DIY GABION
Fireplace

What You'll Need:

- 4mm or 5mm Gabion Basket
- Gabion stone
- Helicals
- Tying wire
- Pegs
- Chimney
- Rain cover
- Road Rail
- Corner ties (optional)
- Concrete
- Protective gloves
- String
- Pegs
- Shovel
- Spirit level
- Tape measure
- Pliers
- Wire cutters
- Bolt cutter

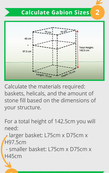
1 Measure Area & Plan

Begin by measuring your space.

Draw a sketch of your DIY gabion fireplace, including dimensions based on your needs, and ensure the oven size fits within the basket structure.

Make sure the total height should not be more than double the size of the base.

2 Calculate Gabion Sizes



Calculate the materials required: baskets, helicals, and the amount of stone fill based on the dimensions of your structure.

For a total height of 142.5cm you will need:

- larger basket: L75cm x D75cm x H97.5cm
- smaller basket: L75cm x D75cm x H45cm

3 Mark the Location

Mark the baseline using a string and pegs, leaving an extra 10 cm on each side to ensure better alignment and stability.

4 Prep the Foundation

Use a shovel to dig a solid base, leveling the ground and filling any gaps.

It's crucial to have an even foundation to maintain the stability of the basket structure.

5 Add Concrete Base

Pour a 10-15 cm thick concrete slab, level it, and allow it to cure before continuing.

Alternatively, you can use pavers or bricks as a base.

6 Assemble Gabions

Fold and secure the vertical corners of each basket with helicals.

For now, leave the lid panel of the large basket unsecured.

Remove and set aside the lid panel of the small cage.

7 Cut off Any Excess Wire

Use wire cutters to cut any excess length of helicals or wire where necessary.

Use pliers to pinch each end, securing it to prevent slippage.

Make sure all edges are smooth to eliminate any sharp, exposed ends.

8 Position Large Basket

Place the larger basket in position on the concrete base.

9 Fill with Stone

Fill the basket with the calculated quantity of stones.

10 Secure the Lid

Close the lids with tying wire at both the front and back.

Ensure they rest securely on the stones without leaving any gaps.

11 Position Small Gabion

Position the smaller basket on top of the initial layer of the stone-filled gabion basket.

12 Attach Baskets Together

Connect the two cages together by securing the top and bottom with tying wire to prevent any movement.

13 Cut Front Panel for Oven

Measure the dimensions of the oven and mark the front panel of your gabion accordingly.

Use a bolt cutter to cut a hole in the panel that matches the size of the oven, ensuring a precise fit for a snug installation.

14 Position the Oven

Place the pre-made oven in its final position.

Verify that it is level and securely positioned before proceeding.

15 Secure the Chimney

Attach the chimney to the oven according to the manufacturer's instructions, ensuring it is properly aligned and securely fastened.

Then, secure a rain cover to the chimney to prevent water ingress.

16 Fill with Stone

Carefully fill the gabion with stones around the oven.

Be sure to minimize large gaps or voids as you work.

17 Cut a Hole in Top Panel

Measure the chimney and its rain cover, then mark these measurements on the removed top panel.

Use bolt cutters to cut a hole in the top panel that is large enough to accommodate the chimney and rain cover.

18 Secure the Top Panel

Position the top panel in place and secure it on each side with tying wire.

Trim any excess wire as described in step 7.

19 Check & Enjoy

Check the structure for stability and make sure everything is securely fastened.

Look for any sharp edges and ensure there are no flammable materials nearby.

Insert the barbecue roast and enjoy the warmth and delicious meals from your DIY gabion fireplace BBQ.