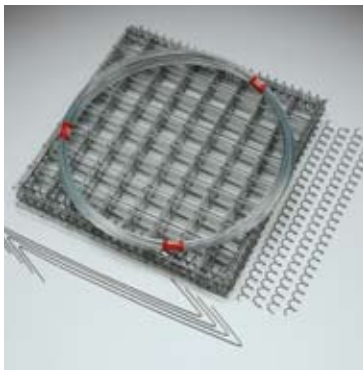




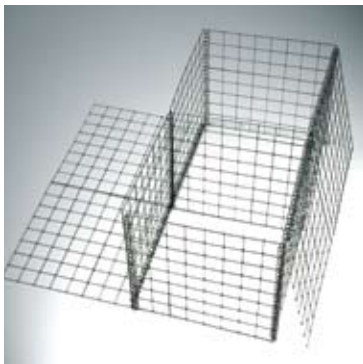
Hesco Concertainer™ Gabions Assembly Guide



Flat Pack

Hesco Concertainer Gabions are delivered to site partially assembled together with coils of lacing wire, locking pins and for units wider than 1m loose spiral joining coils for attaching the lid and base panels along one edge only.

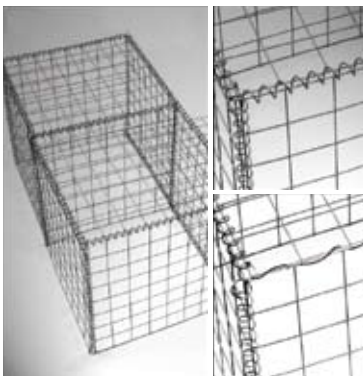
Available to order as optional extras are additional spiral joining coils for fully fixing the base panels, and pre-formed bracing ties.



Extending to Full Length

Pull out the unit to its full extent. For units greater than 1m wide the lid and base panels are not factory connected and should be joined along one edge using the spiral joining coils supplied. The coil joining the lid should be to the front of the unit.

All site installed spiral joining coils must have the cut ends turned through 90° to prevent the spiral from moving.



Lacing

Lace the base to the vertical panels by stitching with the wire supplied through every mesh space.

Alternatively if the gabions have been supplied with additional coils, the base should be connected to the vertical panels along all edges.

After fixing the base panel turn the unit over to commence filling. Note the lid panels should be connected at the front.

Benefits

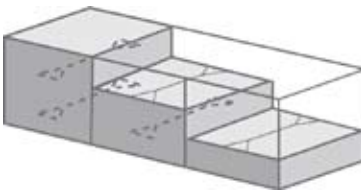
- 25% faster assembly than other gabion systems
- BBA and CE certification
- Quality assurance (EN ISO 9001: 2000)
- Inherent strength
- 100% recyclable





Joining

Set out the first course to line and level as many empty units as possible. Connect adjacent units by clasping the two vertical corner spiral joining coils together and inserting a locking pin, ensuring the hook of the pin is turned in towards the unit.



Fitting Internal Cross Bracing

- i. Before filling install the first set of internal bracing ties, by windlassing a loop of wire (fig a) that encompasses 3 mesh openings on the front face and at the rear face at $\frac{1}{3}$ of the height of the unit. If the unit is wider than 1.5m and has an additional internal panel, the unit should be braced from front face to the additional panel. Windlass should be tightened just enough to maintain alignment of the facing mesh.
 - a. Alternatively if pre formed bracing ties (fig b) have been supplied these should be installed at the intersection of the mesh wires, four apertures in horizontally from the corner and four apertures in from the corner vertically. Ties should be at all four corners.
 - b. For units less than 0.75m high, bracing may be at mid height only.
- ii. Fill with stone to the level of the bracing ties, carefully sorting by hand to minimize the void spaces, and if specified, hand placing stone to the face of the gabion.
 - a. When filling by machine ensure the stone is dropped in the mid third of the gabion and the stone is evenly distributed to the front and rear of the gabion.
 - b. If possible fill as many units as practical to the same height before moving to the next step.
 - c. Try to fill so that stone supports the transverse panels on either side. This will help in attaching the lid.
- iii. Repeat the bracing procedure at $\frac{2}{3}$ height.
- iv. Completely fill the gabion, slightly overfilling so that the lid bears down on the stone fill.



After Filling

After filling using the lacing wire provided secure all lid panels, and if there are additional courses, each course should be laced together horizontally both front and rear.

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.

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



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