ROCKFALL PROTECTION NETTING ZINC COATED

TECHNICAL DATA SHEET - Rev. 05, Date 01-12-2011

Rockfall netting is a passive drapery system made of hexagonal double twisted wire mesh. The double twist configuration ensures that the steel wire mesh can withstand the force of falling rocks without unravelling in the event of wire breakage.

Passive systems are those which do not affect the process of the rock detachment, but rather focus on containing and intercepting falling and sliding debris, thereby averting danger to infrastructure and its users. The Rockfall netting is anchored at the top of the slope and is either secured or unsecured at the toe, depending on the project requirements. Standard roll sizes of Zinc coated Rockfall netting are shown in Table 1.

Steel wire mesh

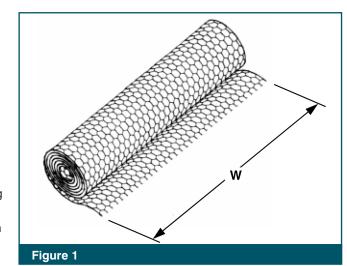
The double twisted steel wire mesh used in the production of Rockfall netting has mechanical characteristics higher than those stated in EN 10223-3.

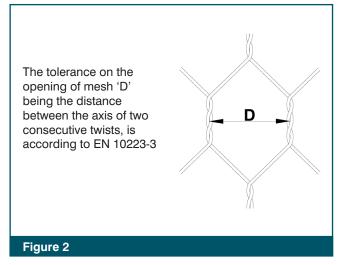
The nominal tensile strength of the mesh shall be as per Table 2; test done in accordance with EN 15381, Annex D.

The steel wire used in the manufacture of Rockfall netting is heavily galvanized with Zinc. The standard mesh specifications are shown in Table 2.

All tests on wire must be performed prior to manufacturing the mesh.

- **Tensile strength:** the wire used for the manufacture of gabions shall have a tensile strength between 380-550 N/ mm², which exceeds the strengths referred to in EN 10223-3. Wire tolerances (Table 3) are in accordance with EN 10218 (Class T1).
- Elongation: Elongation shall not be less than 10%, in accordance with EN 10223-3. Test must be carried out on a sample at least 25 cm long.
- Zinc coating: minimum quantities of Zinc shown in Table 3 meet the requirements of EN 10244-2 (Table 1 - Class A).
- Adhesion of Zinc: the adhesion of the Zinc coating to the wire shall be such that, when the wire is wrapped six turns around a mandrel four times the diameter of the wire, it does not flake or crack when rubbing it with bare fingers, in compliance with EN 10244.









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Table 1 - Sizes of Rockfall netting rolls					
L=Length (m)	W=Width (m)				
50	2.00 and 2.86				

Table 2 - Standard mesh specification									
Mesh			Wire Diameter (mm)						
Type	D (mm)	Tolerance	Mesh	Selvedge	Mesh Tensile Strength (kN/m)				
8x10	80	+16%/ - 4%	2.70 3.00	3.40 3.90	50 60				

* Non-standard roll sizes may be available All sizes and dimensions are nominal. Tolerances of 0/+1 m of the length, and \pm D of the width shall be permitted

Lacing operations can be made by using the tools shown in Fig.5. Galmac coated steel rings having the following specification can be used as an alternative to lacing wire when Zinc coated Rockfall netting is used (Figs. 3, 4):

- diameter: 3.00 mm, ASTM A975-97, Table 1
- tensile strength: 1380-1660 MPa, ASTM A764, Table 2, Class 1
- coating thickness: 244g/m² ASTM A764, Table 7, Class 3

Spacing of the rings must not exceed 150 mm (Fig.3)

Please contact Geofabrics for detailed installation information

Lacing wire	Rings
	Max 150
Figure 3	

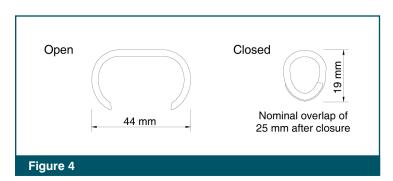


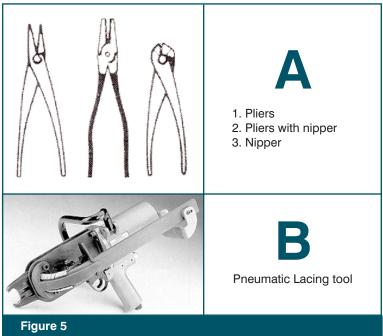
Table 3 - Standard wire diameters											
Wire Diameter ø mm	2.20	2.40	2.70	3.00	3.40	3.90					
Wire Tolerance (±) ø mm	0.06	0.06	0.06	0.07	0.07	0.07					
Min. Quantity of Zinc gr/m ²	230	230	245	255	265	275					

Quantity Request

When requesting a supply quotation, please specify:

- size of units (length x width, see Table 1),
- · type of mesh,
- · type of coating

EXAMPLE: No.100 rolls Length=50m, Width=2.86m - Mesh type 8x10 - Wire diam. 3.00 mm - Zinc coated



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