CE European Technical Approval ETA-22/0136

BRUGG Geobrugg

TECHNICAL DATA SHEET

High-tensile steel wire mesh DELTAX® G80/3

DELTAX® high-tensile steel wire mesh	
Mesh shape:	rhomboid
Diagonal:	x · y = 4.02 · 6.97 in (+/-3%)
Mesh width:	D_i = 3.15 in (+/-3%)
Angle of mesh:	ε ca. 49 degrees
Total height of mesh:	h_{tot} = 0.49 in (+/-0.06 in)
Clearance of mesh:	h_i = 0.26 in (+/-0.06 in)
No. of meshes longitudinal:	n_l = 1.72 pcs/ft
No. of meshes transversal:	n_q = 2.99 pcs/ft

DELTAX® steel wire	
Wire diameter:	d = 0.118 in
Tensile strength:	f_t ≥ 256 ksi
Material:	high-tensile steel wire
Tensile resistance of a wire:	Z_w = 2.8 kips

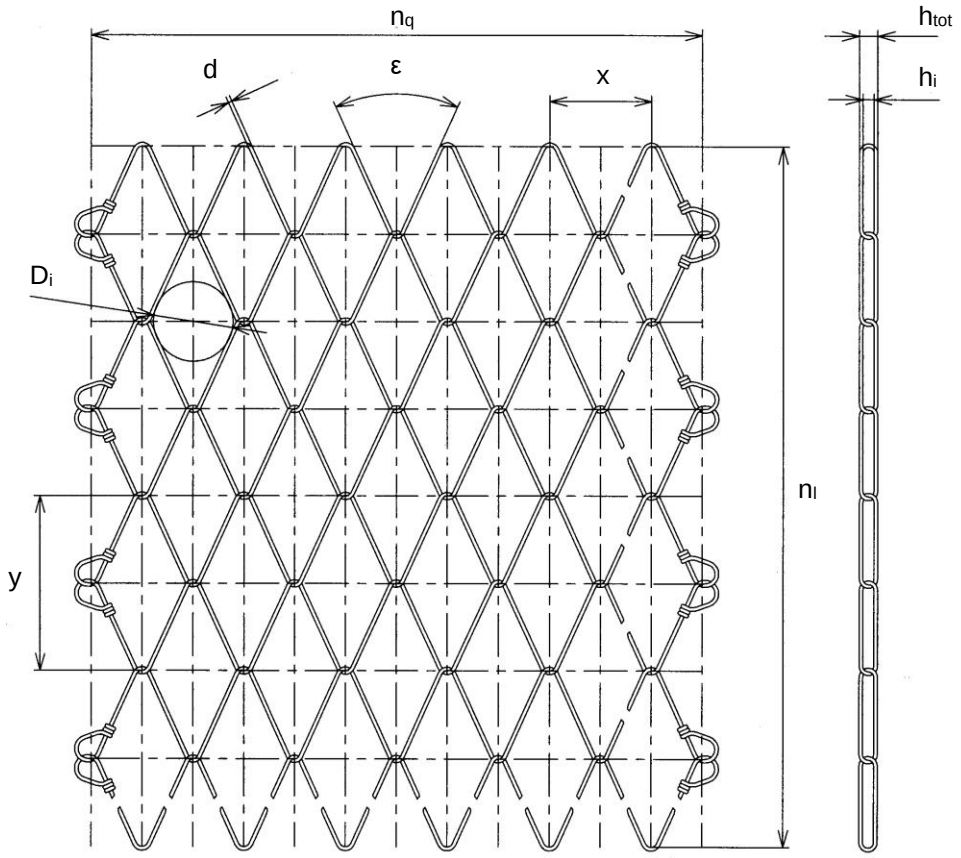
DELTAX® corrosion protection	
Corrosion protection:	GEOBRUGG SUPERCOATING
Compound:	95% Zn / 5% Al
Coating:	min. 0.0256 lb/ft²
≤ 5% dark brown rust in salt spray test according to EN ISO 9227:	2500 hours (ETA-22/0136)

Load capacity	
Tensile strength of mesh longitudinal:	z_l ≥ 8.2 kips/ft *)
Tensile strength of mesh transversal:	z_q ≥ 3.1 kips/ft *)
Elongation in longitudinal tensile strength test:	δ < 6.0 % *)

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

DELTAX® mesh	
Roll width:	b_{Roll} = 12.8 ft
Roll length:	l_{Roll} = 98.4 ft
Total surface per roll:	A_{Roll} = 1260 ft²
Weight per ft²:	g = 0.297 lbs/ft²
Weight per mesh roll:	G_{Roll} = 374 lbs
Mesh edges:	mesh ends knotted

DELTAX® 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).