



**GABION**  
**BASKETS**

*we box rocks!*

# Corporate Brochure

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## Contact Details.

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## Company Profile.

We offer products and solutions that solve soil erosion and retention problems throughout Southern Africa and the Indian Ocean Islands. The managing director – Mr. Louis Cheyne has in excess of 18 years experience in this industry, and we are based in Lombardy West, Johannesburg. We also have distributors in different areas.

Our materials are sought widely throughout the world as soil erosion is a global phenomenon. Our solutions involve the use of competitively priced products, with low or little environmental impact and we offer high service levels to all companies and individuals making inquiries.

We assure you of our best attention at all times, kindly contact us for any further information you may be looking for, and we look forward to hearing from you. Please also browse our website or give us a call so we can be of assistance to you.

Yours Sincerely

Louis Cheyne  
Managing Director  
083 - 2558072

## Products.

### Gabion Baskets and River Mattresses

We use the 80x100mm hexagonal mesh aperture, with Class A galvanized (also supplied with a 0.5mm thick P.V.C. thick coating if required). The gabion mesh wire diameter is 2.7mm, 3.4mm salvage wire, with 2.5mm mesh wire and 3.0mm salvage wire for River mattresses. All materials are dispatched with a 2.20mm lacing wire for erection purposes, also PVC coated where necessary. Our products conform to the SANS 1580 specification.



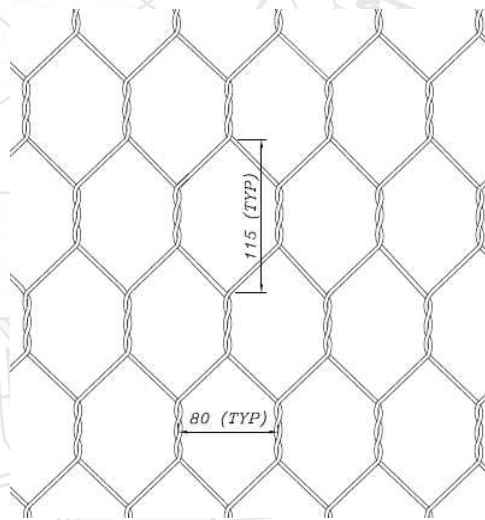
Gabions



River Mattresses

## Hexagonal woven mesh

The product is the same as the material used in the erection of the baskets, however is sold in rolls for rockfall mesh netting purposes on slopes requiring additional support and to encourage plant growth. Mesh rolls can also be used for covering large areas where mattresses are laid more rapidly, also removing the normal lids which get in the way during the normal rock infill process.



## Geotextiles

We offer non-woven needle punched geotextile normally used together with gabions and mattresses or for sub-soil pipe installations to prevent the movement and loss of soil fines through the structure from below or behind the structures or protection lining.



## Gabion tools

We offer the correct tools to use in the gabion erection process to allow for rapid erections on sites.



## Biodegradable soil blankets

These materials are used to solve embankment soil erosion problems, normally supplied in rolls. They encourage root support and keep the soil cool and moist during the initial growth phase.



## Subsoil Pipes

We offer pipes with holes and slots to drain wet areas and keep them dry, normally used with a geotextile to prevent soil loss. Normal sizes range from 75, 110 and 160mm diameter.



## Services.

### Site advise and assistance

We come to site to advise you on a potential solution to your problem

### Gabion structure design

A full complementary design service is offered, where we offer advice and recommend the use of our correct materials.

### Price estimates

Depending on the size and complexity of the gabion structure, we can assist by doing a bill of quantity to use larger gabion sizes thus reducing the material cost and installation time taken to complete the structure.

### Technical presentations

We undertake in house or public presentations to teach technical design guidance or practical on site monitoring of structure installations.

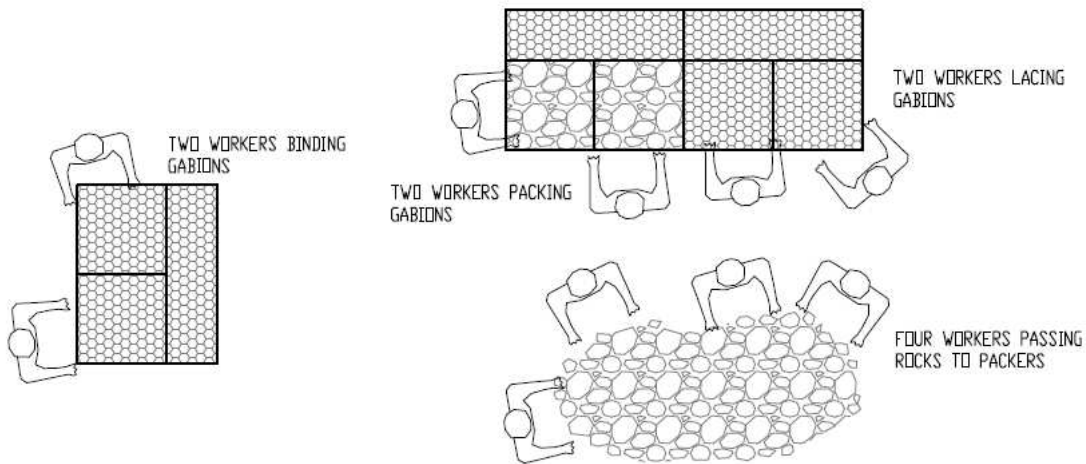
### Practical on-site training + Toolkits

We have experienced installers who arrive on site during a gabion installation and within one week train unskilled site persons how to install gabions and river mattresses.

