

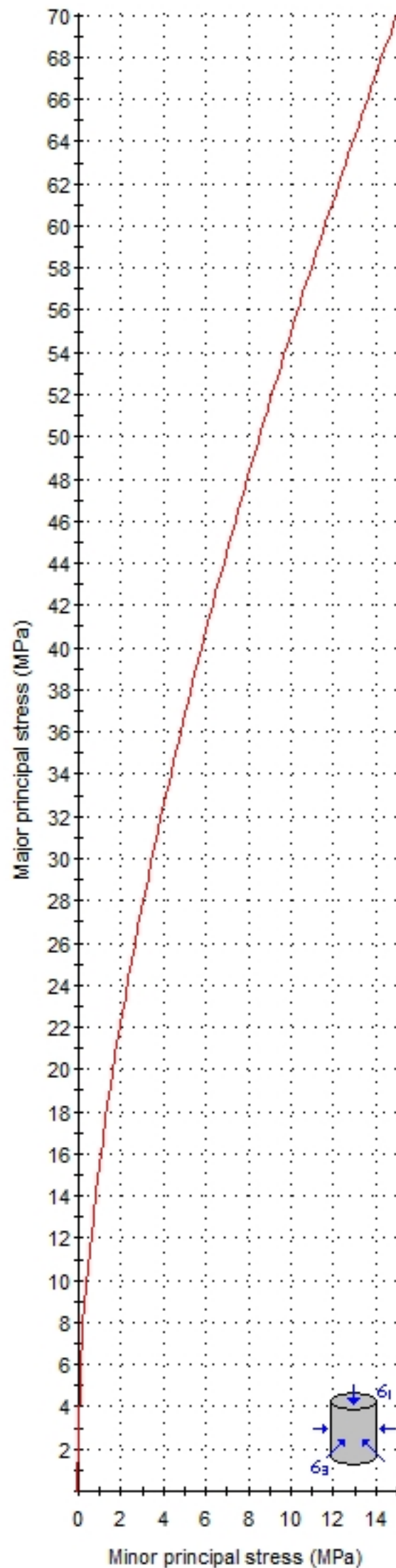
## დანართი - 3 RocLab-ის პროდუქტი

### Appendix – 3 RocLab Outputs

# ამისთვის კლასი III

## for Class III

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 60 MPa  
GSI = 55    $m_i$  = 20   Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 18000 MPa  
modulus ratio (MR) = 300

### Hoek-Brown Criterion

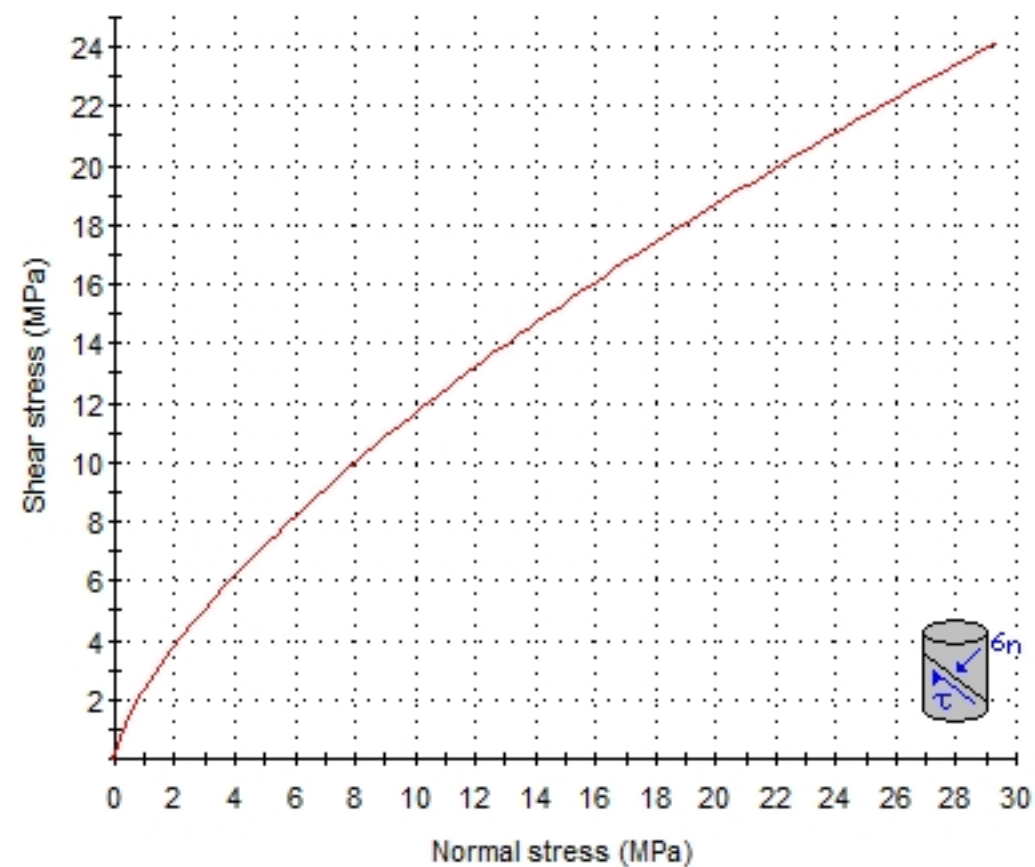
$m_b$  = 3.354    $s$  = 0.0047    $a$  = 0.504

