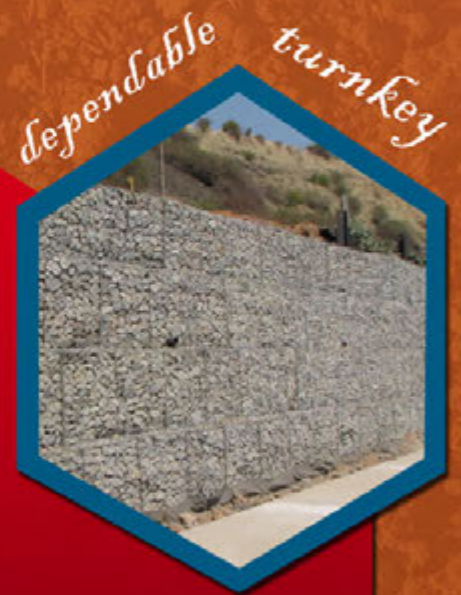




GABION

BASKETS

we box rocks!



T: +27 11 882 5788

E: mail@gabionbaskets.co.za

W: www.gabionbaskets.co.za

ABOUT US

Gabion Baskets (Pty) Ltd. is based in Johannesburg, South Africa and specializes in the manufacture of products used in the Civil Engineering and Mining Industries for the erection of retaining walls and river structures to reduce water flows and prevent soil erosion. We offer our services in South Africa, Lesotho, Swaziland, Namibia, Botswana, Zimbabwe, Zambia, Angola, Mozambique, Malawi, Congo (DRC), Tanzania, Uganda, Kenya, Ruanda, Comores, Madagascar, Mauritius and the Seychelles.



We have been in existence since June 2006, however, have gained valuable experience within the gabion industry since February 1992. We offer full turnkey solutions to our customers, including full civil engineering design of structures with AutoCAD drawings and bills of quantity. We can also provide you with experienced gabion installation trainers for sites. Our solutions are based on natural environment principals, tending to use locally available construction materials to blend in with the soils and vegetation where possible. Our team is passionate about the service we provide you and will make sure you have a professional solution to your problem.

OUR CLIENTS

BASIL READ[®]

**FRASER
ALEXANDER**

**Murray
& Roberts**

POWER
CONSTRUCTION



WBHO

TESTIMONIALS

"Whilst only a small client at present, I appreciate all the work that you have done for me so far. I have refined the design for the fish farm and I am excited about building the next unit. Perhaps in January we can build the small system here to test the theory. We are still being inundated with enquiries and there are also calls now for converting existing greenhouse structures. I am still very optimistic and have to be patient. I wish you a very merry Christmas Season and the most awesome 2012."
DAVID FINCHAM

"It was my pleasure to meet up with you and your team. It really boost our efforts since we really get good support and quality service from Gabion Baskets." **REJOICE**

"Many thanks – that is great turn around! (In response to his order being delivered with a 24 hour turnaround time.)"
LIONEL GILBERT

"Dear Louis & Lionel, I just want to say a BIG thank you for being so helpful re our erosion problems. I really appreciated your quick response & the fact that you cared enough to advise us as to our next step. I have contacted Mark du Casse & he will be coming to the club tomorrow to have a look. Thanks again for being so efficient & kind." **ANNE MACNAB**

OUR INSTALLERS



Carl Gous(Gabion Baskets)
– 082-8203883 – WC



Christo Van Niekerk(Gabion King) - 076-3131693 - KZN



Fanie Joubert(Gabion Guru)
– 082-4664661 – Mpum.



Louw Rabie (Baybreeze) –
082-3173493 - JHB



Ronnie Dagnin(Petron Eng)
– 082-8551447 - JHB

Products

HEXAGONAL WOVENMESH

Hexagonal wovenmesh is the perfect product for rockfall netting and to cover large areas of river mattresses quickly.

The mesh is of high strength and made of durable material. Two options are available, either Class A Galvanised or with PVC coating. The mesh size is 80×100 mm hexagonal mesh type with 2.7mm mesh wire and 3.4mm diameter salvage wire along the mesh roll edging. We normally also provide the 2.2mm binding wire for lacing rolls together along the common edge. These mesh rolls have a high tensile strength and can also be provided with steel dowels as required for anchorage into slopes.

