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TUNNEL OVEN – BUILDING INSTRUCTIONS.

A: BASE WORK

1. LAY BOARD ON TOP OF YOUR BASE. CUT TO FIT.
2. LAY BASE TILES ON TOP OF BOARD. INSTALL WITH DRY MORTAR IF DESIRED.
HOWEVER, THIS IS NOT ESSENTIAL.
3. PLACE TEMPLATE ONTO BASE TILES IN POSITION REQUIRED.

B: OVEN CONSTRUCTION:

NB: ALL BRICKWORK MUST BE LAYED WITH STAGGERED JOINTS – TIED TOGETHER

1. LAY STRAIGHT BRICKS (230X115X75) X 3 COURSES BEGINNING WITH FRONT DOORWAY. (LAYING BOTH SIDES AND BACK WALL FOR THESE 3 COURSES)
2. LAY ARCH BRICKS FOR FRONT ARCH UNTIL 80% COMPLETED. (LEAVE LAST 4 BRICKS OUT FOR FLUE).
3. LAY 1ST RING OF THE ARCH BRICKS **WITHOUT THE MORTAR** ON THE MAIN CHAMBER TEMPLATE. START WITH A 75/51 ARCH ON EACH SIDE, THEN A 75/63 ARCH ON EACH SIDE. CONTINUE THIS PATTERN MAKING SURE THAT YOU LAY 1 X BRICK ON EACH SIDE OF THE TEMPLATE AS YOU GO, UNTIL YOU REACH THE TOP OF THE OVEN CHAMBER.

NB: LAYING WITHOUT THE MORTAR WILL ESTABLISH SIZE OF MORTAR JOINTS REQUIRED.

4. ONCE YOU HAVE ESTABLISHED MORTAR JOINTS, BEGIN LAYING THE BRICKS USING MORTAR.(LAY SIDE WALLS ONLY – BACK WALL TO BE COMPLETED ONCE ARCH IS FINISHED)
1ST COURSE TO BE LAID WITH 75/51 ARCH BRICK. 2ND COURSE TO BE LAID WITH 75/63 ARCH BRICKS. CONTINUE COURSES AS ABOVE (IE: 3RD WITH 75/51, 4TH WITH 75/63) REMEMBERING TO STAGGER JOINTS (SAME AS HOUSE BRICKS ARE LAID). LAY REMAINDER OF BACK WALL.
5. CUT TOP ARCH BRICKS IN FRONT DOORWAY FOR FLUE.

C: STAGE 1 INSULATION /PREMILINARY DRYING:

1. COVER WITH SHIRALITE INSULATING CEMENT MIX.
2. COVER WITH BLANKET (HOLD IN PLACE WITH CHICKEN WIRE)

BUILD A SMALL FIRE WITH SMALL PIECES OF WOOD OR BARBEQUE HEAT BEADS INSIDE THE OVEN AND ALLOW TO BURN SLOWLY FOR AT LEAST 12 HOURS.

D: FINAL RENDER COAT.

1. FINALLY RENDER WITH WHATEVER PRODUCT YOU LIKE. USUALLY A NORMAL SAND/CEMENT MIX. THICKNESS AT LEAST 50MM.

E: FINAL FIRING PRIOR TO USE.

ENSURE THAT YOU FIRE THE OVEN FOR 8-10 HOURS PRIOR TO USE TO ENSURE ALL MOISTURE IS DRIVEN FROM OVEN.

THE OVEN WILL BECOME MORE THERMALLY EFFICIENT WITH REGULAR USE.

BRICKS CAN BE CUT WITH EITHER A BRICK SAW OR AN ANGLE GRINDER USING EITHER A MASONRY OR STONE CUTTING BLADE.