys:

$$b := 4.5 \text{ m}$$

$$h := 0.8 \text{ m}$$

$$l := 4.5 \text{ m}$$

Pamato galvenos svoris:

$$N_p := 24 \cdot b \cdot h \cdot l = 388.8 \text{ kN}$$

Jėgos pečiai pagal polių išdėstymą:

$$x := 1.82 \text{ m}$$

$$y := 1.82 \text{ m}$$

Polių skaičius:

$$n := 8$$

A1 projektavimo atvejis:

Veikiant didžiausiai ašinei jėgai:

Pamato viršuje veikiančios įrašos:

$$N_{Ed} := 3139 \text{ kN}$$

$$M_{Ed,x} := 78 \text{ kNm}$$

$$M_{Ed,y} := 22 \text{ kNm}$$

$$V_{Ed,x} := 21 \text{ kN}$$

$$V_{Ed,y} := 61 \text{ kN}$$

Didžiausia polio ašinė jėga:

$$F_{Ed,1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 471.305 \text{ kN}$$

Mažiausia polio ašinė jėga:

$$F_{Ed,2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 410.645 \text{ kN}$$

Veikiant didžiausiam momentui ir skersinei jėgai:

Pamato viršuje veikiančios įrašos:

$$N_{Ed} := 1526 \text{ kN}$$

$$M_{Ed,x} := 100 \text{ kNm}$$

$$M_{Ed,y} := 6 \text{ kNm}$$

$$V_{Ed,x} := 7 \text{ kN}$$

$$V_{Ed,y} := 87 \text{ kN}$$

Didžiausia polio ašinė jėga:

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	114	126	0

$$F_{Ed1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Edx} + V_{Edy} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Edy} + V_{Edx} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 272.537 \quad \text{kN}$$

Mažiausia polio ašinė jėga:

$$F_{Ed2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Edx} + V_{Edy} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Edy} + V_{Edx} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 206.163 \quad \text{kN}$$

A2 projektavimo atvejis:

Veikiant didžiausiai ašinei jėgai:

Pamato viršuje veikiančios jėgos:

$$N_{Ed} := 2580 \quad \text{kN}$$

$$M_{Edx} := 68 \quad \text{kNm}$$

$$M_{Edy} := 17 \quad \text{kNm}$$

$$V_{Edx} := 16 \quad \text{kN}$$

$$V_{Edy} := 53 \quad \text{kN}$$

Didžiausia polio ašinė jėga:

$$F_{Ed1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Edx} + V_{Edy} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Edy} + V_{Edx} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 396.778 \quad \text{kN}$$

Mažiausia polio ašinė jėga:

$$F_{Ed2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Edx} + V_{Edy} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Edy} + V_{Edx} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 345.422 \quad \text{kN}$$

Veikiant didžiausiam momentui ir skersinei jėgai:

Pamato viršuje veikiančios jėgos:

$$N_{Ed} := 1260 \quad \text{kN}$$

$$M_{Edx} := 83 \quad \text{kNm}$$

$$M_{Edy} := 4 \quad \text{kNm}$$

$$V_{Edx} := 4 \quad \text{kN}$$

$$V_{Edy} := 72 \quad \text{kN}$$

Didžiausia polio ašinė jėga:

$$F_{Ed1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Edx} + V_{Edy} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Edy} + V_{Edx} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 233.17 \quad \text{kN}$$

Mažiausia polio ašinė jėga:

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	115	126	0

$$F_{Ed2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 179.03 \quad \text{kN}$$

[patingų poveikių A1 projektavimo atvejis:

Veikiant didžiausiai ašinei jėgai:

Pamato viršuje veikiančios įrašos:

$$N_{Ed} := 7115 \quad \text{kN}$$

$$M_{Ed,x} := 36 \quad \text{kNm}$$

$$M_{Ed,y} := 32 \quad \text{kNm}$$

$$V_{Ed,x} := 28 \quad \text{kN}$$

$$V_{Ed,y} := 31 \quad \text{kN}$$

Didžiausia polio ašinė jėga:

$$F_{Ed1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 959.074 \quad \text{kN}$$

Mažiausia polio ašinė jėga:

$$F_{Ed2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 916.876 \quad \text{kN}$$

Veikiant didžiausiam momentui ir skersinei jėgai:

