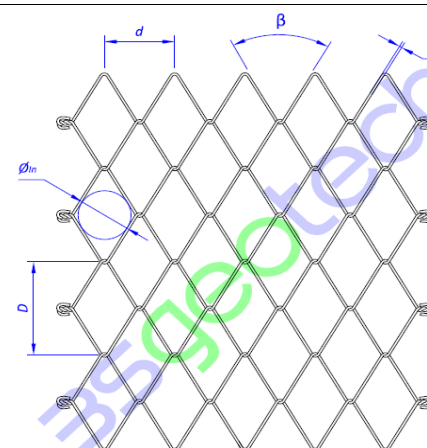


TECHNICAL DATA SHEET

HIGH TENSILE STRENGTH AND LOW DEFORMATION WIRE MESH

3STUTOR® Plus 90/4,5

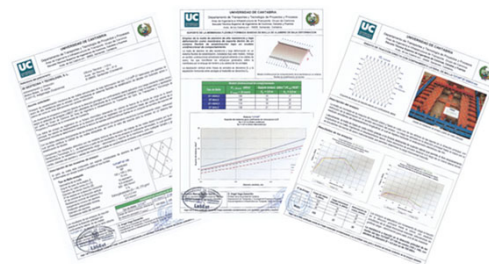
Characteristics of the mesh (ETA-16/0328)	
Geometry of the mesh	Rhomboid
Size of each rhombus (d x D), (mm)	90 x 135
Angle of the loop at the vertex, β	58°
Diameter of the inscribed circle (ϕ_{in}), (mm)	70
Total height of the mesh (h_{tot}), (mm)	15,8
Clearance of the mesh (h_n), (mm)	6,8
N° of turns in the transverse direction, (units/m)	11,1
N° of rhombuses in the vertical direction, (rhombus/m)	7,4
Mesh edges bended, twisted and undeformable	Certified
Unit weight of the mesh, (kg/m ²)	4,2
Characteristics of the steel wire (ETA-16/0328)	
Nominal diameter of the wire (ϕ_A), (mm)	4,5
Nominal tensile strength of the wire, (N/mm ²)	900
Type of steel wire (Carbon contain)	Medium
Tensile strength of the wire, (kN)	14,3



Parameters of the mesh (ETA-16/0328)	
Tensile strength of the mesh in the main direction (T_y), (kN/m) *	205
Tensile strength of the mesh in the secondary direction (T_x), (kN/m) *	85
Unit elongation at 80% of breaking conditions ($\epsilon_{y 80\% T_y}$), (%) *	4

Parameters certified by
University of Cantabria (GIADE Lab)

Corrosion protection (ETA-16/0328)	
Type of corrosion protection	3STUTOR® Plus
Composition of corrosion treatment	95% Zn - 5% Al
Minimum coating mass, (gr/m ²)	300



Other parameters of the mesh certified by University of Cantabria (GIADE Lab)	
Punching strength directly over mesh with plate type Eagle (T_P), (kN) **	100
Punching strength directly over mesh according to ISO 17746:2016, (kN) ***	335
Bearing resistance against puncturing (D_R), (kN) ****	277
Bearing resistance against shearing-off (P_R), (kN) ****	138,5
Bearing resistance against slope-parallel tensile stress (Z_R), (kN) ****	72
Classification according to EAD 230025-00-0106	Group 1, Class A

3STUTOR® Punctual system for slope stabilization	
Recommended type of plate	Eagle
Bending resistance ($M_{b,k}$), (kN·m) *	5,3

3STUTOR® Reinforced system for slope stabilization
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* Certified by EOTA (ETA 16/0328) in relation to University of Cantabria (GIADE Lab) test report 04/2016 according to EAD 230025-00-0106.

** Certified by University of Cantabria (GIADE Lab) by tests according to patent ES 2 192 445 B2 (Test report 04/2016).

*** Certified by University of Cantabria (GIADE Lab) by tests according to ISO 17746:2016 (Test report 07/2016).

**** Certified by University of Cantabria (GIADE Lab) by tests according to EAD 230025-00-0106 using Eagle plates (Test report 04/2014).