

Slide Analysis Information

Deponija Padna

Project Summary

File Name: Padna_P1-19_desni.slim
 Slide Modeler Version: 6.005
 Project Title: Deponija Padna
 Analysis: Analiza stabilnosti profila P1-19
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 Company: GECKO d.o.o.

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: 9.81 kN/m³
 Advanced Groundwater Method: None

Material Properties

| Property | Nasutje | GM | Fliš |
|---------------|---|--|---|
| Color |  |  |  |
| Strength Type | Mohr-Coulomb | Mohr-Coulomb | Generalised Hoek-Brown |

| | | | |
|--|-------------|-------------|-------------|
| Unit Weight [kN/m ³] | 20 | 19 | 23 |
| Cohesion [kPa] | 0.5 | 0 | |
| Friction Angle [deg] | 35 | 35 | |
| Unconfined Compressive Strength (intact) [kPa] | | | 3000 |
| nmb | | | 0.431795 |
| ns | | | 0.000172232 |
| na | | | 0.538237 |
| Water Surface | Water Table | Water Table | Water Table |
| Hu Value | 1 | 1 | 0.8 |

Global Minimums

Method: bishop simplified

FS: 1.305940

Center: 398066.204, 38455.806

Radius: 129.984

Left Slip Surface Endpoint: 398114.184, 38335.001

Right Slip Surface Endpoint: 398121.185, 38338.023

Resisting Moment=3551.02 kN-m

Driving Moment=2719.14 kN-m