

ПРИЛОЖЕНИЕ №2
СТАБИЛИТЕТНИ ИЗЧИСЛЕНИЯ ЗА ПРОФИЛ VII - VII

Slide Analysis Information

Project Summary

- File Name: Profil VII-VII_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 $m\alpha < 0.2$: 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	3	4	5
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Color			
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m3]	20.21	20.4	20
Cohesion [kPa]	32.5	29.6	20
Friction Angle [deg]	20	22	20
Water Surface	None	None	None
Ru Value	0	0	0

Global Minimums

Method: ordinary/fellenius

- FS: 2.058820
- Center: 97.162, 31.692
- Radius: 27.471
- Left Slip Surface Endpoint: 81.474, 9.141
- Right Slip Surface Endpoint: 122.030, 20.019
- Resisting Moment=108439 kN-m
- Driving Moment=52670.5 kN-m
- Total Slice Area=289.283 m2

Method: bishop simplified

- FS: 2.249110
- Center: 95.196, 41.523
- Radius: 37.287
- Left Slip Surface Endpoint: 77.812, 8.537
- Right Slip Surface Endpoint: 125.730, 20.123
- Resisting Moment=181936 kN-m
- Driving Moment=80892.4 kN-m
- Total Slice Area=330.624 m2

Method: janbu simplified

- FS: 2.017670
- Center: 97.162, 31.692
- Radius: 27.471
- Left Slip Surface Endpoint: 81.474, 9.141
- Right Slip Surface Endpoint: 122.030, 20.019
- Resisting Horizontal Force=3789.05 kN
- Driving Horizontal Force=1877.93 kN
- Total Slice Area=289.283 m2

Method: janbu corrected

- FS: 2.175810
- Center: 97.162, 31.692
- Radius: 27.471
- Left Slip Surface Endpoint: 81.474, 9.141
- Right Slip Surface Endpoint: 122.030, 20.019
- Resisting Horizontal Force=4086.02 kN
- Driving Horizontal Force=1877.93 kN
- Total Slice Area=289.283 m²

Method: gle/morgenstern-price

- FS: 2.247190
- Center: 95.196, 41.523
- Radius: 37.287
- Left Slip Surface Endpoint: 77.812, 8.537
- Right Slip Surface Endpoint: 125.730, 20.123
- Resisting Moment=181780 kN-m
- Driving Moment=80892.4 kN-m
- Resisting Horizontal Force=4445.77 kN
- Driving Horizontal Force=1978.37 kN
- Total Slice Area=330.624 m²

Valid / Invalid Surfaces

Method: ordinary/fellenius

- Number of Valid Surfaces: 4610
- Number of Invalid Surfaces: 242

Error Codes:

- Error Code -103 reported for 201 surfaces
- Error Code -106 reported for 2 surfaces
- Error Code -108 reported for 17 surfaces
- Error Code -1000 reported for 22 surfaces

Method: bishop simplified

- Number of Valid Surfaces: 4560
- Number of Invalid Surfaces: 292

Error Codes:

- Error Code -103 reported for 201 surfaces
- Error Code -106 reported for 2 surfaces
- Error Code -108 reported for 67 surfaces

- Error Code -1000 reported for 22 surfaces

Method: janbu simplified

- Number of Valid Surfaces: 4472
- Number of Invalid Surfaces: 380

Error Codes:

- Error Code -103 reported for 201 surfaces
- Error Code -106 reported for 2 surfaces
- Error Code -108 reported for 155 surfaces
- Error Code -1000 reported for 22 surfaces

Method: janbu corrected

- Number of Valid Surfaces: 4472
- Number of Invalid Surfaces: 380

Error Codes:

- Error Code -103 reported for 201 surfaces
- Error Code -106 reported for 2 surfaces
- Error Code -108 reported for 155 surfaces
- Error Code -1000 reported for 22 surfaces

Method: gle/morgenstern-price

- Number of Valid Surfaces: 4457
- Number of Invalid Surfaces: 395

Error Codes:

- Error Code -103 reported for 201 surfaces
- Error Code -106 reported for 2 surfaces
- Error Code -108 reported for 155 surfaces
- Error Code -111 reported for 15 surfaces
- Error Code -1000 reported for 22 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.

