

ПРИЛОЖЕНИЕ №1
СТАБИЛИТЕТНИ ИЗЧИСЛЕНИЯ ЗА ПРОФИЛ I - I

Slide Analysis Information

Project Summary

- File Name: Profil I-I_Osnovno
- Slide Modeler Version: 6.02

General Settings

- Units of Measurement: Metric Units
- Time Units: seconds
- Permeability Units: meters/second
- Failure Direction: Right to Left
- Data Output: Standard
- Maximum Material Properties: 20
- Maximum Support Properties: 20

Design Standard

- Selected Type: Eurocode 7 - Design Approach 1, Combination 1

Type	Partial Factor
Permanent Actions: Unfavourable	1.35
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.5
Variable Actions: Favourable	0
Effective cohesion	1
Coefficient of shearing resistance	1
Undrained strength	1
Weight density	1
Shear strength (other models)	1
Earth resistance	1
Tensile and plate strength	1.1
Shear strength	1.1
Compressive strength	1.1
Bond strength	1.1
Seismic Coefficient	1

Analysis Options

Analysis Methods Used

- Bishop simplified
 - GLE/Morgenstern-Price with interslice force function: Half Sine
 - Janbu simplified
 - Janbu corrected
 - Ordinary/Fellenius
-
- Number of slices: 25
 - Tolerance: 0.005
 - Maximum number of iterations: 50
 - Check $\alpha < 0.2$: Yes
 - Initial trial value of FS: 3
 - Steffensen Iteration: Yes

Groundwater Analysis

-
- Groundwater Method: Water Surfaces
 - Pore Fluid Unit Weight: 9.807 kN/m³
 - Advanced Groundwater Method: None

Random Numbers





-
- Pseudo-random Seed: 10116
 - Random Number Generation Method: rand

Surface Options

-
- Surface Type: Circular
 - Search Method: Grid Search
 - Radius Increment: 10
 - Composite Surfaces: Disabled
 - Reverse Curvature: Create Tension Crack
 - Minimum Elevation: Not Defined
 - Minimum Depth: Not Defined

Material Properties

Property	6	3	4	5
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Color				
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m3]	18	20.21	20.4	20
Cohesion [kPa]	18	32.5	29.6	29.6
Friction Angle [deg]	30	20	22	22.66
Water Surface	None	None	None	None
Ru Value	0	0	0	0

Global Minimums

Method: ordinary/fellenius

- FS: 2.037800
- Center: 8.903, 15.179
- Radius: 17.514
- Left Slip Surface Endpoint: 0.097, 0.040
- Right Slip Surface Endpoint: 25.441, 9.414
- Resisting Moment=37925.1 kN-m
- Driving Moment=18610.8 kN-m
- Total Slice Area=134.909 m2

Method: bishop simplified

- FS: 2.192980
- Center: 7.691, 17.603
- Radius: 19.127
- Left Slip Surface Endpoint: 0.106, 0.044
- Right Slip Surface Endpoint: 24.956, 9.370
- Resisting Moment=39024.4 kN-m
- Driving Moment=17795.2 kN-m
- Total Slice Area=111.254 m2

Method: janbu simplified

- FS: 1.986680
- Center: 8.903, 13.968
- Radius: 16.493
- Left Slip Surface Endpoint: 0.081, 0.033
- Right Slip Surface Endpoint: 24.736, 9.350
- Resisting Horizontal Force=1993.86 kN
- Driving Horizontal Force=1003.61 kN
- Total Slice Area=133.842 m2

Method: janbu corrected

- FS: 2.145030
- Center: 8.903, 15.179
- Radius: 17.514
- Left Slip Surface Endpoint: 0.097, 0.040
- Right Slip Surface Endpoint: 25.441, 9.414
- Resisting Horizontal Force=2184.41 kN
- Driving Horizontal Force=1018.36 kN
- Total Slice Area=134.909 m²

