

Gabions shall be Maccaferri type flexible woven wire mesh boxes as supplied by Maccaferri or approved equivalent. The selvedge wire shall bear the marking of the manufacturer's name "**Maccaferri**" to enable visual inspection of originality. The boxes shall be divided by diaphragms into cells of 1m long.

The woven wire mesh twists shall be oriented horizontally along the length of the gabion. End panels of the gabions shall be mechanically selvedged to the gabion base. Diaphragms shall be connected to the base by a spiral wire passing in turn through each mesh opening of the base and each mesh opening of the diaphragm.

To ensure quality and consistency of the product manufactured to specifications, it shall be produced by an ISO 9001 certified factory.

1. Heavily Galvanized Gabions

Wire shall be to BS 1052/1980 "Mild Steel Wire", having an average tensile strength of 37 – 50 kg/mm² before PVC Coating and fabrication of the netting.

Wire shall be Heavily Galvanized to BS EN 10244-2:2009 "Galvanized Coating on Wire", that is to say the minimum weight of Zinc coating shall be according to the table below:

| Wire sizes and minimum weight of Zinc Coating: | | |
|--|--------|----------------------|
| Selvedge Wire | 3.5 mm | 275 g/m ² |
| Mesh Wire | 2.7 mm | 260 g/m ² |
| Lacing Wire | 2.2 mm | 240 g/m ² |

When the wire wrapped six times around four wire diameter size mandrel, the Zinc coating shall not flake or crack to the extent that any Zinc can be removed by rubbing with bare fingers.

2. Heavily Galvanized and PVC Coated Gabions

In addition to heavy galvanizing as described, the wire shall have extruded onto it a coating of Poly Vinyl Chloride, otherwise referred to as PVC. The coating shall be grey in colour, shall nowhere be less than 0.55 mm in thickness and shall be capable of resisting deleterious effects of natural weather exposure, immersion in salt water and shall not show any material difference in its initial characteristics.

The maximum penetration of corrosion of the wire core from a square cut end shall not be greater than 25mm when the specimen has been immersed for 2000 hours in a 50% solution of HCL (Hydrochloric Acid 12BE).

| L x B x H (m) | NOMINAL MESH SIZE | BODY WIRE DIAMETER |
|---|-------------------|--------------------|
| 1 x 1 x 1 2 x 1 x 1 3 x 1 x 1 4 x 1 x 1 2 x 1 x 0.5 3 x 1 x 0.5 4 x 1 x 0.5 | | Ø 2.7 mm |

(Other sizes available on request)

