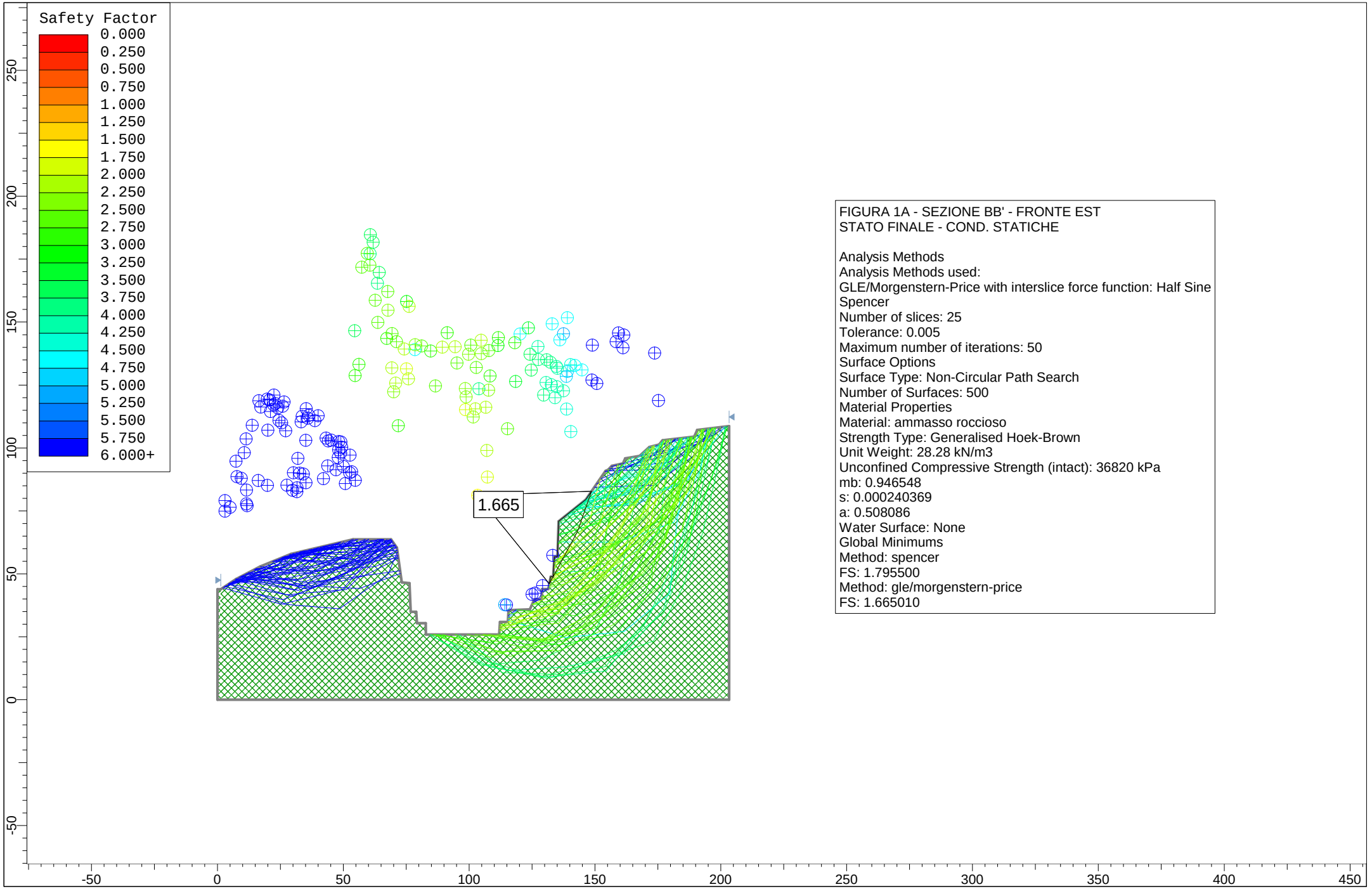


FIGURA 1A - SEZIONE BB' - FRONTE EST
STATO FINALE - COND. STATICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 1.795500
Method: gle/morgenstern-price
FS: 1.665010

