

TECHNICAL DATA SHEET

**High-tensile steel wire mesh TECCO® G45/2**

TECCO® high-performance steel wire mesh	
Mesh shape:	rhomboid
Diagonal:	$x \cdot y = 62 \cdot 95 \text{ mm (+/- 3\%)}$
Mesh width:	$D_i = 48 \text{ mm (+/- 3\%)}$
Angle of mesh:	$\epsilon = 54^\circ$
Total height of mesh:	$h_{tot} = 7.0 \text{ mm (+/- 1 mm)}$
Clearance of mesh:	$h_i = 3.0 \text{ mm (+/- 1 mm)}$
No. of meshes longitudinal:	$n_l = 10.5 \text{ pcs/m}$
No. of meshes transversal:	$n_q = 16.1 \text{ pcs/m}$

TECCO® steel wire	
Wire diameter:	$d = 2.0 \text{ mm}$
Tensile strength:	$f_t \geq 1'770 \text{ N/mm}^2$
Material:	high-tensile steel wire
Tensile resistance of a wire:	$Z_w = 5.5 \text{ kN}$

TECCO® corrosion protection **)	
Corrosion protection:	GEOBRUGG SUPERCOATING®
Compound:	95% Zn / 5% Al
Coating:	min. 115 g/m <sup>2</sup>

Load capacity (standard version)	
Tensile strength of mesh:	$Z_k \geq 85 \text{ kN/m'}$
Bearing resistance against puncturing:	$D_R \geq 80 \text{ kN} / 110 \text{ kN}^*)$
Bearing resistance against shearing-off:	$P_R \geq 40 \text{ kN} / 55 \text{ kN}^*)$
Bearing resistance against slope-parallel tensile stress:	$Z_R \geq 10 \text{ kN} / 10 \text{ kN}^*)$
Elongation in longitudinal tensile strength test:	$\delta < 6.0 \text{ \%}^*)$
Classification according to EAD 230025-00-0106	group 4, class A (P25 and P33)

TECCO® mesh standard roll	
Roll width:	$b_{Roll} = 3.5 \text{ m}$
Roll length:	$l_{Roll} = 30 \text{ m}$
Total surface per roll:	$A_{Roll} = 105 \text{ m}^2$
Weight per m <sup>2</sup> :	$g = 1.15 \text{ kg/m}^2$
Weight per mesh roll:	$G_{Roll} = 121 \text{ kg}$
Mesh edges:	mesh ends knotted

\*) As in EAD 230025-00-0106 and referring to TSUS test report 11/2016 using spike plate P25 / P33

\*\*\*) Next to the standard version with Zn/Al coating, the high-tensile steel wire mesh is also available in stainless steel (INOX) in 1.4462 (AISI 318) sea water resistant quality.

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