Pamato viršuje veikiančios įrašos:

$$N_{Ed} := 3401 \quad \text{kN}$$

$$M_{Ed,x} := 224 \quad \text{kNm}$$

$$M_{Ed,y} := 18 \quad \text{kNm}$$

$$V_{Ed,x} := 16 \quad \text{kN}$$

$$V_{Ed,y} := 197 \quad \text{kN}$$

Didžiausia polio ašinė jėga:

$$F_{Ed1} := \frac{N_{Ed} + N_p}{n} + \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} + \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 549.256 \quad \text{kN}$$

Mažiausia polio ašinė jėga:

$$F_{Ed2} := \frac{N_{Ed} + N_p}{n} - \frac{(M_{Ed,x} + V_{Ed,y} \cdot h) \cdot y}{y^2 + y^2 + y^2} - \frac{(M_{Ed,y} + V_{Ed,x} \cdot h) \cdot x}{x^2 + x^2 + x^2} = 398.194 \quad \text{kN}$$

Išvada: Didžiausia polių gniuždymo jėga A1 atvejui 472 kN, didžiausia polių gniuždymo jėga A2 atvejui 397 kN, didžiausia polių gniuždymo jėga ACC atvejui 960 kN. Poliuose tempimo jėgos nesudaromos.

Gniuždomo poliaus laikomosios galios skaičiavimas:

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	116	126	0

**Veikiančios įrašos:**

$$N_{Ed,1} := 472 \cdot 10^{-3} = 0.472 \quad \text{MN}$$

$$N_{Ed,2} := 397 \cdot 10^{-3} = 0.397 \quad \text{MN}$$

$$N_{Ed,3} := 960 \cdot 10^{-3} = 0.96 \quad \text{MN}$$

Daliniai koeficientai:

Daliniai medžiagų patikimumo koef. atvejui M1:

$$\gamma_{\varphi,1} := 1$$

$$\gamma_{c,1} := 1$$

$$\gamma_{m,1} := 1$$

$$\gamma_{qp,1} := 1$$

$$\gamma_{\gamma,1} := 1$$

Daliniai medžiagų patikimumo koef. atvejui M2:

$$\gamma_{\varphi,2} := 1.25$$

$$\gamma_{c,2} := 1.25$$

$$\gamma_{m,2} := 1.4$$

$$\gamma_{qp,2} := 1.4$$

$$\gamma_{\gamma,2} := 1$$

Daliniai koeficientai CFA polių pagrindo atsparumui

	R1	R2	R3	R4
Polio pado laikomoji galia	$\gamma_{b1} := 1.1$	$\gamma_{b2} := 1.1$	$\gamma_{b3} := 1.0$	$\gamma_{b4} := 1.45$
Polio kamieno šoninio paviršiaus alikomoji galia gniuždymui	$\gamma_{s1} := 1.0$	$\gamma_{s2} := 1.1$	$\gamma_{s3} := 1.0$	$\gamma_{s4} := 1.30$
Polio pado suminis atsparumas gniuždymui	$\gamma_{t1} := 1.1$	$\gamma_{t2} := 1.1$	$\gamma_{t3} := 1.0$	$\gamma_{t4} := 1.40$
Polio laikomoji galia tempimui	$\gamma_{st1} := 1.25$	$\gamma_{st2} := 1.15$	$\gamma_{st3} := 1.1$	$\gamma_{st4} := 1.60$

$$\alpha_b := 0.5$$

Grunto rodikliai: $\xi_3 := 1.29$

$$\rho := 21 \frac{\text{kN}}{\text{m}^3}$$

$$q_c := 3.1 \quad \text{MPa}$$

$$f_{s1} := 0.080 \quad \text{MPa} \quad f_{s2} := 0.140 \quad \text{MPa} \quad f_{s3} := 0.0 \quad \text{MPa} \quad f_{s4} := 0.0 \quad \text{MPa} \quad f_{s5} := 0.0 \quad \text{MPa} \quad f_{s6} := 0.0 \quad \text{MPa} \quad f_{s7} := 0.0 \quad \text{MPa}$$

