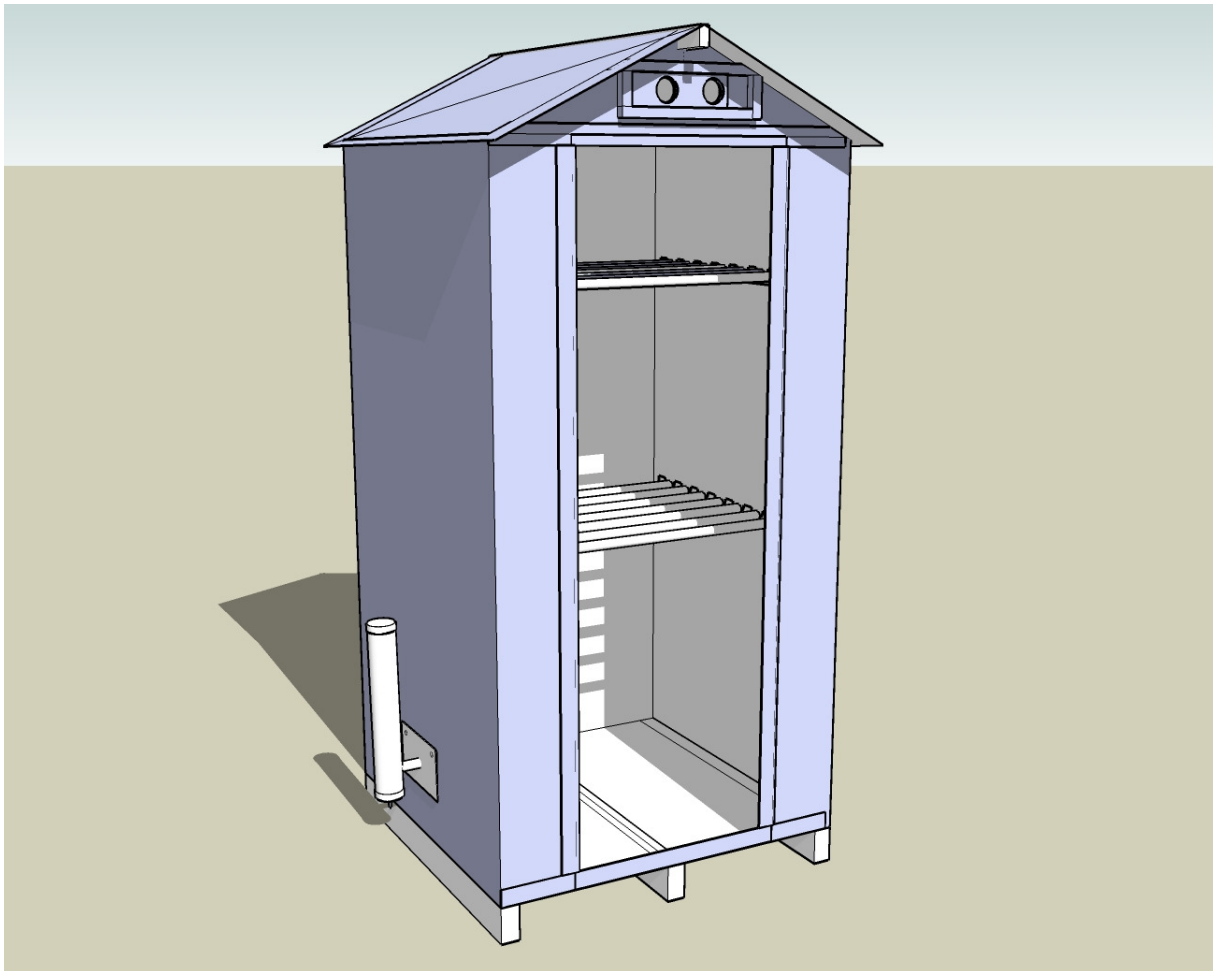




Building the Smokai Smoke House



Plans and Step by Step instructions

Things You Will Need.

Materials

- 4 x Sheets of 2400x1200mm @ 17mm to 20mm thick ***untreated Plywood.***
- 6000mm of 100 x 50mm pine or hardwood ***untreated***
- 2000mm of 25 x 50mm pine or hardwood ***untreated***
- 6 of 100 x 100mm gang nail plates.
- Roofing Iron to cover 2 x 1200mm W x 600mm L.
- 1200mm roof ridge capping.
- 2 x galvanized gate hinges.
- 1x Door bolt.
- 65mm 10g stainless or galvanized screws x 80.
- 25mm 8g stainless or galvanized screws x 100.
- 28 of 1000 x 25mm wooden dowels or 25mm aluminum tube.
- 50 x 65mm roofing screws.
- 3 of 100 x 50mm 1000m long H3 treated rough sawn pine.
- 4 of 40 x 40mm 1900mm long stainless or aluminum equal angle.