### Mohr-Coulomb Fit

cohesion = 3.719 MPa   friction angle = 36.47 deg

### Rock Mass Parameters

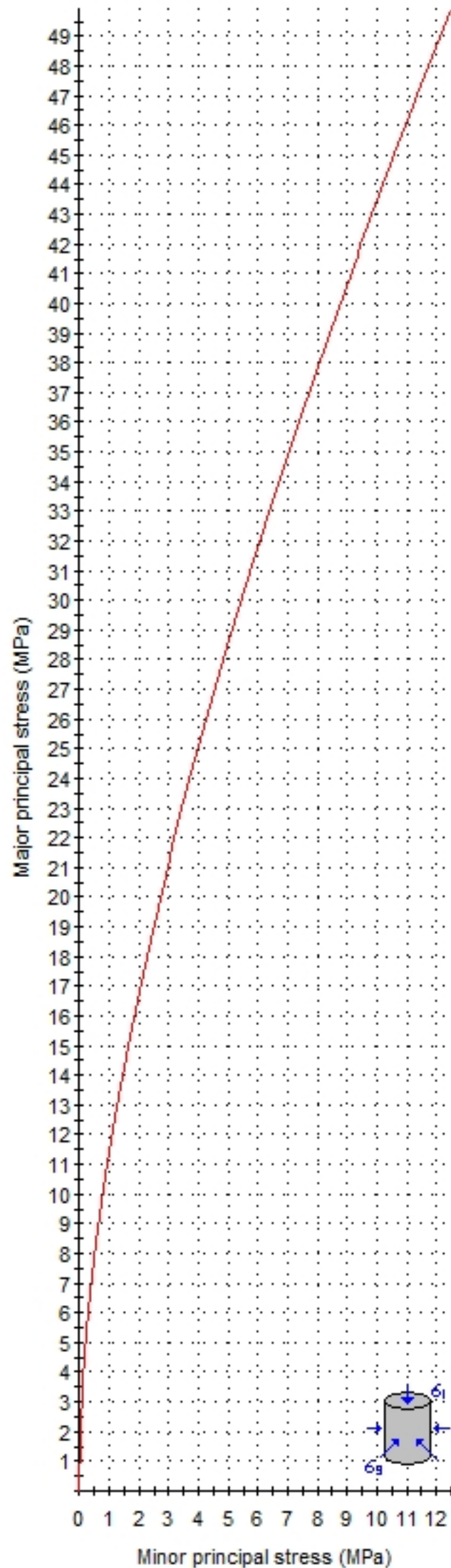
tensile strength = -0.084 MPa  
uniaxial compressive strength = 4.031 MPa  
global strength = 14.747 MPa  
deformation modulus = 5637.85 MPa



