

TECHNICAL DATA SHEET

**High-tensile steel wire mesh MINAX® 80/4  
for dynamic ground support applications**

MINAX® high-performance steel wire mesh	
Mesh shape:	rhomboid
Diagonal:	$x \cdot y = 102 \cdot 177 \text{ mm (+/-3\%)}$
Mesh width:	$D_i = 80 \text{ mm (+/-3\%)}$
Angle of mesh:	$\epsilon = 49 \text{ degrees}$
Total height of mesh:	$h_{tot} = 15 \text{ mm (+/-1 mm)}$
Clearance of mesh:	$h_i = 7 \text{ mm (+/-1 mm)}$
No. of meshes longitudinal:	$n_l = 5.6 \text{ pcs/m}$
No. of meshes transversal:	$n_q = 9.8 \text{ pcs/m}$

MINAX® steel wire	
Wire diameter:	$d = 4.0 \text{ mm}$
Tensile strength:	$f_t \geq 1'770 \text{ N/mm}^2$
Material:	high-tensile steel wire
Tensile resistance of a wire:	$Z_w = 22.0 \text{ kN}$

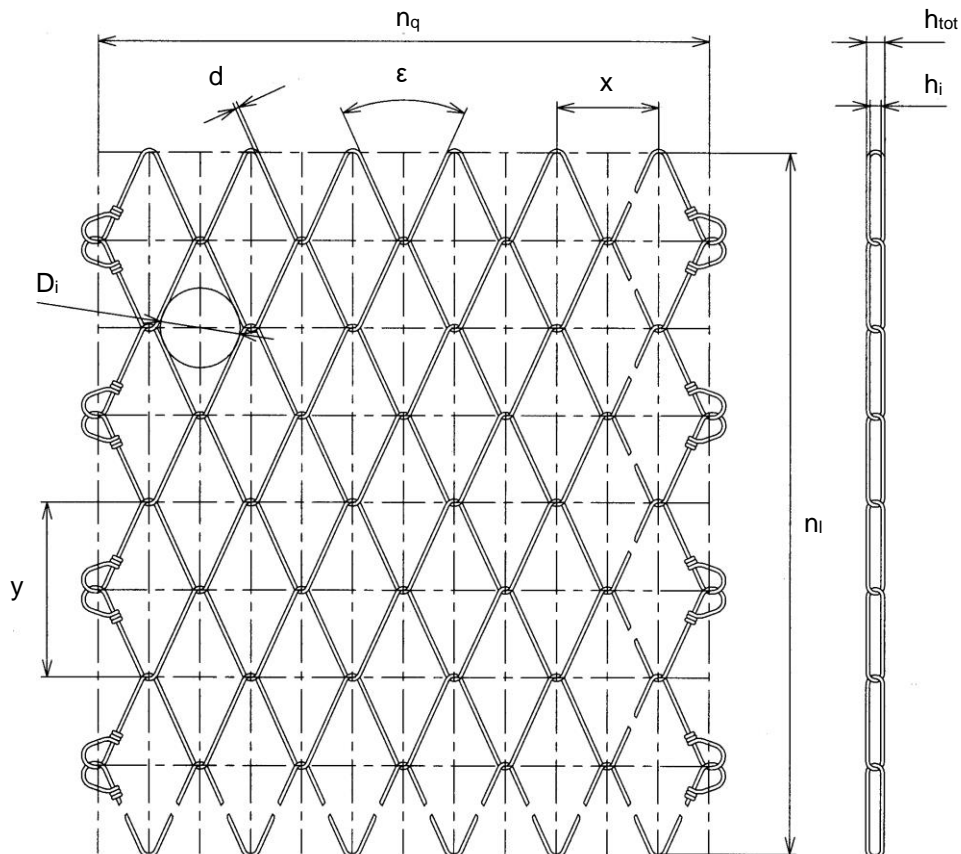
MINAX® corrosion protection	
Corrosion protection:	GEOBRUGG SUPERCOATING
Compound:	95% Zn / 5% Al
Coating:	min. 150 g/m <sup>2</sup>

Load capacity	
Tensile strength of mesh longitudinal:	$z_l \geq 190 \text{ kN/m}^* \text{ *)}$
Tensile strength of mesh transversal:	$z_q \geq 70 \text{ kN/m}^* \text{ *)}$

\*) referring to LGA test report 05/2009

MINAX® mesh standard roll	
Roll width:	$b_{Roll} = 2.5 \text{ m}$
Roll length:	$l_{Roll} = 20 \text{ m}$
Total surface per roll:	$A_{Roll} = 50 \text{ m}^2$
Weight per m <sup>2</sup> :	$g = 2.6 \text{ kg/m}^2$
Weight per mesh roll:	$G_{Roll} = 130 \text{ kg}$
Mesh edges:	mesh ends knotted

MINAX® 80/4



Rockfall, slides, mudflows and avalanches are natural events and therefore cannot be calculated. This is why it is impossible to determine or guarantee absolute safety for persons and property with scientific methods. This means that to provide the protection we strive for, it is imperative to maintain and service protective systems regularly and appropriately. Moreover, the degree of protection can be diminished by events that exceed the absorption capacity of the system as calculated to good engineering practice, failure to use original parts or corrosion (i.e., from environmental pollution or other outside influences).