

Fibrocage

Green Collapsible Gabion Container



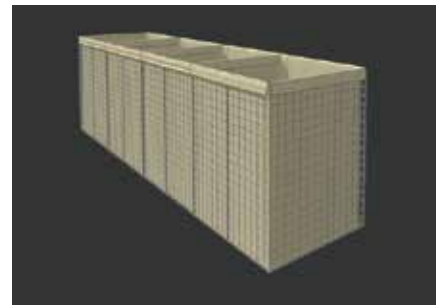


Fibrocage

The Fibrocage is a modern gabion used for flood control, erosion control, retaining and architectural structures application. It is made out of collapsible galvanized welded wire mesh container, heavy duty non-woven geotextile and a layer of green mattress that allows vegetation on the cage. Fibrocage can be used as a temporary to permanent method for both flood control and erosion control. Easily obtained infill materials can be almost anything we can get from the site including earth, sand, rocks or even mixture of all these.

Field installation of Fibrocage is quick and easy. In fact, installation time can be as much as 40% less than the time required by hexagonal type gabions. The Fibrocage design provides a cellular structure, it can be used in separate cell or joining cells together. All Fibrocage are pre-assembled and delivered packed flat.

Apart from a broad range of civil and architectural applications, Fibrocage is also ideal to be used in construction of reservoirs, drainage channels and ground stabilization works.



Advantages

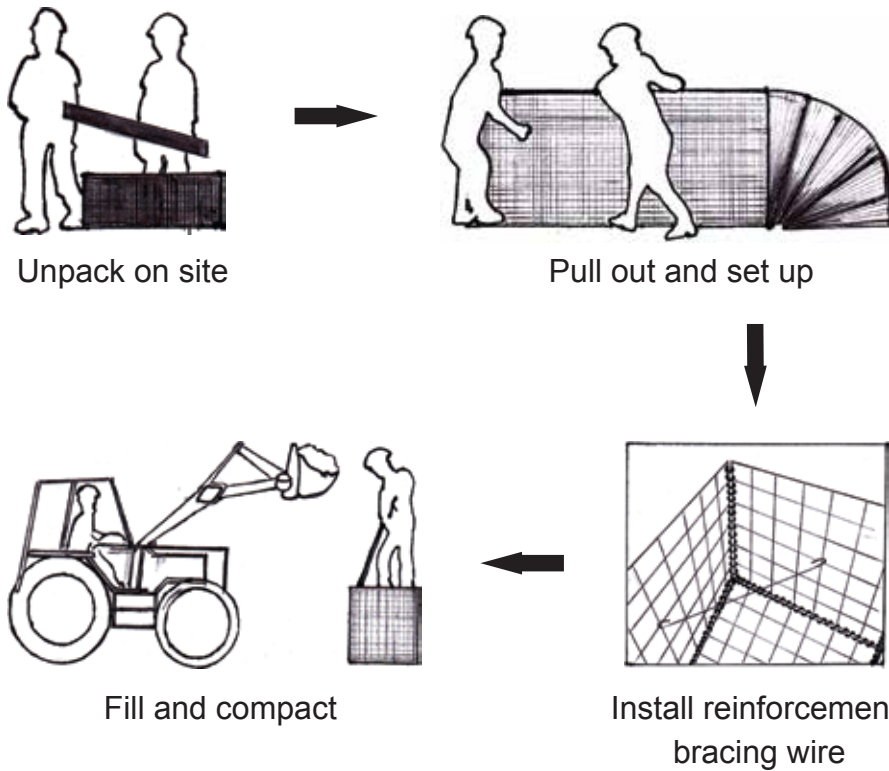
- Easy installation, minimal training requirement for installation
- Quick and efficient installation, ten times faster than traditional sandbags
- High tensile and anti-impact capability
- Long life for regular use
- Can be connected together to any length, and can be stacked for additional height
- Filling material is an easily-obtained mix of sand, earth or small stones
- Low transportation cost, can be shipped and stored as a flat-pack unit
- Low labour cost, all products are pre-assemble and easy to install
- Green solution for environment, with capability of natural vegetation on surface compared to traditional gabion



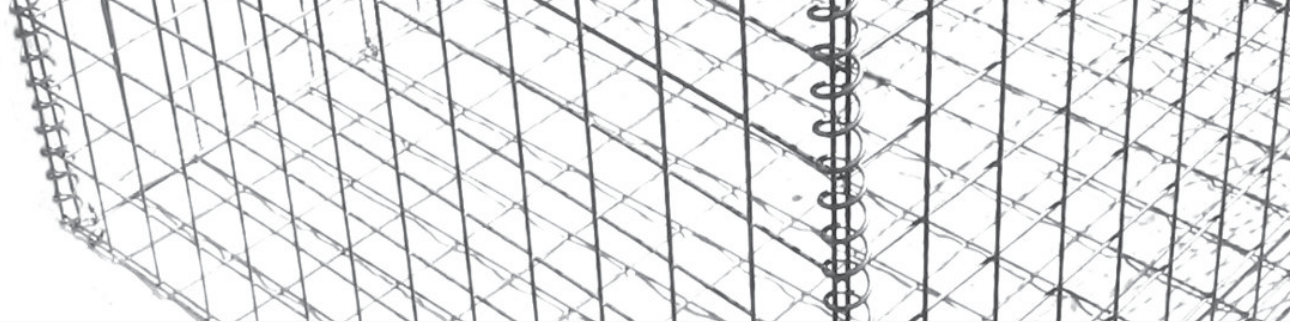
Application

- Water courses
- Coastal defences
- Scour protection
- Emergency flood deployment
- Erosion and flood control
- Slope & embankment protection
- Retaining walls

Installation



For grass establishment outcome, hydroseed on the facing surface of the Fibrocage upon completion of step 1-4. Necessary watering and maintenance is essential.



Specifications of Fibrocage

Technical Properties	
Wire composition	Steel, 0.10% Carbon max.
Nominal wire diameter	3.0mm
Wire diameter tolerance	2.92/3.00 mm
Tensile strength of wire	600 – 770 MPa
Type of coating	Innagal (95% Zinc, 5% Aluminum)
Mass of coating	255 g/m ²
Mesh spacing	83mm x 83mm
Mesh spacing tolerance	+/- 0.50 mm
Weld shear strength	70% of wire tensile
Weight per panel	2.8 kg
Panel elongation	< 7%
Panel tolerance	+/- 2 mm on length and width +/- 1 mm on mesh spacing
Panel squareness	+/- 4 mm
Panel flatness	+/- 15 mm

Physical Properties	
Length	4m (Four 1m X 1m unit joined)
Width	1m
Height	1m
Mesh size	2" X 2"
Wire diameter	3
Spiral wire diameter	4
Geotextile used	MTS140S

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