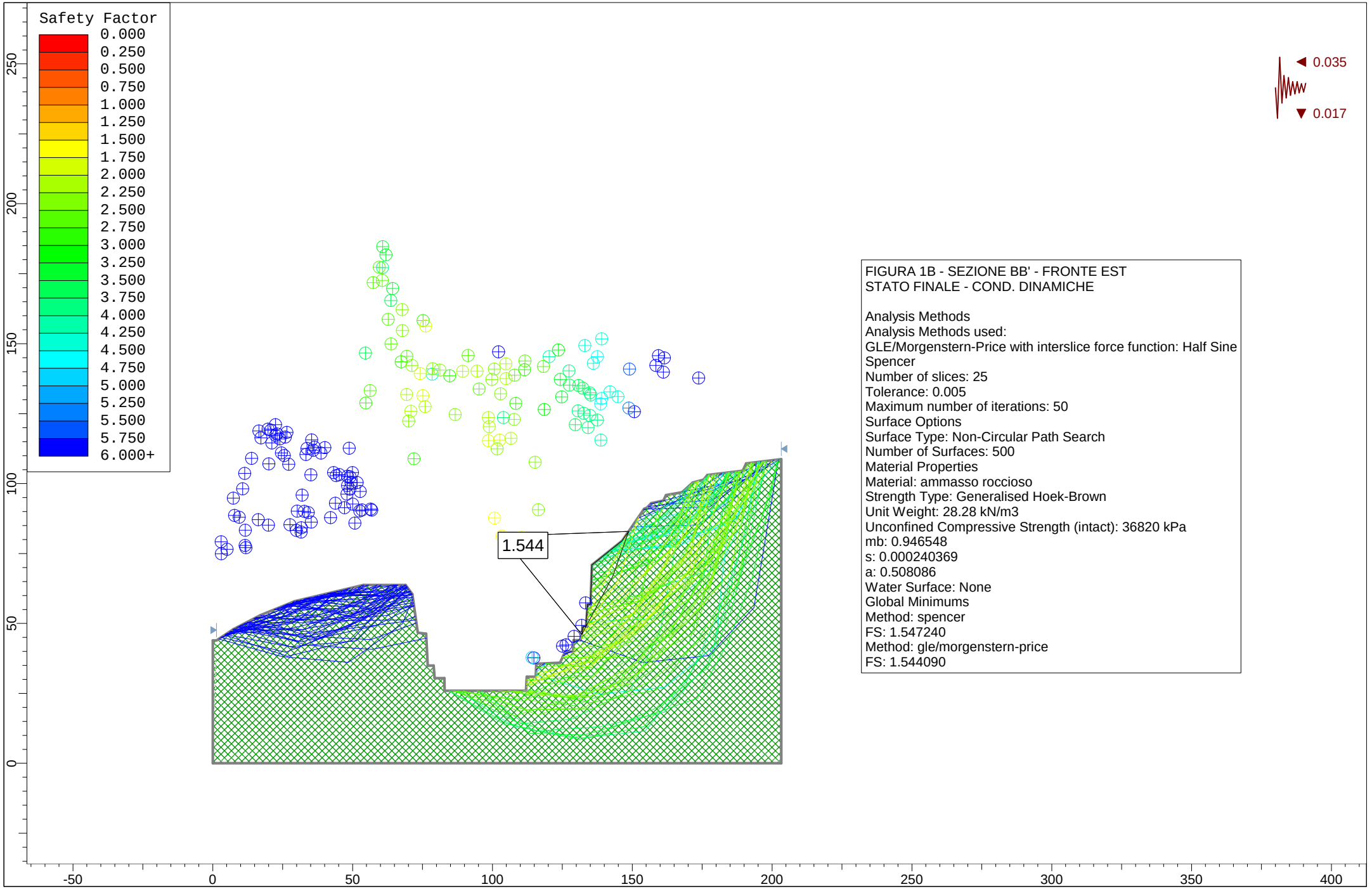


FIGURA 1B - SEZIONE BB' - FRONTE EST
STATO FINALE - COND. DINAMICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 1.547240
Method: gle/morgenstern-price
FS: 1.544090

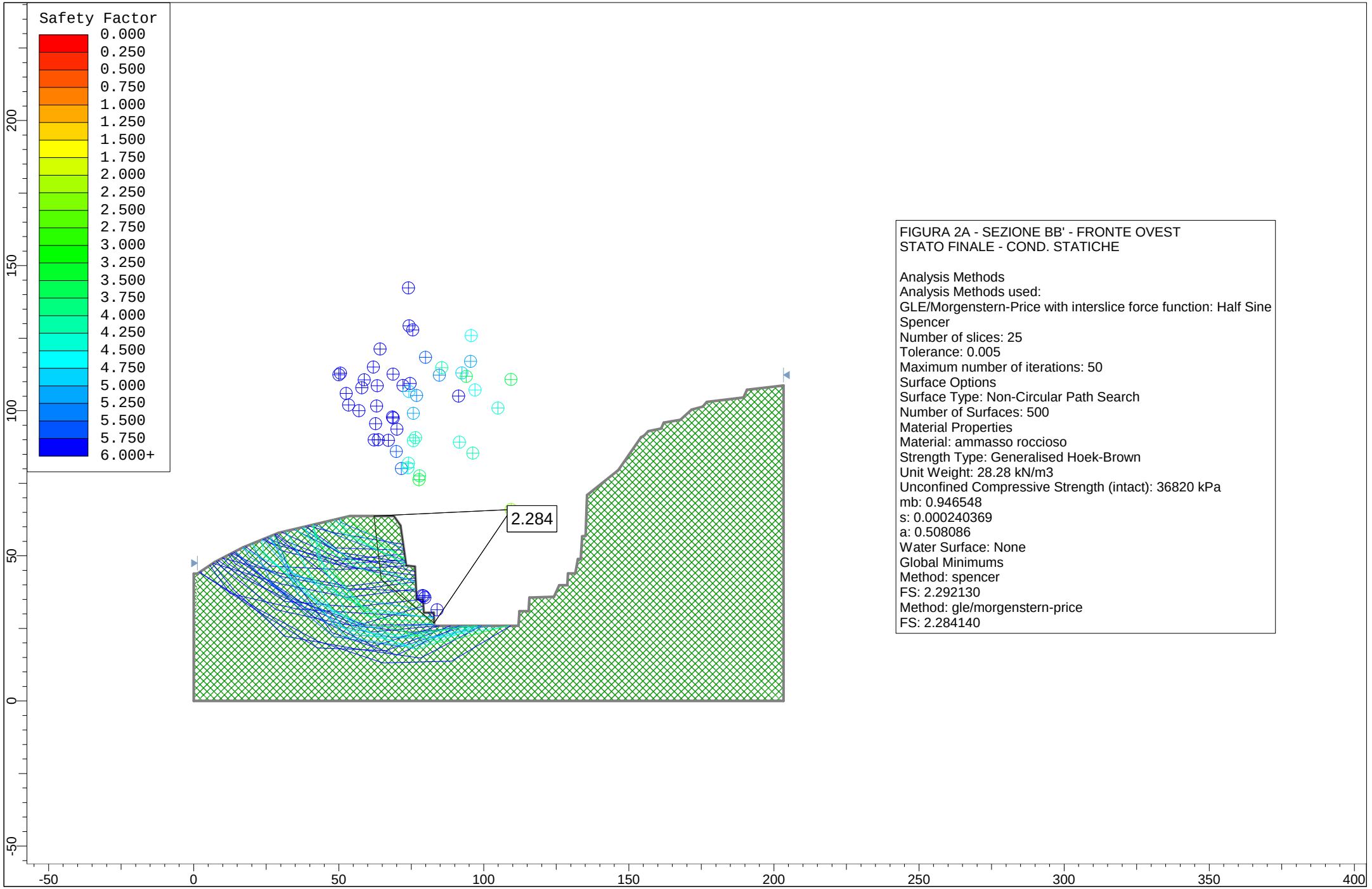


FIGURA 2A - SEZIONE BB' - FRONTE OVEST
STATO FINALE - COND. STATICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 2.292130
Method: gle/morgenstern-price
FS: 2.284140