Geometriniai rodikliai: $f_{s8} := 0.0 \quad \text{MPa}$

$$h_1 := 1.48 \quad \text{m} \quad h_2 := 3.47 \quad \text{m} \quad h_3 := 0. \quad \text{m} \quad h_4 := 0.0 \quad \text{m} \quad h_5 := 0.0 \quad \text{m} \quad h_6 := 0 \quad \text{m} \quad h_7 := 0.0 \quad \text{m} \quad h_8 := 0.0 \quad \text{m}$$

$$d := 0.6 \cdot 0.95 = 0.57 \quad \text{m}$$

$$A_p := \frac{\pi \cdot d^2}{4} = 0.255 \quad \text{m}^2$$

$$A_{s1} := \pi \cdot d \cdot h_1 = 2.65 \quad \text{m}^2 \quad A_{s2} := \pi \cdot d \cdot h_2 = 6.214 \quad \text{m}^2 \quad A_{s3} := \pi \cdot d \cdot h_3 = 0 \quad \text{m}^2$$

$$A_{s4} := \pi \cdot d \cdot h_4 = 0 \quad \text{m}^2 \quad A_{s5} := \pi \cdot d \cdot h_5 = 0 \quad \text{m}^2 \quad A_{s6} := \pi \cdot d \cdot h_6 = 0 \quad \text{m}^2$$

$$A_{s7} := \pi \cdot d \cdot h_7 = 0 \quad \text{m}^2 \quad A_{s8} := \pi \cdot d \cdot h_8 = 0 \quad \text{m}^2$$

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	117	126	0

Pirmas projektavimo atvejis: A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 1.55 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.396 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 1.082$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 1.442 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 1.117 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 1.016 \quad \text{MN}$$

$$\frac{N_{Ed,1}}{R_{c,d1}} = 0.465$$

A2 projektavimo atvejis: A2+M1+R4

$$R_{c,cal2} := \frac{R_b}{\gamma_{b4}} + \frac{R_s}{\gamma_{s4}} = 1.105 \quad \text{MN}$$

$$R_{c,k2} := \frac{R_{c,cal2}}{\xi_3} = 0.857 \quad \text{MN}$$

$$R_{c,d2} := \frac{R_{c,k2}}{\gamma_{t4}} = 0.612 \quad \text{MN}$$

$$\frac{N_{Ed,2}}{R_{c,d2}} = 0.649$$

ACC projektavimo atvejis: A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 1.55 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.396 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 1.082$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 1.442 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 1.117 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 1.016 \quad \text{MN}$$

$$\frac{N_{Ed,3}}{R_{c,d1}} = 0.945$$

Išvada: poliaus laikomoji galia pakankama

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	118	126	0

Nuosėdžių po kolonomis skaičiavimas

Įvesties duomenys:

Ned	2354	kN	Polių eilių skaičius B kryptimi mB	3	vnt
B	4.2	m	Polių eilių skaičius L kryptimi mL	3	vnt
L	4.2	m	Atstumas tarp polių ašių B kryptimi aB	1.8	m
A	17.64	m ²	Atstumas tarp polių ašių L kryptimi aL	1.8	m
L1	2.1	m	Polio skersmuo	0.6	m
B1	2.1	m	Grunto vidinis trinties kampas	0	
			Polių skaičius n	8	vnt
			Poliaus ilgis	5	m
			Galvenos aukštis	0.8	m
			Galvenos viršaus altitudė	5.1	m

Skaičiuojami nuosėdžiai sumavimo metodu:

Eil. Nr.	d, m	γ , kN/m ³	σ_{zg} , kPa	$0,2\sigma_{zg}$, kPa	z, m	$\xi=2z/b$	$\eta=l/b$	K	σ_{zp} , kPa	$\sigma_{zp,vid}$, kPa	H _i , m	E, Mpa	S _i , m
1	10.9	22	239.8	47.96	0	0	1	1	133.57		0.84	30	
2	11.7	22	257.4	51.48	0.8	0.381	1	0.965	128.90	131.2	0.8	30	0.0035
3	12.5	22	275	55	1.6	0.762	1	0.81	108.20	118.5	0.8	30	0.0032
4	13.3	22	292.6	58.52	2.4	1.143	1	0.616	82.28	95.24	0.8	30	0.0025
5	14.1	22	310.2	62.04	3.2	1.524	1	0.459	61.31	71.8	0.8	30	0.0019
													$\Sigma S_i = 0.0111$

$$0,2 \sigma_{zg} > \sigma_{zp}$$

Leistinas maksimalus nuosėdis $0,03 \cdot b = 0,03 \cdot 0,6 = 1,8 \text{ cm} < 2,5 \text{ cm}$

