



TeMa – GABION & MATTRESS

Functions: Erosion Control, Retaining Walls, Weirs & Slope Stability Structures

STRUCTURE: TeMa-GABION & MATTRESS are steel wire gabion cages of coated hexagonal twisted mesh used as baskets and mattresses when filled with stones or rock.

Depth: ⁽¹⁾

CAGE PROPERTIES		<1.0m	<0.5m	
Maximum Width ⁽²⁾	m	1.0	2.0	SANS 1580:2010
Maximum Length ⁽²⁾	m	4.0	6.0	

Depth: ⁽¹⁾

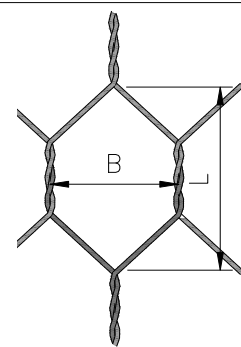
MESH DIMENSIONS		0.30 – 1.00	0.17 - 030	
Width (B) ⁽³⁾	m	80	60	SANS 1580:2010
Length (L) ⁽³⁾	m	100	80	
Mesh Wire	mm	2.7	2.2	
Selvedge ⁽⁴⁾ Wire	mm	3.4		

WIRE PROPERTIES		BOX	MATTRESS	
Type		Mild Steel		
Mesh Diameter ⁽⁵⁾	mm	2.7	2.2	SANS 675:2011
Selvedge Diameter ⁽⁶⁾	mm	3.4		
Lacing/Binding Diameter ⁽⁷⁾	mm	2.2		
Zinc Coating (Class A)	g/m ²	240 - 275		
PVC Coating	g/m ²	>0.45		
Galfan Coating	%	5% Al / 95% Zn		

1. A gabion is generally regarded as a **Box** if configured with a depth of 0.5m to 1.0m and a width and length of 1.0m to 4.0m, and a **Mattress** if configured with a depth of up to 0.3m and width of 1.0m to 2.0m and a length of up to 6.0m.
2. If the dimension of a gabion exceeds the prescribed values, diaphragms shall be used to divide the gabion into sections not exceeding 1.0m.
3. See figure below:
4. A selvedge is a boundary or edge for panels of a gabion cage that is intended to be strengthened and facilitate connections between panels and other cages.
5. Excluding PVC coating. With PVC coating – Box: 2.2mm (Int.) & 3.7 (Ext.); Mattress: 2.2mm (Int.) & 3.2 (Ext).
6. Excluding PVC coating. With PVC coating – Box/Mattress: 3.4mm (Int.) & 4.4mm (Ext.)
7. Excluding PVC coating. With PVC coating – Box/Mattress: 2.2mm (Int.) & 3.2mm (Ext.)

Mesh Tolerances

The tolerance on the opening of mesh "B" being the distance between the axes of the twists, is according to specifications UNI 8018.



The information given in this datasheet is to the best of our knowledge true and correct. TeMa SA reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for the design and procurement purposes are current and consistent with the products used in each instance.

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