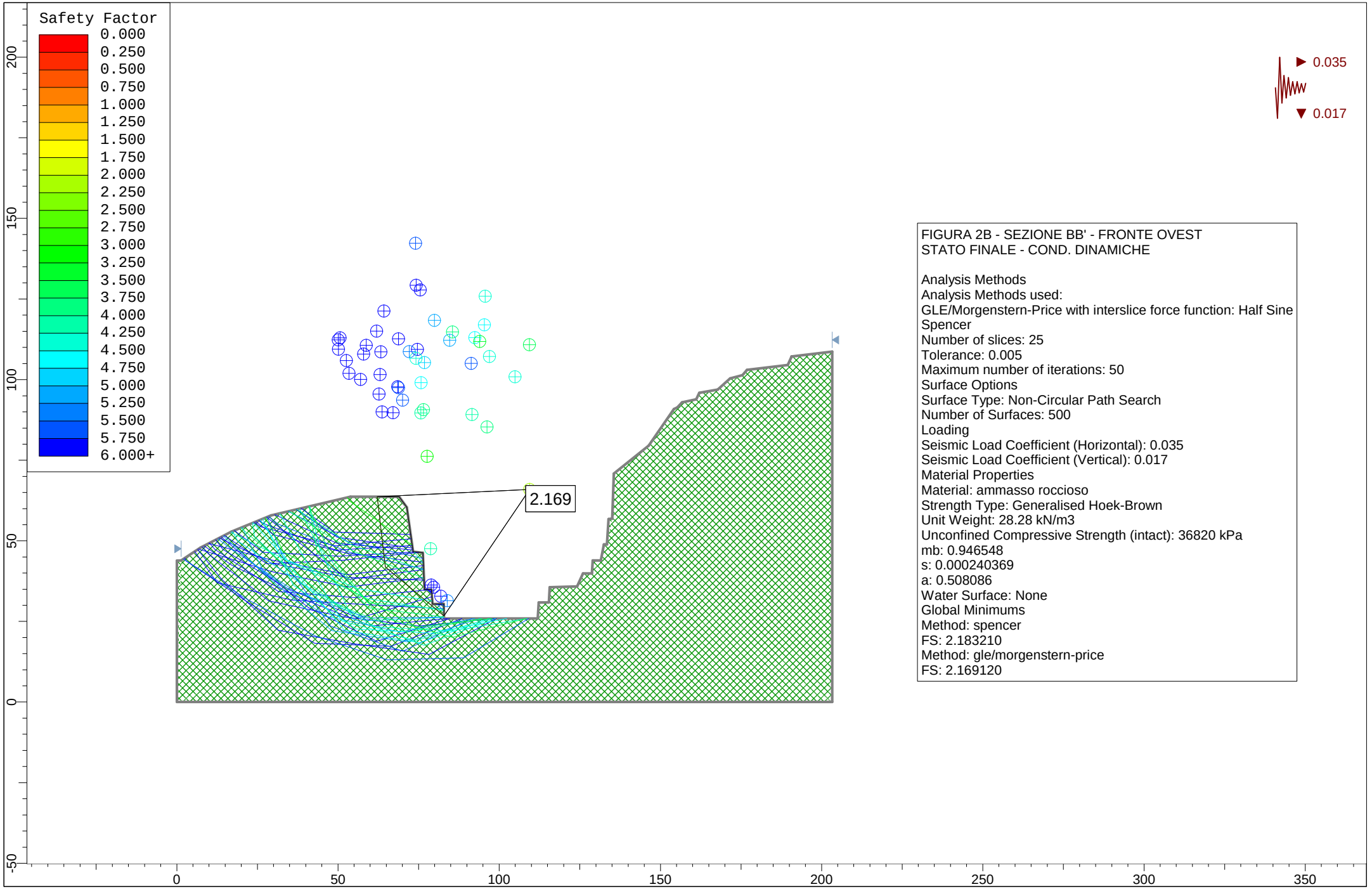


FIGURA 2B - SEZIONE BB' - FRONTE OVEST
STATO FINALE - COND. DINAMICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Loading
Seismic Load Coefficient (Horizontal): 0.035
Seismic Load Coefficient (Vertical): 0.017
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 2.183210
Method: gle/morgenstern-price
FS: 2.169120

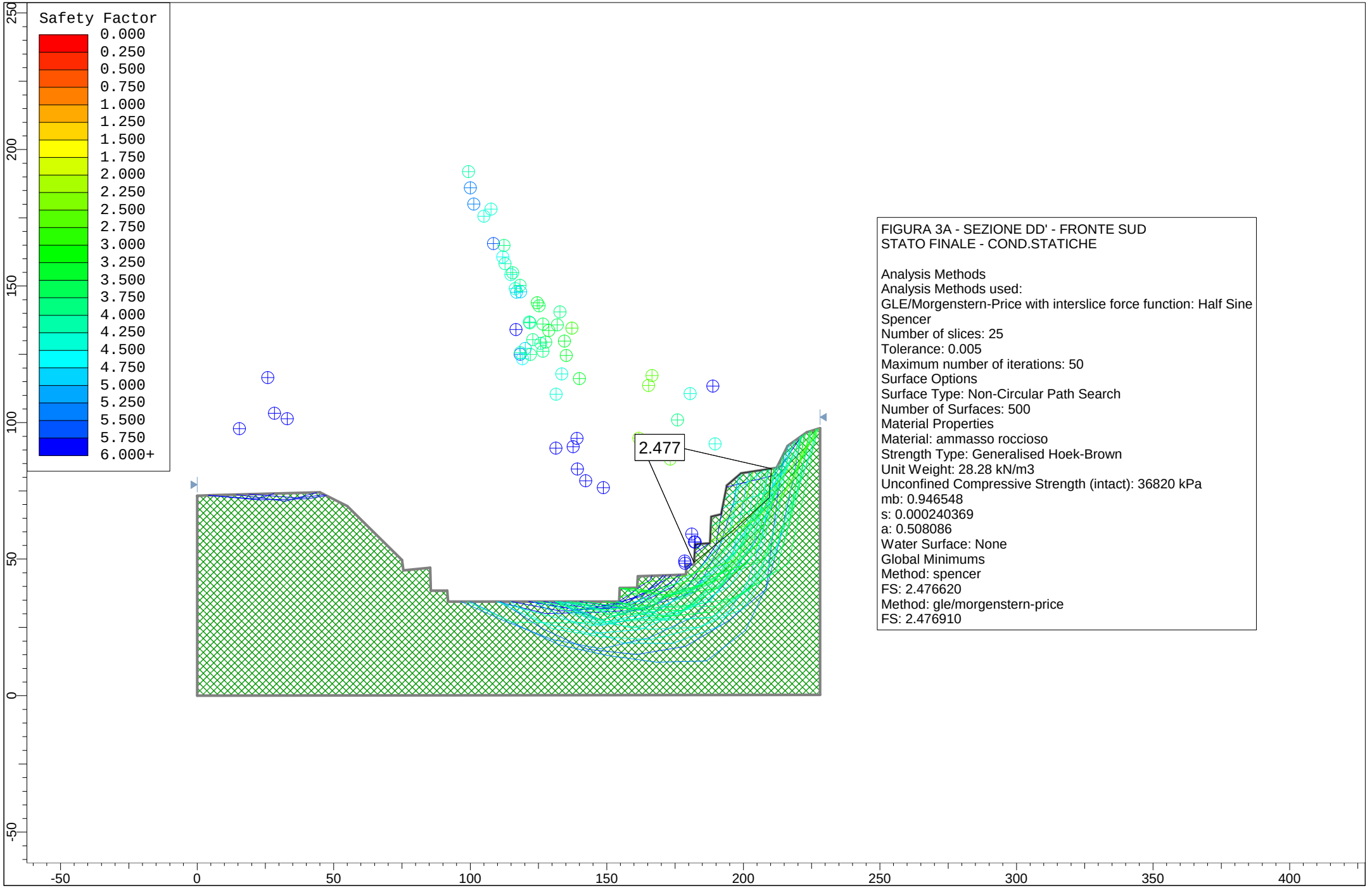


FIGURA 3A - SEZIONE DD' - FRONTE SUD
STATO FINALE - COND.STATICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 2.476620
Method: gle/morgenstern-price
FS: 2.476910