Išvada: Polių grupės nuosėdis $1,11 \text{ cm} < 1,8 \text{ cm}$ sąlyga tenkinama

1.7.2. Pamato po sienomis prie A ašies parinkimas

Projektuojami poliniai pamatai po laiptinės sienomis prie A ašies. Poliai 300mm skersmens išdėstyti ne didesniu kaip 1m žingsniu. Poliai remiami į abs. Alt +58.24 (IGS 8) polių geometriniis ilgis 6.1m. Mažiausias grunto kūginis stipris $q_c=3,1 \text{ MPa}$; šoninė trintis $f_s=10-138 \text{ kPa}$ pagal sluoksnius.

Reakcijos po laiptinių sienomis pateiktos reakcijų plane.

Gniuždomo poliaus laikomosios galios skaičiavimas:

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	119	126	0

**Veikiančios įrašos:**

$$N_{Ed,1} := 265 \cdot 10^{-3} = 0.265 \quad \text{MN}$$

$$N_{Ed,2} := 243 \cdot 10^{-3} = 0.243 \quad \text{MN}$$

$$N_{Ed,3} := 323 \cdot 10^{-3} = 0.323 \quad \text{MN}$$

Daliniai koeficientai:

Daliniai medžiagų patikimumo koef. atvejui M1:

$$\gamma_{\varphi,1} := 1$$

$$\gamma_{c,1} := 1$$

$$\gamma_{\omega,1} := 1$$

$$\gamma_{qp,1} := 1$$

$$\gamma_{\gamma,1} := 1$$

Daliniai medžiagų patikimumo koef. atvejui M2:

$$\gamma_{\varphi,2} := 1.25$$

$$\gamma_{c,2} := 1.25$$

$$\gamma_{\omega,2} := 1.4$$

$$\gamma_{qp,2} := 1.4$$

$$\gamma_{\gamma,2} := 1$$

Daliniai koeficientai CFA polių pagrindo atsparumui

	R1	R2	R3	R4
Polio pado laikomoji galia	$\gamma_{b1} := 1.1$	$\gamma_{b2} := 1.1$	$\gamma_{b3} := 1.0$	$\gamma_{b4} := 1.45$
Polio kamieno šoninio paviršiaus alikomoji galia gniuždymui	$\gamma_{s1} := 1.0$	$\gamma_{s2} := 1.1$	$\gamma_{s3} := 1.0$	$\gamma_{s4} := 1.30$
Polio pado suminis atsparumas gniuždymui	$\gamma_{t1} := 1.1$	$\gamma_{t2} := 1.1$	$\gamma_{t3} := 1.0$	$\gamma_{t4} := 1.40$
Polio laikomoji galia tempimui	$\gamma_{st1} := 1.25$	$\gamma_{st2} := 1.15$	$\gamma_{st3} := 1.1$	$\gamma_{st4} := 1.60$

$$\alpha_b := 0.8$$

Grunto rodikliai: $\xi_3 := 1.29$

$$\rho := 21 \quad \frac{\text{kN}}{\text{m}^3}$$

$$q_c := 3.1 \quad \text{MPa}$$

$$f_{s1} := 0.080 \quad \text{MPa} \quad f_{s2} := 0.140 \quad \text{MPa} \quad f_{s3} := 0.110 \quad \text{MPa} \quad f_{s4} := 0.0 \quad \text{MPa} \quad f_{s5} := 0.0 \quad \text{MPa} \quad f_{s6} := 0.0 \quad \text{MPa} \quad f_{s7} := 0.0 \quad \text{MPa}$$

