

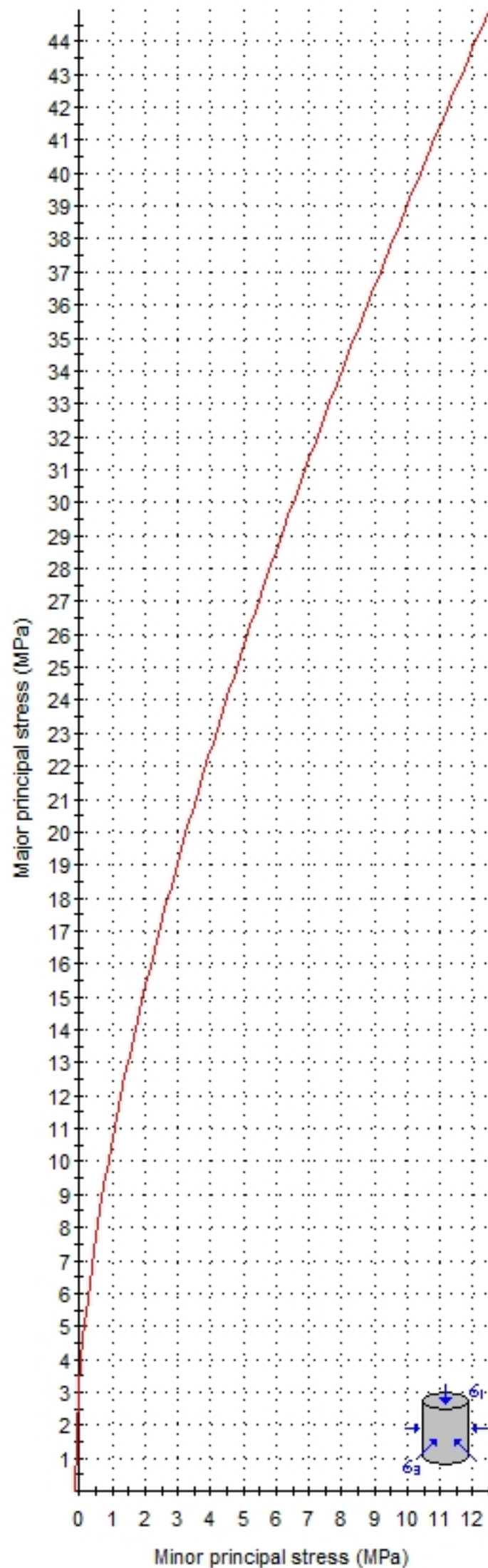
## დანართი - 3 RocLab-ის პროდუქტი

### Appendix – 3 RocLab Outputs

# ამისთვის კლასი III

## for Class III

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 50 MPa  
GSI = 55  $m_i$  = 10 Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 20000 MPa  
modulus ratio (MR) = 400

