BRICK TANDOOR OVEN

JAMIE & JIMMY'S FRIDAY NIGHT FEAST SERIES 6

Overview

This is a great way to build a tandoor at home, using easy to buy materials. A tandoor is a traditional oven found across Asia, which uses charcoal to cook. It allows you to cook bread on the side of it's clay walls and use metal skewers to lower in meat and veg.

What you will need

- 110x standard size house Bricks
- 20x Fire Bricks
- 1x 100 litre bag of Vermiculite
- 1x 600mm unglazed clay Chimney Pot
- 1x Bag of Gravel
- (optional) - Paving stone
- (optional) - Building Sand
- (optional) -Cement

- (optional) -Feb (Mortar additive)

Tools & Safety equipment

- Hammer
- Chisel
- Hand Saw
- Dust Mask
- Gloves
- Sturdy footwear
- (Optional) - Brick trowel
- (Optional) -Spirit level
- (Optional) - Jointing bar
- (Optional) -Tape measure
- (optional) - Bucket of Water

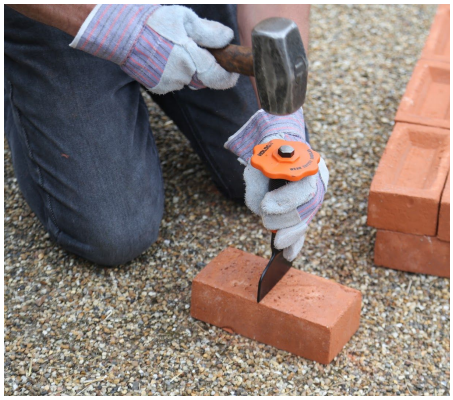
How to build the brick tandoor

I. Fire Brick Base & Chamber

- Find a level, hardstanding base (ideally concrete) at least 1m x 1m. You could build a base using a paving stone. Once built the Tandoor may be difficult to move so should be built where you intend to use it, this should be a safe distance away from anything flammable.
- Lay a base of 6 fire bricks, in a rectangle on top of your hardstanding base. Then 3 more on top aligned on the front edge with a further block at the back.
- Using 2 fire bricks on their side, build a C shape.
- Using a hand saw, cut 3 fire bricks in half to create a front air vent (ensure you wear a dust mask and eye protection).
- This structure provides our FIRE CHAMBER, where the charcoal will sit. It can be stoked and lit from the front air vent.
- Build a surround of 3 house bricks around the fire chamber, to provide the base of the outer wall of the brick tandoor oven. In the film, we laid our bricks dry so we could move our tandoor.
- (OPTIONAL) You can cement the bricks into position. To do this, you will need to know how to

lay bricks and ensure that the cement/mortar is level for each course of the bricks you lay (ensure you wear a dust mask and eye protection).

II. Front Air Vent



- Build the next layer of outer bricks, leave ½ brick width gap in line with the gap in the fire bricks.
- You can cut ½ brick with the hammer and chisel (ensure you wear gloves, dust mask and eye protection as bricks can chip and send parts flying).

III. Fire Chamber Collars & Chimney pot positioning

- To hold a heavy large chimney pot - which will become the tandoor oven, the fire chamber needs a roof that will be sturdy and hold the chimney in place over the fire bricks.
- Using a saw (and wearing eye protection and a dust mask), cut a diagonal square (15cms by 15cms) out of the 2 fire bricks.
- Once these are in place, use the remaining off-cuts of fire bricks to hold the fire chamber collars (or roof) in position.
- Carefully move the 60cm chimney into position.

IV. House Brick outer layer

- Build up the remaining outer wall until just below the level of the top of the chimney pot. This uses lots of house bricks, ensure you have enough.
- Use a level and a square to keep all sides of the tandoor as level and square as possible, you don't want a wonky looking tandoor!

V. Insulation

- Fill the space between the wall and pot with Vermiculite, until just below the level of the wall.
- We put a bit of wood over our chimney, to ensure that no vermiculite fell into the fire chamber.
- Finally to ensure that the vermiculite doesn't blow away, place some large gravel on top of the vermiculite until it is level with the brick tandoor oven.