### Experienced installers

Small companies with extensive installation experience can be offered to undertake and complete gabion installations, especially on important or complicated sites.

## TEN MAN GABION CONSTRUCTION TEAM



## Advantages of using gabions

1. Simple to use
2. Environmentally friendly
3. Labor intensive
4. Flexible
5. High strength
6. Corrosion resistant
7. Economical
8. Porous
9. High compressive and tensile strength

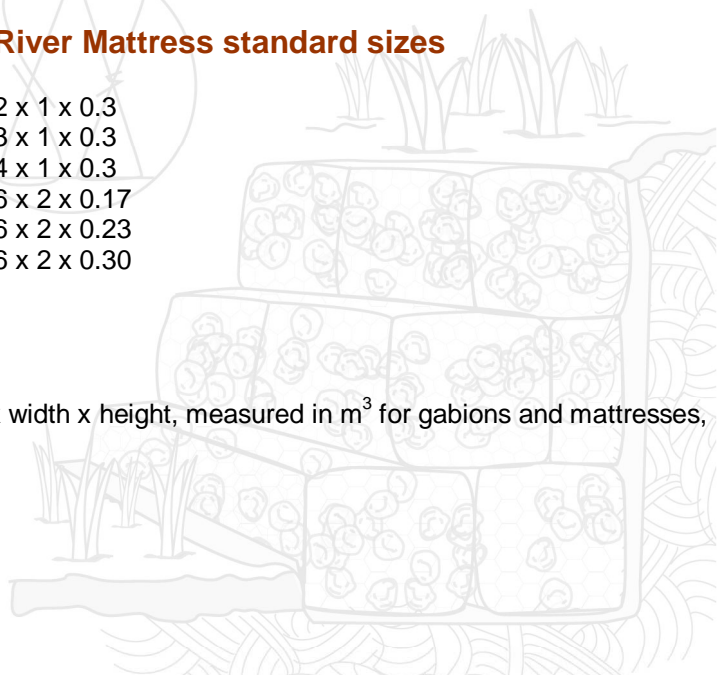
## Gabion standard sizes

2 x 1 x 1  
 3 x 1 x 1  
 4 x 1 x 1  
 2 x 1 x 0.5  
 3 x 1 x 0.5  
 4 x 1 x 0.5  
 6 x 2 x 0.5  
 1.5 x 1 x 1  
 2 x 0.5 x 0.5

## River Mattress standard sizes

2 x 1 x 0.3  
 3 x 1 x 0.3  
 4 x 1 x 0.3  
 6 x 2 x 0.17  
 6 x 2 x 0.23  
 6 x 2 x 0.30

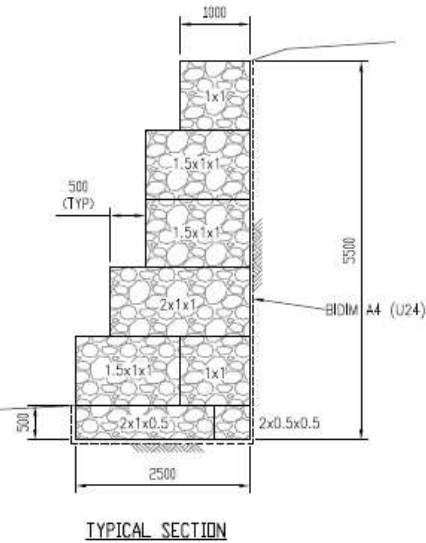
Dimensions are in metres, firstly, length x width x height, measured in m<sup>3</sup> for gabions and mattresses, mattresses can also be measured in m<sup>2</sup>.



## Gabion applications.

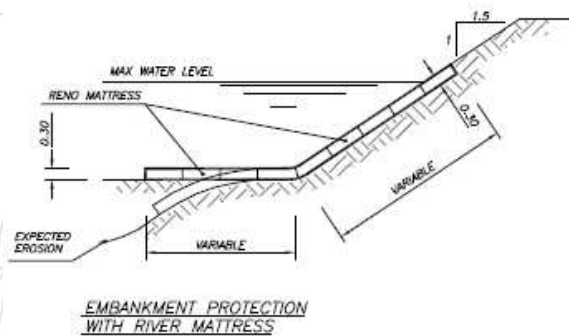
### Mass Gravity walls

This wall is usually installed with a stepped front face, it can also be erected vertical with a small batter slope. The foundation is normally to a depth based on about 10% of the structures height. The walls base width is normally 55-60% of the height, depending also on the in-situ soil parameters.