- -106 = Average slice width is less than 0.0001 * (maximum horizontal extent of soil region). This limitation is imposed to avoid numerical errors which may result from too many slices, or too small a slip region.
- -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.

Slice Data

• Global Minimum Query (ordinary/fellenius) - Safety Factor: 2.05882

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	1.63896	21.965	3	32.5	20	17.4601	35.9472	9.47103	0	9.47103
2	1.63896	63.4213	3	32.5	20	21.0383	43.3141	29.7116	0	29.7116
3	1.63896	102.204	3	32.5	20	24.8453	51.1521	51.2463	0	51.2463
4	1.63896	137.559	3	32.5	20	28.6744	59.0354	72.9055	0	72.9055
5	1.63896	168.982	3	32.5	20	32.3425	66.5873	93.6542	0	93.6542
6	1.63896	196.878	3	32.5	20	35.7675	73.6389	113.028	0	113.028
7	1.63896	223.41	3	32.5	20	39.0736	80.4456	131.73	0	131.73
8	1.63896	250.476	3	32.5	20	42.3902	87.2737	150.49	0	150.49
9	1.63896	273.198	3	32.5	20	45.1335	92.9218	166.007	0	166.007
10	1.3609	243.766	3	32.5	20	47.449	97.6889	179.105	0	179.105
11	1.62957	415.024	3	32.5	20	60.7184	125.008	254.164	0	254.164
12	1.62957	433.839	3	32.5	20	62.3376	128.342	263.323	0	263.323
13	1.62957	449.796	3	32.5	20	63.2729	130.267	268.614	0	268.614
14	1.62957	457.902	3	32.5	20	62.9879	129.681	267.002	0	267.002
15	1.62957	462.932	3	32.5	20	61.9991	127.645	261.409	0	261.409
16	1.62957	461.341	3	32.5	20	59.9854	123.499	250.018	0	250.018
17	1.6295	456.09	3	32.5	20	57.300	117.971	234.82	0	234.829

	7	3				1		9		
18	1.6295 7	443.65 3	3	32.5	20	53.705 3	110.57	214.49 4	0	214.494
19	1.6295 7	426.31 2	3	32.5	20	49.530 4	101.974	190.87 8	0	190.878
20	1.6295 7	400.50 5	3	32.5	20	44.650 9	91.9281	163.27 7	0	163.277
21	1.6295 7	369.58 1	3	32.5	20	39.520 4	81.3654	134.25 7	0	134.257
22	1.6295 7	328.33 4	3	32.5	20	34.040 5	70.0833	103.25 9	0	103.259
23	1.6295 7	270.89 7	3	32.5	20	28.301 1	58.2669	70.793 7	0	70.7937
24	1.6295 7	180.74 1	3	32.5	20	22.294 6	45.9006	36.817 6	0	36.8176
25	1.6295 7	65.184 5	3	32.5	20	17.415 2	35.8548	9.2171 4	0	9.21714