Method: gle/morgenstern-price

- FS: 2.193140
- Center: 7.691, 17.603
- Radius: 19.127
- Left Slip Surface Endpoint: 0.106, 0.044
- Right Slip Surface Endpoint: 24.956, 9.370
- Resisting Moment=39027.2 kN-m
- Driving Moment=17795.2 kN-m
- Resisting Horizontal Force=1794.26 kN
- Driving Horizontal Force=818.126 kN
- Total Slice Area=111.254 m²

Valid / Invalid Surfaces

Method: ordinary/fellenius

- Number of Valid Surfaces: 4649
- Number of Invalid Surfaces: 203

Error Codes:

- Error Code -103 reported for 1 surface
- Error Code -108 reported for 4 surfaces
- Error Code -1000 reported for 198 surfaces

Method: bishop simplified

- Number of Valid Surfaces: 4637
- Number of Invalid Surfaces: 215

Error Codes:

- Error Code -103 reported for 1 surface
- Error Code -108 reported for 16 surfaces
- Error Code -1000 reported for 198 surfaces

Method: janbu simplified

- Number of Valid Surfaces: 4562
- Number of Invalid Surfaces: 290

Error Codes:

- Error Code -103 reported for 1 surface
- Error Code -108 reported for 91 surfaces
- Error Code -1000 reported for 198 surfaces

Method: janbu corrected

- Number of Valid Surfaces: 4562
- Number of Invalid Surfaces: 290

Error Codes:

- Error Code -103 reported for 1 surface
- Error Code -108 reported for 91 surfaces
- Error Code -1000 reported for 198 surfaces

Method: gle/morgenstern-price

- Number of Valid Surfaces: 4460
- Number of Invalid Surfaces: 392

Error Codes:

- Error Code -103 reported for 1 surface
- Error Code -108 reported for 129 surfaces
- Error Code -111 reported for 64 surfaces
- Error Code -1000 reported for 198 surfaces

Error Codes

The following errors were encountered during the computation:

- -103 = Two surface / slope intersections, but one or more surface / nonslope external polygon intersections lie between them. This usually occurs when the slip surface extends past the bottom of the soil region, but may also occur on a benched slope model with two sets of Slope Limits.
- -108 = Total driving moment or total driving force < 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number).
- -111 = safety factor equation did not converge
- -1000 = No valid slip surfaces are generated at a grid center. Unable to draw a surface.

21	0.41956 3	66.257 7	4	29.6	22	29.375 2	59.8608	74.898 2	0	74.8982
22	1.00839	138.27 3	3	32.5	20	26.050 9	53.0866	56.561 2	0	56.5612
23	1.00839	103.93 5	3	32.5	20	21.847 3	44.5204	33.025 9	0	33.0259
24	0.89048 9	58.115 3	6	18	30	13.044 9	26.5828	14.865 9	0	14.8659
25	0.72389 9	16.754 1	3	32.5	20	16.545 7	33.7167	3.3429 3	0	3.34293

• Global Minimum Query (bishop simplified) - Safety Factor: 2.19298

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.98552 6	8.0645 6	5	29.6	22.66	16.294	35.7324	14.688 7	0	14.6887
2	0.98552 6	22.965 7	5	29.6	22.66	19.163	42.0241	29.759	0	29.759
3	0.98552 6	36.506 1	5	29.6	22.66	21.697 4	47.5819	43.071 5	0	43.0715
4	0.98552 6	49.726 1	5	29.6	22.66	24.120 1	52.8949	55.797 5	0	55.7975
5	0.98552 6	61.977 1	5	29.6	22.66	26.305 9	57.6883	67.279 3	0	67.2793
6	0.98552 6	73.288 7	5	29.6	22.66	28.267 7	61.9905	77.584 1	0	77.5841
7	0.98552 6	83.564 6	5	29.6	22.66	29.992 4	65.7727	86.643 5	0	86.6435
8	0.98552 6	92.811 9	5	29.6	22.66	31.486 7	69.0497	94.492 9	0	94.4929
9	0.98552 6	136.42 7	5	29.6	22.66	39.539 2	86.7087	136.79 1	0	136.791
10	0.98552 6	146.20 1	5	29.6	22.66	41.010 5	89.9351	144.51 9	0	144.519
11	0.98552 6	154.60 3	5	29.6	22.66	42.189 7	92.5212	150.71 3	0	150.713
12	0.98552 6	161.56 3	5	29.6	22.66	43.068	94.4472	155.32 7	0	155.327
13	0.98552 6	166.36 4	5	29.6	22.66	43.517 7	95.4335	157.68 9	0	157.689
14	0.98552 6	169.42 5	5	29.6	22.66	43.622 8	95.6639	158.24 1	0	158.241
15	0.98552 6	170.92 7	5	29.6	22.66	43.421 1	95.2215	157.18 1	0	157.181
16	0.98552 6	170.9	5	29.6	22.66	42.921 5	94.1259	154.55 7	0	154.557