Tools

- Skill saw or Bench saw
- Mitre saw
- Hand Drill for holes and screws.
- Sheet metal cutters for roofing iron.
- Tape measure.
- 60mm hole saw
- 3mm drill bit

Step 1

Using the plywood templates (attached at the back) mark up and cut out all the plywood sheets.

Step 2

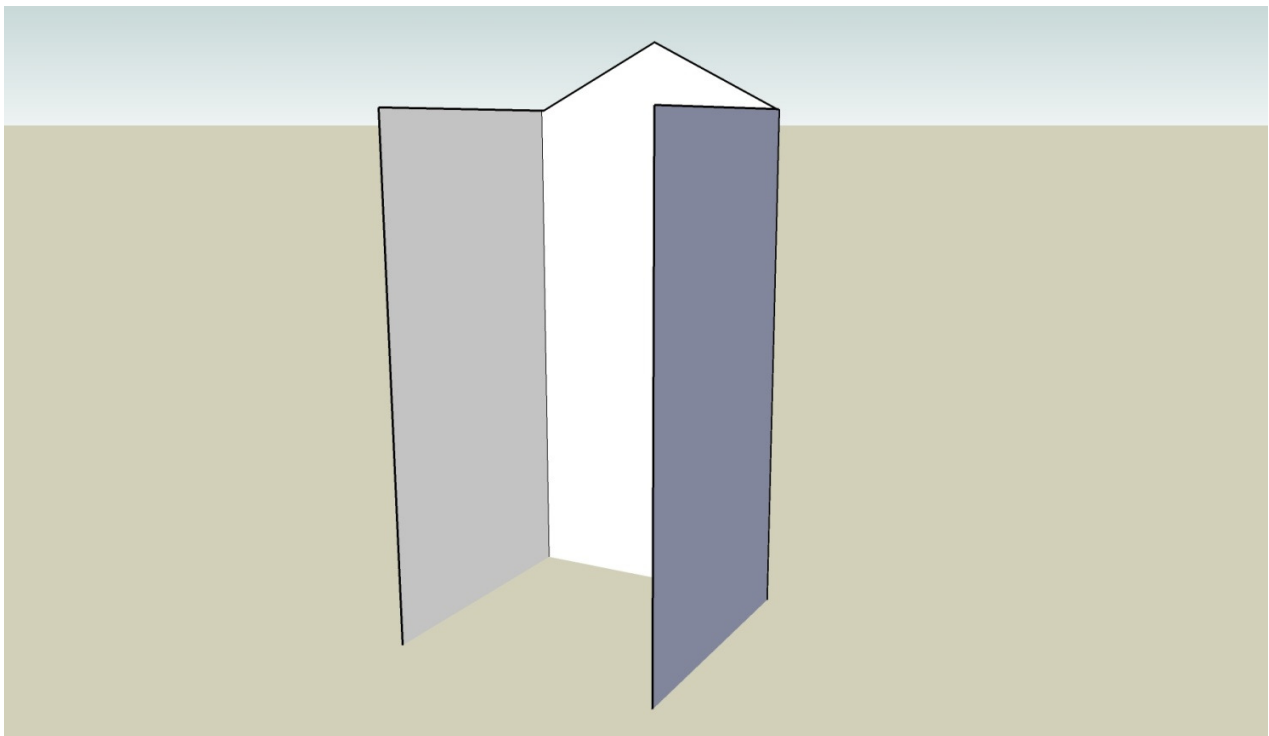
Stand the rear wall and one of the side pieces up (you might need help for the start).

Drill holes through the rear wall edge 8mm in at 200mm spacing with the 3mm drill bit, down the full length of both sides.

Butt up one of the side walls to the rear wall and screw it into place with the 65mm screws.