• Global Minimum Query (bishop simplified) - Safety Factor: 2.24911

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	2.0133 7	26.794 6	3	32.5	20	18.031	40.5537	22.127 5	0	22.1275
2	2.0133 7	77.454 5	3	32.5	20	22.174 2	49.8722	47.729 8	0	47.7298
3	2.0133 7	122.46 2	3	32.5	20	25.757	57.9303	69.869	0	69.869
4	2.0133 7	163.52	3	32.5	20	28.945 4	65.1013	89.571 3	0	89.5713
5	2.0133 7	202.91 4	3	32.5	20	31.943 9	71.8453	108.1	0	108.1
6	2.0133 7	237.79 5	3	32.5	20	34.522 9	77.6458	124.03 7	0	124.037
7	2.0133 7	268.61 9	3	32.5	20	36.730 6	82.6112	137.67 9	0	137.679
8	2.0133 7	300.69 6	3	32.5	20	39.006 5	87.7299	151.74 3	0	151.743
9	1.8564 6	304.31 6	3	32.5	20	41.039 6	92.3025	164.30 6	0	164.306
10	1.8721 4	446.19 7	3	32.5	20	52.672 7	118.467	236.19 2	0	236.192
11	1.8721 4	472.48 8	3	32.5	20	54.487 6	122.549	247.40 6	0	247.406
12	1.8721 4	494.11 3	3	32.5	20	55.872 8	125.664	255.96 6	0	255.966
13	1.8721	510.59	3	32.5	20	56.794	127.738	261.66	0	261.664

	4	7				8		4		
14	1.8721 4	519.54 7	3	32.5	20	57.061 5	128.338	263.31 1	0	263.311
15	1.8721 4	523.40 4	3	32.5	20	56.885 3	127.941	262.22 3	0	262.223
16	1.8721 4	522.33 8	3	32.5	20	56.286 2	126.594	258.52 1	0	258.521
17	1.8721 4	514.19 9	3	32.5	20	55.095 9	123.917	251.16 5	0	251.165
18	1.8721 4	500.88 9	3	32.5	20	53.477 3	120.276	241.16 4	0	241.164
19	1.8721 4	480.04 7	3	32.5	20	51.249 8	115.266	227.39 9	0	227.399
20	1.8721 4	454.77 5	3	32.5	20	48.668 9	109.462	211.45 1	0	211.451
21	1.8721 4	419.8	3	32.5	20	45.332 2	101.957	190.83 2	0	190.832
22	1.8721 4	354.52 3	3	32.5	20	39.695 3	89.279	155.99 9	0	155.999
23	1.8721 4	270.95 3	3	32.5	20	32.764	73.6898	113.16 8	0	113.168
24	1.8721 4	174.32 3	3	32.5	20	25.010 9	56.2522	65.258 6	0	65.2586
25	1.8721 4	61.205 5	3	32.5	20	16.292	36.6425	11.381 4	0	11.3814

• Global Minimum Query (janbu simplified) - Safety Factor: 2.01767

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	1.6389 6	21.965	3	32.5	20	20.966 4	42.3033	26.934 3	0	26.9343
2	1.6389 6	63.421 3	3	32.5	20	25.635 9	51.7248	52.819 6	0	52.8196
3	1.6389 6	102.20 4	3	32.5	20	29.870 5	60.2689	76.294 3	0	76.2943
4	1.6389 6	137.55 9	3	32.5	20	33.610 2	67.8142	97.025 1	0	97.0251
5	1.6389 6	168.98 2	3	32.5	20	36.820 3	74.2913	114.82 1	0	114.821
6	1.6389 6	196.87 8	3	32.5	20	39.568 7	79.8365	130.05 6	0	130.056
7	1.6389 6	223.41	3	32.5	20	42.116 8	84.9778	144.18 2	0	144.182
8	1.6389 6	250.47 6	3	32.5	20	44.682 5	90.1546	158.40 5	0	158.405
9	1.6389	273.19	3	32.5	20	46.718	94.262	169.68	0	169.689

