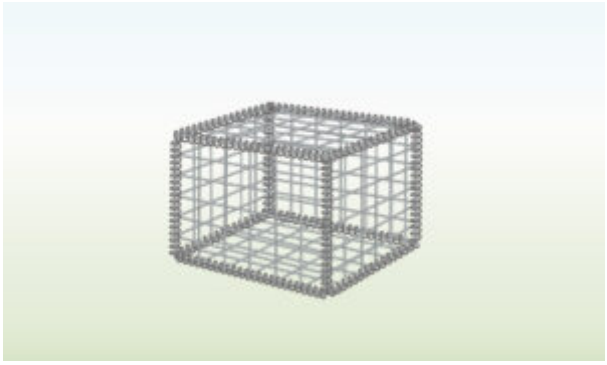
How to Make Your Own Gabion Baskets

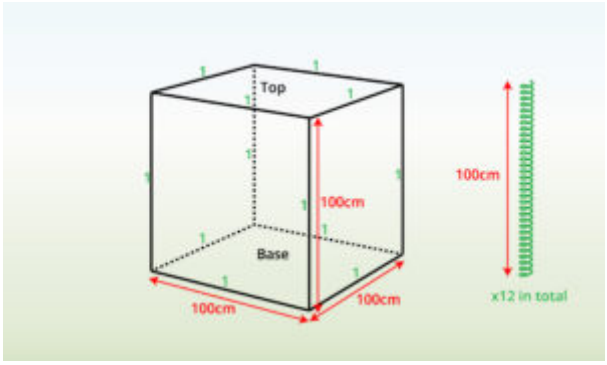
Last updated 27 October 2026

Below you will find a detailed step-by-step guide on how to make your own gabion baskets.



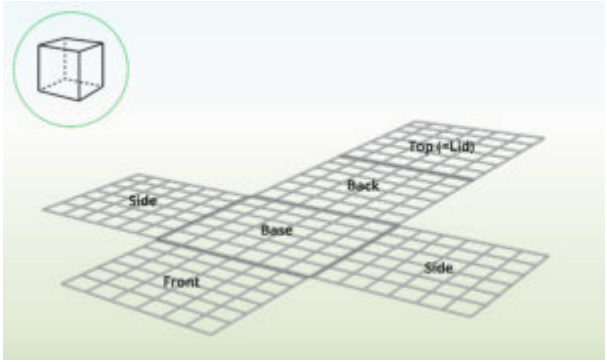
- **Experience Required:** Low
- **Tools Required:** Protective gloves, Wire cutter, Tape measure
- **Materials Required:** Gabion panels, Helicoils or Lacing wire, Corner braces (additional), Stone (additional)

Step 1) Calculate What You'll Need



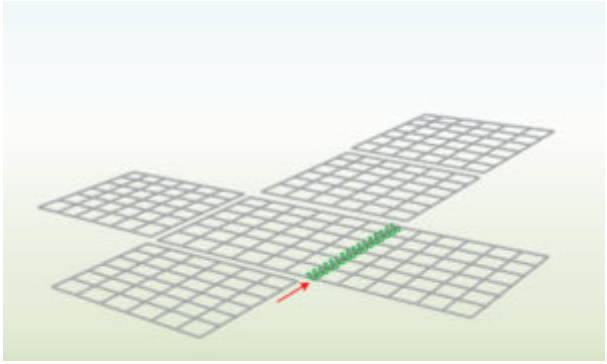
- Each gabion needs 6 panels for its 6 sides, all with equal dimensions for a cubic shape.
- Therefore, the basket will have 12 joints in total.
- Each joint is 100 cm long, so you will need 12 helicoils (also 100 cm long each), to secure all the joints.

Step 2) Prepare Your Panels



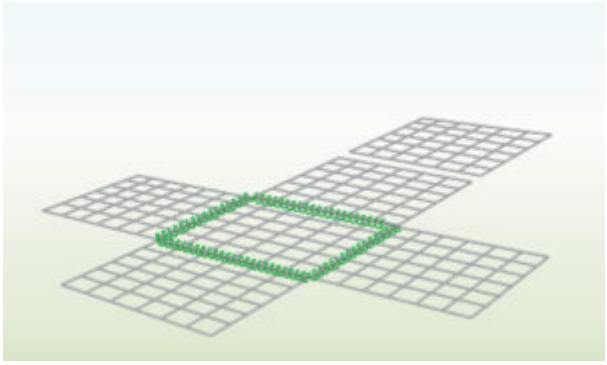
- Prepare all panels for the guide on how to make your own gabion baskets.
- For cubes, placement is irrelevant as they're uniform.
- For varied sizes, match base and lid, front and back, and ensure side panels are identical.