# ამისთვის კლასი IV

## for Class IV

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 50 MPa  
GSI = 45     $m_i$  = 20    Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 15000 MPa  
modulus ratio (MR) = 300

### Hoek-Brown Criterion

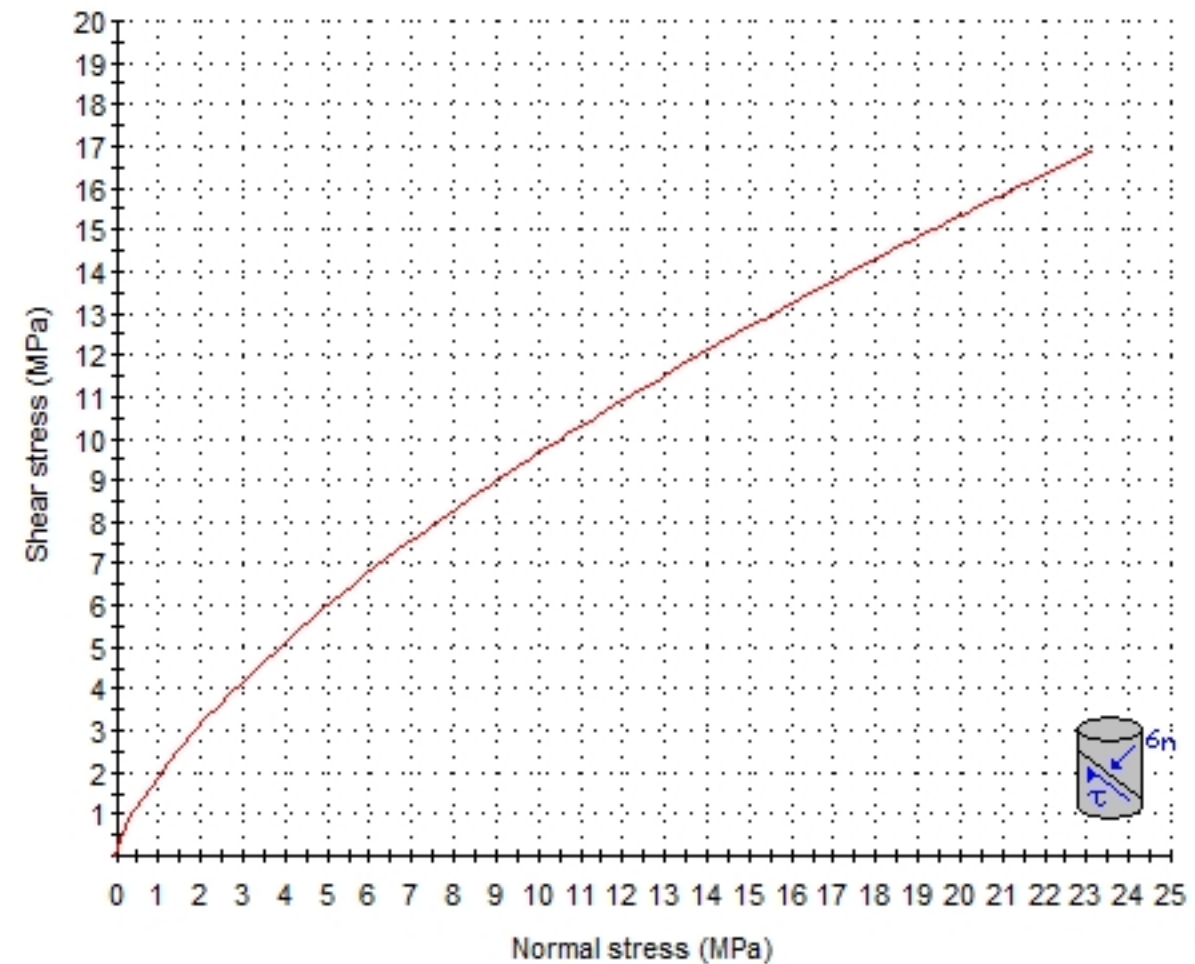
$m_b$  = 2.255     $s$  = 0.0014     $a$  = 0.508