### Hoek-Brown Criterion

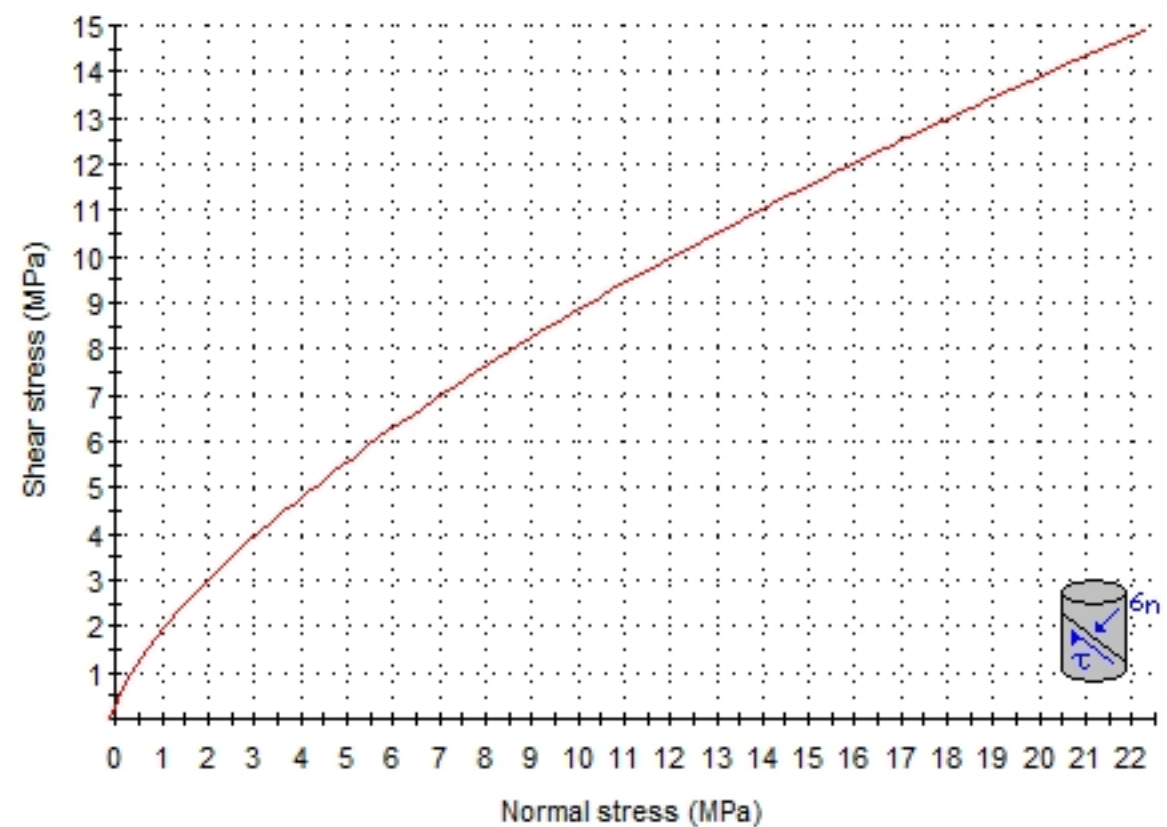
$m_b$  = 1.677  $s$  = 0.0047  $a$  = 0.504

### Mohr-Coulomb Fit

cohesion = 2.525 MPa friction angle = 30.50 deg

### Rock Mass Parameters

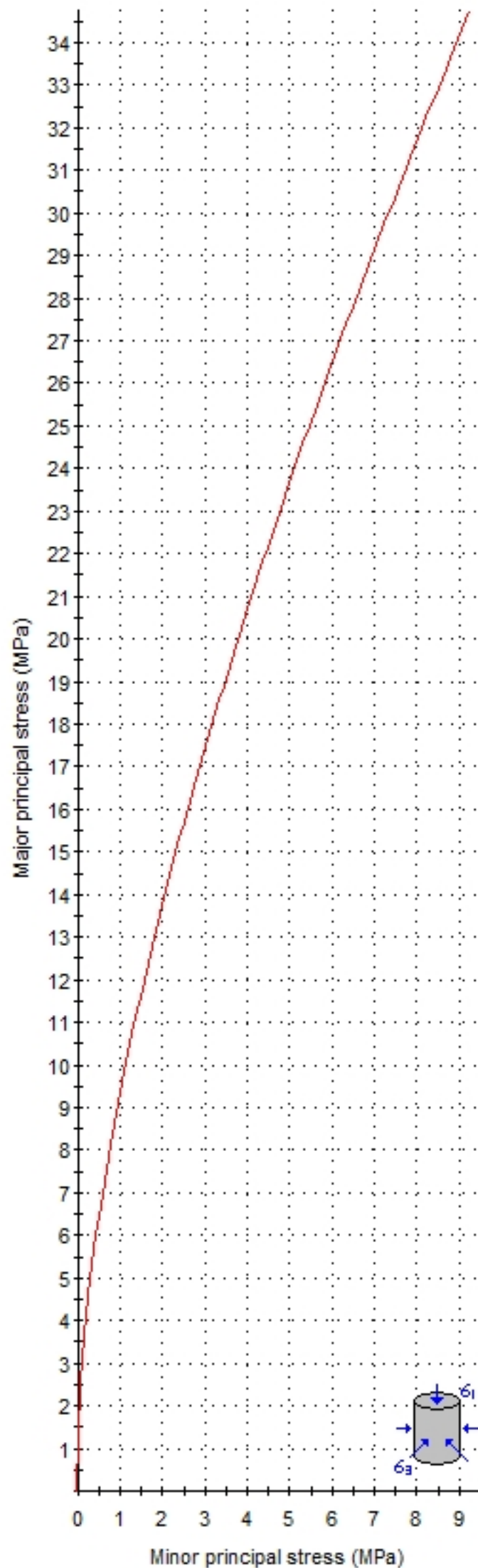
tensile strength = -0.141 MPa  
uniaxial compressive strength = 3.359 MPa  
global strength = 8.834 MPa  
deformation modulus = 6264.28 MPa