Geometriniai rodikliai: $f_{s8} := 0.0 \quad \text{MPa}$

$$h_1 := 2.3 \quad \text{m} \quad h_2 := 3.47 \quad \text{m} \quad h_3 := 0. \quad \text{m} \quad h_4 := 0.0 \quad \text{m} \quad h_5 := 0.0 \quad \text{m} \quad h_6 := 0 \quad \text{m} \quad h_7 := 0.0 \quad \text{m} \quad h_8 := 0.0 \quad \text{m}$$

$$d := 0.3 - 0.02 = 0.28 \quad \text{m}$$

$$A_p := \frac{\pi \cdot d^2}{4} = 0.062 \quad \text{m}^2$$

$$A_{s1} := \pi \cdot d \cdot h_1 = 2.023 \quad \text{m}^2$$

$$A_{s4} := \pi \cdot d \cdot h_4 = 0 \quad \text{m}^2$$

$$A_{s7} := \pi \cdot d \cdot h_7 = 0 \quad \text{m}^2$$

$$A_{s2} := \pi \cdot d \cdot h_2 = 3.052 \quad \text{m}^2$$

$$A_{s5} := \pi \cdot d \cdot h_5 = 0 \quad \text{m}^2$$

$$A_{s8} := \pi \cdot d \cdot h_8 = 0 \quad \text{m}^2$$

$$A_{s3} := \pi \cdot d \cdot h_3 = 0 \quad \text{m}^2$$

$$A_{s6} := \pi \cdot d \cdot h_6 = 0 \quad \text{m}^2$$

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	120	126	0

Pirmas projektavimo atvejis:

A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 2.48 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.153 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 0.589$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 0.728 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 0.564 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 0.513 \quad \text{MN}$$

$$\frac{N_{Ed,1}}{R_{c,d1}} = 0.517$$

Antras projektavimo atvejis:

A2+M1+R4

$$R_{c,cal2} := \frac{R_b}{\gamma_{b4}} + \frac{R_s}{\gamma_{s4}} = 0.559 \quad \text{MN}$$

$$R_{c,k2} := \frac{R_{c,cal2}}{\xi_3} = 0.433 \quad \text{MN}$$

$$R_{c,d2} := \frac{R_{c,k2}}{\gamma_{t4}} = 0.309 \quad \text{MN}$$

$$\frac{N_{Ed,2}}{R_{c,d2}} = 0.786$$

Trečias ypatingasis projektavimo atvejis:

A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 2.48 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.153 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 0.589$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 0.728 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 0.564 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 0.513 \quad \text{MN}$$

$$\frac{N_{Ed,1}}{R_{c,d1}} = 0.517$$

Išvada: poliaus laikomoji galia pakankama

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	121	126	0

Nuosėdžių po sienomis prie A ašies skaičiavimas

Įvesties duomenys:

Ned	202	kN	Polių eilių skaičius B kryptimi mB	1	vnt
B	0.3	m	Polių eilių skaičius L kryptimi mL	2	vnt
L	1.3	m	Atstumas tarp polių ašių B kryptimi aB	0	m
A	0.39	m ²	Atstumas tarp polių ašių L kryptimi aL	1	m
L1	0.65	m	Polio skersmuo	0.3	m
B1	0.15	m	Grunto vidinis trinties kampas	0	
			Polių skaičius n	2	vnt
			Poliaus ilgis	6.1	m
			Galvenos aukštis	0	m
			Galvenos viršaus altitudė	5.05	m

Skaičiuojami nuosėdžiai sumavimo metodu:

Eil. Nr.	d, m	γ, kN/m ³	σ _{zg} , kPa	0,2σ _{zg} , kPa	z, m	ξ=2z/b	η=l/b	K	σ _{zp} , kPa	σ _{zp,vid} , kPa	H _i , m	E, Mpa	S _i , m
1	11.15	22	245.3	49.06	0	0	4.333	1	518.31		0.06	30	
2	11.27	22	247.9	49.59	0.12	0.8	4.333	0.881	456.63	487.5	0.12	30	0.0019
3	11.39	22	250.6	50.12	0.24	1.6	4.333	0.642	332.76	394.7	0.12	30	0.0016
4	11.51	22	253.2	50.64	0.36	2.4	4.333	0.477	247.23	290	0.12	30	0.0012
5	11.63	22	255.9	51.17	0.48	3.2	4.333	0.374	193.85	220.5	0.12	30	0.0009
6	11.75	23	258.6	51.72	0.6	4	4.333	0.306	158.60	176.2	0.12	30	0.0007
7	11.87	24	261.5	52.3	0.72	4.8	4.333	0.258	133.72	146.2	0.12	30	0.0006
8	11.99	25	264.5	52.9	0.84	5.6	4.333	0.223	115.58	124.7	0.12	30	0.0005
9	12.11	26	267.6	53.52	0.96	6.4	4.333	0.196	101.59	108.6	0.12	30	0.0004
10	12.23	27	270.9	54.17	1.08	7.2	4.333	0.175	90.70	96.15	0.12	30	0.0004
11	12.35	28	274.2	54.84	1.2	8	4.333	0.158	81.89	86.3	0.12	30	0.0003
12	12.47	29	277.7	55.54	1.32	8.8	4.333	0.144	74.64	78.26	0.12	30	0.0003
13	12.59	30	281.3	56.26	1.44	9.6	4.333	0.085	44.06	59.35	0.12	30	0.0002
Σs _i =													0.009

