



durable versatile practical

**Gabion
39 System**

garden gabions

UK Manufactured - BBA Approved

WELDED MESH GABION SPECIFICATION

Gabion 39 System – 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 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 (helical spirals optional) for site assembly. The lacing wire shall be of a nominal wire diameter of 2.2mm and the helicals of 3.00mm (all in accordance with the corrosion protection specified) for final jointing.

ROCKFILL: Gabion fill should be a hard durable and non frost susceptible (rock or stone type) having a minimum dimension of not less than the mesh opening and a maximum dimension of 200mm.

CONSTRUCTION: All rock fill packed tightly to minimize voids and the rock fill on the exposed face of the gabion 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.

Devoran Gabions

Greenbank Road, Devoran, Truro, Cornwall TR3 6PQ

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Why choose a Gabion 39 ?

WELDED MESH GABION SPECIFICATION

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All welded steel wire mesh gabions supplied by Devoran conform with the following International standards:

BS EN 10223-8:2013 – Steel Wire and Wire Products for Fencing and Netting. Part 8: Welded Mesh Gabion Products

BS EN 10218-2:2012 – Steel Wire and Wire Products – General – Part 2: Wire dimensions and tolerances

BS EN 10244-2: - Steel Wire and Wire Products – Non-ferrous metallic coatings on steel wire – Part 2: Zinc or zinc alloy coatings

BS EN 10245-1 - Steel Wire and Wire Products – Organic coatings steel wire – Part 1: General rules

BS EN 10245-2 - Steel Wire and Wire Products – Organic coatings steel wire – Part 2: PVC finished wire

Independent testing:

All gabions we supply have been independently tested by the British Board of Agreement (BBA). With respect to design life this therefore means:

Galfan (95% Zn / 5%) supplied with a CLASS A Coat weight– design life up to 70 years in a mild environment.

PVC coated on heavily galvanised wires – design life of up to 120 years in a mild environment.

WARNING

NOT ALL GABIONS SOLD IN THE UK ARE THE SAME

Most cheap imported gabions sold on the internet are non-conforming

Devoran Gabions are manufactured to the highest UK standards using the highest quality materials and conform to international standards

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Gabions - 27 System - 39 System - PVC coated Gabions

Why you shouldn't buy inferior gabions



A wall constructed only a few years ago. The gabions are corroding heavily beneath the pvc coated wire, we suspect very low zinc coating weights if at all. Additionally the plastic jointing clips are non conforming with industry standards.

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Replaced with our BBA approved Gabions !



Enviromesh were employed to redesign the wall, provide Professional Indemnity Insurance for the technical advice given, provide on-site advice from the outset of the construction and more importantly provide product to give durability of in excess of 60 years. See photos of the finished structure – superb job, hope you agree..

VISIT

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