17	0.98552 6	169.81 1	5	29.6	22.66	42.209 1	92.5638	150.81 5	0	150.815
18	0.98552 6	166.91 8	5	29.6	22.66	41.154 1	90.2502	145.27 4	0	145.274
19	0.98552 6	161.91	5	29.6	22.66	39.706 6	87.0757	137.67	0	137.67
20	0.98552 6	154.52 7	5	29.6	22.66	37.827 2	82.9542	127.79 8	0	127.798
21	0.52500 3	78.419 1	4	29.6	22	35.462 9	77.7695	119.22 4	0	119.224
22	1.25052	169.01 6	3	32.5	20	32.105 8	70.4073	104.15	0	104.15
23	1.25052	128.36 7	3	32.5	20	26.674 6	58.4968	71.425 8	0	71.4258
24	1.13251	74.111 4	6	18	30	18.416 9	40.3879	38.777	0	38.777
25	0.98040 6	22.901	3	32.5	20	14.33	31.4254	2.9524 4	0	-2.95244

• Global Minimum Query (janbu simplified) - Safety Factor: 1.98668

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	1.05172	11.204 3	5	29.6	22.66	19.528 5	38.797	22.029 2	0	22.0292
2	1.05172	31.858 1	5	29.6	22.66	23.702	47.0882	41.889 1	0	41.8891
3	1.05172	50.472 2	5	29.6	22.66	27.310 7	54.2576	59.061 6	0	59.0616
4	1.05172	68.176 4	5	29.6	22.66	30.634 7	60.8614	74.879 5	0	74.8795
5	1.05172	84.315 3	5	29.6	22.66	33.551 8	66.6566	88.760 6	0	88.7606
6	1.05172	99.010 4	5	29.6	22.66	36.104 9	71.7288	100.91	0	100.91
7	1.05172	112.17	5	29.6	22.66	38.288 2	76.0664	111.3	0	111.3
8	1.05172	123.87 6	5	29.6	22.66	40.129 5	79.7245	120.06 2	0	120.062
9	1.05172	181.11 9	5	29.6	22.66	51.011 9	101.344	171.84 7	0	171.847
10	1.05172	193.09 5	5	29.6	22.66	52.693 9	104.686	179.85 1	0	179.851
11	1.05172	203.14 6	5	29.6	22.66	53.948 2	107.178	185.82	0	185.82
12	1.05172	210.64 3	5	29.6	22.66	54.660 8	108.594	189.21 1	0	189.211

