

# ROCK MATTRESSES DESIGNED TO RESIST MOVEMENT IN HIGH-FLOW CONDITIONS

## GEOFABRICS GEOMATTRESS ROCK MATTRESS - GALVANISED & PVC COATED

### TECHNICAL DATA SHEET

Geofabrics® Geomattress™ rock mattresses are constructed with double twisted steel wire mesh filled with rock to form thin, flexible cages designed to resist movement in high-flow conditions.

The structure is divided into cells which prevent displacement and enhance stability.

- All wire used in the manufacture of Geomattress rock mattress complies with EN 10223-3:2013 and has a tensile strength of 350 - 550 N/mm<sup>2</sup>
- The steel wire used is Zn- 10%Al coated with an additional PVC coating in accordance with EN 10245-2:2011, applied to satisfy the durability criteria for highly corrosive environments
- Proven to be over 50 per cent more effective than rip-rap in high shear stress conditions

### GEOMATTRES GALVANISED & PVC COATED - SPECIFICATIONS

TEST	STANDARD	UNITS	VALUE
Physical Properties			
Steel wire diameter (int / ext)	EN 10218-2	mm	2.00 / 3.00
Selvedge wire diameter (int / ext)	EN 10218-2	mm	2.40 / 3.40
Zn-10%Al Coating	EN 10244-2	Class	A
Concentricity of PVC coating	EN 10245-3	%	>60

SIZES			
Length (m)	Width (m)	Height (m)	No. of diaphragms
6	2	0.17	5
6	2	0.23	5
6	2	0.30	5

Sizes and dimensions are nominal. Tolerance of ± 5% is permitted.

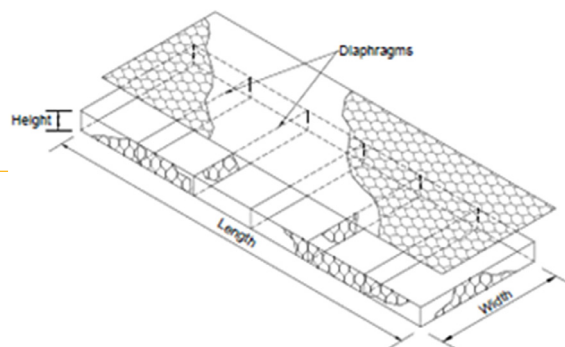
#### LACING

Lacing wire is used in the assembly of mattresses.

The diameter of the steel wire shall be 2.2mm.

Stainless steel rings having the following specification can be used instead of lacing wire for gabion assembly:

- diameter: 3.00 mm
- tensile strength: >1550 MPa
- pull-apart strength > 2.0 kN



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