### Channel lining protection

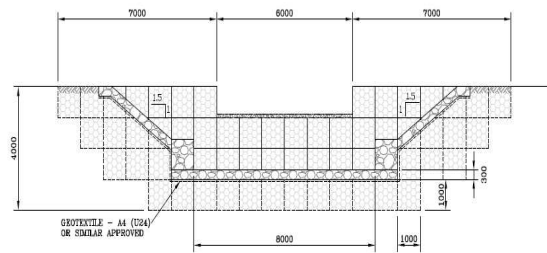
An embankment protection using various thickness mattresses, dependant on soil type and water flow velocity is used where soil erosion is a problem. These linings can be placed on slopes up to 35° from the horizontal. Steeper slopes must be anchored in position to stop mattress movement downhill.





## Gabion weirs

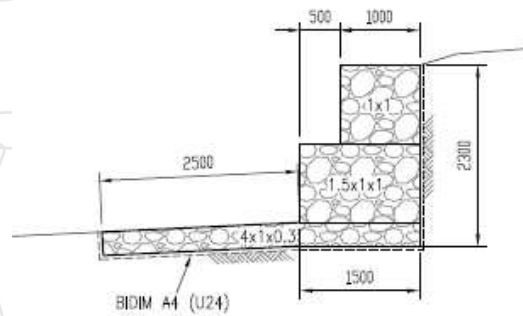
These structures are installed to reduce water flow velocity on steep slopes and encourage bed sediment containment and even water storage.



UPSTREAM SECTIONAL ELEVATION

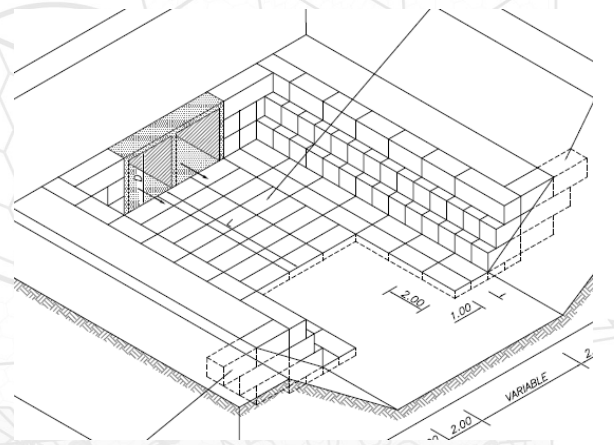
## Longitudinal river bank protection

Alongside a river embankment parallel to a sensitive installation, walls together with mattresses are used to stop erosion and reduce water velocity alongside the roadway for example, a gabion cut-off wall is required on the upstream end to prevent outflanking of the structure.



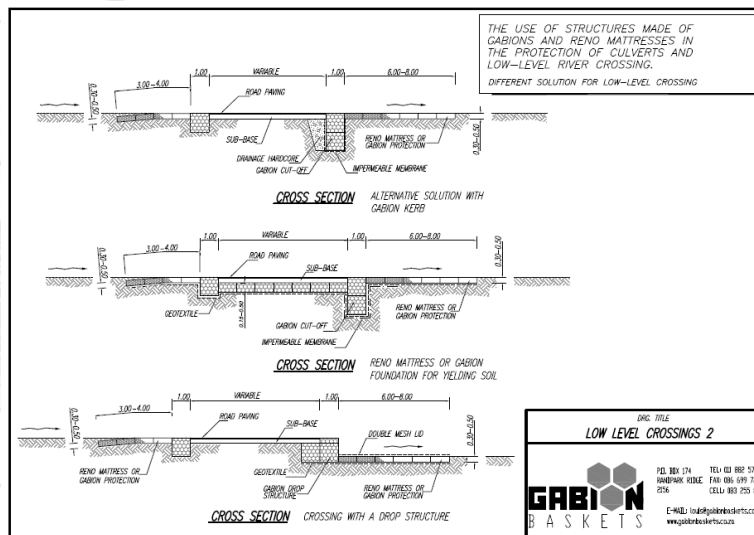
## Culvert protection

Gabion structures are commonly used to prevent scour at an inlet or outlet structure near a roadway, called a culvert.



## Low level crossings

Where the roadway crossing level is low and protection is required upstream and downstream of the roadway, we call these – low level crossings. Higher level crossings are referred to as Irish crossings.



Kindly contact us for anything further you may require, we pride ourselves on high quality customer support. We thank you for your time and look forward to hearing from you.