ENVIROMESH
Garner Street Business Park, Etruria, Stoke-on-Trent, Staffordshire, ST4 7BH
Tel: +44 (0)845 136 0101 Fax: +44 (0)845 136 0202
www.enviromeshgaions.com

WOVEN HEXAGONAL MESH MATTRESS SPECIFICATION

2.0/3.0mm Wire Diameter Galvanised and PVC Coated

Mattresses shall comply with the following specifications

MANUFACTURE: Mattresses shall be manufactured from double twist hexagonal woven wire mesh in accordance with EN 10223-3:1998.

Diaphragms to be at nominal 1m centres on the unit length.

MESH SIZE: The mesh openings shall be hexagonal and of a nominal dimension of 60mm x 80mm.

MESH WIRE: The nominal wire mesh diameter for the body of the mattress shall be 2.0mm in diameter and of a nominal 2.70mm 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/mm^2

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: Mattresses shall be provided with lacing wire or stainless steel “C” rings 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: Mattress 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 rockfill on the exposed face of the gabion is to be hand packed.

Adjacent units are to be jointed with a continuous lacing or pneumatically closed with “C” rings one every other mesh opening on all joints.

Units shall be filled such that the mesh lid bears down 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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