Step 3

Stand the other side wall up and screw it into place as per the step 2

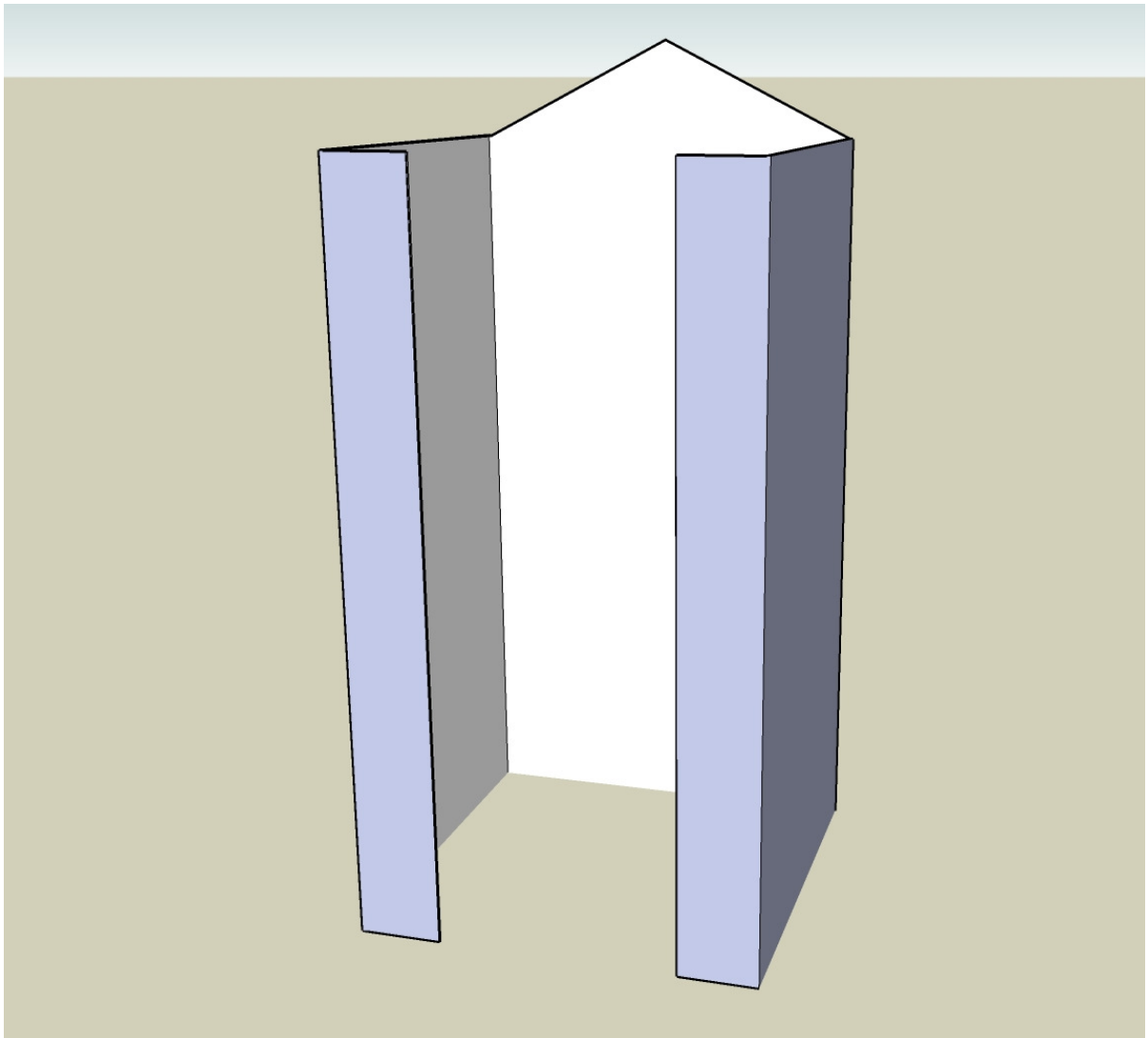


Step4

Take the two front door pillars. Drill holes through the wall edge 8mm in at 200mm spacing with the 3mm drill bit, down the full length of one side and do the same with the other piece.

Step 5

Fasten the door pillars in place with 65mm screws; try to keep them at 90Deg to the walls.