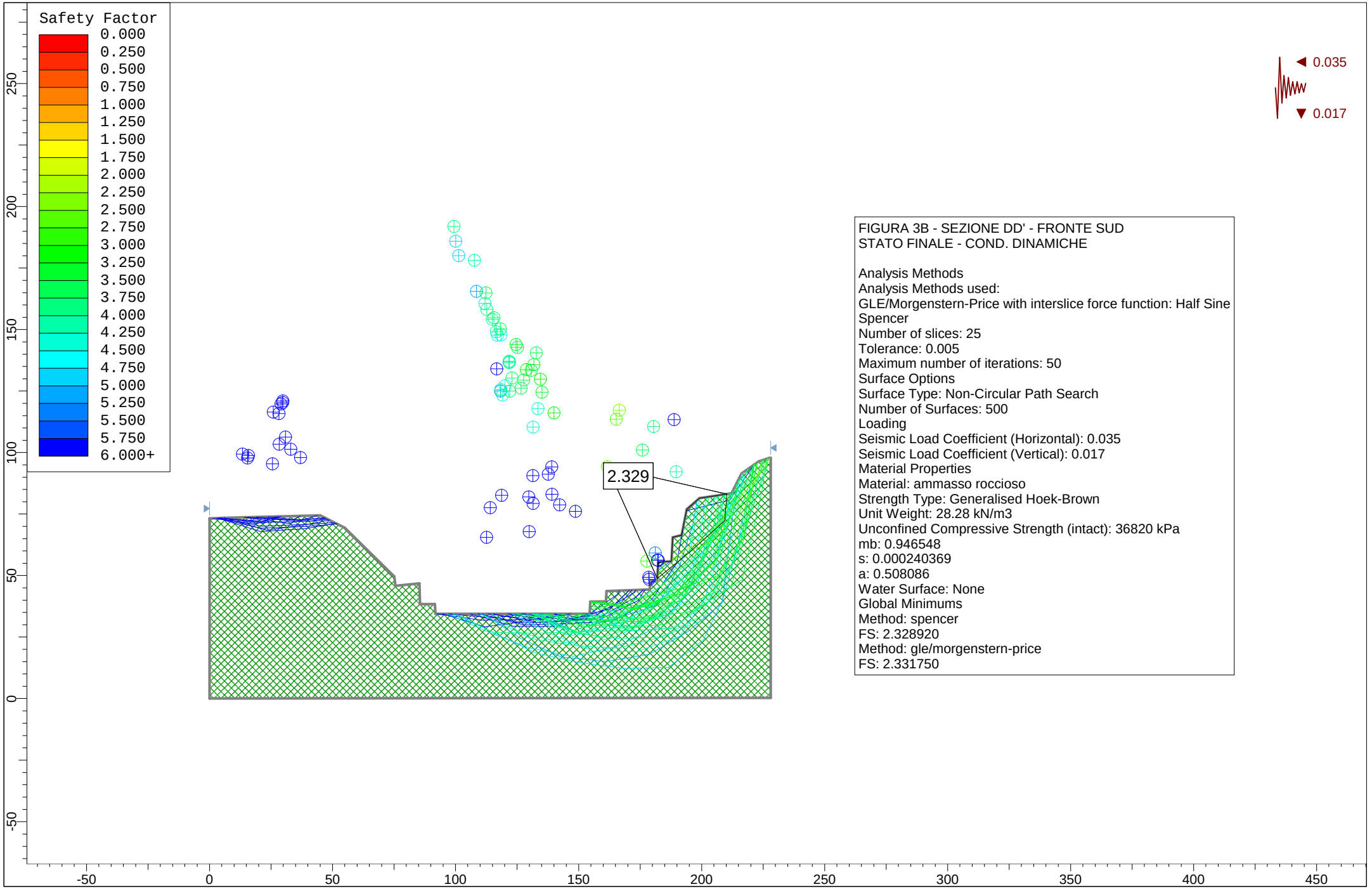


FIGURA 3B - SEZIONE DD' - FRONTE SUD
STATO FINALE - COND. DINAMICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Loading
Seismic Load Coefficient (Horizontal): 0.035
Seismic Load Coefficient (Vertical): 0.017
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 2.328920
Method: gle/morgenstern-price
FS: 2.331750

