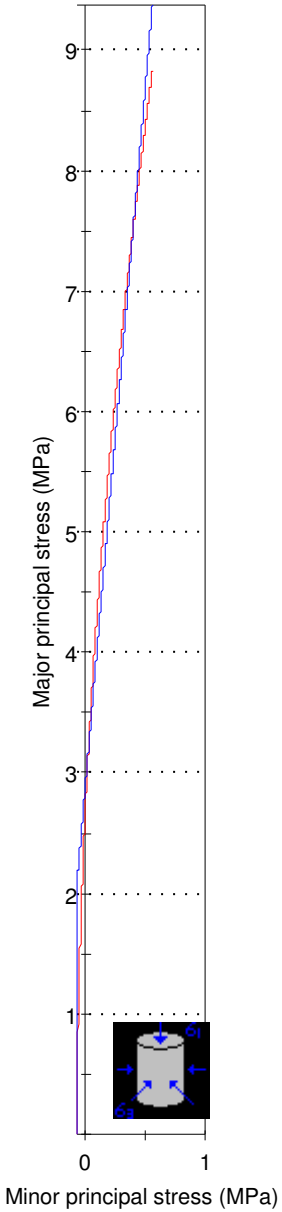
APPENDICE B

ANALISI DELLE PROVE DI LABORATORIO

(RockLab v. 1.0, Rockscience Inc.)

Calcari Noli - Imbocco lato Finale



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 45 MPa
GSI = 50 mi = 15 Disturbance factor (D) = 0
intact modulus (Ei) = 50000 MPa

Hoek-Brown Criterion

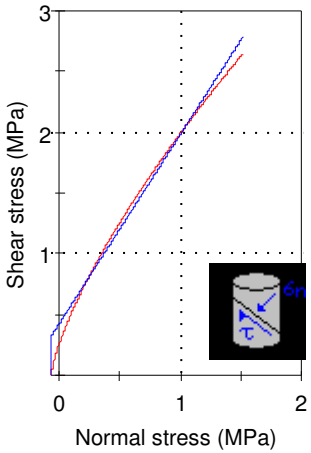
mb = 2.515 s = 0.0039 a = 0.506

Mohr-Coulomb Fit

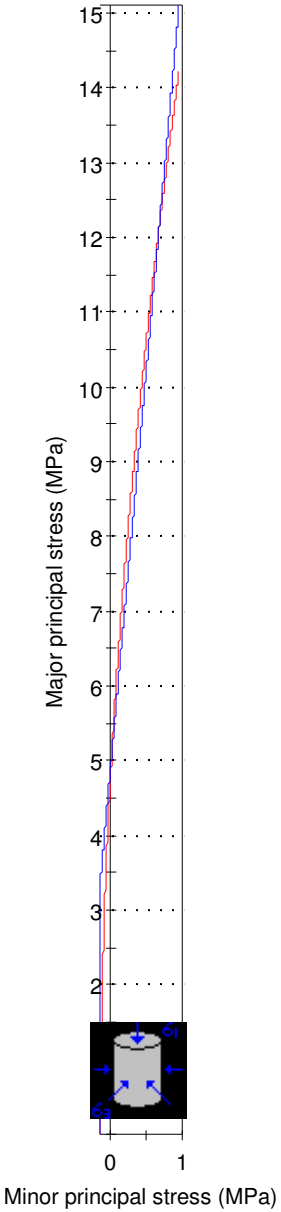
cohesion = 0.426 MPa friction angle = 57.27 deg

Rock Mass Parameters

tensile strength = -0.069 MPa
uniaxial compressive strength = 2.710 MPa
global strength = 9.529 MPa
deformation modulus = 15359.30 MPa



Calcari Noli - Calcari profondi



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 45 MPa
GSI = 60 mi = 15 Disturbance factor (D) = 0
intact modulus (Ei) = 50000 MPa

