

SACK GABIONS GALFAN COATED

Sack gabions are cylindrical baskets made of 8x10 double twisted steel woven wire mesh, with mechanical characteristics higher than the ones suggested from EN 10223-3 (Figs. 1, 2). Sack gabions are filled with stones at the project site to form flexible and permeable structures used in river trainings and various emergency works. Sack gabions are supplied with steel reinforcing wires inserted during the manufacturing process to facilitate closing during installation.

The steel wire used in the manufacture of the gabion is heavily galvanized with Galfan, a Zn-5%Al-MM (mischmetal) alloy. The standard specifications of mesh-wire are shown in Table 2.

In order to reinforce the structure, all mesh panel edges are

Wire

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. Galfan coating:** minimum quantities of galfan shown at Table 4 meet the requirements of EN10244-2 (Table 2 and Class A).
- 4. Adhesion of galfan:** the adhesion of the galfan 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 EN10223-3.
- 5. Outwearing accelerated aging test in SO₂** (28 cycles) in accordance with EN ISO 6988.

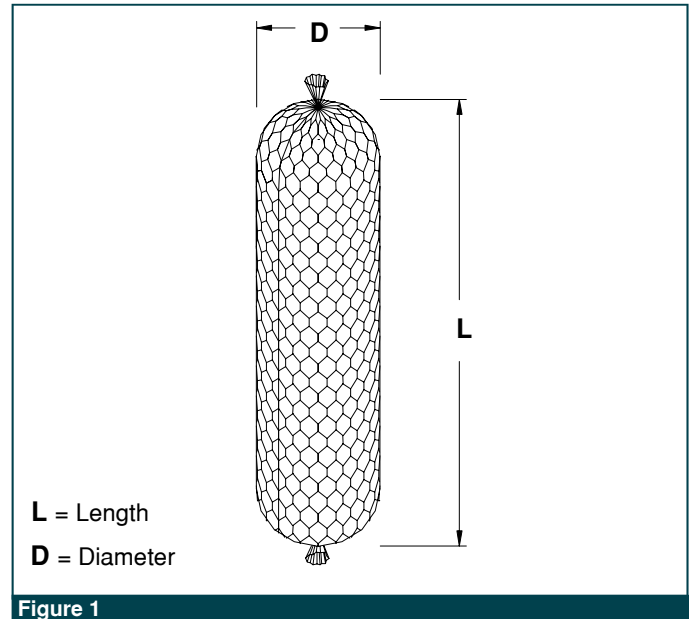


Figure 1

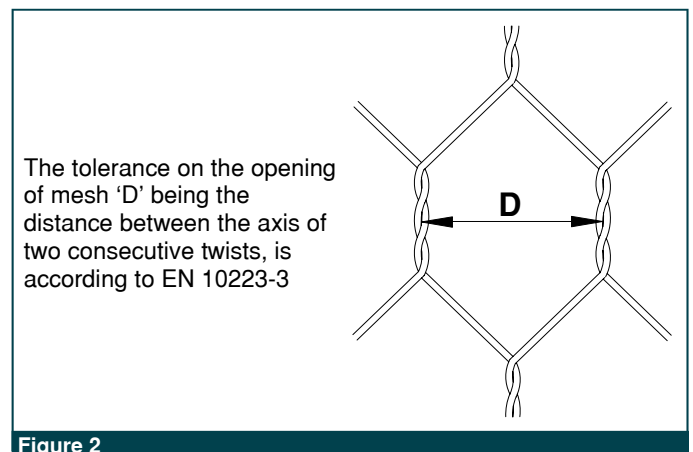


Figure 2



Example of Sack gabion



Certified Product n. 226/001

1. Table of sizes for sack gabions

L=Length (m)	D=Diameter (m)	Volume (m3)
2	0.95	1.41

All sizes and dimensions are nominal. Tolerances : $\pm 5\%$ for length and diameter.

Quantity Request

When requesting a quote, please specify:

- size of units (length x diameter, see Fig.1),
- type of mesh,
- type of coating

EXAMPLE: No. 100 sack gabions 2x0.65 m - Mesh type 8x10
- Wire diam. 2.7 mm lacing wire - galfan coated

2. Standard Mesh-Wire

Type	D (mm)	Tolerance	Internal Wire Dia (mm)
8x10	80	+16% / -4%	3.00

3. Standard wire diameters

	Mesh Wire	Selvage Wire	Lacing Wire	
8x10 Type of Mesh	ϕ mm	3.0	3.9	2.2

4. Table of wire tolerances and coating

Wire diameter	mm	2.20	3.00	3.90
Wire tolerance	(\pm) ϕ mm	0.06	0.07	0.07
Min. Q.ty Galfan	gr/m ²	230	255	275