$$0,2 \sigma_{zg} > \sigma_{zp}$$

Leistinas maksimalus nuosėdis $0,03 \cdot b = 0,03 \cdot 0,4 = 0,9 \text{ cm} < 2,5 \text{ cm}$

Išvada: Polių grupės nuosėdis $0,9 \text{ cm} \leq 0,9 \text{ cm}$ sąlyga tenkinama

1.7.3. Pamato po sienomis prie E ašies parinkimas

Projektuojami poliniai pamatai po laiptinės sienomis prie E ašies. Poliai 500mm skersmens išdėstyti ne didesniu kaip 1m žingsniu. Poliai remiami į abs. Alt +57.94 (IGS 8) polių geometrinis ilgis 6.1m. Mažiausias grunto kūginis stipris $q_c=3,1 \text{ MPa}$; šoninė trintis $f_s=10-138 \text{ kPa}$ pagal sluoksnius.

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	122	126	0

Reakcijos po laiptinių sienomis pateiktos reakcijų plane.

Gniuždomo poliaus laikomosios galios skaičiavimas:

Veikiančios įrašos:

$$N_{Ed,1} := 523 \cdot 10^{-3} = 0.523 \quad \text{MN}$$

$$N_{Ed,2} := 482 \cdot 10^{-3} = 0.482 \quad \text{MN}$$

$$N_{Ed,3} := 643 \cdot 10^{-3} = 0.643 \quad \text{MN}$$

Daliniai koeficientai:

Daliniai medžiagų patikimumo koef. atvejui M1:

$$\gamma_{f,1} := 1$$

$$\gamma_{c,1} := 1$$

$$\gamma_{w,1} := 1$$

$$\gamma_{q,1} := 1$$

$$\gamma_{\gamma,1} := 1$$

Daliniai medžiagų patikimumo koef. atvejui M2:

$$\gamma_{f,2} := 1.25$$

$$\gamma_{c,2} := 1.25$$

$$\gamma_{w,2} := 1.4$$

$$\gamma_{q,2} := 1.4$$

$$\gamma_{\gamma,2} := 1$$

Daliniai koeficientai CFA polių pagrindo atsparumui

	R1	R2	R3	R4
Polio pado laikomoji galia	$\gamma_{b1} := 1.1$	$\gamma_{b2} := 1.1$	$\gamma_{b3} := 1.0$	$\gamma_{b4} := 1.45$
Polio kamieno šoninio paviršiaus alikomoji galia gniuždymui	$\gamma_{s1} := 1.0$	$\gamma_{s2} := 1.1$	$\gamma_{s3} := 1.0$	$\gamma_{s4} := 1.30$
Polio pado suminis atsparumas gniuždymui	$\gamma_{t1} := 1.1$	$\gamma_{t2} := 1.1$	$\gamma_{t3} := 1.0$	$\gamma_{t4} := 1.40$
Polio laikomoji galia tempimui	$\gamma_{st1} := 1.25$	$\gamma_{st2} := 1.15$	$\gamma_{st3} := 1.1$	$\gamma_{st4} := 1.60$
	$\alpha_b := 0.8$			

Grunto rodikliai: $\xi_3 := 1.29$

$$\rho := 21 \quad \frac{\text{kN}}{\text{m}^3}$$

$$q_c := 3.1 \quad \text{MPa}$$

$$f_{s1} := 0.080 \quad \text{MPa} \quad f_{s2} := 0.140 \quad \text{MPa} \quad f_{s3} := 0.110 \quad \text{MPa} \quad f_{s4} := 0.0 \quad \text{MPa} \quad f_{s5} := 0.0 \quad \text{MPa} \quad f_{s6} := 0.0 \quad \text{MPa} \quad f_{s7} := 0.0 \quad \text{MPa}$$

