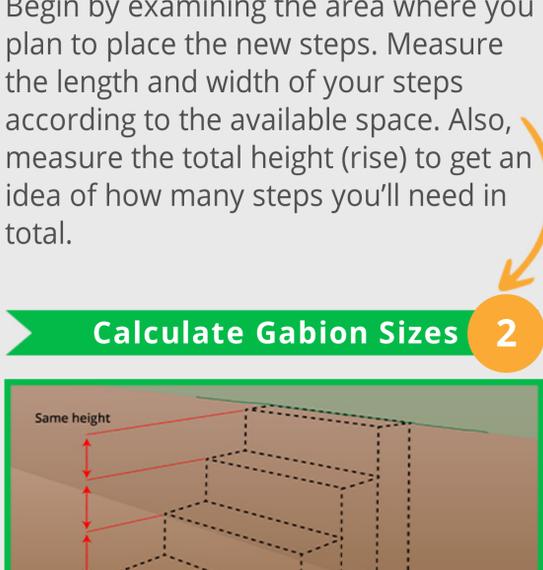


HOW TO MAKE Gabion Steps

What You'll Need:

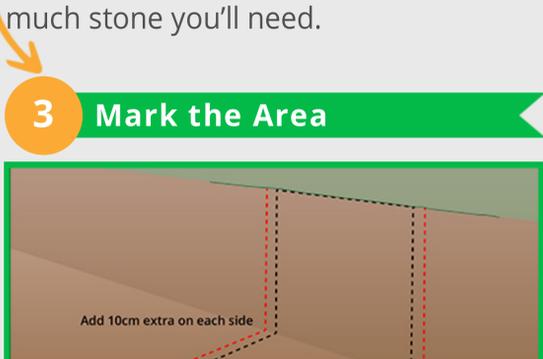
- 5mm gabion baskets
- Gabion stone
- Timber treads
- Helicals
- Tying wire or cable ties
- Type 1 gravel
- Protective gloves
- Tape measure
- Shovel
- Spirit level
- Hammer
- Wire cutters
- Screws
- Plate compactor
- Geotextile (opt.)

1 Measure Up Your Area



Begin by examining the area where you plan to place the new steps. Measure the length and width of your steps according to the available space. Also, measure the total height (rise) to get an idea of how many steps you'll need in total.

2 Calculate Gabion Sizes



Sketch a plan for your steps following these guidelines:

- each step's height (rise) should be around 15-22.5cm
- each step's depth (tread) should be around 30cm

Calculate gabion sizes and quantity needed. Remember to calculate how much stone you'll need.

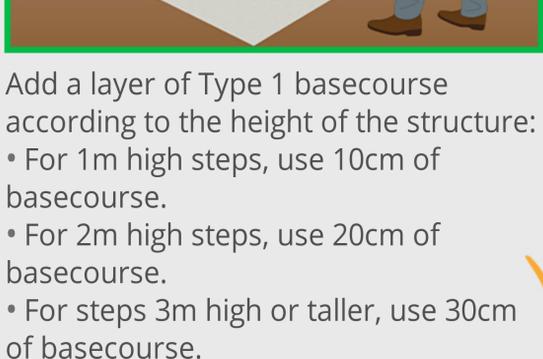
3 Mark the Area



Mark the area with spray paint or strings.

Remember to add an extra 10cm on each side for proper alignment and stability.

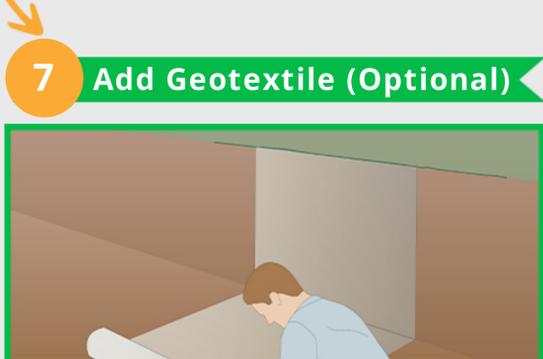
4 Create Foundation



Make sure the gabion step foundation is level for stability.

Also, incorporate a slight slope towards the front for drainage to prevent water from collecting.