Top rockfalls securely and efficiently with mesh rolls and also use mesh rolls to cover large areas of mattresses, often mattress lids get in the way during installations, we recommend leaving them out of the way.

Roll sizes available – 2metres wide x 50m long (100m²) or 2 x 100



GABIONS AND RIVER OR RENO MATTRESSES

Gabions are wire mesh boxes, containers or baskets filled with rock to prevent soil erosion and to retain/contain soil particles.

Gabions and geotextiles are normally used together to reduce water velocities and re-capture river bed sediment in streams. Flat Gabions, called River or Reno Mattresses are widely used in river courses where soil erosion is a problem over a large flat or sloped area needing protection against soil loss or scour. They are used mostly in the civil engineering industry especially in the construction of roadway drainage structures, however recently due to their environmental benefits are being used in many various applications and industries.

We manufacture Class A Galvanised or with an additional PVC coating, hexagonal type woven wire mesh gabion materials. The woven mesh has a high tensile strength at the same time having a high compressive strength when filled with suitable un-weathered rock. Our materials are quality assured, supplied together with the SANS 1580 mark and are used in a very wide range of applications.



THE GARDEN GABION

The smaller Garden Gabion can be used at home for terracing and retaining walls, or internal feature/decorative walls.

Generally the height of wall you require is 500 – 1000mm in height and this can easily be constructed using the 500 x 500 (width x height) basket. We offer hexagonal woven or welded mesh for this purpose.

1. The hexagonal woven mesh has an aperture of 80x100mm, with mesh wire diameter of 2.7mm, edge wire is 3.40mm.
2. The square welded mesh basket is supplied with an aperture of 50x100mm, wire diameter of 3.15mm

All Gabion mesh is Class A Galvanised mild tensile steel, to provide flexibility, and supplied packed flat for erection and filling on site. The small Gabion can be filled with glass bottles, rock, timber logs, building rubble, roof tiles or whatever you have available or would like to decorate the basket with, including filling with locally available topsoil. This soil filled basket would then require the Coir fiber blanket internally along all sides to prevent the loss of soil, lifespan of coir is 3-4 years depending on the local climate.



SAUSAGE GABION

The sausage gabion is manufactured from a hexagonal woven mesh panel, made out of Gabion mesh 80 x 100 x 2.7mm and rolled into a sausage on site and filled with rock to 75% fill capacity and laced together with the 2.20mm Binding wire.

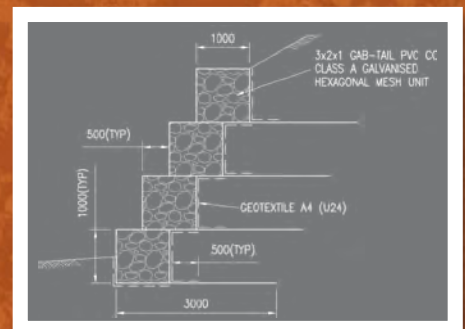
This is an extremely useful product for founding Gabion structures where you might normally consider using loose rock or rip – rap. Bearing in mind that loose rock can be washed away by high water velocities, it makes sense to rather enclose the rock in a flexible woven mesh cage and prevent this from happening. On flexible clay soil foundations a mesh contained rock pack will move much less than loose rock. The product is available with Class A Galvanising or with grey PVC coating. Sausage gabions should also preferably be placed above a geotextile layer and individual sausages should be anchored or laced together where possible unless they are anchored below the mass of the gabion structure, to prevent lateral movement under high water velocities.



GAB – TAIL SYSTEM

The Gab – Tail is a reinforced soil system, with gabion unit facing, together with an extended hexagonal woven mesh tail, which extends back into the soil.

Generally when your gabion structure is higher than 4 meters, and built in a fill(backfill) situation, the reinforced Gabion soil system becomes more economical and faster to install. The external gabion baskets facing provide the front internal stability to the overall structure. The mesh tails improve the lateral shear resistance (Tensile strength of the soil) providing improved overall stability improvement of the structure. A selected backfill is required meeting the requirements of at least a G6 or G7 backfill gravel, with no aggregate greater than 100-150mm that may damage the mesh. Normally this material is compacted in layers of not more than 150mm, normally to 95% ModAashto. Please contact us for any further information you require in this regard.