Geometriniai rodikliai: $f_{s8} := 0.0 \quad \text{MPa}$

$$h_1 := 2.3 \quad \text{m} \quad h_2 := 3.47 \quad \text{m} \quad h_3 := 0.0 \quad \text{m} \quad h_4 := 0.0 \quad \text{m} \quad h_5 := 0.0 \quad \text{m} \quad h_6 := 0 \quad \text{m} \quad h_7 := 0.0 \quad \text{m} \quad h_8 := 0.0 \quad \text{m}$$

$$d := 0.5 \cdot 0.95 = 0.475 \quad \text{m}$$

$$A_p := \frac{\pi \cdot d^2}{4} = 0.177 \quad \text{m}^2$$

$$A_{s1} := \pi \cdot d \cdot h_1 = 3.432 \quad \text{m}^2$$

$$A_{s4} := \pi \cdot d \cdot h_4 = 0 \quad \text{m}^2$$

$$A_{s7} := \pi \cdot d \cdot h_7 = 0 \quad \text{m}^2$$

$$A_{s2} := \pi \cdot d \cdot h_2 = 5.178 \quad \text{m}^2$$

$$A_{s5} := \pi \cdot d \cdot h_5 = 0 \quad \text{m}^2$$

$$A_{s8} := \pi \cdot d \cdot h_8 = 0 \quad \text{m}^2$$

$$A_{s3} := \pi \cdot d \cdot h_3 = 0 \quad \text{m}^2$$

$$A_{s6} := \pi \cdot d \cdot h_6 = 0 \quad \text{m}^2$$

IN2330-01-TP-SK-S	Lapas	Lapų	Laida
	123	126	0

Pirmas projektavimo atvejis: A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 2.48 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.439 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 1$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 1.399 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 1.085 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 0.986 \quad \text{MN}$$

$$\frac{N_{Ed,1}}{R_{c,d1}} = 0.53$$

Antras projektavimo atvejis: A2+M1+R4

$$R_{c,cal2} := \frac{R_b}{\gamma_{b4}} + \frac{R_s}{\gamma_{s4}} = 1.072 \quad \text{MN}$$

$$R_{c,k2} := \frac{R_{c,cal2}}{\xi_3} = 0.831 \quad \text{MN}$$

$$R_{c,d2} := \frac{R_{c,k2}}{\gamma_{t4}} = 0.594 \quad \text{MN}$$

$$\frac{N_{Ed,2}}{R_{c,d2}} = 0.812$$

Trečias ypatingasis projektavimo atvejis: A1+M1+R1

$$q_b := \alpha_b \cdot q_c = 2.48 \quad \text{MPa}$$

$$R_b := q_b \cdot A_p = 0.439 \quad \text{MN}$$

$$R_s := f_{s1} \cdot A_{s1} + f_{s2} \cdot A_{s2} + f_{s3} \cdot A_{s3} + f_{s4} \cdot A_{s4} + f_{s5} \cdot A_{s5} + f_{s6} \cdot A_{s6} + f_{s7} \cdot A_{s7} + f_{s8} \cdot A_{s8} = 1$$

$$R_{c,cal1} := \frac{R_b}{\gamma_{b1}} + \frac{R_s}{\gamma_{s1}} = 1.399 \quad \text{MN}$$

$$R_{c,k1} := \frac{R_{c,cal1}}{\xi_3} = 1.085 \quad \text{MN}$$

$$R_{c,d1} := \frac{R_{c,k1}}{\gamma_{t1}} = 0.986 \quad \text{MN}$$

$$\frac{N_{Ed,3}}{R_{c,d1}} = 0.652$$

Išvada: poliaus laikomoji galia pakankama

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	124	126	0

Nuosėdžių po sienomis prie E ašies skaičiavimas

Įvesties duomenys:

Ned	398	kN	Polių eilių skaičius B kryptimi mB	1	vnt
B	0.5	m	Polių eilių skaičius L kryptimi mL	2	vnt
L	1.5	m	Atstumas tarp polių ašių B kryptimi aB	0	m
A	0.75	m ²	Atstumas tarp polių ašių L kryptimi aL	1	m
L1	0.75	m	Polio skersmuo	0.5	m
B1	0.25	m	Grunto vidinis trinties kampas	0	
			Polių skaičius n	2	vnt
			Poliaus ilgis	6.4	m
			Galvenos aukštis	0	m
			Galvenos viršaus altitudė	5.05	m