	6	8				2		9		
10	1.3609	243.76 6	3	32.5	20	48.501 4	97.8598	179.57 4	0	179.574
11	1.6295 7	415.02 4	3	32.5	20	61.547 9	124.183	251.89 8	0	251.898
12	1.6295 7	433.83 9	3	32.5	20	62.938 2	126.989	259.60 5	0	259.605
13	1.6295 7	449.79 6	3	32.5	20	63.979 4	129.089	265.37 7	0	265.377
14	1.6295 7	457.90 2	3	32.5	20	64.142 9	129.419	266.28 3	0	266.283
15	1.6295 7	462.93 2	3	32.5	20	63.949 8	129.03	265.21 3	0	265.213
16	1.6295 7	461.34 1	3	32.5	20	63.033 3	127.18	260.13 2	0	260.132
17	1.6295 7	456.09 3	3	32.5	20	61.711 2	124.513	252.80 3	0	252.803
18	1.6295 7	443.65 3	3	32.5	20	59.627 4	120.309	241.25 2	0	241.252
19	1.6295 7	426.31 2	3	32.5	20	57.026 1	115.06	226.83 1	0	226.831
20	1.6295 7	400.50 5	3	32.5	20	53.562 2	108.071	207.63	0	207.63
21	1.6295 7	369.58 1	3	32.5	20	49.580 4	100.037	185.55 6	0	185.556
22	1.6295 7	328.33 4	3	32.5	20	44.593 4	89.9747	157.91	0	157.91
23	1.6295 7	270.89 7	3	32.5	20	38.100 3	76.8739	121.91 6	0	121.916
24	1.6295 7	180.74 1	3	32.5	20	28.745 5	57.9989	70.057 6	0	70.0576
25	1.6295 7	65.184 5	3	32.5	20	17.532 7	35.3752	7.8996 5	0	7.89965

• Global Minimum Query (janbu corrected) - Safety Factor: 2.17581

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	1.6389 6	21.965	3	32.5	20	19.442 5	42.3033	26.934 3	0	26.9343
2	1.6389 6	63.421 3	3	32.5	20	23.772 7	51.7248	52.819 6	0	52.8196
3	1.6389 6	102.20 4	3	32.5	20	27.699 5	60.2689	76.294 3	0	76.2943
4	1.6389 6	137.55 9	3	32.5	20	31.167 3	67.8142	97.025 1	0	97.0251
5	1.6389	168.98	3	32.5	20	34.144	74.2913	114.82	0	114.821

	6	2				2		1		
6	1.6389 6	196.87 8	3	32.5	20	36.692 8	79.8365	130.05 6	0	130.056
7	1.6389 6	223.41	3	32.5	20	39.055 7	84.9778	144.18 2	0	144.182
8	1.6389 6	250.47 6	3	32.5	20	41.435	90.1546	158.40 5	0	158.405
9	1.6389 6	273.19 8	3	32.5	20	43.322 7	94.262	169.68 9	0	169.689
10	1.3609	243.76 6	3	32.5	20	44.976 3	97.8598	179.57 4	0	179.574
11	1.6295 7	415.02 4	3	32.5	20	57.074 6	124.183	251.89 8	0	251.898
12	1.6295 7	433.83 9	3	32.5	20	58.363 8	126.989	259.60 5	0	259.605
13	1.6295 7	449.79 6	3	32.5	20	59.329 3	129.089	265.37 7	0	265.377
14	1.6295 7	457.90 2	3	32.5	20	59.481	129.419	266.28 3	0	266.283
15	1.6295 7	462.93 2	3	32.5	20	59.301 9	129.03	265.21 3	0	265.213
16	1.6295 7	461.34 1	3	32.5	20	58.451 9	127.18	260.13 2	0	260.132
17	1.6295 7	456.09 3	3	32.5	20	57.226	124.513	252.80 3	0	252.803
18	1.6295 7	443.65 3	3	32.5	20	55.293 7	120.309	241.25 2	0	241.252
19	1.6295 7	426.31 2	3	32.5	20	52.881 4	115.06	226.83 1	0	226.831
20	1.6295 7	400.50 5	3	32.5	20	49.669 3	108.071	207.63	0	207.63
21	1.6295 7	369.58 1	3	32.5	20	45.976 9	100.037	185.55 6	0	185.556
22	1.6295 7	328.33 4	3	32.5	20	41.352 3	89.9747	157.91	0	157.91
23	1.6295 7	270.89 7	3	32.5	20	35.331 2	76.8739	121.91 6	0	121.916
24	1.6295 7	180.74 1	3	32.5	20	26.656 2	57.9989	70.057 6	0	70.0576
25	1.6295 7	65.184 5	3	32.5	20	16.258 4	35.3752	7.8996 5	0	7.89965

• Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.24719

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	2.0133	26.794	3	32.5	20	18.221	40.9476	23.209	0	23.2096

	7	6				7		6		
2	2.0133 7	77.454 5	3	32.5	20	22.875 7	51.406	51.944 1	0	51.9441
3	2.0133 7	122.46 2	3	32.5	20	27.097 5	60.8933	78.009 8	0	78.0098
4	2.0133 7	163.52	3	32.5	20	30.93	69.5056	101.67 2	0	101.672
5	2.0133 7	202.91 4	3	32.5	20	34.488 3	77.5018	123.64 1	0	123.641
6	2.0133 7	237.79 5	3	32.5	20	37.452 3	84.1624	141.94 1	0	141.941
7	2.0133 7	268.61 9	3	32.5	20	39.823	89.4898	156.57 8	0	156.578
8	2.0133 7	300.69 6	3	32.5	20	42.044 6	94.4821	170.29 4	0	170.294
9	1.8564 6	304.31 6	3	32.5	20	43.809	98.4472	181.18 8	0	181.188
10	1.8721 4	446.19 7	3	32.5	20	55.304 6	124.28	252.16 3	0	252.163
11	1.8721 4	472.48 8	3	32.5	20	56.408 1	126.76	258.97 7	0	258.977
12	1.8721 4	494.11 3	3	32.5	20	56.949 4	127.976	262.31 8	0	262.318
13	1.8721 4	510.59 7	3	32.5	20	56.963 2	128.007	262.40 4	0	262.404
14	1.8721 4	519.54 7	3	32.5	20	56.331 9	126.588	258.50 6	0	258.506
15	1.8721 4	523.40 4	3	32.5	20	55.334 2	124.347	252.34 6	0	252.346
16	1.8721 4	522.33 8	3	32.5	20	54.045 2	121.45	244.38 8	0	244.388
17	1.8721 4	514.19 9	3	32.5	20	52.349 1	117.638	233.91 6	0	233.916
18	1.8721 4	500.88 9	3	32.5	20	50.433 6	113.334	222.08 9	0	222.089
19	1.8721 4	480.04 7	3	32.5	20	48.145 7	108.193	207.96 4	0	207.964
20	1.8721 4	454.77 5	3	32.5	20	45.729 2	102.762	193.04 4	0	193.044
21	1.8721 4	419.8	3	32.5	20	42.794 4	96.1672	174.92 4	0	174.924
22	1.8721 4	354.52 3	3	32.5	20	37.841 3	85.0367	144.34 4	0	144.344
23	1.8721 4	270.95 3	3	32.5	20	31.698 7	71.2331	106.41 9	0	106.419
24	1.8721 4	174.32 3	3	32.5	20	24.649 7	55.3926	62.896 7	0	62.8967
25	1.8721 4	61.205 5	3	32.5	20	16.309 4	36.6503	11.402 9	0	11.4029

Interslice Data

• Global Minimum Query (ordinary/fellenius) - Safety Factor: 2.05882

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	81.4744	9.14085	0	0	0
2	83.1134	8.08498	0	0	0
3	84.7523	7.18372	0	0	0
4	86.3913	6.42051	0	0	0
5	88.0302	5.78316	0	0	0
6	89.6692	5.26256	0	0	0
7	91.3082	4.85192	0	0	0
8	92.9471	4.54624	0	0	0
9	94.5861	4.34201	0	0	0
10	96.225	4.23695	0	0	0
11	97.5859	4.22424	0	0	0
12	99.2155	4.29783	0	0	0
13	100.845	4.46899	0	0	0
14	102.475	4.73959	0	0	0
15	104.104	5.11265	0	0	0
16	105.734	5.59257	0	0	0
17	107.363	6.18538	0	0	0
18	108.993	6.89918	0	0	0
19	110.623	7.74479	0	0	0
20	112.252	8.73677	0	0	0
21	113.882	9.89508	0	0	0
22	115.511	11.248	0	0	0
23	117.141	12.8374	0	0	0
24	118.77	14.7295	0	0	0
25	120.4	17.0412	0	0	0
26	122.03	20.0193	0	0	0