Step 6

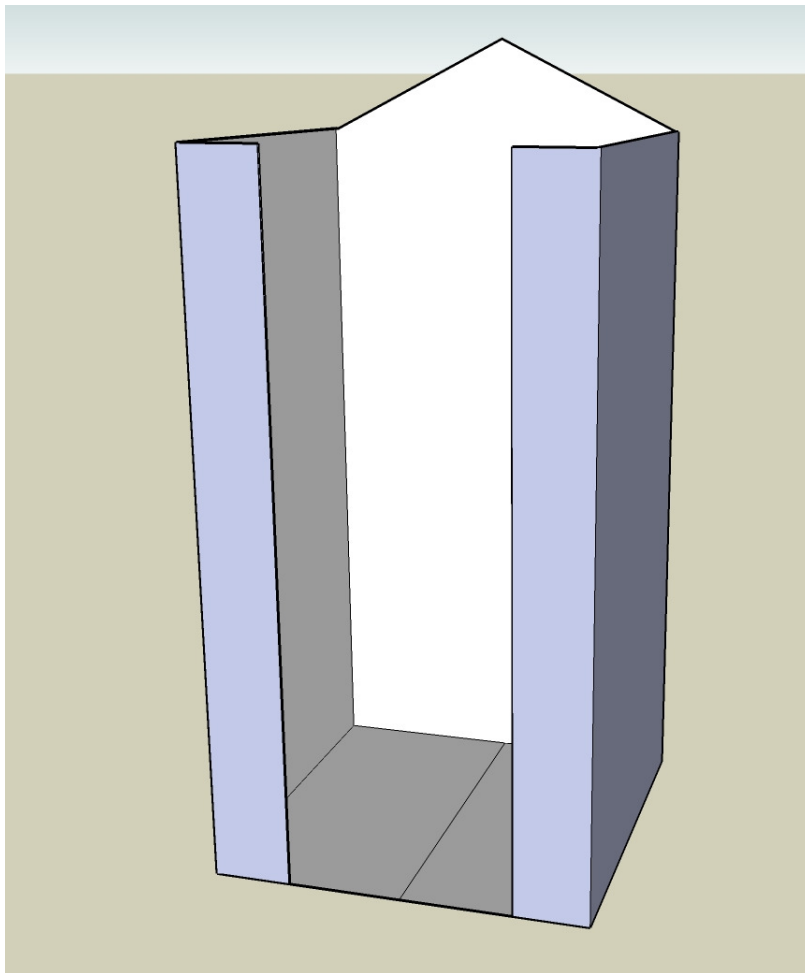
Place one of the two floor panels inside the construction and fit into position to one side.

Step 7

Measure the remaining floor space and cut the other floor panel down to suit. This step is necessary in order to allow flexibility of using different ply board thicknesses.

Step 8

Drill 3mm holes at 150mm spacing around the base of the walls 8mm in from the edge and fix the floor panels into place with 65mm screws. You might find it easier to do this with the construction lying down.

