

## Full Assembly details of GabionZ

The United Steel gabion baskets (GabionZ) are supplied in a flat pack and include the panels, helical formed spirals and stiffener wires. GabionZ are made of high quality welded wire mesh panels.

### Tools needed

x2 pairs of heavy duty pliers for locking helical spirals and stiffeners in place. As well as following your own procedures for health and safety, it is essential to wear gloves and eye protection when assembling.

### Instructions

Rotate the front, side and back panels vertically and join by feeding the correct length of helical into the vertical corner with a rotating action. (see photo 02).

When the helical is fully engaged, the formed end should lock in place.

**TIP:** If it does not lock in place, bend the top end over using the pliers - this will prevent the helical from coming lose.

The side panel joints (vertical joints) are formed by attaching the adjacent panels with one helical per joint. (see photo 03 overleaf).

Set assembled units in position as required by your layout or design and join the adjacent units vertically using the helical.

Where the units are stacked on top of one another, ensure you join to the unit below.

Fill the GabionZ with the correctly graded rock. For 1m high GabionZ, firstly fill to 1/3rd full then add a set of stiffener wires, continue to fill to 2/3rd full and add a further set of stiffener wires. Ensure you lock the ends of the stiffener wires with pliers. For 0.5m high baskets, firstly fill to 1/2 full, install the internal stiffener wires diagonally across between the corners and then continue to fill the basket.

Fill the GabionZ in as a block. i.e. if you have more than one GabionZ in a row, fill all of them part way, add stiffeners to all GabionZ, instead of filling each GabionZ separately.

If large voids are visible within the GabionZ, re-orientate the rock to minimise this.

You may need to "hand pack" the face, and if so load the back of the gabion first, then add the hand picked rocks for the face of the basket to achieve the required appearance.

Continued overleaf...

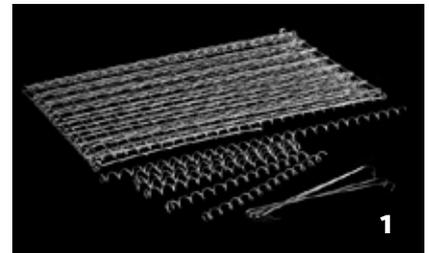


Photo 4 shows the 0.5 x 0.5 x 0.5 m GabioNZ before it is filled with rocks. Ensure the stiffener wires are installed correctly.

**TIP:** Loose or over-tightened stiffener wires can cause deformation to occur.

Timber or scaffold tubes can be temporarily secured to the external face of the basket to prevent bulging while filling. These will be removed when filling is complete.

1 metre deep gabion baskets should be filled with rock in three stages. Firstly fill to 1/3rd full then add a set of stiffener wires, continue to fill to 2/3rd full and add a further set of stiffener wires. Completely fill the basket then close the lid down and secure the joint with the correct helical.

**TIP:** Ensure the mesh lid bears down on the rock fill. Note: The amount of rock or stone required to fill a GabioNZ is typically two tonnes per cubic metre.

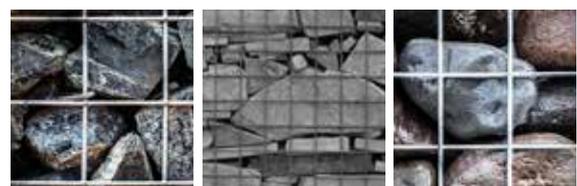
If you have a row of GabioNZ it is recommended you do not fill each completely before the other. Fill the row of GabioNZ to the same level, then insert stiffeners in each and so on. Only try to completely fill one GabioNZ at a time, if the gabion has internal stiffeners in both directions – however this may cause distortion along the row.

**GabioNZ** can be filled on site with hard durable stone materials to form mass gravity retaining structures or with decorative stones to enhance the landscape.

Standard panels have square 75 x 75mm apertures and made using 4mm wire. Larger diameter wires and different apertures can be used and are available on request.

**GabioNZ** standard sizes and reference:

- 0.5m x 0.5m x 0.5m (G75/4/A)
- 1.0m x 0.5m x 0.5m (G75/4/B)
- 1m x 1m x 0.5m (G75/4/C)
- 1m x 1m x 1m (G75/4/D)
- 2m x 1m x 0.5 (G75/4/E)
- 2m x 1m x 1m (G75/4/F)



As shown above, various decorative stones can be used to achieve the desired appearance.

For more information call us on 0800 800 649  
Or email at [sales@gabionz.co.nz](mailto:sales@gabionz.co.nz)



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