ARCHITECTURAL SYSTEMS

We offer solutions and expert advice on the installation of baskets for freestanding Gabion walls and Gabion wall cladding applications within the Architectural, domestic market.

Fully made up Gabion baskets or mesh rolls are offered for more flexible use on building or civil engineering construction sites. We have done some interesting projects and welcome queries to provide assistance to you in making your project a successful one.



Weldmesh Type - Aperture 100 x 50 x 3.15mm, or 50 x 50 x 3.15mm wire diameter mesh.
Hexagonal Mesh Type - 80 x 100 x 2.70mm wire diameter mesh

GABION ROCKS

Quality gabion baskets require quality rock infill.

We can offer suitable rock supply depending on the site for Gabion installation, often the rock supplier does not have rock stockpiled and we do try to provide the necessary information for obtaining the material. We also offer expert advice regarding the best rock specifications for your particular requirement.

The rock we recommend must be un-weathered and solid without flaking or weathering evident. The correct size to be used must be 100-250 mm minimum size for gabions (1m high baskets). With river mattresses the rock size is also 100-2/3 the mattress thickness so that at least two layers of rock can be used in the mattress layer thickness. Small rock fragments must not be used on the surface of either gabions or mattresses in river course situations as the fine material will be removed in high water flows. Always check that the rock size is bigger than the hexagonal mesh opening, within the centre of a gabion basket smaller rock may be used and limited to the centre of the gabion only.



GABION TOOL SETS

Enjoy efficiently neat installations of your gabion materials with our advanced tool sets.

These tools have been specifically chosen to ensure the shortest possible installation time. These tools also ensure that the quality of the installation is of the highest standard.

The tool sets consists of the following items to assist you in installing the gabion materials, it is not however a prerequisite

- Combination pliers
- Crow bars
- Gabion tensioner
- Gabion frame
- Tensioning frame
- Heavy duty hammer
- Leather gloves
- Stanley knife
- Fencing standards



GEOTEXTILES

Protect the integrity of your gabion basket installation with high quality geotextiles behind and below the structures against the soil.

We supply only the highest quality non-woven or woven geotextile for gabion installations and other applications. These geotextile filter fabric materials are used to prevent the migration of fine soils from below or behind the baskets and through the gaps between rock particles. This can cause subsidence problems below or behind the gabion structure in time if not applied correctly and will be a problem especially in sandy soils.

Clay soils do not generally require a geotextile filter fabric as they seldom leach through the basket section.



BIODEGRADABLE SOIL BLANKETS

Promote vegetation growth combined with your gabion structure.

Help retain the important top soil with our bio-degradable soil blankets and Coir logs. This range of products is of utmost importance in protecting the earth against soil erosion.

Their purpose is to keep the soil moist and cool during the initial growing phase of the plants and to encourage vegetation growth before the soil is transported away. Both the woven and non-woven blankets are eco-friendly and degrade into the soil over time, providing nitrogen into the soil during the initial growth phase.



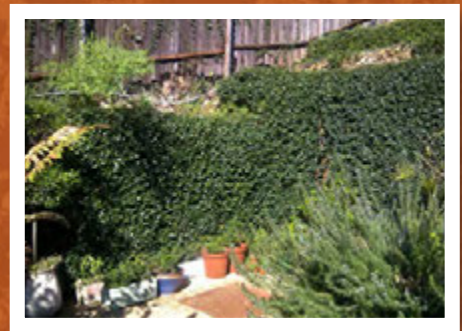
We offer rolls of biodegradable soil blankets for installation in areas where soil erosion is a pressing problem on a steep slope. These blankets can be made of hessian, jute and coconut fiber. Ranging

SOIL BIOENGINEERING

Promote vegetation growth and help retain important top soil with our bio-degradable soil blanket and Coir logs.

This range of products is important in protecting the earth against soil erosion.

Their purpose is to keep the soil moist and cool during the initial growing phase of the plant and to encourage vegetation growth before the soil is transported. A wide range of Bio-engineering solutions is available internationally. We have attached some information below regarding this interest application. Both our woven and non-woven soil blankets are eco-friendly and degrade into the soil over time, providing nitrogen for the soil during the initial growth phase. Go green with our bio-degradable soil blankets and Coir logs by ordering yours today. Start greening your gabion



IMPERMEABLE LINERS

Save time and money by making your gabion installations impermeable to water.

