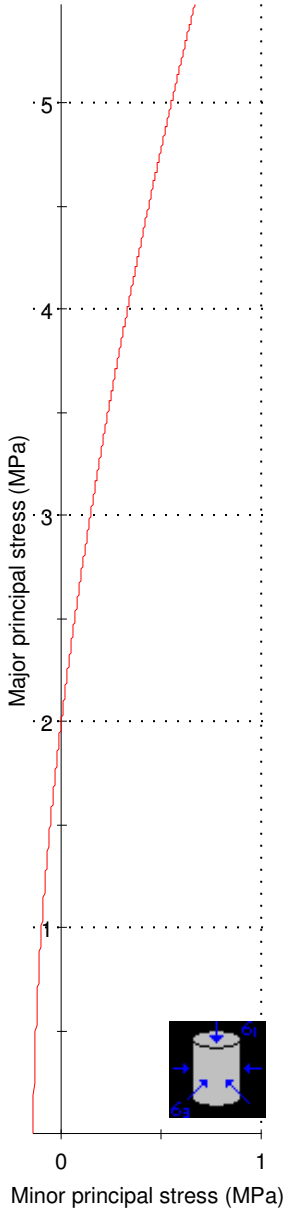
Analysis of Rock Strength using RocLab



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 58 MPa
GSI = 56 mi = 7 Disturbance factor (D) = 0.8
intact modulus (Ei) = 29000 MPa
modulus ratio (MR) = 500

Hoek-Brown Criterion

mb = 0.510 s = 0.0013 a = 0.504

Mohr-Coulomb Fit

cohesion = 0.408 MPa friction angle = 44.75 deg

Rock Mass Parameters

tensile strength = -0.145 MPa
uniaxial compressive strength = 2.018 MPa
global strength = 5.608 MPa
deformation modulus = 3873.87 MPa

