



Gabions



Applications

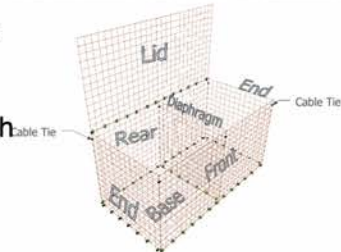
- Retaining Wall for infrastructure
- Architectural Gabion columns and cladding
- Rock Freestanding Walls for Garden
- Sound Barriers and Garden fences.

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Standard Gabions

Manufactured from welded mesh size 76,2mm x 76,2 mm (c/c wire to c/c wire) welded mesh panels, flush all round. Wire coated with alu-zinc corrosion protection, 95% zinc 5% Al. (Galfan) corrosion class 3. Nominal wire diameter 3,0 mm and 4.0mm. Tensile strength for this wire is 450 - 750N/mm². We stock a wide range of gabion products and accessories including helical binders , C rings and gabion tools.



Retaining Walls

Gabion have been traditionally been used for retaining walls due to their low cost compared to conventional methods. They can be built as either mass gravity walls (relying on the weight of rock to retain the earth) or as mechanically stabilised walls (which use geogrids or earth anchors to hold the wall in place).



Free Standing Walls

Gabions make ideal garden walls for any landscaping project. They have the advantage of being easy to build and can look great. By using different rocks and materials a gabion wall can stand out. Useful to breakup areas of garden or park into separate areas. A low wall of 1m or less can be built to curve around a seating area for example. Also great for acoustic walls by using sound absorption materials within the wall with rocks on the outsides.



Cladding and Columns

Architectural gabion is perfect for cladding an otherwise ugly concrete facade or column. They can be built to a minimum depth of 230mm. The optimum depth is 300mm which makes construction easier.



Nominal Unit Size Standard Gabions
Length x width x height
2 m x 1 m x 1 m
2 m x 1 m x 0,5 m
2 m x 0,5 m x 0,5 m
Other sizes to customer request



Nominal Unit Size for Gabion for Prefill and lift
Length x width x height
1,2 m x 0,7 m x 0,7 m
0,5 m x 0,5 m x 0,5 m



Nominal Unit Size Gabions for Cladding
Length x width x height
2 m x 0,3 m x 0,5 m
2 m x 0,3 m x 0,7 m
or to customer request.



For garden fences
we supply loose panels 2,0 m long and 1 meter high including bracing ties and cable ties. We can manufacture post etc to customers drawings and specification.



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Estimated Galfan Gabion Lifespan

Although its difficult to predict a lifespan of all steels is largely dependant upon the environment. Based on long-term location studies, it has been established that durability of zinc-aluminum coating is 3 o 4 times the life expectancy of a standard zinc coating (app. 20 years) for the same coating weight.

Gabions produced in Europe are protected with zinc-aluminum coating and replace common hot dipped. In some cases, the zinc / aluminum replaces the PVC / Zinc coated materials except in extreme exposure conditions where gabions are exposed to saline or salt spray conditions.

Aluminum zinc can be used in considerably more corrosive environments than for example hot-dip galvanized steel. Aluminum zinc is the only metal-coated material that can be used in corrosivity classes C3 and C4 according to EN ISO 12944-2.

C3 - Atmospheres with a certain amount of salt or medium amounts of air pollution. Urban areas and light industrialized areas. Areas of influence from the coast.

C4 - Atmospheres with medium amount of salt or significant amounts of air pollution. Industry and coastal areas.

In general it is resistant to salt spray.

Gabion Accessories



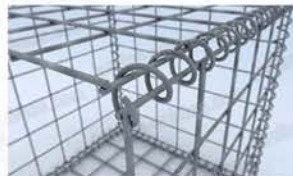
Bracing ties (Stiffener)

Bracing ties are placed inside from rear to front the cage to give cage rigidity



Spiral connection

Spirals or helicals are the best method to connect panels to build a gabion cage. Spirals are the strongest connection



C rings connection

This connection method requires a gabion C ringer tool (available for purchase) 3mm diameter x 45mm (widest point) Tensile strength 1700-1900 N/mm². Mild steel coated Galfan 5% Al, 95% Zn



Other Product from UNIK Wall as



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