• Global Minimum Query (bishop simplified) - Safety Factor: 2.24911

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	77.8123	8.53671	0	0	0
2	79.8257	7.55185	58.0919	0	0
3	81.839	6.71099	142.866	0	0
4	83.8524	6.00391	244.122	0	0
5	85.8658	5.42276	354.449	0	0

6	87.8792	4.96151	468.618	0	0
7	89.8925	4.61568	581.014	0	0
8	91.9059	4.38204	687.125	0	0
9	93.9193	4.25849	784.4	0	0
10	95.7757	4.24115	863.43	0	0
11	97.6479	4.31736	944.029	0	0
12	99.52	4.48825	1003.75	0	0
13	101.392	4.75512	1040.03	0	0
14	103.264	5.12011	1050.84	0	0
15	105.136	5.58618	1034.93	0	0
16	107.009	6.15735	991.647	0	0
17	108.881	6.83879	920.844	0	0
18	110.753	7.63717	823.455	0	0
19	112.625	8.56098	700.773	0	0
20	114.497	9.62111	555.637	0	0
21	116.369	10.8317	390.765	0	0
22	118.241	12.2113	212.342	0	0
23	120.114	13.7853	41.1135	0	0
24	121.986	15.5889	-101.665	0	0
25	123.858	17.6742	-190.93	0	0
26	125.73	20.1234	0	0	0

• Global Minimum Query (janbu simplified) - Safety Factor: 2.01767

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	81.4744	9.14085	0	0	0
2	83.1134	8.08498	62.8665	0	0
3	84.7523	7.18372	152.566	0	0
4	86.3913	6.42051	259.842	0	0
5	88.0302	5.78316	376.87	0	0
6	89.6692	5.26256	497.105	0	0
7	91.3082	4.85192	615.484	0	0
8	92.9471	4.54624	728.714	0	0
9	94.5861	4.34201	834.436	0	0
10	96.225	4.23695	928.975	0	0
11	97.5859	4.22424	997.386	0	0
12	99.2155	4.29783	1079.33	0	0
13	100.845	4.46899	1137.65	0	0
14	102.475	4.73959	1170.3	0	0
15	104.104	5.11265	1175.68	0	0
16	105.734	5.59257	1152.8	0	0
17	107.363	6.18538	1101.5	0	0
18	108.993	6.89918	1021.8	0	0
19	110.623	7.74479	915.146	0	0

20	112.252	8.73677	783.237	0	0
21	113.882	9.89508	630.183	0	0
22	115.511	11.248	460.088	0	0
23	117.141	12.8374	281.916	0	0
24	118.77	14.7295	113.438	0	0
25	120.4	17.0412	-1.58746	0	0
26	122.03	20.0193	0	0	0

• **Global Minimum Query (janbu corrected) - Safety Factor: 2.17581**

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	81.4744	9.14085	0	0	0
2	83.1134	8.08498	62.8665	0	0
3	84.7523	7.18372	152.566	0	0
4	86.3913	6.42051	259.842	0	0
5	88.0302	5.78316	376.87	0	0
6	89.6692	5.26256	497.105	0	0
7	91.3082	4.85192	615.484	0	0
8	92.9471	4.54624	728.714	0	0
9	94.5861	4.34201	834.436	0	0
10	96.225	4.23695	928.975	0	0
11	97.5859	4.22424	997.386	0	0
12	99.2155	4.29783	1079.33	0	0
13	100.845	4.46899	1137.65	0	0
14	102.475	4.73959	1170.3	0	0
15	104.104	5.11265	1175.68	0	0
16	105.734	5.59257	1152.8	0	0
17	107.363	6.18538	1101.5	0	0
18	108.993	6.89918	1021.8	0	0
19	110.623	7.74479	915.146	0	0
20	112.252	8.73677	783.237	0	0
21	113.882	9.89508	630.183	0	0
22	115.511	11.248	460.088	0	0
23	117.141	12.8374	281.916	0	0
24	118.77	14.7295	113.438	0	0
25	120.4	17.0412	-1.58746	0	0
26	122.03	20.0193	0	0	0

