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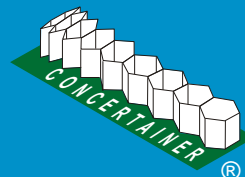
# Gabion Solutions

Modern folding gabions and mattresses for structural applications and fast, effective ground reinforcement



The Bekaert Group is a world leader in advanced metal transformation and coating technologies

in association with:



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# Gabion Solutions

Modern folding gabions and mattresses for structural applications and fast, effective ground reinforcement

Gabions and Bastions from Bekaert provide a well-established means of constructing retaining and free-standing retaining structures, ground stabilisation solutions, erosion control defences and architectural features in stone.

For over three decades Bekaert have been developing a wide range of high quality gabion products for civil engineering and architectural applications. This development programme has been carried out in conjunction with Hesco Bastion Limited who have developed and patented the unique Hesco Concertainer® range of products.

Manufactured from high strength electro-welded steel mesh, Bekaert gabions have sufficient strength and flexibility to allow some movement and change in shape in the event of ground settlement or subsidence. The units are available Bezinat® coated or with chemically bonded PVC sheathing for a long, maintenance-free life.

Bekaert Fencing provides a design service for all gabion and mattress applications with advice on the most cost-effective, environmentally acceptable solutions to a particular problem.

\*Bezinat is a combination of zinc and aluminium galvanising offering up to three times the life of conventional heavy galvanised coatings for the same coating weight.

## Hesco Concertainer® Weldmesh® Gabions

Hesco Concertainer® Weldmesh® gabions are wire mesh baskets formed by connecting individual panels of mesh with helicals on the vertical edge wires creating an open series of box compartments that fold in a concertina fashion to be flat packed. Lids and bases are supplied separately with helicals to connect to the top and bottom of the open cells along one edge. Alternatively they may be factory fitted where practical for transportation purposes.

## Hesco Concertainer® Weldmesh® Bastions

Hesco Concertainer® Weldmesh® bastions are formed similar to concertainer gabions but are factory lined internally with a non-woven geotextile membrane to the perimeter mesh panels of the unit allowing for a selected granular soil fill to be used.

Each main cell can be subdivided into one or more unlined cells at the face and/or side, normally 300mm wide to allow for a rock facing to the unit. This can be filled with quality stone to present the appearance of a conventional rock-filled gabion while using a lower grade primary fill material. This saves both time and money while retaining a typical 'dry-stone' appearance.

## Trapions™

Trapions™ are wire gabion cages engineered for dimensional rigidity and stability in structural applications. They are trapezoidal in section to permit the easy construction of flush-faced (non-stepped) tapered walls. This inclination of the walls, at around 8 degrees from the vertical, is essential for the structural stability of the gravity held system. Prior to filling, the cages are joined together using special helical coil strips, a procedure that is quick and foolproof. Trapions™ are used for architectural and similar applications where structural integrity combined with good visual appearance are required.

## Weldmesh® Mattresses

Mattresses are prefabricated and supplied flat for ease of storage, transport and handling. They are available in sizes up to 6 x 2 x 0.3m.



## Benefits of Concertainer®

- Very fast to Erect
- Long life
- Fully collapsible for transportation & storage
- Range of standard ex-stock sizes
- No specialist skills or plant required
- Suitable for temporary and permanent structures
- No special foundations required
- Can be faced with timber or natural stone
- Can be filled with local rock or granular materials



The flexibility, durability, strength and permeability properties of Hesco Concertainer® Weldmesh® gabions and mattresses make them ideal for hydraulic applications such as scour protection, river bank and bed stabilisation, coastal defences and flood protection. Gabions can be used in the construction of drainage channels, reservoirs and reed purification beds.