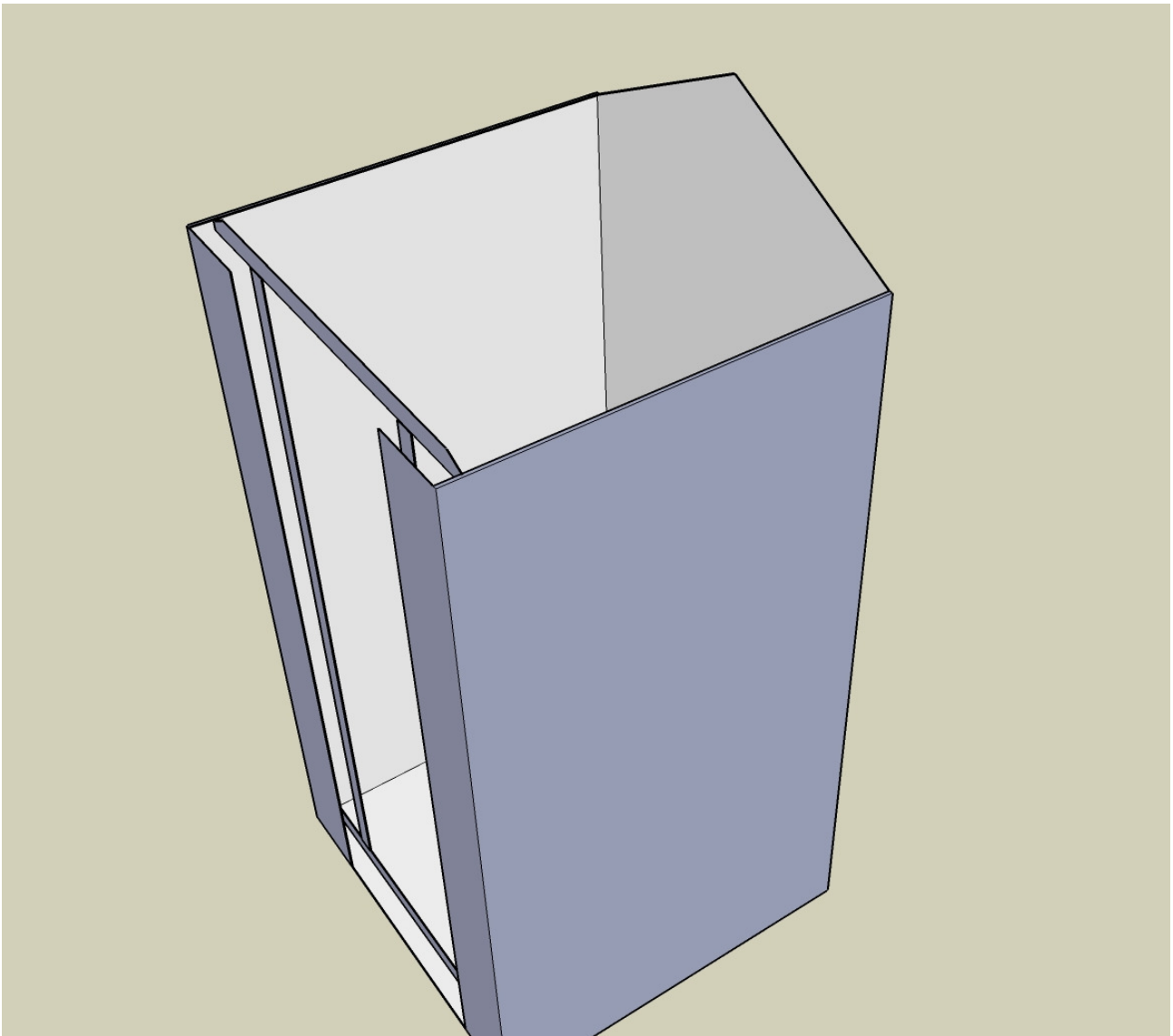


Step 9

Using the door jamb strips fit to the inside of the door surround securing the bottom jamb into place first. There should be a 25mm overlap into the door void. Fasten the jambs from the inside at 150mm spacing using the 25mm self tapping screws. The top and bottom door jamb strips should span the full width of the construction.

