

GABIONS

TECHNICAL DATA SHEET

Double Twisted Mesh Maccaferri

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Gabions are baskets manufactured to SANS 1580 with hexagonal woven wire Mesh Type 80, commonly referred to as double twist wire mesh. The steel wire used in the manufacture of Gabions is 2.7*mm in diameter to SANS 675 and is heavily galvanised to class A with zinc or zinc alloy (Galfan Zn 95Al5) coated wire according to SANS 1580 and has a tensile strength between 350-575N/mm². If required, a Polymer coating is extruded over the galvanised wire to provide added protection for use in aggressive environments where corrosion is present. The two types of Polymer coatings available are, PVC coating to SANS 1580 which is available in grey or tan and has a nominal thickness of 0,5 mm and PA6 Nvlon coating to EN 10245-5 which comes in black and has a * Gabions can also be manufactured on request with 3.0mm wire but the 3mm gabions can only be zinc or Galfan coated and cannot be polymer coated.

To reinforce the structure, all mesh panel edges are selvedged with a wire having a greater diameter than the mesh wire i.e. 3.4mm selvedge for 2.7mm and 3.9mm selvedge for 3.0mm mesh.

The gabion is divided into cells by means of diaphragms positioned at approximately 1m centres (Figure 1).

FILLING

The Gabions must be filled with rock ranging between 100 mm and 250 mm. The range in sizes may allow for a variation of 5% oversize and / or 5% undersize rock, provided it is not placed at the exposed surface. In all cases, oversize rock shall not be larger than 300 mm and the undersize rock shall not be smaller than 100 mm. Rocks shall be hard, angular to round, durable and of such quality that they shall not disintegrate on exposure to water or weathering during the life of the structure. Care should be taken when placing the stone to ensure that the Polymer coating on gabions is not damaged. All visible faces should be carefully hand placed for appearance purposes.

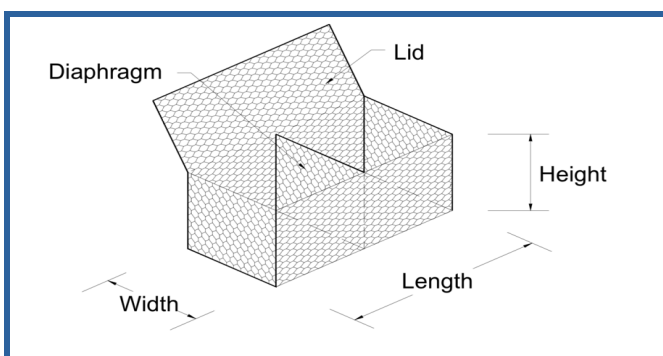
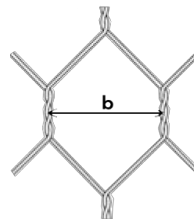


Figure 1

STANDARD MESH TYPE



b is the distance between the axis of two consecutive twists according to SANS 1580.

b = 80

Tolerance -4 +16

Table 1

STANDARD GABION SIZES

Length (m)	Width (m)	Height (m)
1.0	1.0	1.0
1.5	1.0	1.0
2.0	1.0	1.0
3.0	1.0	1.0
4.0	1.0	1.0
2.0	0.5	0.5
2.0	1.0	0.5

Table 2

TOLERANCES

Height (H), Width (W): ±5%, Length (L): ±10%

Table 3

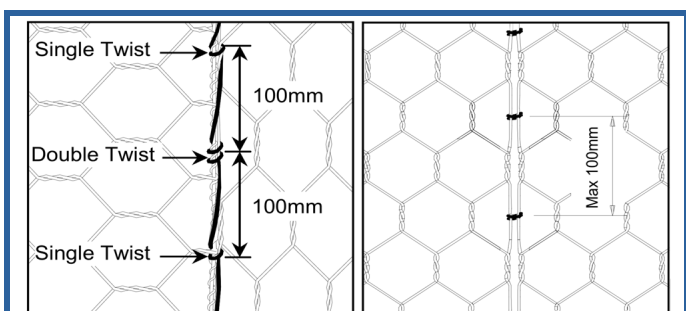


Figure 3

LACING

The diameter of the wire for the lacing of the gabions as shown in Fig 3B is 2.2mm for 2.7mm mesh and 2.5mm for 3.0mm mesh.

Spacing of the rings or loops must not exceed that shown in Figure 3.

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