• **Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.24719**

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	77.8123	8.53671	0	0	0

2	79.8257	7.55185	59.5465	1.98688	1.91107
3	81.839	6.71099	149.283	9.87548	3.78476
4	83.8524	6.00391	259.001	25.3272	5.58508
5	85.8658	5.42276	380.364	48.5808	7.27852
6	87.8792	4.96151	506.833	78.7788	8.83498
7	89.8925	4.61568	631.328	113.917	10.2284
8	91.9059	4.38204	748.092	151.345	11.437
9	93.9193	4.25849	853.787	188.393	12.4433
10	95.7757	4.24115	938.261	219.72	13.1799
11	97.6479	4.31736	1022.58	249.822	13.7288
12	99.52	4.48825	1083.94	271.802	14.0769
13	101.392	4.75512	1120.55	283.984	14.2212
14	103.264	5.12011	1131.42	285.455	14.1601
15	105.136	5.58618	1116.4	276.16	13.8941
16	107.009	6.15735	1075.87	256.823	13.4259
17	108.881	6.83879	1010.52	228.847	12.7602
18	110.753	7.63717	921.77	194.321	11.9044
19	112.625	8.56098	811.024	155.707	10.8679
20	114.497	9.62111	680.693	115.904	9.66328
21	116.369	10.8317	532.613	77.7604	8.30638
22	118.241	12.2113	371.397	44.3913	6.81595
23	120.114	13.7853	215.053	19.6245	5.21404
24	121.986	15.5889	82.4629	5.0805	3.52551
25	123.858	17.6742	-2.54685	-0.0790499	1.77779
26	125.73	20.1234	0	0	0

List Of Coordinates

External Boundary

X	Y
117.672	19.8968
117.66	19.8923
117.309	19.7674
117.078	19.6885
116.035	19.3258
115.363	19.097
115.284	19.0949
113.109	18.3258
111.079	17.7269
109.915	17.3258
107.954	16.739

106.77	16.3258
104.85	15.7539
103.642	15.3258
103.065	15.155
101.776	14.7728
100.54	14.3258
99.0142	13.7737
97.478	13.3258
95.7688	12.634
95.4617	12.5461
94.6917	12.3258
92.3518	11.5171
91.8215	11.3258
90.3028	10.953
87.5287	10.3258
84.3685	9.61826
83.5701	9.48656
82.5953	9.32578
79.0782	8.74554
76.5336	8.32578
75.3	8.12227
75.3	4.44885
75.3	0.496354
75.3	-0.674224
78.0942	-0.674224
84.0632	0.589422
101.079	4.19162
115.3	6.32578
135.3	6.32578
135.3	17.3247
135.3	18.3258
135.3	20.853
133.035	20.572
131.05	20.3258
130.508	20.2585
130.016	20.2447
129.262	20.2227
125.66	20.1214

Material Boundary

X	Y
117.66	19.8923
117.66	19.3923
125.66	19.3923

125.66	20.1214
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Material Boundary

X	Y
103.065	15.155
115.3	16.3258
135.3	18.3258

Material Boundary

X	Y
95.4617	12.5461
105.258	14.1696
115.3	15.4258
135.3	17.3247

Material Boundary

X	Y
75.3	4.44885
82.6635	4.36362
101.079	4.19162

Material Boundary

X	Y
75.3	0.496354
84.0632	0.589422