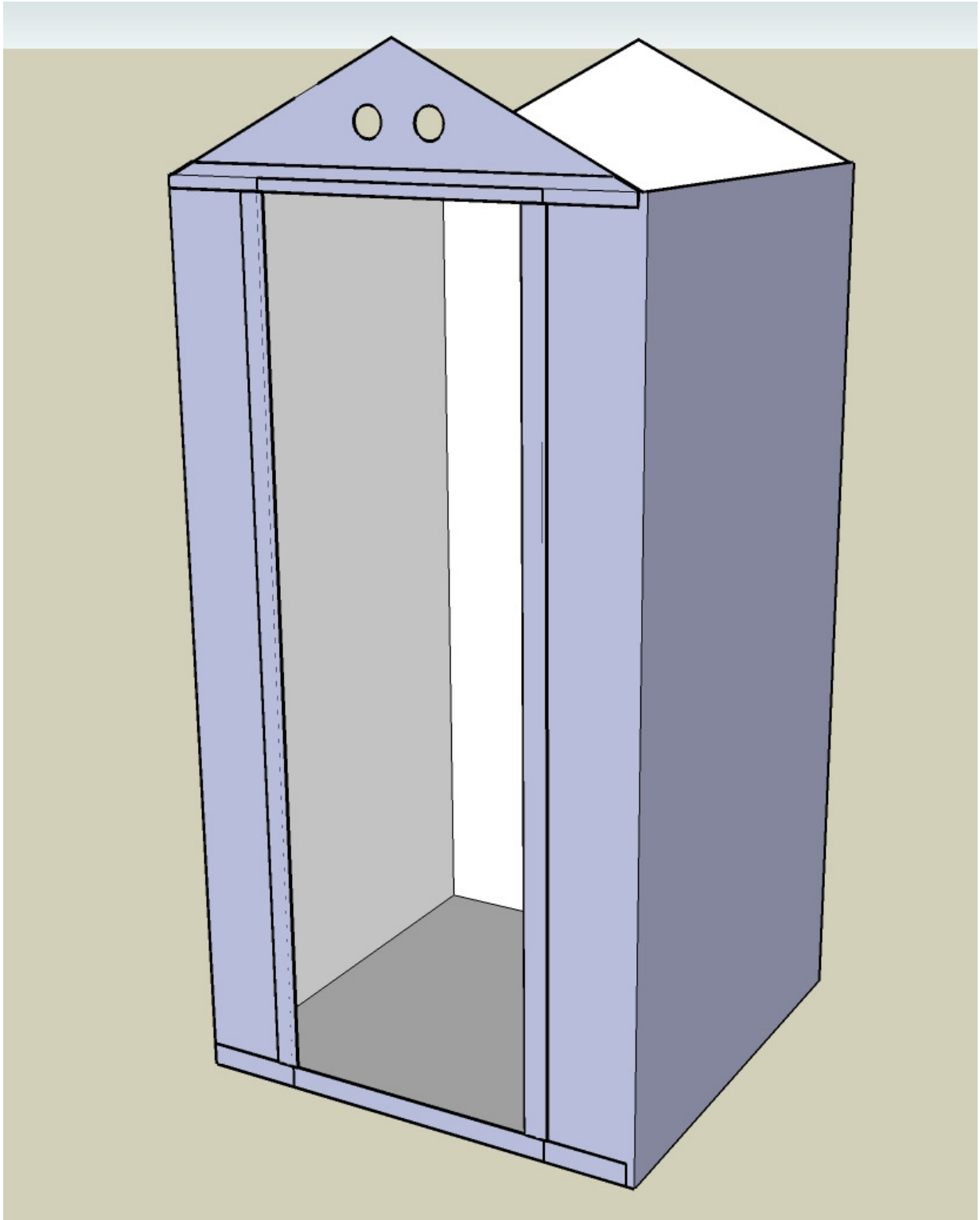
Step 10

Place construction on its back and secure the bottom door jamb to the floor through the base.



