

GABION TECHNICAL DATASHEET

Product Applications

Rigid electro-welded panels for the construction of gabions, privacy screens, wall facings, decorative walls, furniture, fencing...

Normative References

Raw material – Wire: CRAPAL PREMIUM wire – ARCELOR MITTAL – ZN95%/AL5% coating

The wire used in the production of our gabion panels complies with the following standards:

- NF EN 10218-2: Steel wires and wire products – Part 2: wire dimensions and tolerances
- Wire diameter tolerances (Table 1) → Class T1
- NF EN 10244-2: Non-ferrous metallic coatings on steel wire.
- Coating mass (Table 2) → Class A

Gabio panels

Our gabions/panels comply with standard NF EN 10223-8: Steel wires and wire products for fencing – Part 8: Welded mesh gabions.

All panels making up our gabions are manufactured in France. They are delivered on pallets weighing approximately 200 to 500 kg, in dimensions of 1000x1000 mm or 2000x1000 mm. They are produced using wire with diameters of 4, 4.5 mm, 5.5 mm or 4.5 mm double-wire (double horizontal wire for peripheral panels). The nominal lengths and widths of the panels range from 300 mm to 2000 mm, with an end cut of 0 mm or equivalent to half a diameter. Our panels can have 50x100 mm, 25x100 mm or 100x100 mm mesh (inner panels or bases, for example). They meet the requirements of NF EN 10223-8 in terms of dimensional tolerances (nominal panel dimensions, mesh dimensions) and mechanical tensile strength at wire and weld level. In addition, to provide further information on ageing and corrosion resistance, our panels are fitted with advanced Class A metallic coating as defined in §7.6.2 of standard NF EN 10223-8.

The fastening system – Staples

Staples consist of 3 mm diameter wire with a tensile strength of 1750 to 1900 N/mm² and a ZN95%/AL5% treatment.

LANDSCAPE DEPOT

Gabion module composition : 2 configurations Case 1

Example of a 2000/1000/1000 mm gabion module (Length/Width/Height), fitted with a "diaphragm" panel placed in the centre of the module and tie reinforcements: 4 reinforcement points per m² of panel, i.e. for 2 m³, 16 tie reinforcements of 1000 mm.

Panel fastening is performed using one staple every 10 cm, i.e. approximately 120 units/m³.

Installation: All installation recommendations and advice are compiled in a catalogue of technical installation guides, which are specific to each use of the gabions (decorative structure, retaining structure, etc.). All of these documents are available to our clients.

Prescriptions and Studies

All our specifications comply with the following standards:

NF P 94-281: Justification of geotechnical structures – Retaining structures – Walls

NF EN 1997-1 June 2005 : Eurocode 7 parts 1 and 2 – Geotechnical design

Quality, Control, Engineering

All our panels and fastening accessories (excluding staples) are manufactured in France in our own factories. They undergo rigorous inspection in our internal laboratories (dimensional checks, weld strength) in compliance with applicable standards.

Our products and systems are developed by our R&D departments (geotechnical and structural engineers), production engineers and methods engineers.

Insurance

Manufacturer's civil liability insurance against any manufacturing defects.

Ten-year decennial liability insurance for our studies and specifications, Civil Engineering and Building.

Case 2

Example of a 2000/1000/1000 mm gabion module (Length/Width/Height), fitted with a "diaphragm" panel placed in the centre of the module and reinforcement panels, 2 per metre, i.e. 4 units.