Impermeable liners are membranes which can be used to make gabions impermeable to water at low cost, normally used alongside a geotextile fabric placed against the soil for protection when placed alongside the gabion structure.

Impermeable liners are used in dams and waterways to prevent the passage of loss of valuable water, we often advise the use of a membrane to reduce water flows in hydraulic structures. The limiting of water movement through structures will reduce the possibility of later piping and embankment failure in earth dams for instance.





**Happiness does not come from doing easy work but from the
afterglow of satisfaction that comes after the achievement of a
difficult task that demanded our best.**

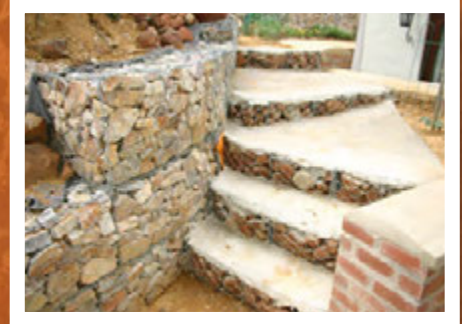
THEODORE ISAAC RUBIN

Services

CONSULTATION

Our professional technical consultants are available to advise you on the best product range and purchases with installation methods and advice to follow, ensuring that your final solution is cost effective and long lasting.

We offer full site advice which forms a package solution with the design and price estimates. We also offer full turnkey solutions with supply pricing options. On site gabion labour training and toolkits are offered with an after sales service during the projects progress or during the finalising of project completion, where construction problems might become evident.



PRATICAL SITE TRAINING

Gabion Baskets offer practical training to personnel on site to help local, possibly unskilled communities participate in infrastructure development projects, even when experienced construction skills are not available nearby.

Through this service we empower the local community with practical on site construction skills. We help achieve higher production rates with better quality workmanship on gabion installations. Normally advised for a period of 1 week of 5 working days, a toolset is also available for installing gabions.

Give back to the community by utilising the local talent to perform great gabion structure installations.



TECHNICAL PRESENTATION

Gabion Baskets offers technical presentations at your office to update your technical team on the detailed design or practical on-site characteristics of our products for the correct management of gabion related installations.

Presentations can be adjusted to meet the time you have available or for the guidance of contractors to assist with the planning and pricing of installations. We have the knowledge and expertise to make your projects successful.

Obvious benefits :

- No charge
- 20 (Twenty) years experience in this field to be passed on
- Theoretical design of structures
- Practical installation knowledge and support
- Assistance with knowing how to monitor gabion installations on site for the Engineers Representative
- Correct and appropriate specification usage
- Pricing guidance and makeup for the contractor or design estimation
- Different applications for gabions and their benefits and correct design
- Correct rock type and size to be used and labor production rates as well as volume to be used
- Update on the latest technologies and tools necessary for great gabion installations
- How to make gabion installation more machine or labor intensive
- How to make gabion installations more environmentally friendly by using local plant materials and soils
- Using of different geotextiles and mesh types – strength necessary



GABION STRUCTURE DESIGN

Experience peace of mind with professionally designed gabion structures as part of our quotation process.

Our designs are created with the full knowledge of our product range and the experience gained over years of gabion projects throughout Southern Africa. Design and technical detailing is done to provide advice and layouts on the best structure configuration to erect on site to solve a particular set of problems, with bill of quantity and expected timelines.

Give us a call and make sure that your installation starts with a well adapted, cost-effective technical structure design undertaken by our team.



COMPLETE INSTALLATION

Take advantage of the Gabion Basket turnkey installation service.

We provide the full advisory, design, product range required and installation services using our experienced installation contractors offering you peace of mind. We can visit your site, offer any technical advice required then undertake preliminary design drawings with B.O.Q. and expected timelines for completion with cost estimates for the works. Once you have approved this proposal we can finalise on the offering to include a fully costed quotation. This would include for the full design, material supply, installation and project management aspects. Depending on the site of the works, would facilitate the use of a skilled local installer.