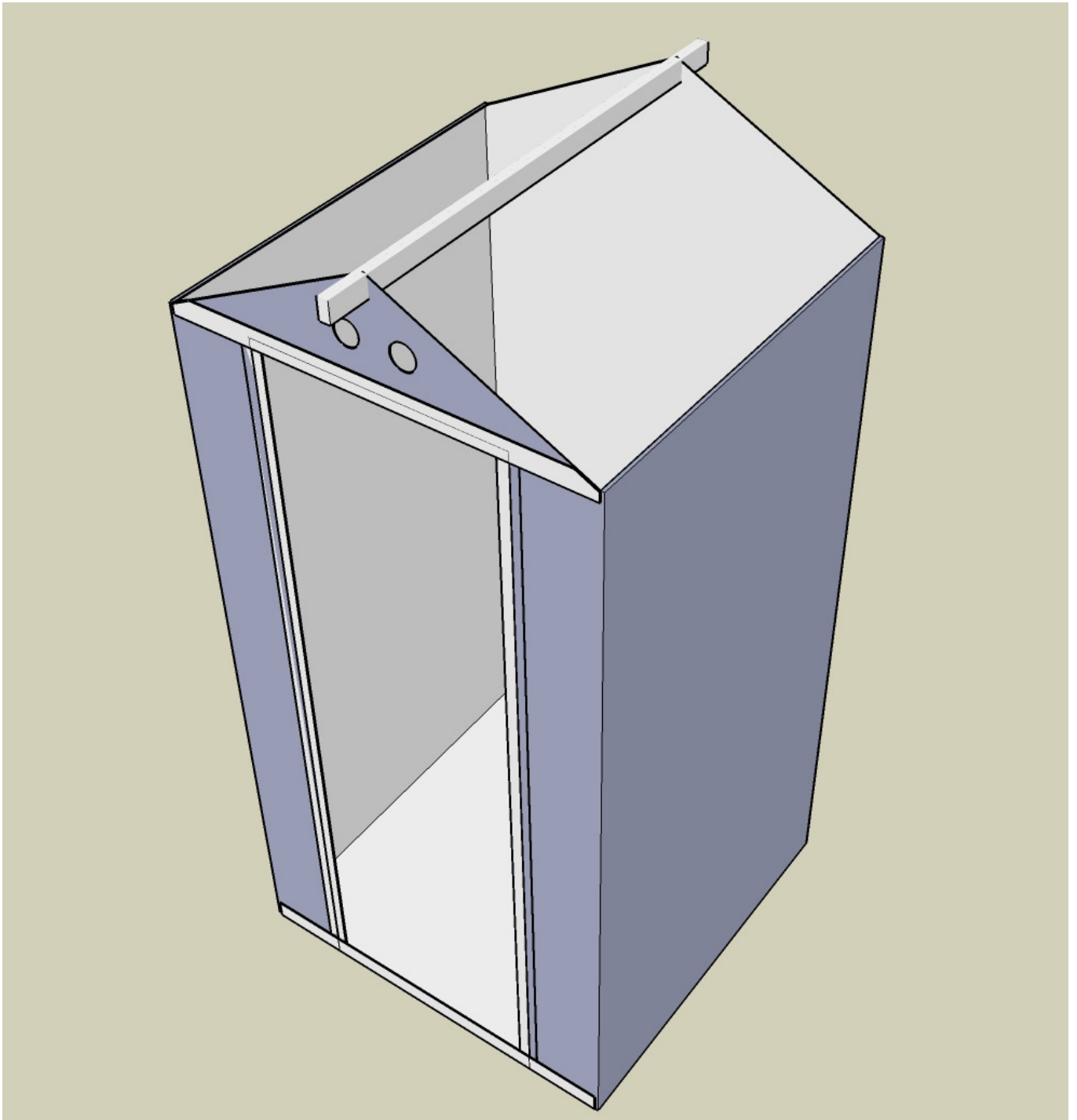
Step 11

Fasten the triangular roof peak to the top door jamb from the inside and fasten with 25mm screws at 150mm spacing. Trim the two pieces of door jamb left protruding at either end of the roof peak.



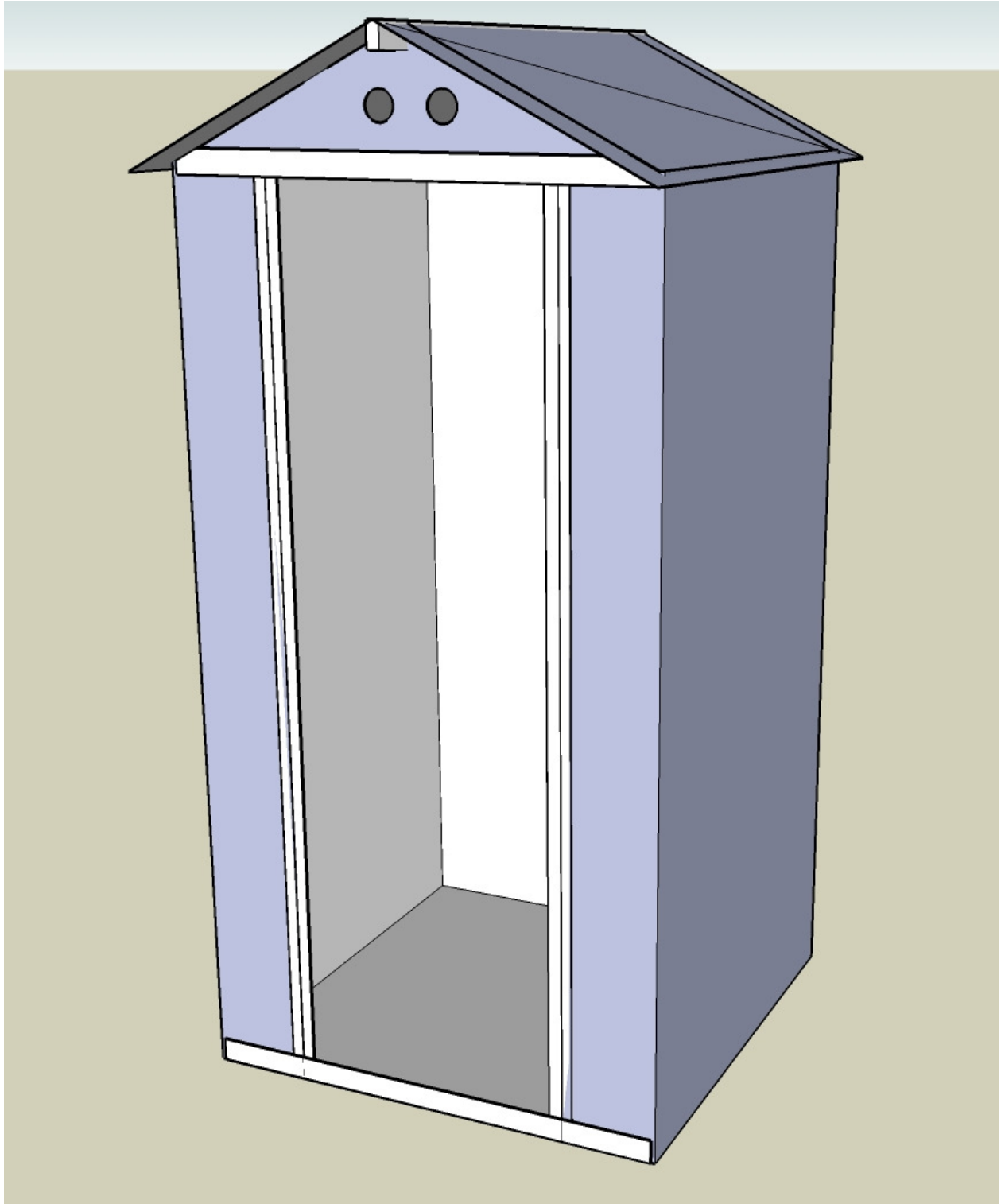
Step12

Cut a 1200mm long piece of 25 x 50mm timber and notch it into the roof peaks by 50mm and so there is equal overlap both front and back. Fasten apex to the roof peaks front and back from the top by drilling then screwing with 65mm screws.



