



ENVIROMESH

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WELDED MESH GABION SPECIFICATION

Gabion 39 System - 3.00/4.00mm Wire Diameter - Galfan Coated

Gabions shall comply with the following specifications

- MANUFACTURE:** Gabions shall be manufactured from a hard drawn steel wire formed into a bi-axial mesh grid by electrically welding the cross wires at every intersection. The weld strength is to be 70% of the ultimate tensile strength of the wire. Gabions are to be factory assembled with stainless steel clips (minimum one every third mesh opening) connecting side panels and diaphragms to the base panel and the lid to the face panel. Diaphragms to be at nominal 1m centres on the unit length, except for 1.5m long gabions which have no internal diaphragm.
- MESH SIZE:** The mesh openings shall be square and of a nominal dimension of 76.2mm on the grid.
- MESH WIRE:** The nominal wire diameter shall be 3.0mm for the lid, base, back and internal panels and from a 4.00mm wire diameter for the face panel, all in accordance with BS EN 10218-2 1997. The tensile strength falls within a range of 540-770 N/mm².
- CORROSION PROTECTION:** Wire shall be galfan coated (95% Zn / 5% Al) in accordance with BS EN 10244-2: 2001.
- JOINTING:** Gabions shall be provided with lacing wire for site assembly. The lacing wire shall be of a nominal wire diameter of 2.2mm (all in accordance with the corrosion protection specified) for final jointing.
- ROCKFILL:** Gabion fill shall be a hard durable and non frost susceptible (rock or stone type) having a minimum dimension not less than the mesh opening and a maximum dimension of 200mm.
- CONSTRUCTION:** All rock fill shall be packed tightly to minimize voids and the rock fill on the exposed face of the gabion is to be hand packed. Internal windlass bracing ties are to be incorporated at 2 per 1sqm of face at 1/3rd & 2/3 intervals for 1m high units and 1 placed centrally for 0.5m high units. The adjacent gabion units are to be tied together with continuous lacing on the vertical joints as well as horizontally at the front and rear of coursed joints. The units shall be filled such that the mesh lid bears down onto the rock fill. The lid shall be wired down on all joints and across the diaphragms.

Above jointing and internal bracing is supplied as standard. The following alternatives are also acceptable:

- Full height helicals in 3.0mm galfan coated wire for vertical jointing
- Pneumatically closed galfan coated "C" rings for vertical and horizontal jointing at 1 ring every other mesh opening.
- Galfan coated preformed corner bracing ties 4 per m² of face.

SPEC 4: 29-01-2007

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