Slide Analysis Information

Document Name

File Name: Sez 1-1'_statico - 1A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 1-1'_statico - 1B

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 1-1'_sismico - 1C

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Loading

Seismic Load Coefficient (Horizontal): 0.037
Seismic Load Coefficient (Vertical): -0.0187

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 1-1'_statico - 2A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 13 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees

Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 1-1'_statico opere - 3A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: tiranti A
tiranti A
Support Type: End Anchored
Force Application: Active
Out-of-Plane Spacing: 3 m
Anchor Capacity: 150 kN

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate
palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN

Slide Analysis Information

Document Name

File Name: Sez 1-1'_statico opere - 3B

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: tiranti A
tiranti A
Support Type: End Anchored
Force Application: Active
Out-of-Plane Spacing: 3 m
Anchor Capacity: 150 kN

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate
palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN

Slide Analysis Information

Document Name

File Name: Sez 1-1'_sismico opere - 3C

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Loading

Seismic Load Coefficient (Horizontal): 0.037
Seismic Load Coefficient (Vertical): -0.0187

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: tiranti A
tiranti A
Support Type: End Anchored
Force Application: Active
Out-of-Plane Spacing: 3 m
Anchor Capacity: 150 kN

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate

palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN

Slide Analysis Information

Document Name

File Name: Sez 3-3' statico - 1A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 3-3'_statico - 1B

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 3-3'_sismico - 1C

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Loading

Seismic Load Coefficient (Horizontal): 0.037
Seismic Load Coefficient (Vertical): -0.0187

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 3-3'_statico - 2A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 13 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees

Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 5-5'_statico - 1A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 5-5'_statico - 1B

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 5-5'_sismico - 1C

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Loading

Seismic Load Coefficient (Horizontal): 0.037
Seismic Load Coefficient (Vertical): -0.0187

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Slide Analysis Information

Document Name

File Name: Sez 5-5'_statico opere - 3A

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate
palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN

Slide Analysis Information

Document Name

File Name: Sez 5-5'_statico opere - 3B

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees

Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate
palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN

Slide Analysis Information

Document Name

File Name: Sez 5-5'_sismico opere - 3C

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Right to Left
Units of Measurement: SI Units
Pore Fluid Unit Weight: 9.81 kN/m3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Bishop simplified
GLE/Morgenstern-Price with interslice force function: Half Sine
Janbu corrected
Spencer

Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 10
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Loading

Seismic Load Coefficient (Horizontal): 0.037
Seismic Load Coefficient (Vertical): -0.0187

Material Properties

Material: Deposito eluvio-colluviale
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 0 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_alterato
Strength Type: Mohr-Coulomb
Unit Weight: 19 kN/m3
Cohesion: 0 kPa
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Substrato_intatto
Strength Type: Mohr-Coulomb
Unit Weight: 24 kN/m3
Cohesion: 70 kPa
Friction Angle: 22 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: fill
Strength Type: Mohr-Coulomb
Unit Weight: 20 kN/m3
Cohesion: 4 kPa
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: calcestruzzo
Strength Type: Infinite strength
Unit Weight: 25 kN/m3

Support Properties

Support: micropali
micropali
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 620 kN

Support: geogriglia
geogriglia
Support Type: GeoTextile
Force Application: Passive
Force Orientation: Bisector of Parallel and Tangent
Anchorage: Slope Face
Shear Strength Model: Linear
Strip Coverage: 100 percent
Tensile Strength: 110.5 kN/m
Pullout Strength Adhesion: 4 kN/m2
Pullout Strength Friction Angle: 25 degrees

Support: palizzate
palizzate
Support Type: Micro-Pile
Force Application: Passive
Out-of-Plane Spacing: 0.5 m
Pile Shear Strength: 11.5 kN