Step 3) Attach First Panel



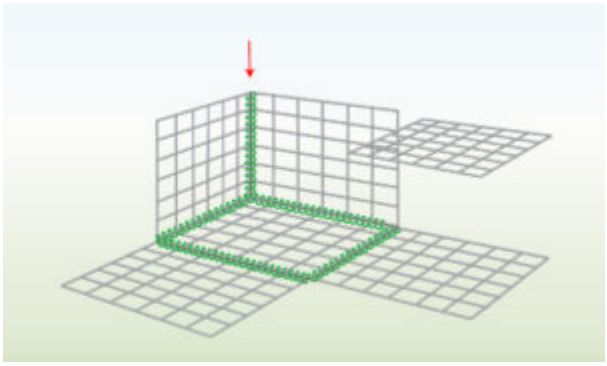
- Start with the base and one of the side panels, and attach them together using helicoils.

Step 4) Join Base to Sides



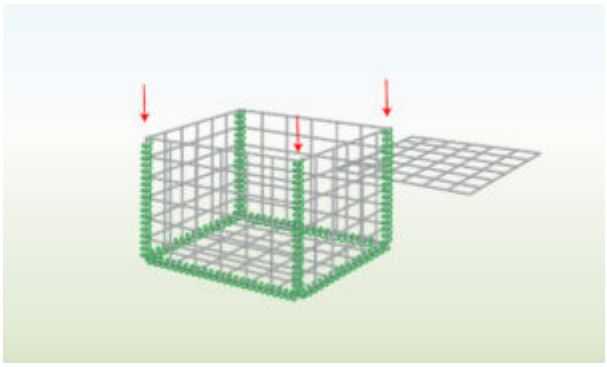
- Following the previous step, join the other side, front, and back panels to the base.

Step 5) Secure First Vertical Corner



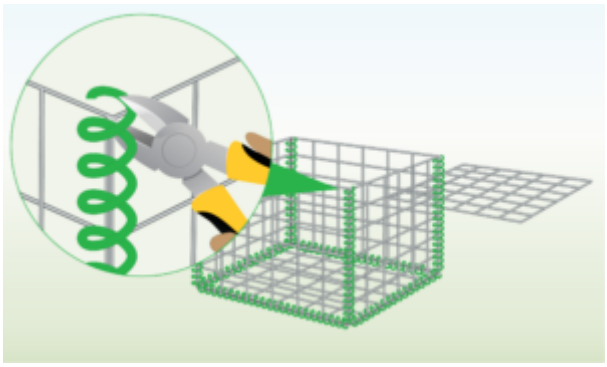
- Fold up two panels in a corner and join them with helicoils, twisting them downwards from above.

Step 6) Continue with All Vertical Corners



- Following the procedure described in the previous step, continue attaching the remaining corners using helicoils.
- Leave the lid panel out at this step.

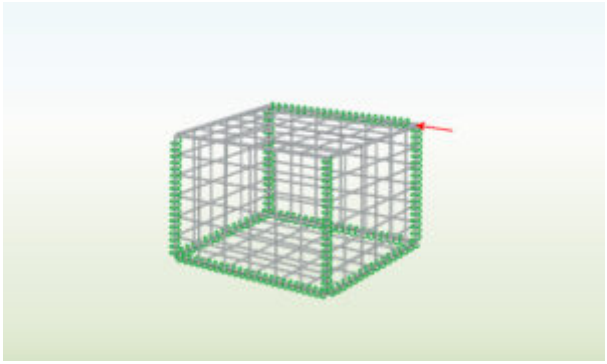
Step 7) Cut Off Excess (if applicable)



- If either helicoil is poking out of your basket so far, cut down the excess using wire cutters.

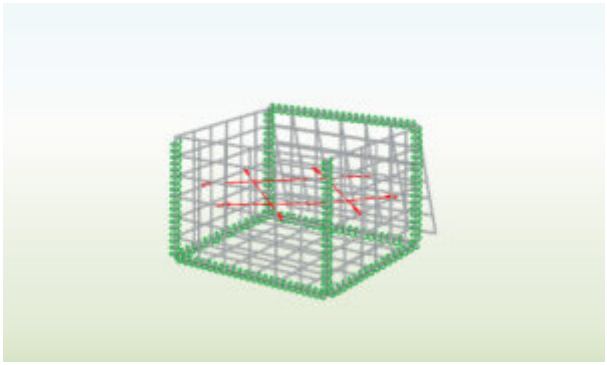
- Then, fold the ends of the helicoils downwards using pliers.

