

Intermesh

Procedure for installation of Intermesh Welded Gabions (Helicals & Lacing wire fabrication)

1. The gabion units are supplied partially assembled and flat packed together, along with helicals for the vertical edges and lacing wire for the lids and bases.
2. Open out the gabion unit on a flat surface in preparation for assembly.
3. Pull out unit to its full extent (the helicals will already be attached to the panels allowing you to form a cube). On units larger than 1m attach the lid and base using the helicals supplied creating a back hinge. Position the gabion units on a prepared base or formation and to the correct line and level as shown on the design drawings.
4. Lace the base to the vertical panels by stitching the wire supplies through every mesh space.
5. To join baskets together push the helicals on the adjacent corners together and then drop the joining pin through the centre to lock in place.
6. Commence filling with the crushed rock infill material and installation of internal bracing wires as follows:
 - fill the gabion cell to approximately 330mm high for a 1 metre high unit or 250 mm high for a 0.5 metre high unit.
 - the front face must then be braced back to the rear panel (using the lacing wire) at 1/3rd longitudinal widths for each cell (again typically 330mm).

The bracing wires should be tightened to maintain the panel alignment as follows:

- pass a length of wire through the two panels to form a loose rectangle of approximately 300mm (front & rear) x 1000mm and secure the ends. Working inside the gabion compartment, bring the two long sides together and cross over to form a void into which a stone is inserted. Wind the stone to tighten the wire and tension the two faces together to the desired alignment.

continued:-

7. The above filling and internal bracing procedure should then continue as follows:

For 1.0 metre high gabions;	Every 1/3 rd in height (330mm)
For 0.5 metre high gabions;	At half the height (250mm)

8. Complete filling of the gabion, ensuring at all times that the stone infill is packed tightly to minimise voids. Stone filling to the gabion face is to be carefully selected and hand placed to achieve a good overall finish, alignment and appearance.
9. Fill all units such that the mesh lid bears onto the fill. The lid shall then be laced down on all joints and across the diaphragms.