

# EGETRA

## GABIONS

### Specifications for hexagonal double twisted mesh gabions with diaphragms, made out of heavily galvanised low carbon wires

#### 1. GENERAL DESCRIPTION

A gabion is a rectangular structure made out of heavily galvanised double twisted hexagonal wire mesh, flexible, with specifications as described below.

Each gabion is divided in cells by diaphragms, each meter, that are longitudinally attached to the bottom of the gabion.

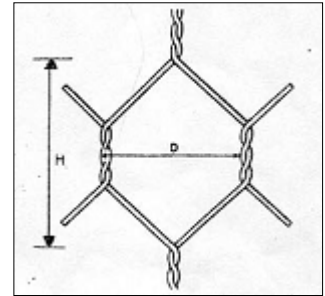
#### 2. MESH

The mesh panels are made out of double twisted hexagonal mesh.

The dimensions of the mesh shall be:

$D = 78 \pm 5 \text{ mm}$

$H = 118 \pm 5 \text{ mm}$



#### 3. WIRE

Each wire used for the manufacture of gabions and binding wire shall have a tensile strength of 372-490 N/mm<sup>2</sup>. The wire shall have a nominal diameter of 3.00 mm (+/-0.08 mm). Tensile strength and tolerance according to BSS 1052/1980 3 " Mild steel wire".

#### 4. ELONGATION

The elongation shall not be less than 12% before weaving or 10 % for wire samples taken from a gabion.

#### 5. GALVANISATION

Each wire used for the manufacture of the gabions and the binding wire shall be galvanised according to BSS 443/1982 "Galvanised Coating on Wire". The thickness of the zinc layer shall meet following specifications :

Nominal wire diameter		Min. thickness of the zinc layer
Binding wire	2.4 mm (+/- 0.06 mm)	260 g/m <sup>2</sup>
Mesh wire	3.0 mm (+/- 0.08 mm)	275 g/m <sup>2</sup>
Reinforcement wire	3.9 mm (+/- 0.10 mm)	290 g/m <sup>2</sup>
Selvedge wire	3.9 mm (+/- 0.10 mm)	290 g/m <sup>2</sup>

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The adhesion of the zinc layer to the wire shall withstand the twisting of six windings around a cylinder with a diameter equal to four times this of the wire itself. The zinc on the outside of the windings shall not show cracks and shall not peel off by rubbing the zinc layer with the finger.

## 6. SELVEDGE WIRE

At all edges (including those of the side panels and diaphragms) a selvedge wire diameter 3.90 (+/- 0.10 mm) shall be attached to the mesh in order to avoid unravelling of the wire mesh.

## 7. REINFORCEMENT WIRE

A reinforcement wire, located where the gabion is folded for assembly, is woven into the mesh. The wire diameter of these reinforcements shall be 3.90 mm (+/- 0.10 mm).

## 8. DIMENSIONS OF THE GABION

The standard gabions are available in the following dimensions:

2 x 1 x 0,30	2 x 1 x 0,50	2 x 1 x 1
3 x 1 x 0,30	3 x 1 x 0,50	3 x 1 x 1
4 x 1 x 0,30	4 x 1 x 0,50	4 x 1 x 1
2 x 0,5 x 0,5	3 x 0,5 x 0,5	4 x 0,5 x 0,5
4 x 1,5 x 0,3	1,5 x 1 x 0,5	1,5 x 1 x 1

## 9. BINDING WIRE

A sufficient quantity of binding wire, necessary for assembling the gabions, shall be delivered with the gabions. The estimated quantity is 3.5 % of the weight of the gabion. The binding wire shall be passed through each mesh making a double twist every other mesh.

The binding wire can be replaced by clips with following specifications :

- wire diameter 3.00 mm
- tensile strengt 170 kg/mm<sup>2</sup>
- zinc coating of min. 270 g/m<sup>2</sup>