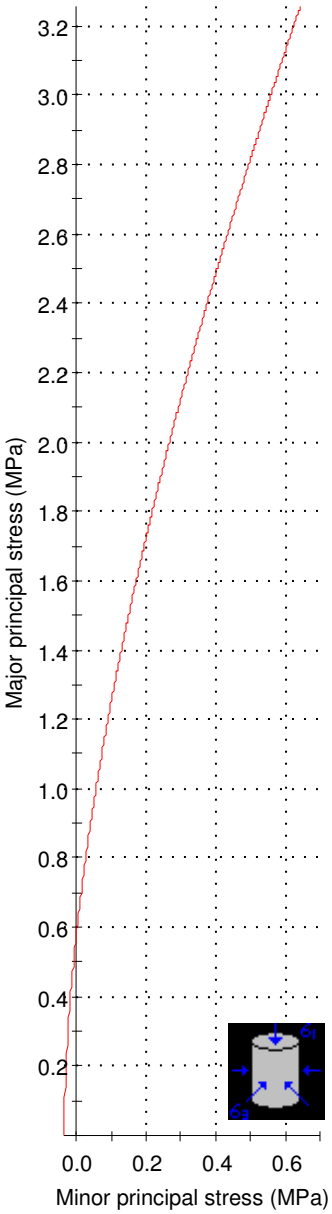
Analysis of Rock Strength using RocLab



Hoek-Brown Classification

intact uniaxial comp. strength (sigci) = 51 MPa
GSI = 42 mi = 7 Disturbance factor (D) = 0.8
intact modulus (Ei) = 25500 MPa
modulus ratio (MR) = 500

Hoek-Brown Criterion

mb = 0.222 s = 0.0002 a = 0.510

Mohr-Coulomb Fit

cohesion = 0.194 MPa friction angle = 37.50 deg

Rock Mass Parameters

tensile strength = -0.035 MPa
uniaxial compressive strength = 0.577 MPa
global strength = 3.047 MPa
deformation modulus = 1449.16 MPa

