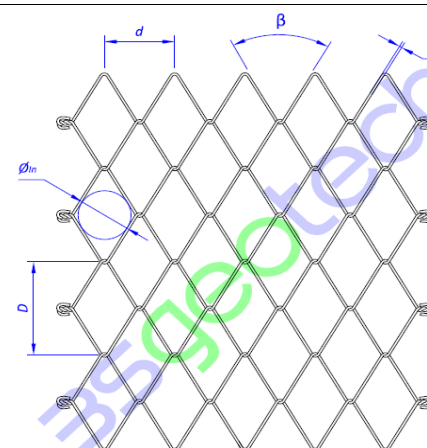


# TECHNICAL DATA SHEET

## HIGH TENSILE STRENGTH AND LOW DEFORMATION WIRE MESH

## 3STUTOR® Plus 70/4,5

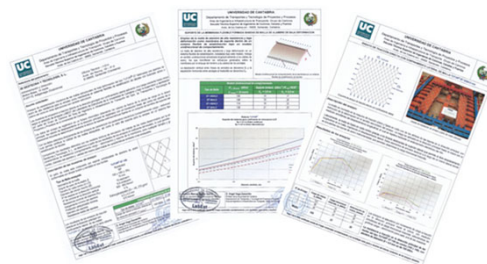
| Characteristics of the mesh (ETA-16/0328)                  |           |
|------------------------------------------------------------|-----------|
| Geometry of the mesh                                       | Rhomboid  |
| Size of each rhombus (d x D), (mm)                         | 70 x 100  |
| Angle of the loop at the vertex, $\beta$                   | 52°       |
| Diameter of the inscribed circle ( $\phi_{in}$ ), (mm)     | 50        |
| 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)         | 14,3      |
| N° of rhombuses in the vertical direction, (rhombus/m)     | 10        |
| Mesh edges bended, twisted and undeformable                | Certified |
| Unit weight of the mesh, (kg/m <sup>2</sup> )              | 5,5       |
| Characteristics of the steel wire (ETA-16/0328)            |           |
| Nominal diameter of the wire ( $\phi_A$ ), (mm)            | 4,5       |
| Nominal tensile strength of the wire, (N/mm <sup>2</sup> ) | 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) *           | 255 |
| Tensile strength of the mesh in the secondary direction ( $T_x$ ), (kN/m) *      | 105 |
| Unit elongation at 80% of breaking conditions ( $\epsilon_{y 80\% T_y}$ ), (%) * | < 6 |

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 <sup>2</sup> ) | 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) ** | 130              |
| Punching strength directly over mesh according to ISO 17746:2016, (kN) ***    | 417              |
| Bearing resistance against puncturing ( $D_R$ ), (kN) ****                    | 345              |
| Bearing resistance against shearing-off ( $P_R$ ), (kN) ****                  | 172,5            |
| Bearing resistance against slope-parallel tensile stress ( $Z_R$ ), (kN) **** | 90               |
| 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 |
|----------------------------------------------------|
|----------------------------------------------------|



\* 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).