

Technical data sheet of the rigid gabion **GJM STEEL**

Used for the construction of works with dry wall structures. The structure composed by welded gabions are widely used, in particular for the realization of separating walls and enclosure, acoustic and visual barriers in the architectural, road and rail field.

The GJM STEEL is a box structure, made by welded metallic mesh, with fast-assembling panels, highly draining, 100% recyclable and it's fit perfectly in the landscape.

The filled gabions can be lifted by hooks with combs (CE certificate), thanks to the strength and robustness assured by the structural system of 20x200 mm thin mesh. The GJM gabions can be assembled, filled on-site with stone resistant to breaking, to freeze/thaw cycles and with a granulometry of 30-60 mm and then positioned. The gabions can be alternatively assembled, filled and compacted in the plant with stone resistant to breaking, to freeze/thaw cycles, compact, not crumbly with a diameter of 30-60 mm. they can be subsequently moved and positioned on-site, forming a single structure, safer for the operators.

The fast assembling and positioning method of the GJM STEEL Gabions allows to obtain a daily production of over 200 m²/day.

TECHNICAL SPECIFICATIONS

Wire specifications	<i>Wire with diameter of 6 mm, tensile strenght > 517 MPa, medium extension 6,47% (EN 10223/8, ISO 6892-1, EN 10218-1)</i>
Corrosion strength	<i>Galvanic coating Zn/Al (zinc 95% - alluminium 5%) > 290 gr/mq, according to the norm UNI EN 10244-2 classe A. Corrosion tests in artificial atmospheres with saline mist: surface affected by rust < 5% (EN 10223/8, EN ISO 9227). Galvanizing grip EN 10442-2, EN 10218-1, EN ISO 7802</i>
Weld shear strenght	<i>Medium welding shear strength >75% of the wire strength, done on a sample of nr. 4 casually selected welds</i>
Mesh sizes	<i>Mesh 20 x 200 mm, single vertical and horizontal wire</i>
Configuration of the long lateral panels:	<i>two long lateral panels, opposed, which have folds on the bottom J-shaped, to assure the anchoring of the floor panel</i>
Configuration of heat panels : for the non –overlapping model for the stackable model pillars and grafts	<i>two short lateral panels facing each other which showcase U-shaped folds on the side to assure the anchoring of the long lateral panels</i> <i>two short lateral panels facing each other which showcase U-shaped folds on the side to assure the anchoring of the long lateral panels and welded steel pipes (boxed) with a square section 60x60 mm (patented system)</i> <i>tubular quadrilaterals pillars 50 x 50 mm with perforated plate for the anchoring, through dowels to the concrete, or rod-like as grafts between the underlying gabion and the one above</i>

Configuration of the bottom and cover panel	<i>Bottom and Cover panel with single wire with mesh 20x200 mm</i>
Rods configuration	<i>Internal rods with a 6 mm diameter wire, specifically folded and of an useful amount to distribute equally the internal thrust</i>
Liftin System	<i>Hook with the GJM COMB with CE marking</i>
Dangerous substances	<i>all the components are devoid of dangerous substances following a test done according to the information of the EOTA Technical Report 034 of October '15 "General BWR3 Checklist for EADs/ETAs Dangerous substances ".</i>

In the case of assembling, filling and positioning on-site, gabions will be assembled using the panels with the fast-locking system and will be stiffened using the given shaped rods. For the binding process between the gabions on site, it is expected the use of a pneumatic and/or a manual stapler for the metallic mechanized spots with a diameter of 3,00 mm. At the end of the assembling process of the gabion in welded mesh, the filling will start, through manual or mechanized positioning of the stones.

Table of measurements and weights

MODEL code	length. cm	deep cm	high cm	Empty weight kg
Not stackable				
GJM1.05.1	100	25	50	18
GJM2.05.1	200	25	50	36
GJM1.1	100	25	100	36
GJM2.1	200	50	100	62
Stackable				
GJM1.05.2	100	25	50	27
GJM2.05.2	200	25	50	45
GJM1.2	100	25	100	52
GJM2.2	200	50	100	80



Example of the panels' configuration of the GJM 2.2 Gabion 200x25x100 stackable

