



RIDGEWAY

“Architects, builders, developers and urban planners are beginning to discover the broad aesthetic qualities of Gabions beyond the products basic purpose. The relationship between steel and stone can now be a truly creative one.”



RIDGEWAY GABION WALL

Create living walls with versatile gabions

The Ridgeway Gabion wall is a revolutionary design of wire mesh baskets formed by connecting individual panels of mesh with helical spirals on the vertical edge wires creating an open series of box compartments, that fold in a concertina fashion to be flat packed.



The modular structure of these walls allows for variation in section to be accommodated as the height increases. The inherent strength of the units ensures structural and dimensional stability whilst a degree of flexibility accommodates ground movement and settlement where necessary.



Lids and bases are sometimes supplied loose with helical spiral binders to connect the top and bottom of the open cells along one edge. Alternatively they may be factory fitted where practical for transportation purposes



The Ridgeway Gabion Wall is manufactured from hard drawn mild steel wires formed into a bi-axial mesh grid and joined by electrically welding the cross wires at every intersection.



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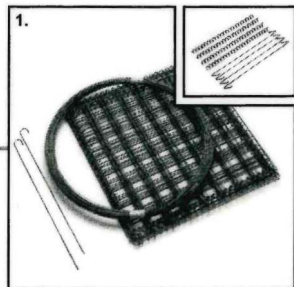
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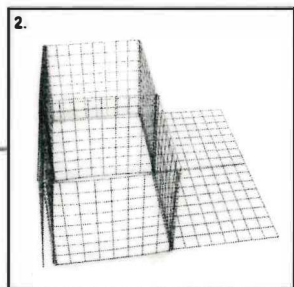


Hesco Weldmesh Concertainer Gabion & Mattress Assembly Guide

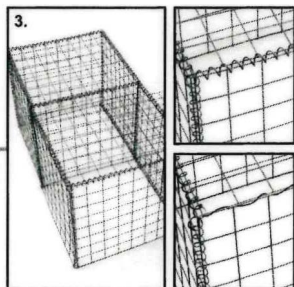
1. Concertainer gabions arrive on site partially assembled in flat pack format together with lacing wire and locking pins for permanent connections. Available to order as optional accessories are helicals for fully fixing the base and pre-formed bracing ties in lieu of cross windlass bracing ties formed from the lacing wire. These will improve upon the quality and speed of installation.



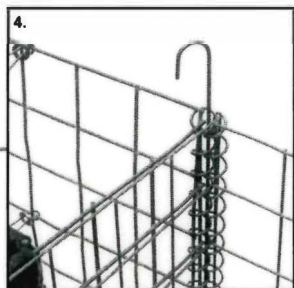
2. Pull out unit to its full extent and for units greater than 1m attach lid and base to one side respectively with helicals supplied. All site installed helicals must have the cut ends turned through 90 degrees to prevent the helical from moving.



3. Lace the base to the vertical panels by stitching with the wire supplied through every mesh space. Alternatively if the option for helical and pre-formed ties were supplied then the base can be connected with helicals to the vertical panels. After connection of the base panel, invert the unit.



4. Set units into position & join adjacent empty units by clasping the two vertical corner helicals together and insert locking pin ensuring that the hook is turned into the unit. The same procedure is to be carried out to the rear of the unit.



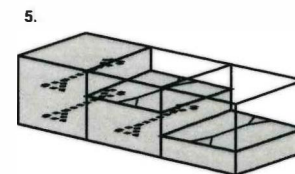
Also ensure that the factory fitted helicals that connect the lid to the vertical panels are on the exposed face.

Where gabions are tiered, they should be continually laced to the course below along all horizontal joints at the front and the rear of the wall. Gabions should be aligned so that the bottom edge wire of the upper gabion lines up with a longitudinal wire on the mesh of the lower gabion.

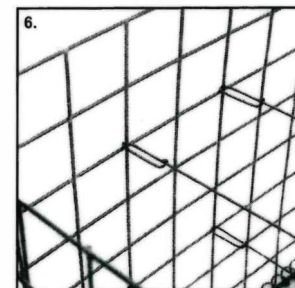
Fill the gabion to 1/3rd height ensuring no large voids are present.

For hand placed facing, the rock fill on the face should be orientated to give a dry stone wall appearance.

5. Install internal cross bracing by windlassing a loop of wire that encompasses 3 mesh openings on the face and interior/rear panels. Windlass should be tightened just enough to maintain alignment of the facing mesh.



6. Alternatively if pre-formed bracing ties were requested these should be installed at four meshes in from the corners both vertically and horizontally. The hook should encompass the cross wires diagonally at the weld to prevent movement and locked into position by clipping the return end over its own stem.



Repeat the filling operations to 2/3rds the height and install upper bracing wires (for 0.5m deep units bracing is at mid height only).

Fill to full height ensuring that when the lid is closed the mesh bears down on the rock. Lace lid to all side, end and diaphragm panels.

General Notes

Whenever possible units should be orientated such that the hinge to the lid is on the front face. Assemble a number of units together prior to placement in position. To achieve the best production rates the assembly, filling and closing of the gabion units should be treated like a production line. A typical gang size for gabion construction works is 3 men and a machine plus driver.

Whenever possible, fill units to the first level of the internal ties before proceeding with the next layer. It is normal only to install internal bracing wires on the facing and end compartments of the wall. If the inclination of the wall is greater than 10 degrees, then the rear compartments of the wall should also be braced.

Mattress units do not require internal bracing, except where the depth is greater than 300mm, then internal bracing should be installed to the peripheral compartments.

As well as your own procedures for health and safety, it is advisable when handling wire products that protective glasses and gloves are worn.

Available Sizes from Stock (LxWxH)

- ❖ 2m x 1m x 1m
- ❖ 1m x 1m x 1m
- ❖ 2m x 1.5m x 1m
- ❖ 1m x 1.5m x 1m
- ❖ 2m x 0.5m x 1m
- ❖ 2m x 1m x 0.5m
- ❖ 2m x 0.5m x 0.5m
- ❖ 1m x 0.5m x 0.5m
- ❖ 1m x 1m x 0.5m
- ❖ 1m x 0.5m x 1m

Custom sizes available upon request