Skaičiuojami nuosėdžiai sumavimo metodu:

Eil. Nr.	d, m	γ , kN/m ³	σ_{zg} , kPa	$0,2\sigma_{zg}$, kPa	z, m	$\xi=2z/b$	$\eta=l/b$	K	σ_{zp} , kPa	$\sigma_{zp,vid}$, kPa	H_i , m	E, Mpa	S_i , m
1	11.45	22	251.9	50.38	0	0	3	1	531.19		0.1	30	
2	11.61	22	255.4	51.08	0.16	0.64	3	0.881	467.98	499.6	0.16	30	0.0027
3	11.77	22	258.9	51.79	0.32	1.28	3	0.642	341.02	404.5	0.16	30	0.0022
4	11.93	22	262.5	52.49	0.48	1.92	3	0.477	253.38	297.2	0.16	30	0.0016
5	12.09	22	266	53.2	0.64	2.56	3	0.374	198.67	226	0.16	30	0.0012
6	12.25	22	269.5	53.9	0.8	3.2	3	0.306	162.54	180.6	0.16	30	0.001
7	12.41	22	273	54.6	0.96	3.84	3	0.258	137.05	149.8	0.16	30	0.0008
8	12.57	22	276.5	55.31	1.12	4.48	3	0.223	118.46	127.8	0.16	30	0.0007
9	12.73	22	280.1	56.01	1.28	5.12	3	0.196	104.11	111.3	0.16	30	0.0006
10	12.89	22	283.6	56.72	1.44	5.76	3	0.175	92.96	98.54	0.16	30	0.0005
11	13.05	22	287.1	57.42	1.6	6.4	3	0.158	83.93	88.44	0.16	30	0.0005
12	13.21	22	290.6	58.12	1.76	7.04	3	0.144	76.49	80.21	0.16	30	0.0004
13	13.37	22	294.1	58.83	1.92	7.68	3	0.132	70.12	73.3	0.16	30	0.0004
14	13.53	23	297.8	59.56	2.08	8.32	3	0.125	66.40	68.26	0.16	30	0.0004
15	13.69	24	301.7	60.33	2.24	8.96	3	0.111	58.96	62.68	0.16	30	0.0003
												$\Sigma S_i =$	0.013

$$0,2 \sigma_{zg} > \sigma_{zp}$$

Leistinas maksimalus nuosėdis $0,03 \cdot b = 0,03 \cdot 0,5 = 1,5 \text{ cm} < 2,5 \text{ cm}$

Išvada: Polių grupės nuosėdis $1,3 \text{ m} \leq 1,5 \text{ cm}$ sąlyga **tenkinama**

1.7.4. Santykinių nuosėdžių tikrinimas

Polių po kolonomis nuosėdis 1,11 cm

Polių po sienomis prie A ašies nuosėdis 0,9cm

Polių po sienomis prie E ašies nuosėdis 1,3cm

Mažiausias atstumas tarp kolonos ir sienos prie A ašies 1m

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	125	126	0

Mažiausias atstumas tarp kolonos ir sienos prie E ašies 3,5m.

Santykinis nuosėdis tarp kolonos ir sienos poliaus prie A ašies:

$$\frac{s_1-s_2}{L} = \frac{1,11-0,9}{100} = 0,002 \leq 0,002;$$

Santykinis nuosėdis tarp kolonos ir sienos poliaus prie E ašies:

$$\frac{s_1-s_2}{L} = \frac{1,3-1,11}{350} = 0,0005 \leq 0,002.$$

Išvada: santykinų nuosėdžių sąlygos tenkinamos

1.8. Projekte atliktų skaičiavimų atitiktis projekto rengimo dokumentams, normatyvinių statybos techninių dokumentų reikalavimams

Projekte atliktų skaičiavimų rezultatai atitinka projekto rengimo dokumentų reikalavimus, normatyvinių statybos techninių dokumentų reikalavimus, o konstrukcinių elementų ir jungčių laikomosios galios išnaudojimas neviršija ribinių verčių.

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	126	126	0