13	1.05172	215.54 2	5	29.6	22.66	54.833 7	108.937	190.03 4	0	190.034
14	1.05172	218.31 4	5	29.6	22.66	54.564 1	108.401	188.75 1	0	188.751
15	1.05172	218.93 4	5	29.6	22.66	53.851 6	106.986	185.36 1	0	185.361
16	1.05172	217.90 3	5	29.6	22.66	52.788 9	104.875	180.30 3	0	180.303
17	1.05172	214.31 9	5	29.6	22.66	51.211 2	101.74	172.79 6	0	172.796
18	1.05172	207.66 6	5	29.6	22.66	49.028 6	97.4041	162.40 9	0	162.409
19	1.05172	197.43 2	5	29.6	22.66	46.153 3	91.6919	148.72 7	0	148.727
20	1.05172	182.51 1	5	29.6	22.66	42.400 4	84.2361	130.86 8	0	130.868
21	0.38494 9	60.697 3	4	29.6	22	38.115	75.7224	114.15 7	0	114.157
22	0.91321 7	125.10 3	3	32.5	20	33.488 7	66.5313	93.500 1	0	93.5001
23	0.91321 7	94.105 9	3	32.5	20	27.249 2	54.1354	59.442 5	0	59.4425
24	0.7834	51.249 4	6	18	30	17.558	34.8821	29.240 7	0	29.2407
25	0.62578 9	14.593 2	3	32.5	20	13.600 4	27.0196	15.057 2	0	-15.0572

• Global Minimum Query (janbu corrected) - Safety Factor: 2.14503

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	1.06464	10.951 8	5	29.6	22.66	17.807 1	38.1968	20.591 7	0	20.5917
2	1.06464	31.145 4	5	29.6	22.66	21.537	46.1975	39.755 6	0	39.7556
3	1.06464	49.488 1	5	29.6	22.66	24.798 3	53.1932	56.512 2	0	56.5122
4	1.06464	67.014 9	5	29.6	22.66	27.822	59.6791	72.047 6	0	72.0476
5	1.06464	83.044 6	5	29.6	22.66	30.489 6	65.401	85.753 3	0	85.7533
6	1.06464	97.684 3	5	29.6	22.66	32.836 2	70.4346	97.810 4	0	97.8104
7	1.06464	110.83 2	5	29.6	22.66	34.853 7	74.7623	108.17 6	0	108.176
8	1.06464	122.56 9	5	29.6	22.66	36.567	78.4373	116.97 9	0	116.979

9	1.06464	179.44 3	5	29.6	22.66	46.467 9	99.6751	167.84 9	0	167.849
10	1.06464	191.55 3	5	29.6	22.66	48.061 2	103.093	176.03 5	0	176.035
11	1.06464	201.76 6	5	29.6	22.66	49.269 2	105.684	182.24 2	0	182.242
12	1.06464	209.30 9	5	29.6	22.66	49.962 5	107.171	185.80 4	0	185.804
13	1.06464	214.45 2	5	29.6	22.66	50.198 3	107.677	187.01 5	0	187.015
14	1.06464	217.52 7	5	29.6	22.66	50.041 1	107.34	186.20 8	0	186.208
15	1.06464	218.64 3	5	29.6	22.66	49.513 5	106.208	183.49 7	0	183.497
16	1.06464	218.19 8	5	29.6	22.66	48.683 9	104.429	179.23 5	0	179.235
17	1.06464	215.23 8	5	29.6	22.66	47.393 5	101.66	172.60 5	0	172.605
18	1.06464	209.39	5	29.6	22.66	45.584 6	97.7804	163.31 1	0	163.311
19	1.06464	200.22 4	5	29.6	22.66	43.192 7	92.6496	151.02 1	0	151.021
20	1.06464	185.74 7	5	29.6	22.66	39.914 6	85.6181	134.17 9	0	134.179
21	0.41956 3	66.257 7	4	29.6	22	35.869 6	76.9414	117.17 4	0	117.174
22	1.00839	138.27 3	3	32.5	20	31.529 3	67.6314	96.522 6	0	96.5226
23	1.00839	103.93 5	3	32.5	20	25.769 6	55.2766	62.577 8	0	62.5778
24	0.89048 9	58.115 3	6	18	30	16.913 6	36.2801	31.662	0	31.662
25	0.72389 9	16.754 1	3	32.5	20	13.197 8	28.3097	11.512 7	0	-11.5127

• Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.19314

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.98552 6	8.0645 6	5	29.6	22.66	16.497 4	36.1812	15.763 8	0	15.7638
2	0.98552 6	22.965 7	5	29.6	22.66	19.915 9	43.6784	33.721 6	0	33.7216
3	0.98552 6	36.506 1	5	29.6	22.66	23.113 2	50.6904	50.517 3	0	50.5173
4	0.98552 6	49.726 1	5	29.6	22.66	26.213 7	57.4904	66.805 1	0	66.8051

5	0.98552 6	61.977 1	5	29.6	22.66	28.991	63.5813	81.394 6	0	81.3946
6	0.98552 6	73.288 7	5	29.6	22.66	31.381 8	68.8246	93.953 7	0	93.9537
7	0.98552 6	83.564 6	5	29.6	22.66	33.320 7	73.077	104.14	0	104.14
8	0.98552 6	92.811 9	5	29.6	22.66	34.791 4	76.3025	111.86 6	0	111.866
9	0.98552 6	136.42 7	5	29.6	22.66	42.920 7	94.131	154.56 9	0	154.569
10	0.98552 6	146.20 1	5	29.6	22.66	43.845 1	96.1585	159.42 6	0	159.426
11	0.98552 6	154.60 3	5	29.6	22.66	44.269 4	97.0889	161.65 4	0	161.654
12	0.98552 6	161.56 3	5	29.6	22.66	44.253 2	97.0534	161.57	0	161.57
13	0.98552 6	166.36 4	5	29.6	22.66	43.747 7	95.9449	158.91 4	0	158.914
14	0.98552 6	169.42 5	5	29.6	22.66	42.915 4	94.1194	154.54 1	0	154.541
15	0.98552 6	170.92 7	5	29.6	22.66	41.861	91.807	149.00 2	0	149.002
16	0.98552 6	170.9	5	29.6	22.66	40.648	89.1468	142.63 1	0	142.631
17	0.98552 6	169.81 1	5	29.6	22.66	39.395 5	86.3998	136.05 1	0	136.051
18	0.98552 6	166.91 8	5	29.6	22.66	38.01	83.3613	128.77 3	0	128.773
19	0.98552 6	161.91	5	29.6	22.66	36.462 4	79.9672	120.64 3	0	120.643
20	0.98552 6	154.52 7	5	29.6	22.66	34.721 5	76.1491	111.49 8	0	111.498
21	0.52500 3	78.419 1	4	29.6	22	32.670 8	71.6516	104.08 1	0	104.081
22	1.25052	169.01 6	3	32.5	20	30.018 7	65.8353	91.587 9	0	91.5879
23	1.25052	128.36 7	3	32.5	20	25.531 3	55.9937	64.548 5	0	64.5485
24	1.13251	74.111 4	6	18	30	17.936 5	39.3373	36.957 2	0	36.9572
25	0.98040 6	22.901	3	32.5	20	14.438 6	31.6658	2.2919 3	0	-2.29193

Interslice Data

- Global Minimum Query (ordinary/fellenius) - Safety Factor: 2.0378

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	0.0971236	0.0396839	0	0	0
2	1.16177	-0.531331	0	0	0
3	2.22641	-1.01246	0	0	0
4	3.29105	-1.41151	0	0	0
5	4.3557	-1.73431	0	0	0
6	5.42034	-1.98516	0	0	0
7	6.48498	-2.16717	0	0	0
8	7.54962	-2.2825	0	0	0
9	8.61427	-2.33247	0	0	0
10	9.67891	-2.31763	0	0	0
11	10.7436	-2.23783	0	0	0
12	11.8082	-2.09216	0	0	0
13	12.8728	-1.87893	0	0	0
14	13.9375	-1.59556	0	0	0
15	15.0021	-1.23844	0	0	0
16	16.0668	-0.802603	0	0	0
17	17.1314	-0.281407	0	0	0
18	18.1961	0.33414	0	0	0
19	19.2607	1.05637	0	0	0
20	20.3253	1.90268	0	0	0
21	21.39	2.89869	0	0	0
22	21.8095	3.34043	0	0	0
23	22.8179	4.54389	0	0	0
24	23.8263	6.01244	0	0	0
25	24.7168	7.65202	0	0	0
26	25.4407	9.41384	0	0	0

