

Slide Analysis Information

Odlagališce Sv.Peter

Project Summary

File Name: Profil SV1-15_z nasutjem_levo
 Slide Modeler Version: 7.013
 Project Title: Odlagališce Sv.Peter
 Analysis: Analiza stabilnosti v profilu SV1-15
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Comments

Analiza stabilnosti leve brežine po odloženem nasipu.

Design Standard

Selected Type: Eurocode 7 - Design Approach 3

Type	Partial Factor
Permanent Actions: Unfavourable	1
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.3
Variable Actions: Favourable	0
Effective cohesion	1.25
Coefficient of shearing resistance	1.25
Undrained strength	1.4
Weight density	1
Shear strength (other models)	1.25
Earth resistance	1
Tensile and plate strength	1
Shear strength	1
Compressive strength	1
Bond strength	1
Seismic Coefficient	1





Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight [kN/m³]: 9.81
 Advanced Groundwater Method: None

Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No

Material Properties

Property	Nasutje	GM	Fliš	Star nasip
Color				
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Generalized Hoek-Brown	Mohr-Coulomb
Unit Weight [kN/m ³]	20	19	23	19.5
Cohesion [kPa]	0.5	0		0
Friction Angle [deg]	35	35		30
Unconfined Compressive Strength (intact) [kPa]			3000	
nmb			0.431795	
ns			0.000172232	
na			0.538237	
Water Surface	Water Table	Water Table	Water Table	Water Table
Hu Value	1	1	0.8	1

Global Minimums

Method: bishop simplified

FS	1.805500
Center:	14.101, 26.177
Radius:	15.035
Left Slip Surface Endpoint:	0.725, 19.312
Right Slip Surface Endpoint:	19.511, 12.149
Resisting Moment:	10337.3 kN-m
Driving Moment:	5725.46 kN-m
Total Slice Area:	45.7168 m ²
Surface Horizontal Width:	18.786 m
Surface Average Height:	2.43356 m