Call us today to order your complete installation and enjoy a solution adapted to your particular site requirements.



GABION MODELS

We have found the use of miniature gabion and mattress models to be an excellent way of showing the use of our products.

They are made in JHB and we use them to show the installation methodology in a very simple and easily understood way. Kindly contact us should you wish to order some, a small range is currently available from our Johannesburg office.

We use a 13mm hexagonal bird netting mesh, with thin wire used for the lacing and salvaging. Which is cut and made by hand to size and displays all the various components of a gabion or river mattress product. I used to import these from Brasil, however then managed to source the mesh and a talented manufacturer of the miniature baskets locally, a Malawean guy, we then started making them in Durban – South Africa at the time in 1994. I can even remember exporting a box full of different size gabions models to Europe previously for one of the top gabion manufactures in Europe at that time. We look forward to showing you our gabion models, and you are welcome to visit our factory where the full size materials are made in Johannesburg.



CONCLUSION

You need to decide if you want a structure looking like :



OR



A successful gabion installation requires the implementation of the following good principles:

1. Initial site investigation and measurement.
2. Detailed structural design taking into account local soils, and conditions.
3. Materials recommended that satisfy site conditions, and life expectancy required.
4. Initial pricing and Installation of works by an experienced installer or site supervisor/gabion installation trainer.
5. Completion and signoff by an experienced person to determine that works done meet with site requirements.

We offer full technical and practical on site support to create safe and beautiful looking structures, so please make use of our services as soon as you require a gabion intervention. We take pride in the products and services offered to the community in Southern Africa.

CLICK THE LINKS BELOW TO READ MORE

**GABION AND
MATTRESS
STANDARD SIZES**

**THE GABION
DRAWING
GALLERY**

**THE GABION
PHOTO ALBUM**

**GABION VIDEOS
– YOUTUBE
CHANNEL**

Contact Us

CONTACT DETAILS

Tel +27 11 8825788 or 0861 Gabion (422466)
Fax +27 11 8825804 or 086 669 7205
Cell +27 71 680 4236
Email mail@gabionbaskets.co.za

Phys Unit A3, 24 Brighton Road, Lombardy West,
2090, Johannesburg
Post P.O.Box 174, Randpark Ridge, 2156

**OUR OFFICE HOURS ARE, MONDAY TO FRIDAY 08H00 UNTIL 16H30
COLLECTIONS BEFORE 15H30 PLEASE.**

BRANCHES NEAR YOU

GAUTENG

+27 11 882 5788 mail@gabionbaskets.co.za
Unit A3, 24 Brighton Road, Lombardy West,
2090, Johannesburg

KWAZULU-NATAL

+27 31 916 3628
brenda@gabionbaskets.co.za
Unit A, 22 Swanfield Road, Pinetown, 3610

EASTERN CAPE

041 453 2818
christa@ppplastics.co.za
23 Sutton Road, Port Elizabeth

WESTERN/NORTHERN CAPE

021 911 2685
carl@gabionbaskets.co.za
43 Aviation Crescent, Airport City, Cape Town

FREESTATE

051 400 7400
johnny@fenceandgate.co.za
22 Lessing Avenue, Estoire, Bloemfontein, 9301

MPUMALANGA

082 466 4661
consultfanie@gmail.com
PO Box 26628, Nelspruit

LIMPOPO

015 297 2470
kim@wenbrohire.co.za
18 Platinum Street, Polokwane

BOTSWANA

+267 392 6371
rejoice.tsheko@gmail.com
Plot 126 Unit 17, Gaborone International
Finance Park, Botswana

SWAZILAND

+268 2518 4010
sales@swaziwire.co.sz
Plot 224 Matsapha industrial sites, Manzini

LESOTHO

+266 22 316 577
anwaryritevalue@gmail.com
20 Motsoene Road, Old Industrial Area

NAMIBIA

+264 61 247030
stuart@steel-and-wire.com
961 Parsons Road, Southern Industrial,
Windhoek

MOZAMBIQUE

+258 82 3055559
titos@semcustos.com
Avenue Dona Alice n 61, Cidade de Maputo,
Mocambique

MALAWI

00 265 (0) 999 484 666
zameer.mw1@gmail.com
P.O.Box 5782, Limbe, Malawi, Central Africa