Step 8) Secure Back of Lid



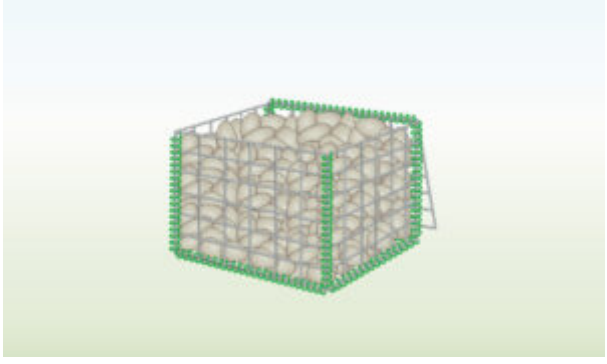
- Place the lid panel on the top of the gabion, and secure one side with a helicoil.

Step 9) Additional: Use Corner Braces



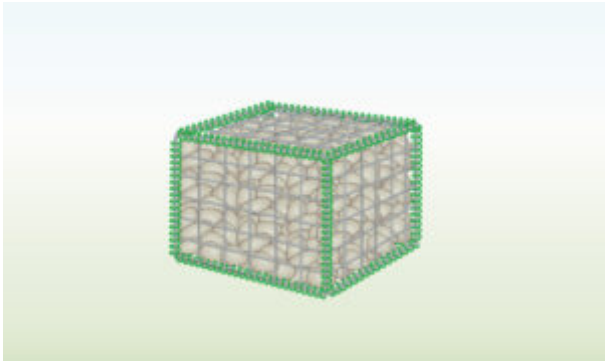
- To prevent bulging, especially with thinner panels, consider using corner braces.
- Hook the corner braces onto the 4th wire from each corner (symmetrically on both sides) and at every 3rd hole vertically.

Step 10) Fill with Stones



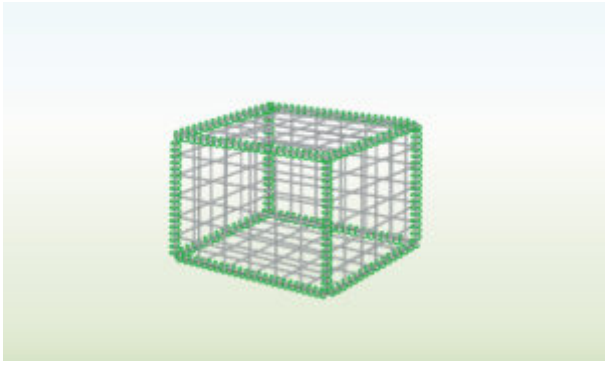
- Begin filling your diy gabion cage with stones.
- Remember, the lid should only be attached at the back side while doing this step.

Step 11) Secure Lid after Filling



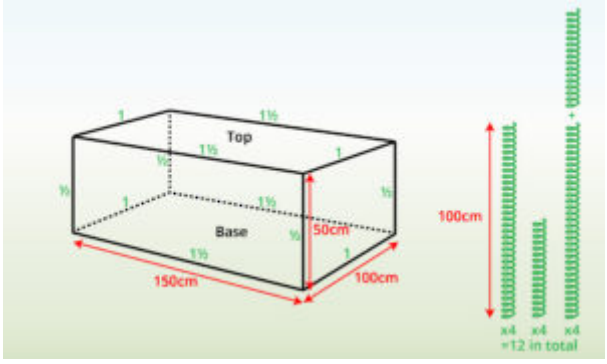
- After you have finished filling the cage, secure all sides with helicoils, and use pliers to fold the ends of the helicoils inwards.

Step 12) Alternative: Empty Gabion



- If you want an empty basket, finish securing the lid on the other three sides as well.

How to Calculate for Different Sizes



- You need 6 panels of 3 sizes (opposing sides same).
- Helicoils are 100 cm long. Cut shorter lengths in half with wire cutters. For 150 cm, combine 1 helicoil with a 50 cm length.
- Calculate joint lengths, divide by 100 cm to find the helicoil quantity needed.

TIPS

- When planning how to build a gabion, if you're making a cube, all panels will be the same size. But with varying sizes, ensure that opposing sides have the same dimensions.
- Unless you have spare wire panels available to use, it is almost the same price to purchase a gabion basket from our shop.
- Determine the amount of stone you need using our stone calculator page and/or visit our gabion stone category

TRICKS

- Choose 3-5mm panels; thinner ones may bulge, but use corner braces for added security to prevent bulging.
- Each helicoil is 100 cm. Cut shorter lengths with wire cutters. For longer lengths, join 1 or 2 whole helicoils or combine a whole one with a bespoke length.
- If you don't have helicoils, you can connect the panels using lacing wire or by creating helicoils from wires.

FURTHER READING

- How to Lace Gabion Baskets – Step by step instructions on how to lace baskets.
- How to Fill Gabions – Learn how to fill cages using different methods.
- How to Use Gabion Corner Braces – Step by step video showing how to use corner braces.