

ROCKFALL PROTECTION NETTING ZINC COATED

Steel woven wire mesh is used as a drapery system to prevent rocks and debris from falling onto roads and railways. The mesh consists of Zinc coated double twisted steel woven wire with mechanical characteristics higher than the ones suggested in EN10223-3. Due to the characteristics of double twist, the steel wire mesh can withstand the force of falling rocks without unraveling in the event of wire breakage.

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

The standard specifications for the wire-mesh are shown in Tables 2, 3, 4.

Wire

The steel wire used in the manufacture of the mesh is heavily zinc coated soft temper steel.

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

1. **Tensile strength:** the wire used for the manufacture of rockfall protection shall have a tensile strength between 380-550 N/mm² exceeding, in order to increase the tensile resistance of the finished products, what is suggested from EN10223-3. Wire tolerances (Table 4) are in accordance with EN10218 (Class T1).
2. **Elongation:** Elongation shall not be less than 10%, according to EN10223-3. Test must be carried out on a sample at least 25 cm long.
3. **Zinc coating:** minimum quantities of zinc shown at Table 4 meet the requirements of EN10244-2 (Table 1 and Class A).
4. **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 having four times the diameter of the wire, it does not flake or crack when rubbing it with the bare fingers, in accordance with EN 10223-3.

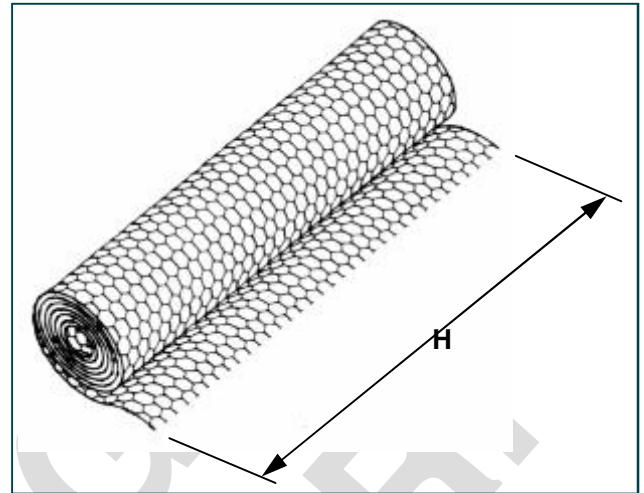


Figure 1

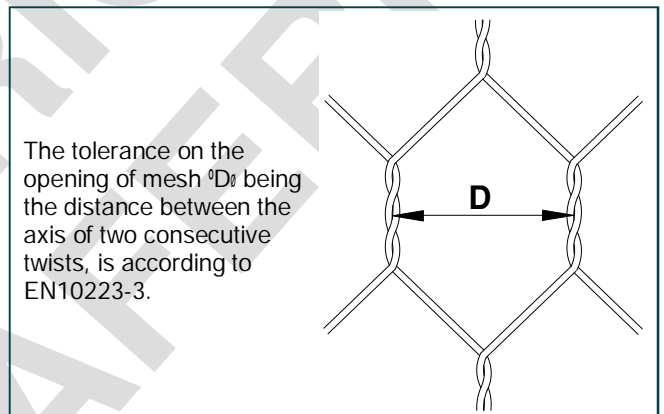


Figure 2



Example of Rockfall protection netting



Example of Rockfall protection netting



n° 226/001

1. Table of sizes for gabions

L=Length (m)	H=Height (m)
25	2, 3, 4
50	2, 3, 4
100	2, 3, 4

All sizes and dimensions are nominal.
Tolerances of 0/+1m of the length, and ±D of the height shall be permitted.

Lacing Operations

Lacing operations can be made by using the tools shown in Fig.5. Galvan coated steel rings having the following specification can be used instead of lacing wire (Figs. 3, 4):

~ diameter: 3.00 mm

~ tensile strength: 170 kg/mm².