• **Global Minimum Query (bishop simplified) - Safety Factor: 2.19298**

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	0.106285	0.0436445	0	0	0
2	1.09181	-0.349968	21.8349	0	0
3	2.07734	-0.682094	50.5985	0	0
4	3.06286	-0.956034	83.7743	0	0
5	4.04839	-1.17434	119.719	0	0
6	5.03391	-1.33892	156.709	0	0
7	6.01944	-1.45119	193.269	0	0
8	7.00496	-1.51205	228.092	0	0
9	7.99049	-1.522	260.054	0	0
10	8.97602	-1.48112	293.417	0	0
11	9.96154	-1.38908	320.52	0	0

12	10.9471	-1.24514	340.392	0	0
13	11.9326	-1.04808	352.215	0	0
14	12.9181	-0.796206	355.372	0	0
15	13.9036	-0.487227	349.457	0	0
16	14.8892	-0.118155	334.226	0	0
17	15.8747	0.314859	309.588	0	0
18	16.8602	0.81676	275.479	0	0
19	17.8457	1.39395	232.174	0	0
20	18.8313	2.05481	180.314	0	0
21	19.8168	2.81054	121.001	0	0
22	20.3418	3.25695	86.3903	0	0
23	21.5923	4.46508	0.701588	0	0
24	22.8428	5.92938	-70.5402	0	0
25	23.9753	7.56946	-113.287	0	0
26	24.9557	9.37012	0	0	0

• Global Minimum Query (janbu simplified) - Safety Factor: 1.98668

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	0.0808133	0.0326328	0	0	0
2	1.13253	-0.58003	34.0349	0	0
3	2.18425	-1.09465	80.5196	0	0
4	3.23597	-1.52102	134.424	0	0
5	4.28769	-1.86625	192.494	0	0
6	5.33942	-2.13557	251.685	0	0
7	6.39114	-2.33274	309.554	0	0
8	7.44286	-2.46036	364.026	0	0
9	8.49458	-2.52004	413.396	0	0
10	9.5463	-2.51253	465.755	0	0
11	10.598	-2.43772	507.72	0	0
12	11.6497	-2.2947	537.881	0	0
13	12.7015	-2.08164	555.055	0	0
14	13.7532	-1.79569	558.384	0	0
15	14.8049	-1.4328	547.275	0	0
16	15.8566	-0.987375	521.346	0	0
17	16.9083	-0.451758	480.291	0	0
18	17.9601	0.184559	424.197	0	0
19	19.0118	0.936318	353.669	0	0
20	20.0635	1.82494	270.046	0	0
21	21.1152	2.8833	176.134	0	0
22	21.5002	3.32283	140.63	0	0
23	22.4134	4.50882	60.3218	0	0
24	23.3266	5.97023	-1.66428	0	0
25	24.11	7.58446	-35.1105	0	0

26	24.7358	9.3503	0	0	0
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• **Global Minimum Query (janbu corrected) - Safety Factor: 2.14503**

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	0.0971236	0.0396839	0	0	0
2	1.16177	-0.531331	32.2133	0	0
3	2.22641	-1.01246	76.0803	0	0
4	3.29105	-1.41151	127.118	0	0
5	4.3557	-1.73431	182.334	0	0
6	5.42034	-1.98516	238.868	0	0
7	6.48498	-2.16717	294.39	0	0
8	7.54962	-2.2825	346.903	0	0
9	8.61427	-2.33247	394.753	0	0
10	9.67891	-2.31763	445.64	0	0
11	10.7436	-2.23783	486.8	0	0
12	11.8082	-2.09216	516.848	0	0
13	12.8728	-1.87893	534.621	0	0
14	13.9375	-1.59556	539.291	0	0
15	15.0021	-1.23844	530.274	0	0
16	16.0668	-0.802603	507.176	0	0
17	17.1314	-0.281407	469.683	0	0
18	18.1961	0.33414	417.878	0	0
19	19.2607	1.05637	352.294	0	0
20	20.3253	1.90268	274.099	0	0
21	21.39	2.89869	186.305	0	0
22	21.8095	3.34043	150.783	0	0
23	22.8179	4.54389	68.926	0	0
24	23.8263	6.01244	5.0645	0	0
25	24.7168	7.65202	-30.5973	0	0
26	25.4407	9.41384	0	0	0