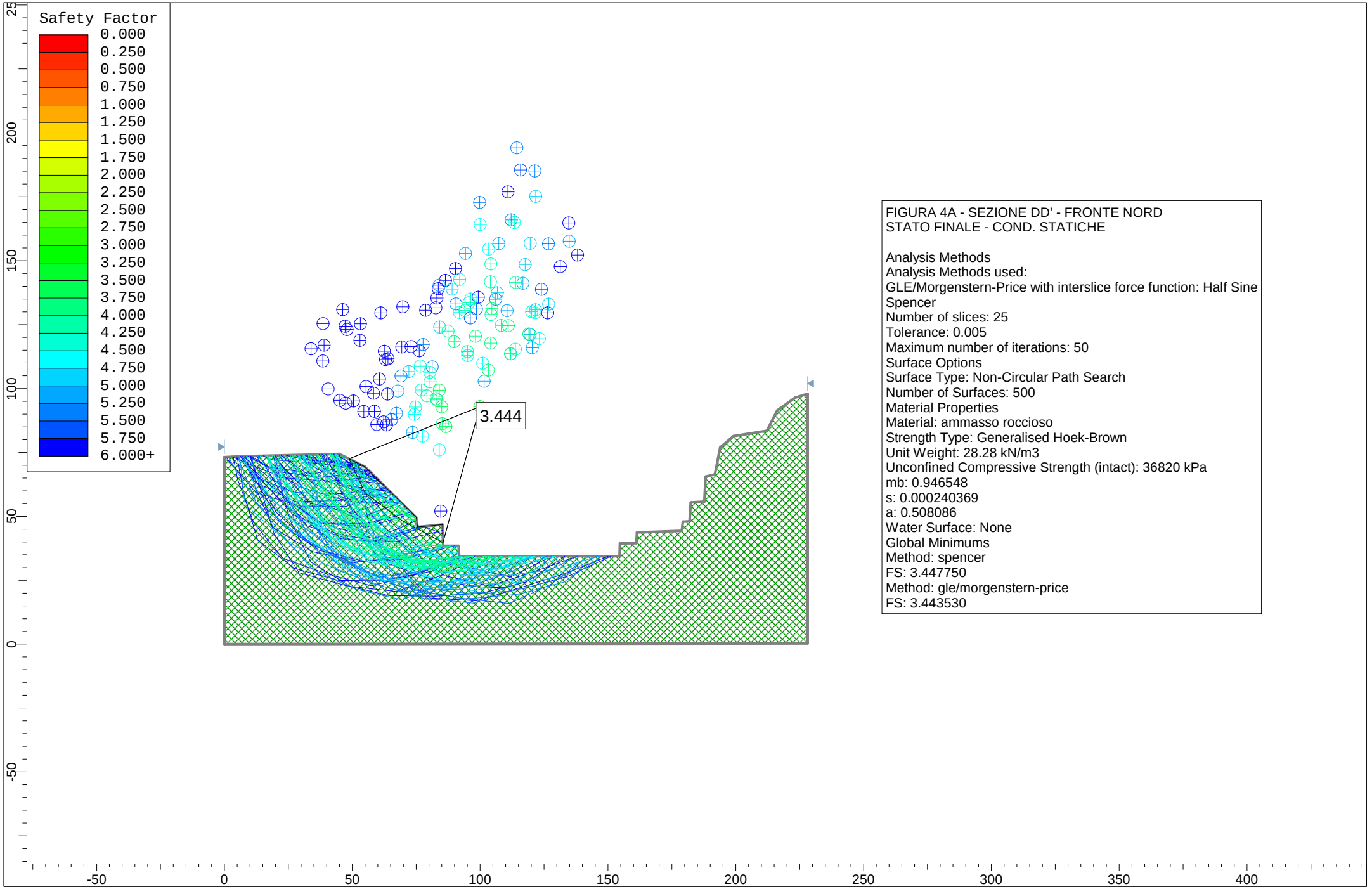
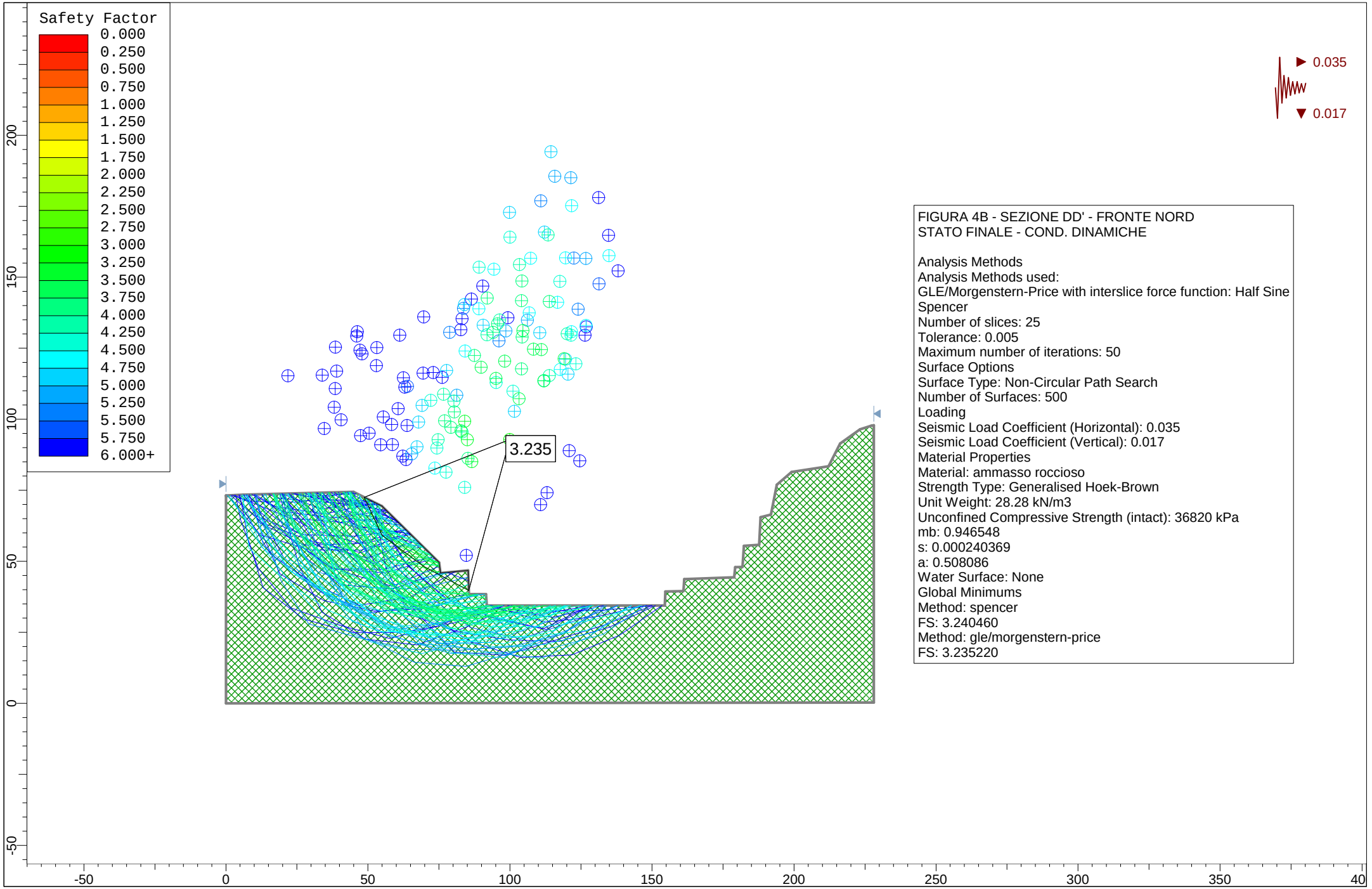


FIGURA 4A - SEZIONE DD' - FRONTE NORD
STATO FINALE - COND. STATICHE

Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 3.447750
Method: gle/morgenstern-price
FS: 3.443530