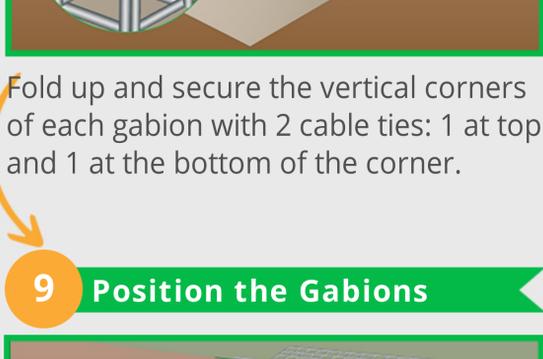
5 Add Basecourse



Add a layer of Type 1 basecourse according to the height of the structure:

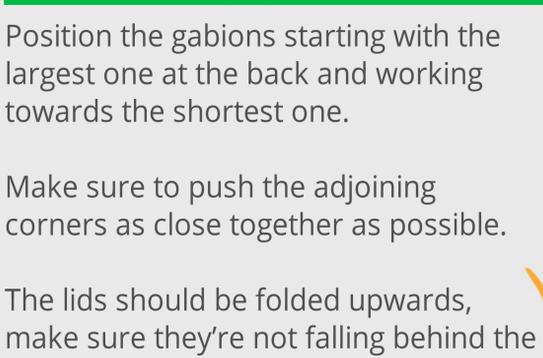
- For 1m high steps, use 10cm of basecourse.
- For 2m high steps, use 20cm of basecourse.
- For steps 3m high or taller, use 30cm of basecourse.

6 Compact Basecourse



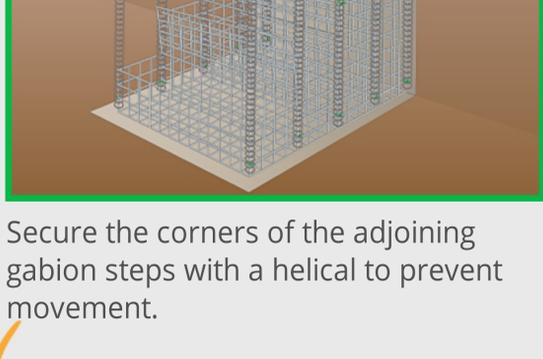
Use a plate compactor to compact the basecourse thoroughly, ensuring stability.

7 Add Geotextile (Optional)



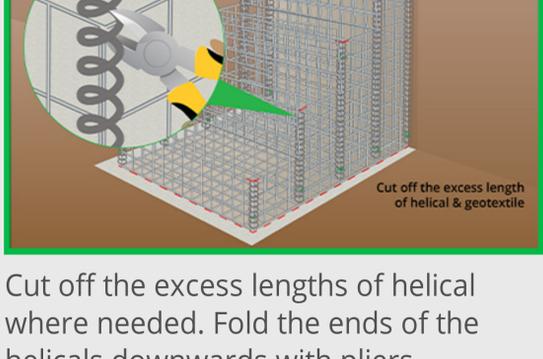
Line the bottom and sides of the structure with geotextile fabric to prevent soil erosion.

8 Fold Up Gabion Baskets



Fold up and secure the vertical corners of each gabion with 2 cable ties: 1 at top and 1 at the bottom of the corner.

9 Position the Gabions



Position the gabions starting with the largest one at the back and working towards the shortest one.

Make sure to push the adjoining corners as close together as possible.

The lids should be folded upwards, make sure they're not falling behind the baskets.

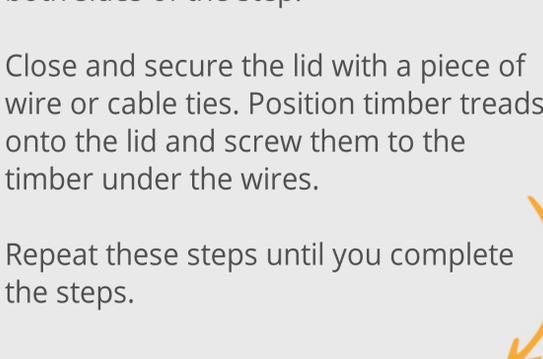
10 Attach them Together



Secure the corners of the adjoining gabion steps with a helical to prevent movement.

The helical should connect the corners of two gabions.

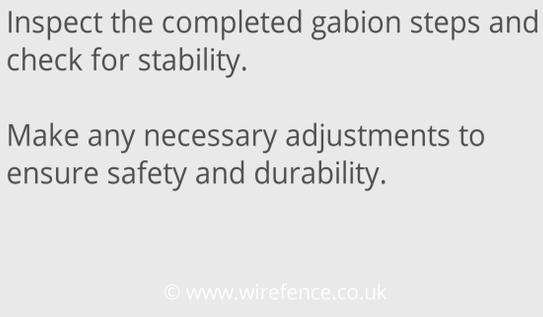
11 Trim Excess



Cut off the excess lengths of helical where needed. Fold the ends of the helicals downwards with pliers.

Additionally, cut off any excess geotextile.

12 Fill with Stones



Fill each gabion basket with the calculated amount of stones.

Leave a slight gap at the top to allow space for the timber.

13 Attach Timber Treads

Place a timber on top of the stones on both sides of the step.

Close and secure the lid with a piece of wire or cable ties. Position timber treads onto the lid and screw them to the timber under the wires.

Repeat these steps until you complete the steps.

14 Check for Stability

Inspect the completed gabion steps and check for stability.

Make any necessary adjustments to ensure safety and durability.