VI. Tandoor Firing

- The clay chimney won't be ready to use straight away, and to ensure that your tandoor oven lasts for a while, it is essential to slowly 'fire' the chimney pot to be used successfully as a tandoor oven.
- First, place a very small amount of charcoal and a fire lighter in the tandoor - use the vent as your access to the fire chamber.
- Let this charcoal burn slowly over a couple of hours. You will need to do this process several times before you tandoor will be ready to cook food.
- If the clay chimney gets wet, and is then heated - it can crack.
- Firing your chimney into a tandoor oven can take time, so be patient.

Specific Safety Notes

- We recommend that you use a waterproof lid for your brick tandoor oven. This can be a made however you see fit, or you could use weighted down tarpaulin. The clay and the vermiculite should not get wet.
- If you don't fire your tandoor - and allow the chimney pot to be used at high temperatures it may crack. If it does crack it will be unsafe to cook food on.
- The dry brick lay of the tandoor is not a permanent solution, so could fall if anything bumps or pushes into it.

End User Notice

Your tandoori oven is strictly for outdoor use only. Only use tools in accordance with manufacturer's instructions. Ensure all necessary safety equipment is worn at all times. A dust mask must be worn when cutting brick and working with concrete as the dust can irritate the chest. They also contain silica, which can cause permanent damage to the lungs. Store your oven in a dry place, do not light your oven if the clay chimney is damp as it may crack! The instructions in this document are intended as a guide only, any building you do is at your own risk. You should regularly assess the safety of the Build during construction and afterwards.

General Safety Guidelines

Flames

When lighting fires, using naked flames or tools that can generate sparks, please ensure that there is adequate space in the surrounding area and that there are no dry or flammable surfaces nearby. Having water on hand, a sand bucket or a powder fire extinguisher is a good safety precaution. Never leave a fire unattended at any time and always ensure the fire is supervised for at least 60 minutes after it has been put out to ensure the area remains safe..

Food Prep

Please clean all surfaces thoroughly before serving food and ensure raw food preparation areas are not also used for cooked food serving and presenting.

Tools

When using tools, please ensure that you have read the instructions carefully and that you have the correct Personal Protective Equipment to operate them safely. If you are not experienced at using them seek help or advice from those more experienced on how to use them safely.

Heat

Please be mindful that inside the tandoor oven it gets incredibly hot when heated so please be careful around the structure. Make sure others are kept at a safe distance and that you use the correct Personal Protective Equipment (PPE) including protective clothing when handling or working near these builds. Getting food to and from the tandoor requires heat protective gloves and metal skewers will be very hot, the same as if you were cooking a BBQ.

Once you have finished using the build, remain a safe distance from the build ensuring that it has cooled fully before you touch it.

Children

Make sure that children and others are kept at a safe distance throughout the making of the build and whilst you are using it. Ensure that the build is given enough time to cool fully before you leave it unattended.

Personal Protection Equipment (PPE) Safety Guidelines

TOOL	ADVICE
For any tasks that will generate dust / particles a dust mask is advised	
ANGLE GRINDER	• Hearing Protection • Safety goggles • Dust mask • NO GLOVES (spinning equipment) • Long sleeve cotton clothing • Safety boots
JIGSAW	• Safety goggles • Dust mask • NO GLOVES (spinning equipment) • Safety boots
MITRE or CHOP SAW	• Safety goggles • Dust mask • NO GLOVES (spinning equipment) • HEARING PROTECTION

	• Safety Boots
MIG WELDER	• Welding clothing • UV welding mask • UV eye protection for observers • Welding gloves
IMPACT DRIVER (DRILL)	• Safety goggles • NO GLOVES (spinning equipment)
HAND SAW	• Safety boots • Safety Gloves to be worn for all non rotating saws
FILING	• Gloves (especially for metal work)
HACK SAW	• Safety boots • Safety Gloves to be worn for all non rotating saws
BENCH DRILL	• Safety goggles / Bench drill guard • Safety boots
WIRE CLIPPERS/CUTTERS	• Safety goggles
LIGHTING FIRES	• Fire safety gloves (for putting coals onto a lit fire) • Bucket of water • Suitable Fire extinguisher • Fire poking tools (metal)
CHISEL/HAMMER	• Safety Goggles • Safety Gloves
TAPER DRILL BIT	• Safety goggles • SAFETY rigger GLOVE for securing metal bowl.