Safety Factor
0.000
0.250
0.500
0.750
1.000
1.250
1.500
1.750
2.000
2.250
2.500
2.750
3.000
3.250
3.500
3.750
4.000
4.250
4.500
4.750
5.000
5.250
5.500
5.750
6.000+
0.035
0.017
3.235
FIGURA 4B - SEZIONE DD' - FRONTE NORD
STATO FINALE - COND. DINAMICHE
Analysis Methods
Analysis Methods used:
GLE/Morgenstern-Price with interslice force function: Half Sine
Spencer
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Non-Circular Path Search
Number of Surfaces: 500
Loading
Seismic Load Coefficient (Horizontal): 0.035
Seismic Load Coefficient (Vertical): 0.017
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Global Minimums
Method: spencer
FS: 3.240460
Method: gle/morgenstern-price
FS: 3.235220
200
150
100
50
0
-50
-50
0
50
100
150
200
250
300
350
40

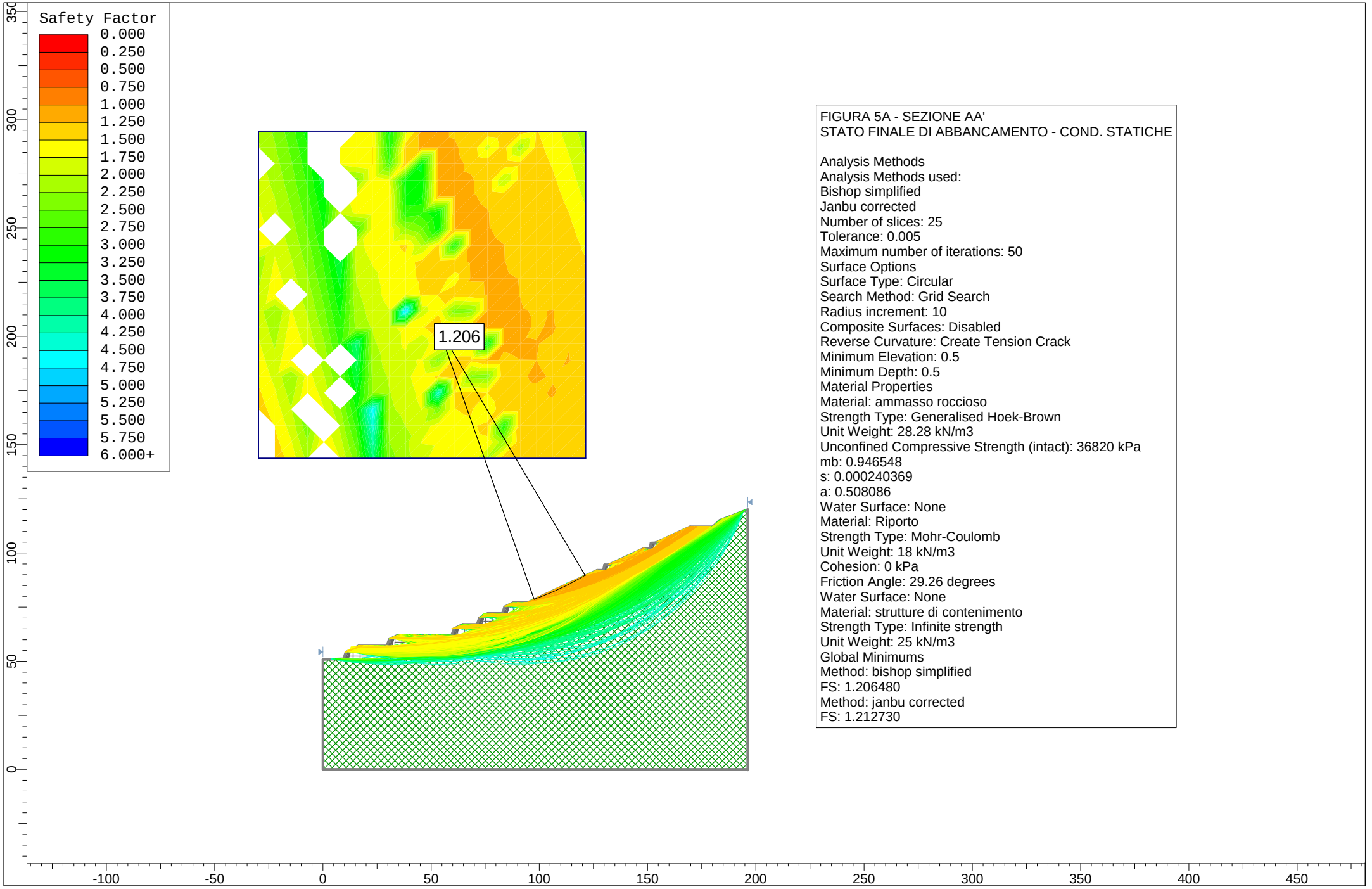


FIGURA 5A - SEZIONE AA'
STATO FINALE DI ABBANCAMENTO - COND. STATICHE

Analysis Methods
Analysis Methods used:
Bishop simplified
Janbu corrected
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Circular
Search Method: Grid Search
Radius increment: 10
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack
Minimum Elevation: 0.5
Minimum Depth: 0.5
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Material: Riporto
Strength Type: Mohr-Coulomb
Unit Weight: 18 kN/m3
Cohesion: 0 kPa
Friction Angle: 29.26 degrees
Water Surface: None
Material: strutture di contenimento
Strength Type: Infinite strength
Unit Weight: 25 kN/m3
Global Minimums
Method: bishop simplified
FS: 1.206480
Method: janbu corrected
FS: 1.212730

