



ENVIROMESH

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WOVEN HEXAGONAL MESH GABION SPECIFICATION

2.70 / 3.70mm Wire Diameter Galvanised and PVC Coated

Gabions shall comply with the following specifications

- MANUFACTURE:** Gabions shall be manufactured from double twist hexagonal woven wire mesh in accordance with BS EN 10223-3:1998.
- 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 hexagonal and of a nominal dimension of 80mm x 100mm.
- MESH WIRE:** The nominal wire mesh diameter for the body of the gabion shall be 2.70mm in diameter and of a nominal 3.40mm for the edge selvedge wire.
All wire shall be in accordance with BS EN 10218-2:1997.
The tensile strength falls within a range of 350 to 575 N/mm².
- CORROSION PROTECTION:** Wire shall be zinc coated to BS EN10244-2:2001.
An additional extruded u-PVC coating of nominal 0.5mm radial thickness is applied over the galvanised wire.
- JOINTING:** Gabions shall be provided with lacing wire or 'C' for site assembly. The lacing wire shall be of a nominal wire diameter of 2.2mm (all in accordance with the corrosion 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. Alternatively 'C' rings may be used with a pneumatic tool with one being placed every other mesh space. The units shall be filled such that the mesh lid bears onto the rock fill. The lid shall be wired down or "C" ringed as above on all joints and across the diaphragms.

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