

TECHNICAL DATA SHEET

High-tensile steel wire mesh DELTAX® G80/3

DELTA[®] high-tensile 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:	ϵ ca. 49 degrees
Total height of mesh:	$h_{\text{tot}} = 12.5 \text{ mm (+/-1.5 mm)}$
Clearance of mesh:	$h_i = 6.5 \text{ mm (+/-1.5 mm)}$
No. of meshes longitudinal:	$n_l = 5.6 \text{ pcs/m}$
No. of meshes transversal:	$n_q = 9.8 \text{ pcs/m}$

DELTA[®] steel wire

Wire diameter:	$d = 3.0 \text{ mm}$
Tensile strength:	$f_t \geq 1'770 \text{ N/mm}^2$
Material:	high-tensile steel wire
Tensile resistance of a wire:	$Z_w = 12.5 \text{ kN}$

DELTA[®] corrosion protection

Corrosion protection:	GEOBRUGG SUPERCOATING
Compound:	95% Zn / 5% Al
Coating:	min. 150 g/m ²
$\leq 5\%$ dark brown rust in salt spray test according to EN ISO 9227:	2500 hours (ETA-22/0136)

Load capacity

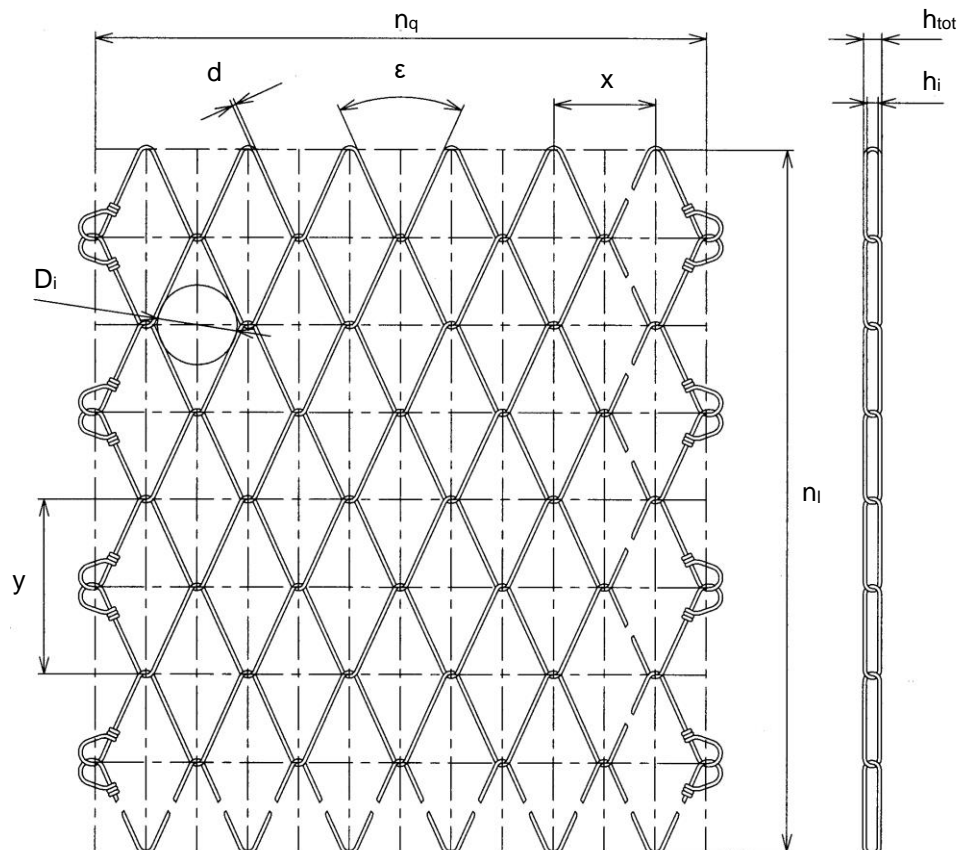
Tensile strength of mesh longitudinal:	$z_l \geq 120 \text{ kN/m}^* \text{ *)}$
Tensile strength of mesh transversal:	$z_q \geq 45 \text{ kN/m}^* \text{ *)}$
Elongation in longitudinal tensile strength test:	$\delta < 6.0 \% \text{ *)}$

*) As in EAD 230025-00-0106 and referring to TSUS test report 01/2020

DELTA[®] mesh

Roll width:	$b_{\text{Roll}} = 3.9 \text{ m}$
Roll length:	$l_{\text{Roll}} = 30 \text{ m}$
Total surface per roll:	$A_{\text{Roll}} = 117 \text{ m}^2$
Weight per m ² :	$g = 1.45 \text{ kg/m}^2$
Weight per mesh roll:	$G_{\text{Roll}} = 170 \text{ kg}$
Mesh edges:	mesh ends knotted

DELTA[®] G80/3



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).