# ამისთვის კლასი IV

## for Class IV

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 37 MPa  
GSI = 45     $m_i$  = 17    Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 14800 MPa  
modulus ratio (MR) = 400

### Hoek-Brown Criterion

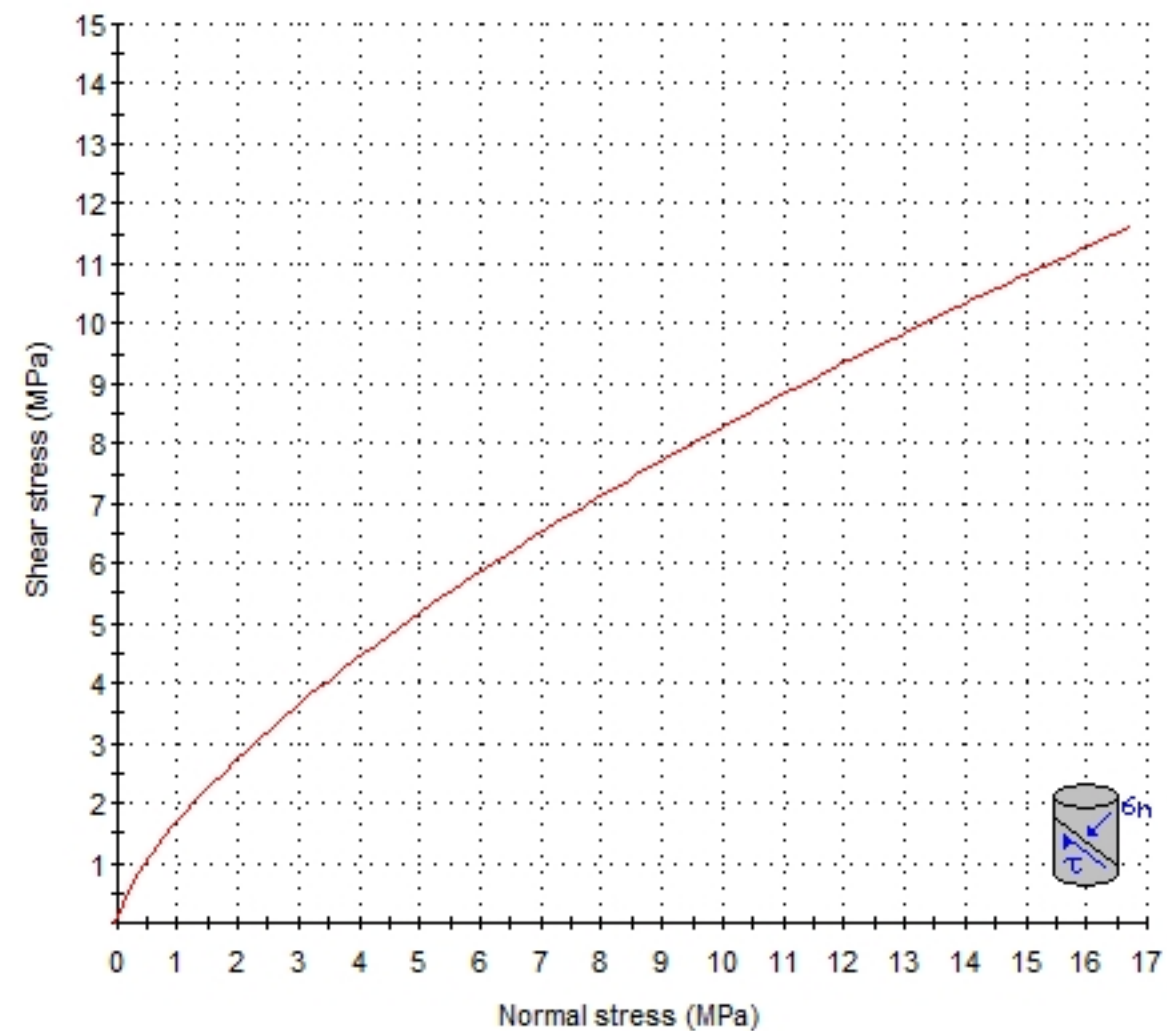
$m_b$  = 1.917     $s$  = 0.0014     $a$  = 0.508

