

THE ESSENCE OF A GREAT NEW ZEALAND LIFESTYLE



## ASSEMBLY TIPS

- It is a good idea to “dry fit” the various sections on a flat/level surface before applying mortar or glue. Sometimes they need a few adjustments with your grinder to get a snug and tidy fit. A few gaps are OK – inner shell gaps can be filled with fire mortar and outer shell gaps with glue or mortar.
- The fire mortar starts to go off reasonably quickly (10–15 minutes). Mix only the quantity you need. 150–160mL of water per Kg is a good ratio.

## BENCHTOP

- Ensure that the proposed site of installation complies with relevant local council requirements. (Most councils in NZ do not require a consent but may have bylaws around location on site, non flammable surrounds etc)
- The minimum dimension is a steel reinforced concrete benchtop 120cm wide (looking at the front of the pizza oven) x 130cm deep x 8cm thick. A 10cm thick benchtop gives superior thermal performance.
- When designing your benchtop, consider how your oven will be used. Do you need space to assemble pizzas and/or lay down plates & tools?



## INCLUDED IN THIS KITSET

- 1 x refractory grade Mantle
- 1 x LHS & 1 x RHS refractory grade Hearth
- 1 x LHS & 1 x RHS refractory grade Inner Shell
- 1 x refractory grade Arch
- 4 x masonry Outer Shell
- 1 x masonry Chimney
- 9 x calcium silicate Heat Resistant Tiles
- 3.2m Fire Blanket
- 1 x 30Kg Bag of Fire Mortar
- 1 x 30Kg Bag of Mortar Mix
- 1 x stainless steel Oven Door
- 1 x stainless steel Pizza Paddle & 1 x steel Ash Rake
- 2 x Gorilla Grip 2 hour construction adhesive



## TOOLS YOU WILL REQUIRE

- A wheelbarrow or trolley is useful for moving pieces around site
- Hacksaw or Stanley Knife
- Grinder with masonry or diamond disc
- Mixing paddle & electric drill to mix mortar
- Trowel for applying mortar
- Stanley knife and cartridge gun for applying the Gorilla Grip
- Tape Measure and Level
- Rubber mallet

## PLASTERING & PAINTING

- Once construction is completed, the pizza oven should be plastered. You can use any exterior plaster system as the plaster is not exposed to heat.
- We recommend the use of masonry mesh on all external joint lines.
- The plaster should be sealed using a “lime lock” undercoat and then painted in the colour of your choice.

## SAFETY WARNINGS

- The two refractory inner shell pieces (approx. 75Kg each) are heavy. Minimum two person lift & use correct lifting technique. A wheelbarrow or trolley is useful for moving the larger/heavier pieces around site.
- When handling or cutting the heat resistant tiles and fire blanket always wear gloves, eye protection and a dust mask. The calcium silicate dust is not toxic, however it will irritate your skin, eyes and lungs. Wash your hands and arms well with soapy water after exposure.
- Always wear gloves, eye protection and a dust mask when using a grinder.
- When applying Gorilla Grip, we suggest you wear disposable gloves as the adhesive is difficult to remove from your skin.

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Enjoy!





# AZTEC FIRES<sup>TM</sup>

# PIZZA OVEN ASSEMBLY INSTRUCTIONS

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### ASSEMBLY INSTRUCTIONS

1. Layout the 9 calcium silicate Heat Resistant Tiles on a flat surface and place the 2 refractory grade Hearth pieces on top. Mark the outline and cut to shape using a Hacksaw or Stanley knife. (it helps to number the sections to make it easier to reposition them later)
2. Position the mantle at the edge of the benchtop. It will overhang by 18cm if you are using the minimum 130cm size. Glue in place with Gorilla Grip ensuring the back edge is parallel with the front edge of the benchtop.
3. Use the 2 Hearth pieces to mark the outline on your benchtop.



4. In order to raise the Hearth so that it is level with the Mantle, mix up about  $\frac{3}{4}$  of the bag of Mortar Mix and then use the Mortar Mix to create a 3 layer sandwich with the Heat Resistant Tiles and Hearth pieces. Add or subtract Mortar Mix to achieve the right level.  
(Note: that these two photos have the mantle removed for visibility)



5. Mix a small amount of Fire Mortar and mortar the inner edges of the Hearth together. Tap gently with a rubber mallet to ensure a good bond and smooth off excess mortar. Also use the fire mortar to fill any gaps between the Hearth and the Mantle.
6. Place the two refractory grade Inner Shell pieces on the Hearth ensuring all connecting edges have been pre-mortared with Fire Mortar. Tap gently together and smooth off excess mortar.
7. Check that the entire inside of the Inner Shell is joined/sealed with Fire Mortar – there should be no air gaps except the door!

8. Position the Arch on the Mantle against the Inner Shell. Use your oven door as a guide (you want about a matchstick of clearance) to adjust the height of the Arch. You may need to grind a little off the bottom or wedge the Arch up a little – a couple of off cuts from the Heat Resistant Tiles are ideal for this.

9. Use Fire Mortar to join the refractory grade Arch to the Mantle and Inner Shell making sure it is level and the door fits correctly.



10. Cut the Fire Blanket and lay over the Inner Shell. You want a single continuous layer, without overlaps. Avoid joins at the top, you don't want the fire blanket to fall off the dome.
11. Dry fit the 4 masonry Outer Shell pieces. You may need to make some minor adjustments with your grinder to get a snug fit. Don't worry if it is not perfect, gaps can be filled with Gorilla Grip or any remaining Mortar Mix.
12. Starting at the front, glue the 4 masonry Outer Shell pieces in place with Gorilla Grip then glue the Masonry Chimney in place.
13. Use Fire Mortar to fill the gap between the Arch and Outer Shell.

### IMPORTANT

To "season" the oven, start with a small fire inside the middle of the oven and slowly build up heat over 8 hours. This will extract any excess moisture. Failure to follow this procedure may result in cracking.

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