

# AGA GABIONS

## A.G.A. WELDED MESH GABIONS

A.G.A. Group gabions and mattresses come in sizes and finishes to suite any application. Whether stacked, bonded or installed individually, once filled with selected material they form a monolithic retaining wall to stabilise earth and control erosion. They are a well established product for use in high velocity and turbulent rivers, revetments, drainage channels and tidal waters.

The use of natural stone at the face of gabions results in an attractive appearance, moreover above or below the water line they provide excellent habitat for a host of different species.



Gabions form a flexible monolithic structure and can maintain total structural effectiveness even on land liable to differential settlement.

Our gabions are made from high tensile wire mesh electrically welded at every intersection.



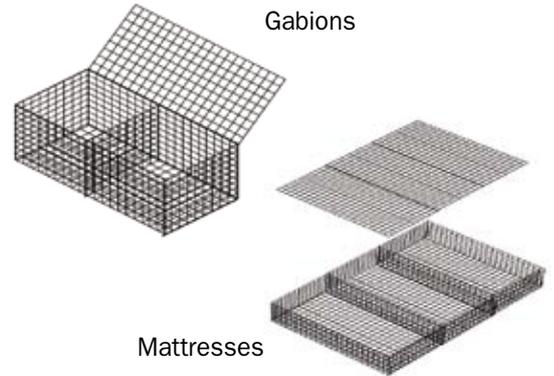
A.G.A. Gabions are proven and well established tools for the construction of :-  
**river walls - waterways - canals - reservoirs - revetments - drainage channels - flood protection - coastal defences - retaining walls and many other applications.**

The selection of the appropriate fill material can help structures to blend in with their natural surroundings.

The dimensions of the fill material should exceed the mesh size and should be overfilled by 20 mm - 50 mm to allow for settlement.

### Guide to the weight of some suitable fills

Material	Average kg/cu. metre
Basalt	1650
Brick	1240
Broken Concrete	1340
Granite	1600
Limestone	1440
Sandstone	1390
Shingle	1500
Slag	1500



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CONCEPT TO COMPLETION

# AGAGABIONS

The A.G.A. Groups 20 years experience in aquatic engineering enables us to provide the best in design suggestions, fill materials and environmentally acceptable solutions in the use of gabions.

### Delivery

All gabions arrive on site flat and comprise base, four sides, dividers (if required), lid and lacing wire.

### Assembly

Components are held together using either butt welded rings, ring clips or helicoils to enable gabions to be erected quickly with readily available labour.

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

Only minimal foundation preparation is usually required for gabions and they generally need little or no extra drainage considerations since they provide natural drainage and they can also allow for the establishment of vegetation. Where geosynthetic fabrics are used in conjunction with gabion constructions A.G.A. are able to offer the most appropriate product. Welded mesh gabions can be easily cut and folded to form mitre joints, angles or curves. Cuts made close to the welded joints of the mesh naturally form selvedge edges. These clean edges can then be wired neatly to adjacent faces.



At A.G.A. we are able to offer a comprehensive range of gabions and mattresses as standard. These units can be the solution for the majority of design situations.

Gabions Nominal Dimensions		
Length x Width x Height	Dividers	Capacity m <sup>2</sup>
1.0m x 1.0m x 0.5m	0	0.5
1.0m x 1.0m x 1.0m	0	1.0
1.5m x 1.0m x 0.5m	1	0.75
1.5m x 1.0m x 1.0m	1	1.5
2.0m x 1.0m x 0.5m	1	1.0
2.0m x 1.0m x 1.0m	1	2.0
3.0m x 1.0m x 0.5m	2	1.5
3.0m x 1.0m x 1.0m	2	3.0
4.0m x 1.0m x 0.5m	3	2.0
4.0m x 1.0m x 1.0m	3	4.0

Mattresses Nominal Dimensions		
Length x Width x Height	Dividers	Capacity m <sup>2</sup>
3.0m x 2.0m x 0.15m	2	0.9
3.0m x 2.0m x 0.225m	2	1.35
3.0m x 2.0m x 0.3m	2	1.8
6.0m x 2.0m x 0.15m	5	1.8
6.0m x 2.0m x 0.225m	5	2.7
6.0m x 2.0m x 0.3m	5	3.6

**Welded mesh gabions and mattresses specs:**  
 Mesh specifications - 76 mm x 76 mm  
 Choice of wire gauge: 3.0mm - 4.0mm. - 5.0 mm  
**Also available are:**  
 Long Life Coated Welded Mesh Gabions or  
 PVC Zinc coated with galvanised core.

The A.G.A. Group installation teams operate solely within the field of aquatic and bioengineering. We operate a policy of 'Best Practice' and are bound by the Code of Conduct of both the Institute of Fisheries Management and the Society of Biology. The A.G.A. Group will quote for the supply of materials, their installation or for 'turnkey' projects.

A.G.A. is Quality assured to: ISO9001 : 2008 and ISO14001 : 2004

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A.G.A. Group, MMG and MHP are trading styles of A.G.A. Enviro-Fix Limited



## Dedicated To The Environment



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