Hoek-Brown Criterion

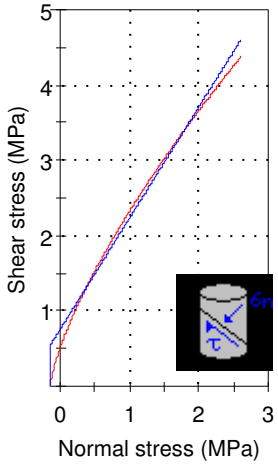
mb = 3.595 s = 0.0117 a = 0.503

Mohr-Coulomb Fit

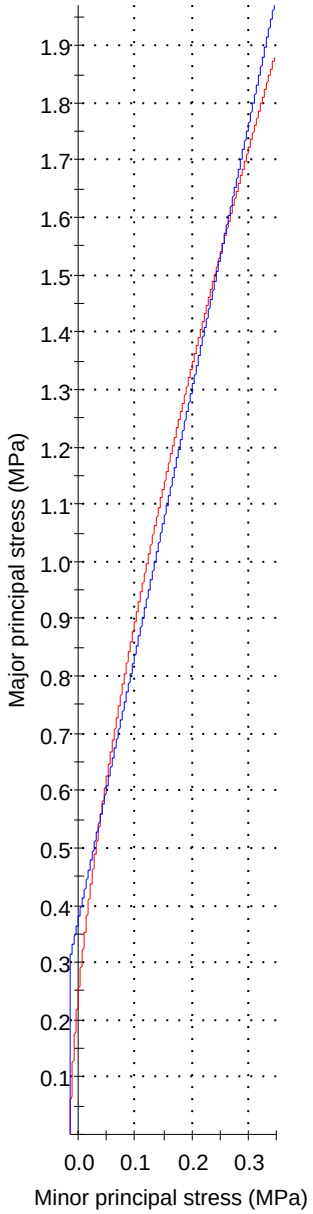
cohesion = 0.755 MPa friction angle = 55.92 deg

Rock Mass Parameters

tensile strength = -0.147 MPa
uniaxial compressive strength = 4.815 MPa
global strength = 11.792 MPa
deformation modulus = 26000.00 MPa



Dolomie Noli - Imbocco lato Noli



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 67 MPa
GSI = 12 mi = 6 Disturbance factor (D) = 0
intact modulus (Ei) = 63000 MPa

Hoek-Brown Criterion

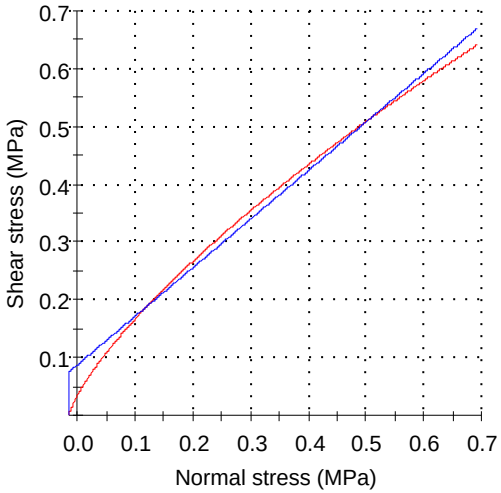
mb = 0.259 s = 0.0001 a = 0.575

Mohr-Coulomb Fit

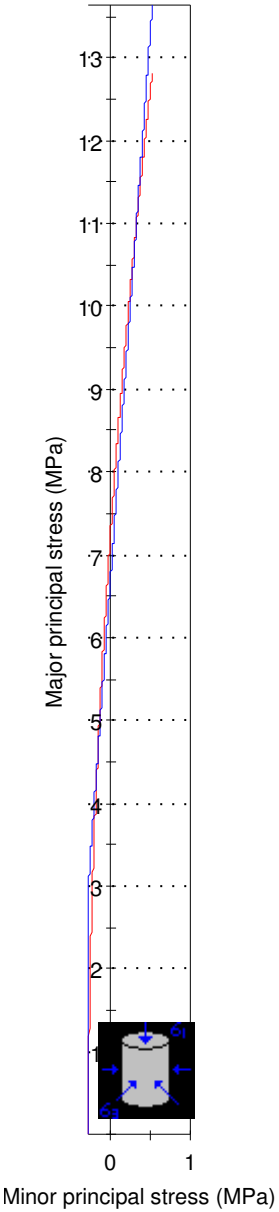
cohesion = 0.087 MPa friction angle = 40.04 deg