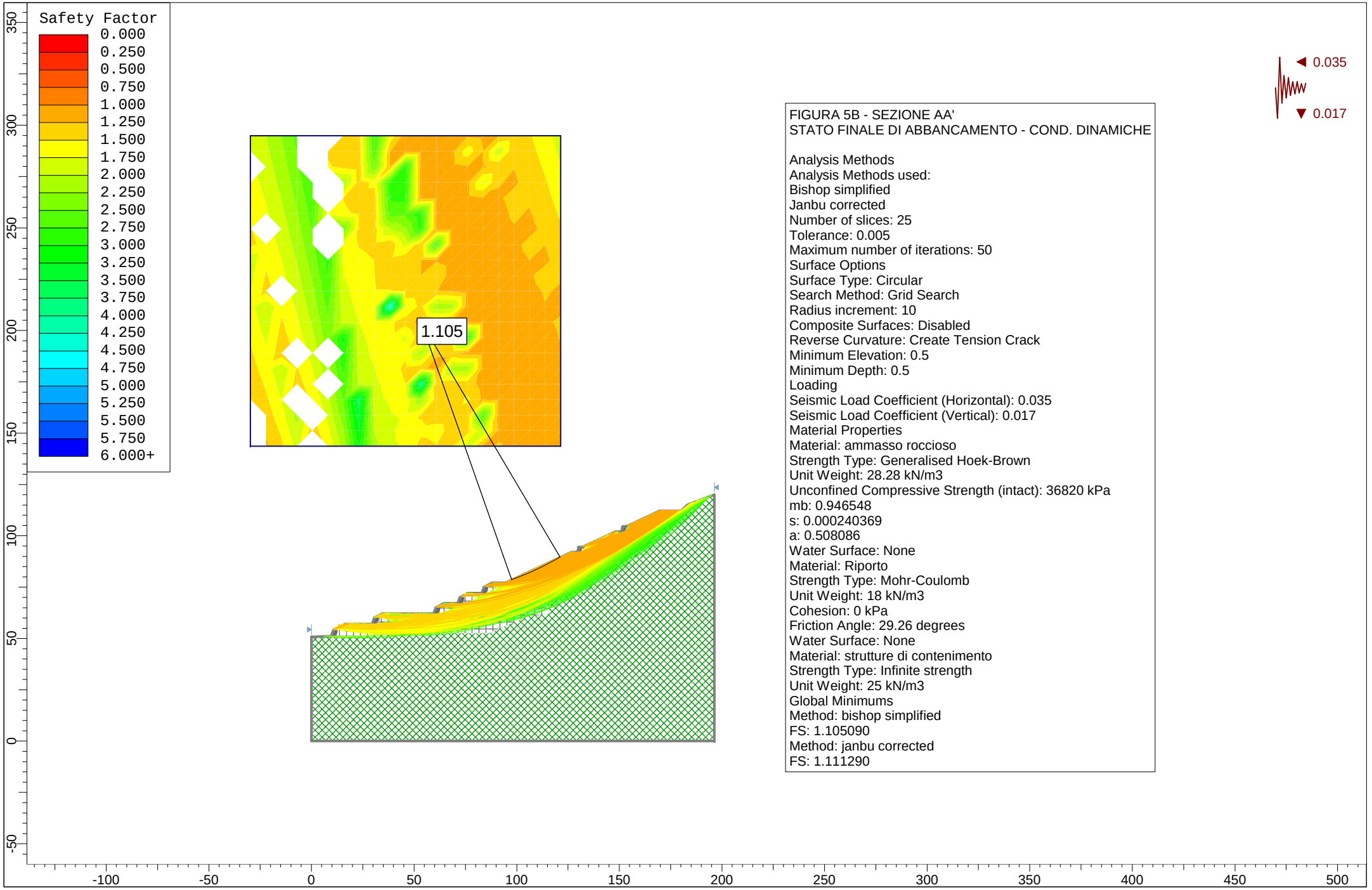


FIGURA 5B - SEZIONE AA'
STATO FINALE DI ABBANCAMENTO - COND. DINAMICHE

Analysis Methods
Analysis Methods used:
Bishop simplified
Janbu corrected
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Circular
Search Method: Grid Search
Radius increment: 10
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack
Minimum Elevation: 0.5
Minimum Depth: 0.5
Loading
Seismic Load Coefficient (Horizontal): 0.035
Seismic Load Coefficient (Vertical): 0.017
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Material: Riporto
Strength Type: Mohr-Coulomb
Unit Weight: 18 kN/m3
Cohesion: 0 kPa
Friction Angle: 29.26 degrees
Water Surface: None
Material: strutture di contenimento
Strength Type: Infinite strength
Unit Weight: 25 kN/m3
Global Minimums
Method: bishop simplified
FS: 1.105090
Method: janbu corrected
FS: 1.111290