• **Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.19314**

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	0.106285	0.0436445	0	0	0
2	1.09181	-0.349968	22.436	0.987273	2.51962
3	2.07734	-0.682094	53.2302	4.64837	4.99074
4	3.06286	-0.956034	89.8091	11.6117	7.36708
5	4.04839	-1.17434	130.183	22.0344	9.60667
6	5.03391	-1.33892	172.103	35.5558	11.6729
7	6.01944	-1.45119	213.526	51.4025	13.5354

8	7.00496	-1.51205	252.647	68.5017	15.1702
9	7.99049	-1.522	287.99	85.6299	16.5591
10	8.97602	-1.48112	323.899	103.3	17.6889
11	9.96154	-1.38908	352.363	118.243	18.5503
12	10.9471	-1.24514	372.649	129.315	19.1376
13	11.9326	-1.04808	384.349	135.706	19.4471
14	12.9181	-0.796206	387.365	136.998	19.477
15	13.9036	-0.487227	381.837	133.175	19.2275
16	14.8892	-0.118155	368.03	124.568	18.6995
17	15.8747	0.314859	346.261	111.815	17.8964
18	16.8602	0.81676	316.736	95.7704	16.8236
19	17.8457	1.39395	279.806	77.5408	15.4893
20	18.8313	2.05481	235.952	58.4178	13.9059
21	19.8168	2.81054	185.851	39.81	12.0903
22	20.3418	3.25695	156.51	30.5246	11.036
23	21.5923	4.46508	83.3361	12.173	8.31049
24	22.8428	5.92938	20.6913	1.93393	5.33969
25	23.9753	7.56946	-19.6429	-0.8599	2.50662
26	24.9557	9.37012	0	0	0

List Of Coordinates

External Boundary

X	Y
34.4025	9.30037
34.4025	9.64406
32.4566	9.89385
32.0501	9.94604
31.9485	9.97926
31.9235	9.98681
31.9011	9.9879
31.8397	9.98612
31.7522	9.9827
30.6704	9.88519
21.3084	9.04138
20.8503	9.00009
20.5034	8.84888
18.5572	8.00009
17.9889	7.75222
17.1751	7.39735
16.2642	7.00009

15.3738	6.61179
14.9534	6.42844
13.9713	6.00009
12.6398	5.4194
11.6395	4.98316
10.334	4.4138
9.38548	4.00009
8.0325	3.41
7.09261	3.00009
5.78308	2.42898
5.73323	2.40724
4.79971	2.00009
4.71802	1.96447
3.12406	1.26946
2.5064	1.00009
1.34972	0.559717
0.92995	0.399719
0.00554354	9.33606e-005
-3.16	-0.0532186
-9.56	-0.161003
-15.6	-0.262725
-15.6	-4.48126
34.4	-4.48126
34.4025	3.04502
34.4025	3.62786
34.4025	4.0566
34.4025	6.9057
34.4025	8.73041

Material Boundary

X	Y
15.3738	6.61179
34.4025	8.73041

Material Boundary

X	Y
11.6395	4.98316
34.4025	6.9057

Material Boundary

X	Y
5.78308	2.42898
34.4025	4.0566

Material Boundary

X	Y
4.71802	1.96447
34.4025	3.62786

Material Boundary

X	Y
3.12406	1.26946
34.4025	3.04502

Material Boundary

X	Y
21.3084	9.04138
21.3532	8.5434
30.7153	9.38721
30.6704	9.88519

Material Boundary

X	Y
17.1751	7.39735
34.4025	9.30037