### Mohr-Coulomb Fit

cohesion = 1.867 MPa    friction angle = 31.70 deg

### Rock Mass Parameters

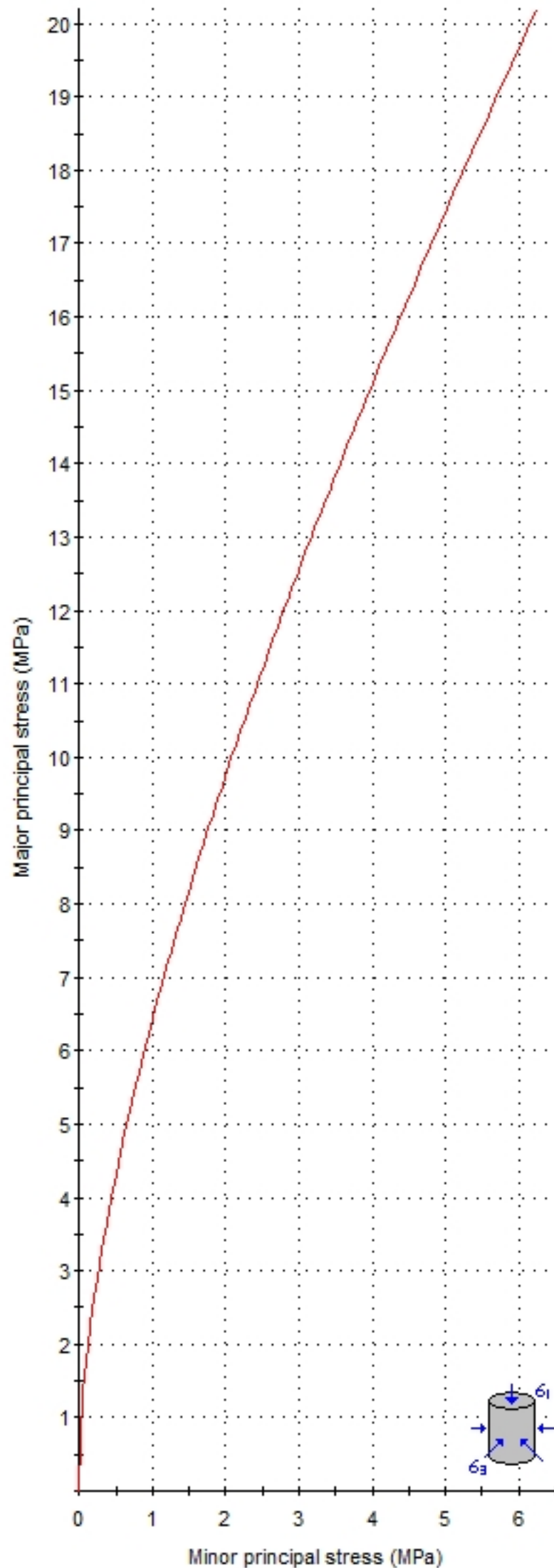
tensile strength = -0.028 MPa  
uniaxial compressive strength = 1.329 MPa  
global strength = 6.694 MPa  
deformation modulus = 2466.63 MPa



# ამისთვის კლასი V

## for Class V

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 25 MPa  
GSI = 35    $m_i$  = 17   Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 6250 MPa  
modulus ratio (MR) = 250

### Hoek-Brown Criterion

$m_b$  = 1.289    $s$  = 0.0004    $a$  = 0.516

### Mohr-Coulomb Fit

cohesion = 1.061 MPa   friction angle = 28.35 deg

### Rock Mass Parameters

tensile strength = -0.008 MPa  
uniaxial compressive strength = 0.461 MPa  
global strength = 3.555 MPa  
deformation modulus = 534.12 MPa