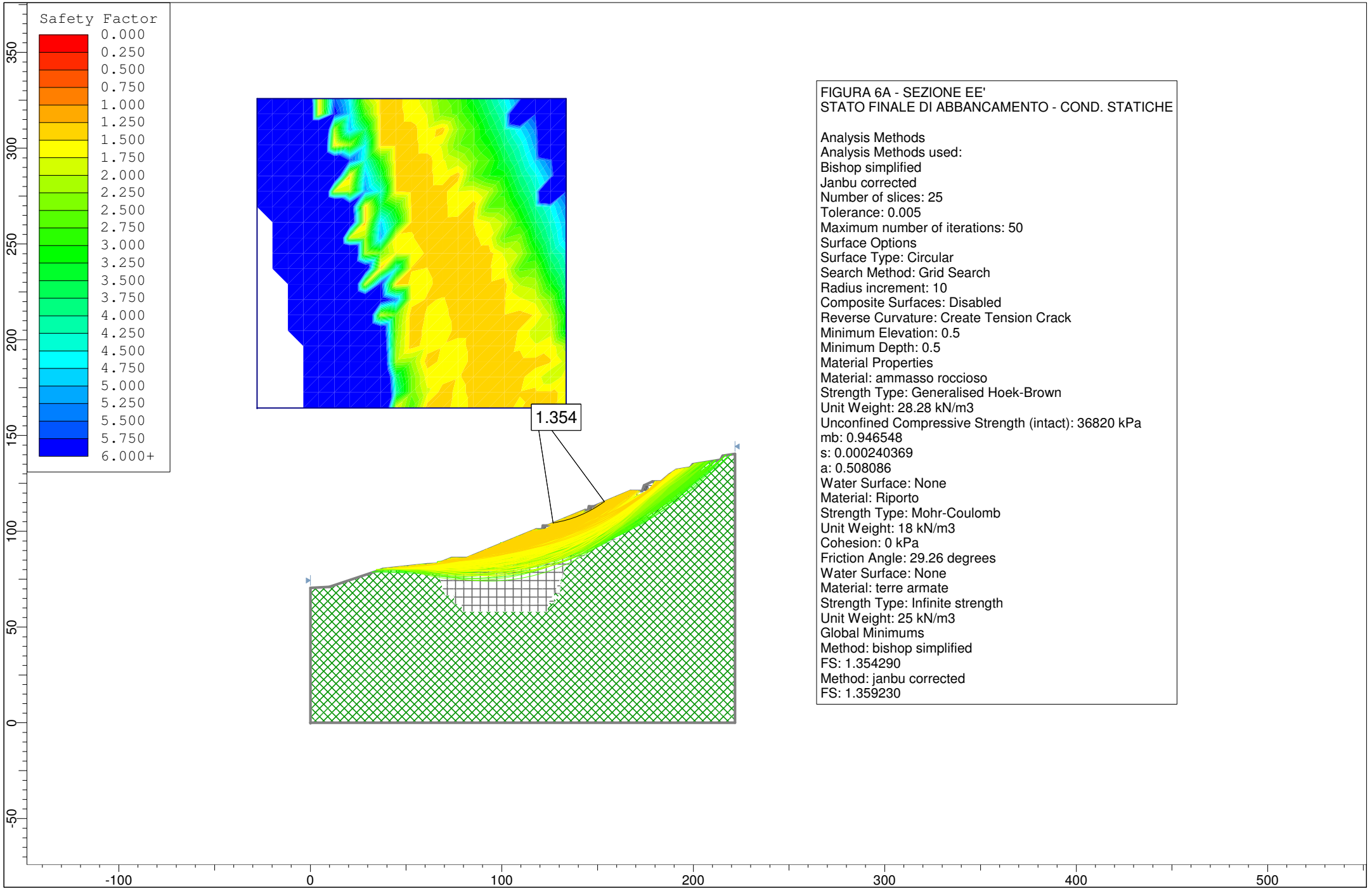


FIGURA 6A - SEZIONE EE'
STATO FINALE DI ABBANCAMENTO - COND. STATICHE

Analysis Methods
Analysis Methods used:
Bishop simplified
Janbu corrected
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Circular
Search Method: Grid Search
Radius increment: 10
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack
Minimum Elevation: 0.5
Minimum Depth: 0.5
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Material: Riporto
Strength Type: Mohr-Coulomb
Unit Weight: 18 kN/m3
Cohesion: 0 kPa
Friction Angle: 29.26 degrees
Water Surface: None
Material: terre armate
Strength Type: Infinite strength
Unit Weight: 25 kN/m3
Global Minimums
Method: bishop simplified
FS: 1.354290
Method: janbu corrected
FS: 1.359230

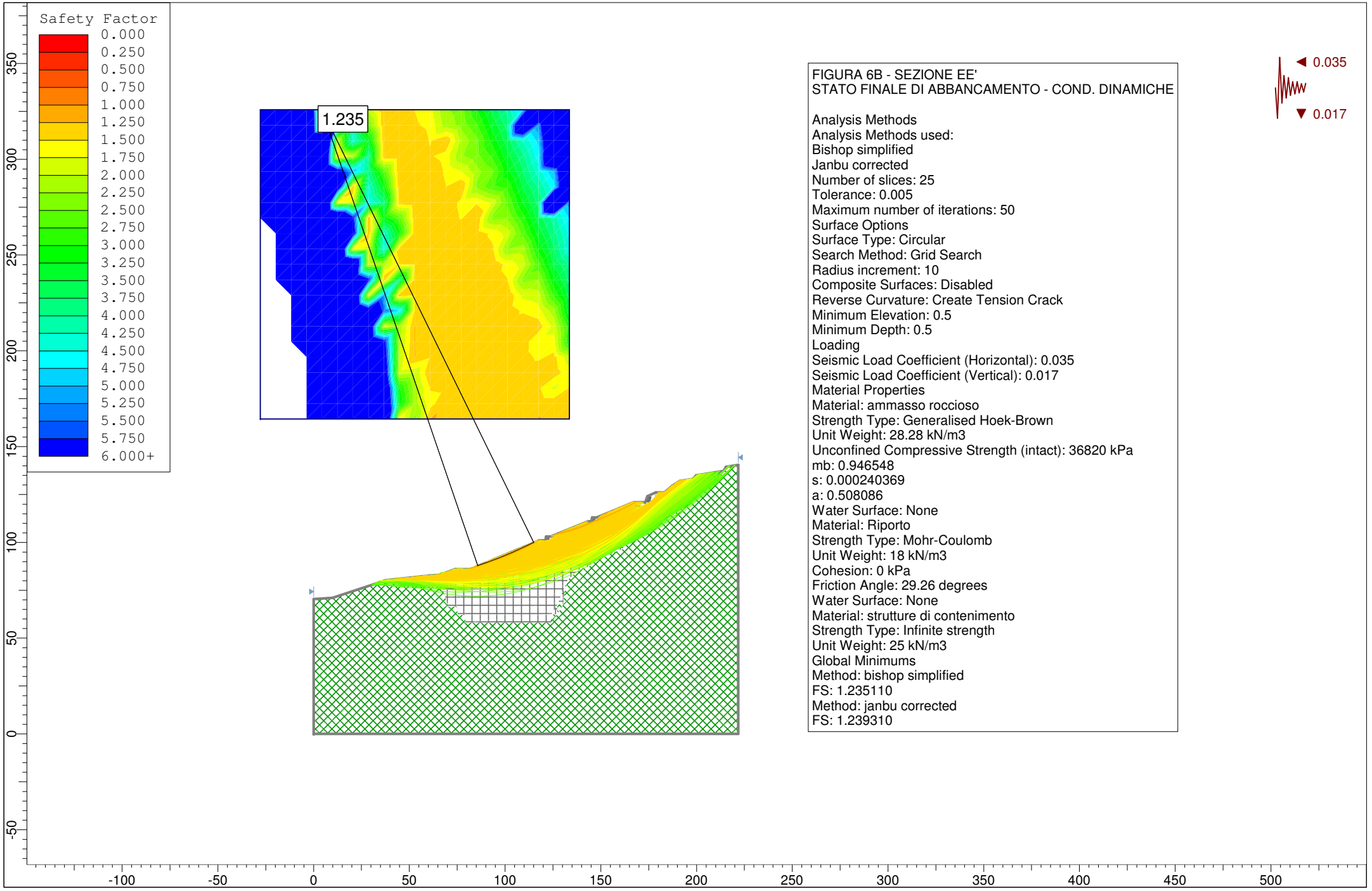


FIGURA 6B - SEZIONE EE'
STATO FINALE DI ABBANCAMENTO - COND. DINAMICHE

Analysis Methods
Analysis Methods used:
Bishop simplified
Janbu corrected
Number of slices: 25
Tolerance: 0.005
Maximum number of iterations: 50
Surface Options
Surface Type: Circular
Search Method: Grid Search
Radius increment: 10
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack
Minimum Elevation: 0.5
Minimum Depth: 0.5
Loading
Seismic Load Coefficient (Horizontal): 0.035
Seismic Load Coefficient (Vertical): 0.017
Material Properties
Material: ammasso roccioso
Strength Type: Generalised Hoek-Brown
Unit Weight: 28.28 kN/m3
Unconfined Compressive Strength (intact): 36820 kPa
mb: 0.946548
s: 0.000240369
a: 0.508086
Water Surface: None
Material: Riporto
Strength Type: Mohr-Coulomb
Unit Weight: 18 kN/m3
Cohesion: 0 kPa
Friction Angle: 29.26 degrees
Water Surface: None
Material: strutture di contenimento
Strength Type: Infinite strength
Unit Weight: 25 kN/m3
Global Minimums
Method: bishop simplified
FS: 1.235110
Method: janbu corrected
FS: 1.239310