

TECHNICAL DATA SHEET

**High-tensile steel wire mesh MINAX® 80/4.6
for dynamic ground support applications**

MINAX® high-performance steel wire mesh	
Mesh shape:	rhomboid
Diagonal:	$x \cdot y = 102 \cdot 173 \text{ mm (+/-5%)}$
Mesh width:	$D_i = 80 \text{ mm (+/-5%)}$
Angle of mesh:	$\epsilon = 49 \text{ degrees}$
Total height of mesh:	$h_{\text{tot}} = 17 \text{ mm (+/-1 mm)}$
Clearance of mesh:	$h_i = 8 \text{ mm (+/-1 mm)}$
No. of meshes longitudinal:	$n_l = 5.8 \text{ pcs/m}$
No. of meshes transversal:	$n_q = 9.8 \text{ pcs/m}$

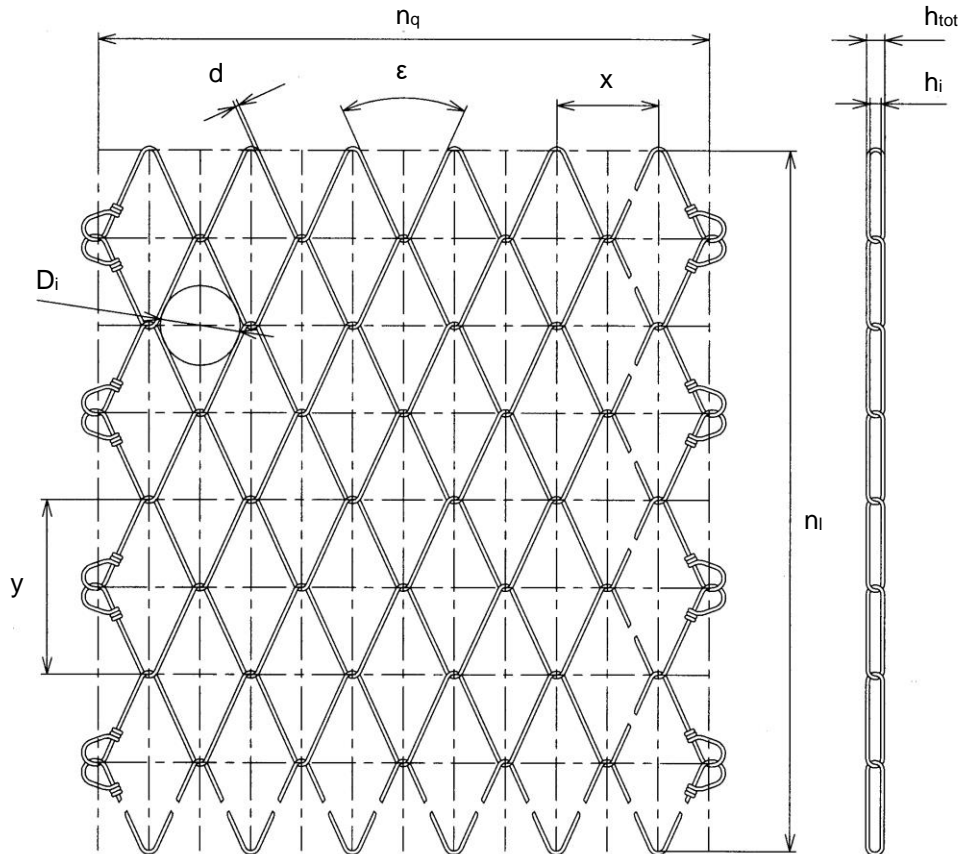
MINAX® steel wire	
Wire diameter:	$d = 4.6 \text{ mm}$
Tensile strength:	$f_t \geq 1'770 \text{ N/mm}^2$
Material:	high-tensile steel wire
Tensile resistance of a wire:	$Z_w = 29.4 \text{ kN}$

MINAX® corrosion protection	
Corrosion protection:	Galvanized
Compound:	100% Zinc
Coating:	min. 150 g/m ²

Load capacity	
Tensile strength of mesh longitudinal:	$z_l \geq 300 \text{ kN/m}'$

MINAX® mesh standard roll	
Roll width:	$b_{\text{Roll}} = 2 - 6 \text{ m possible}$
Roll length:	$l_{\text{Roll}} = \text{as required}$
Weight per m ² :	$g = 3.4 \text{ kg/m}^2$
Mesh edges:	mesh ends knotted

MINAX® 80/4.6



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).