



Gabion and Mattress Specification Sheet

Flexible retaining structures on land and in water, vertical or on-slope erosion protection.



Gabions offer a time-honoured system for the construction of river walls - revetments - drainage channels - canals - reservoirs - coastal defences - retaining walls and many other applications.

Verdant Solutions are able to offer a comprehensive range of gabions as standard.

Non standard components can usually be supplied quickly and economically.

Normally only a simple foundation layer is required, consisting of a grading layer of granular material.

The selection of the appropriate fill material can help structures to blend in with their natural surroundings. Where geosynthetic fabrics are used in conjunction with gabion constructions, Verdant Solutions are able to offer the most appropriate product from our wide range of products. Gabions form a flexible monolithic structure and can maintain total structural effectiveness even on land liable to differential settlement.



Assembly

Components are held together using ring clips or helicals to enable gabions to be erected quickly with readily available labour. Our gabions are made from high tensile wire mesh electrically welded at every intersection. In situations where protection to the steel mesh is desirable we can supply sections assembled from hot dipped galvanised heavy duty steel wire.

Assembled gabions are normally placed in-situ prior to filling.

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Gabion and Mattress Specification Sheet continued....

Weld grip mesh can be easily cut and folded to form mitre joints, angles or curves. Cuts mad close to the welded joints of the mesh naturally forms selvedge edges. These clean edges can then be wired neatly to adjacent faces.

Delivery

All gabions are supplied in fold flat form and comprise base, four sides, dividers (if required), lid and lacing wire.

Standard Welded Mesh Gabion sizes

Corrosion protection	Triple life coated	PVC Zinc coated
Mesh size unit size	76.2mm x 76.2mm wireØ	76.2mm x 76.2mm wireØ
1m x 1m x 1m	3.0, 4.0, 5.0mm	3.0, 3.8mm
1.5m x 1m x 1m	3.0, 4.0, 5.0mm	3.0, 3.8mm
2m x 1m x 1m	3.0, 4.0, 5.0mm	3.0, 3.8mm
3m x 1m x 1m	3.0, 4.0, 5.0mm	3.0, 3.8mm
4m x 1m x 1m	3.0, 4.0, 5.0mm	3.0, 3.8mm
1m x 1m x 0.5m	3.0, 4.0, 5.0mm	3.0, 3.8mm



Standard Welded Mesh Mattress sizes

Corrosion protection	Triple life coated	PVC Zinc coated
Mesh size unit size	76.2mm x 76.2mm wireØ	76.2mm x 76.2mm wireØ
3m x 2m x 0.15m	3.0, 4.0, 5.0mm	3.0mm
3m x 2m x 0.225m	3.0, 4.0, 5.0mm	3.0mm
3m x 2m x 0.3m	3.0, 4.0, 5.0mm	3.0mm
3m x 1m x 0.15m	3.0, 4.0, 5.0mm	3.0mm, 3.8mm
3m x 1m x 0.225m	3.0, 4.0, 5.0mm	3.0mm, 3.8mm
3m x 1m x 0.30	3.0, 4.0, 5.0mm	3.0mm, 3.8mm



700 System Gabion sizes

Corrosion protection	Triple life coated 76.2mm x 76.2mm wireØ	PVC Zinc coated 76.2mm x 76.2mm wireØ
Mesh size unit size		
2m x 0.7m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 1.0m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 1.4m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 1.7m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 2.1m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 2.4m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 2.7m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels
2m x 3m x 0.7m	3.0mm with 4.0mm face and rear panels	3.0mm with 3.8mm face and rear panels

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