### Mohr-Coulomb Fit

cohesion = 2.657 MPa    friction angle = 33.10 deg

### Rock Mass Parameters

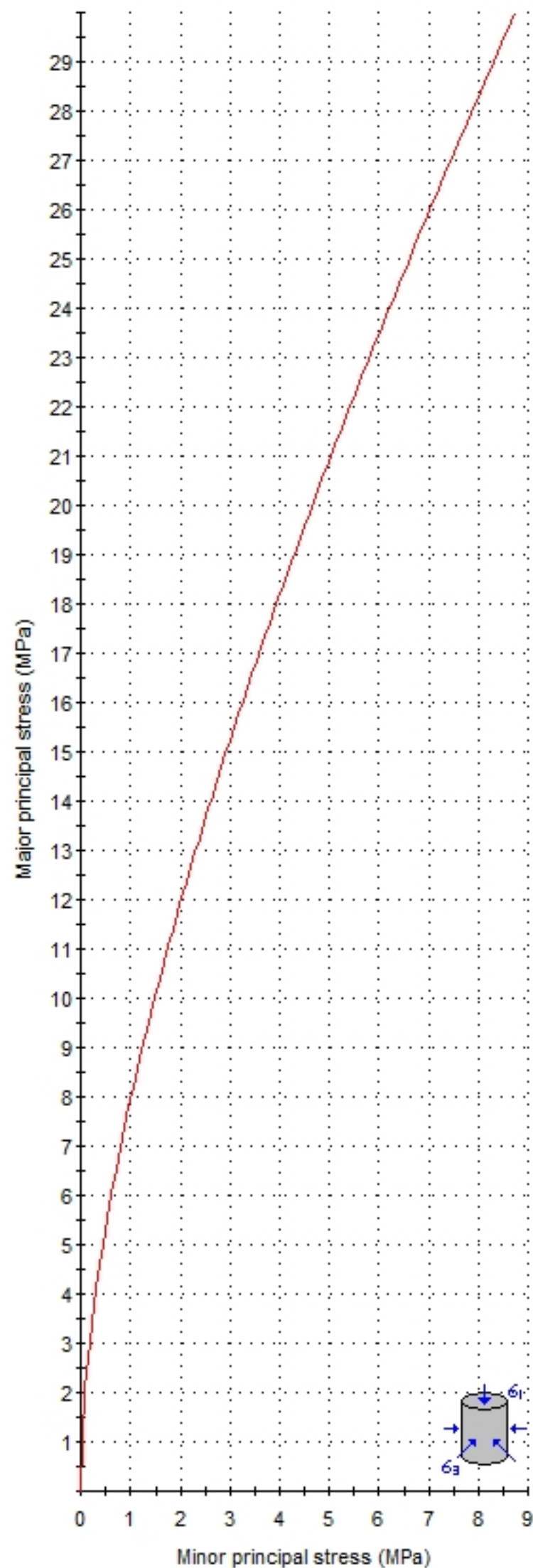
tensile strength = -0.032 MPa  
uniaxial compressive strength = 1.795 MPa  
global strength = 9.809 MPa  
deformation modulus = 2499.97 MPa



# ამისთვის კლასი V

## for Class V

## Analysis of Rock Strength using RocLab



### Hoek-Brown Classification

intact uniaxial comp. strength ( $\sigma_{ci}$ ) = 35 MPa  
GSI = 35    $m_i$  = 20   Disturbance factor (D) = 0.2  
intact modulus ( $E_i$ ) = 10500 MPa  
modulus ratio (MR) = 300

### Hoek-Brown Criterion

$m_b$  = 1.516    $s$  = 0.0004    $a$  = 0.516

### Mohr-Coulomb Fit

cohesion = 1.570 MPa   friction angle = 29.73 deg

### Rock Mass Parameters

tensile strength = -0.010 MPa  
uniaxial compressive strength = 0.646 MPa  
global strength = 5.409 MPa  
deformation modulus = 897.32 MPa