Rock Mass Parameters

tensile strength = -0.015 MPa
uniaxial compressive strength = 0.243 MPa
global strength = 2.927 MPa
deformation modulus = 2052.03 MPa



Dolomie Noli - Tratto Profondo - prof. 35m



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 67 MPa
GSI = 60 mi = 12 Disturbance factor (D) = 0
intact modulus (Ei) = 63000 MPa

Hoek-Brown Criterion

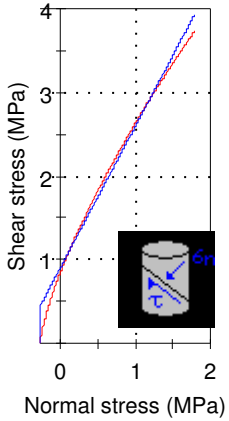
mb = 2.876 s = 0.0117 a = 0.503

Mohr-Coulomb Fit

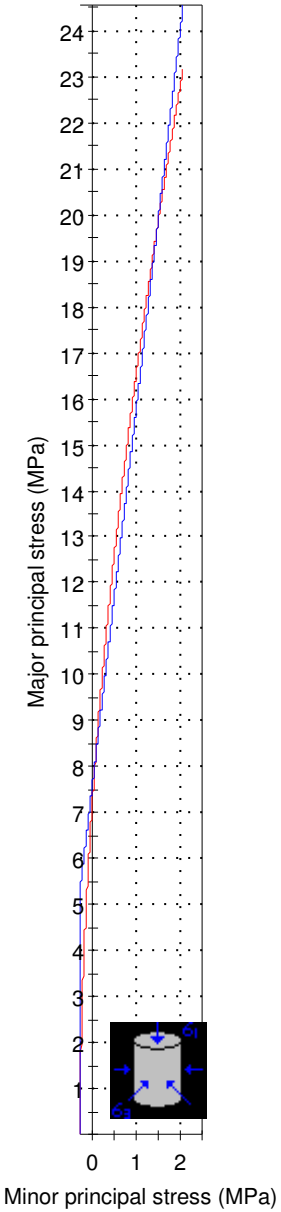
cohesion = 0.907 MPa friction angle = 59.37 deg

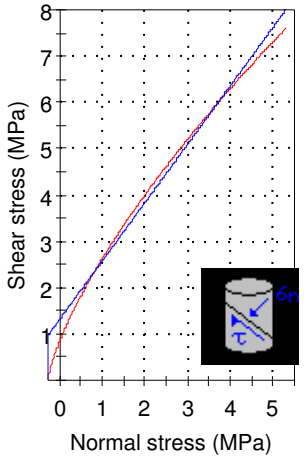
Rock Mass Parameters

tensile strength = -0.274 MPa
uniaxial compressive strength = 7.170 MPa
global strength = 15.864 MPa
deformation modulus = 32760.00 MPa



Dolomie Noli - Tratto Profondo - prof. 150m





Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 67 MPa
GSI = 60 mi = 12 Disturbance factor (D) = 0
intact modulus (Ei) = 63000 MPa

Hoek-Brown Criterion

mb = 2.876 s = 0.0117 a = 0.503

Mohr-Coulomb Fit

cohesion = 1.317 MPa friction angle = 51.57 deg

Rock Mass Parameters

tensile strength = -0.274 MPa
uniaxial compressive strength = 7.170 MPa
global strength = 15.864 MPa
deformation modulus = 32760.00 MPa