Spacing of the rings must not exceed 200 mm (Fig.3)

Quantity Request

When requesting a quote, please specify:

~ size of rolls (length x height, see Fig.1),

~ type of mesh,

~ type of coating

EXAMPLE: No.100 rolls Length=25m, Height=4m - Mesh type 8x10 - Wire diam. 2.70 mm - Zinc coated

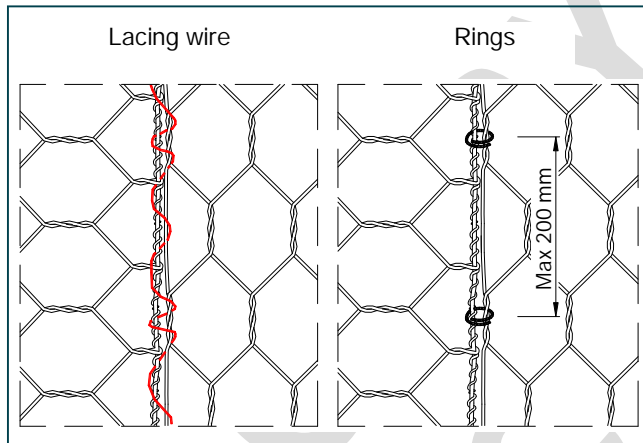


Figure 3

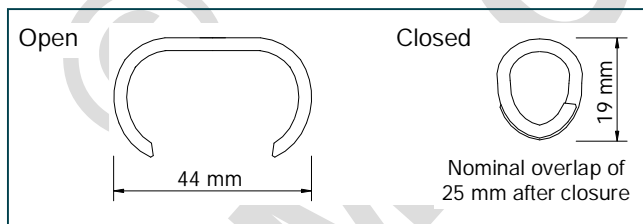


Figure 4

2 e 3. Standard Mesh Wire

Mesh			Ø Wire (mm)		
Type	D (mm)	Tolerance	Mesh	Selvedge	Mesh Tensile Strength (kN/m)
6x8	60	+16% - 4%	2.2	2.7	37
			2.7	3.4	58
8x10	80		2.7	3.4	50
			3.0	3.9	60

4. Wire tolerances and coating

Internal Wire Ø	mm	2.00	2.20	2.40	2.70	3.00	3.40	3.90
Wire tolerance	(±) Ø mm	0.05	0.06	0.06	0.06	0.07	0.07	0.07
Min. Q.ty of zinc	gr/m ²	215	230	230	245	255	265	275

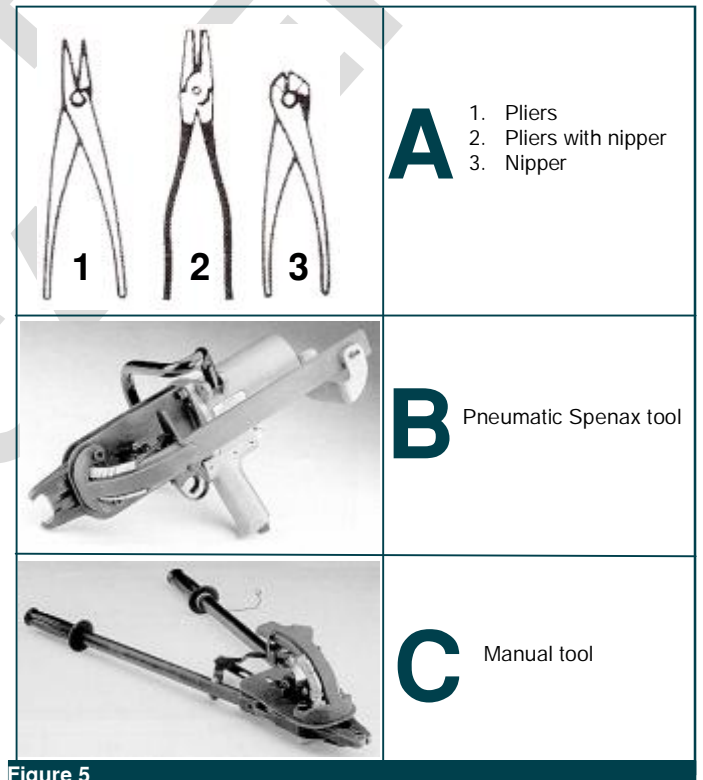


Figure 5

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