Step 13

Fasten the two roof panels using the 25mm screws at 200mm spacing to the front and back roof peaks through the roof panels. Mark out the fastening points before starting and secure the four corners first.

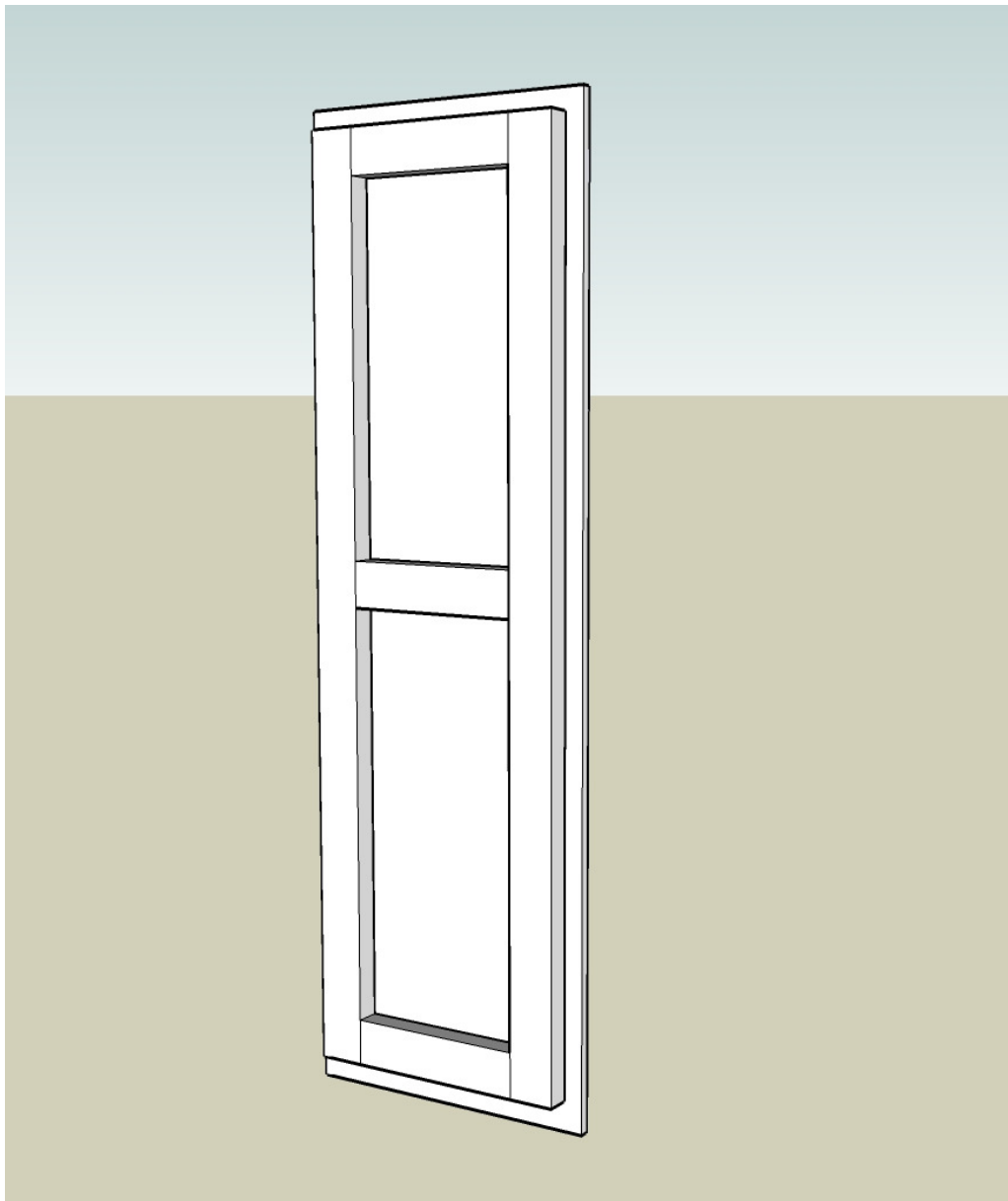


Step 14

Cut two lengths of 100 x 50mm timber to 1750mm and three lengths to 350mm. Using the gang nail plates fasten the door frame as shown in the diagram; the center timber nog is equi-distant top and bottom.

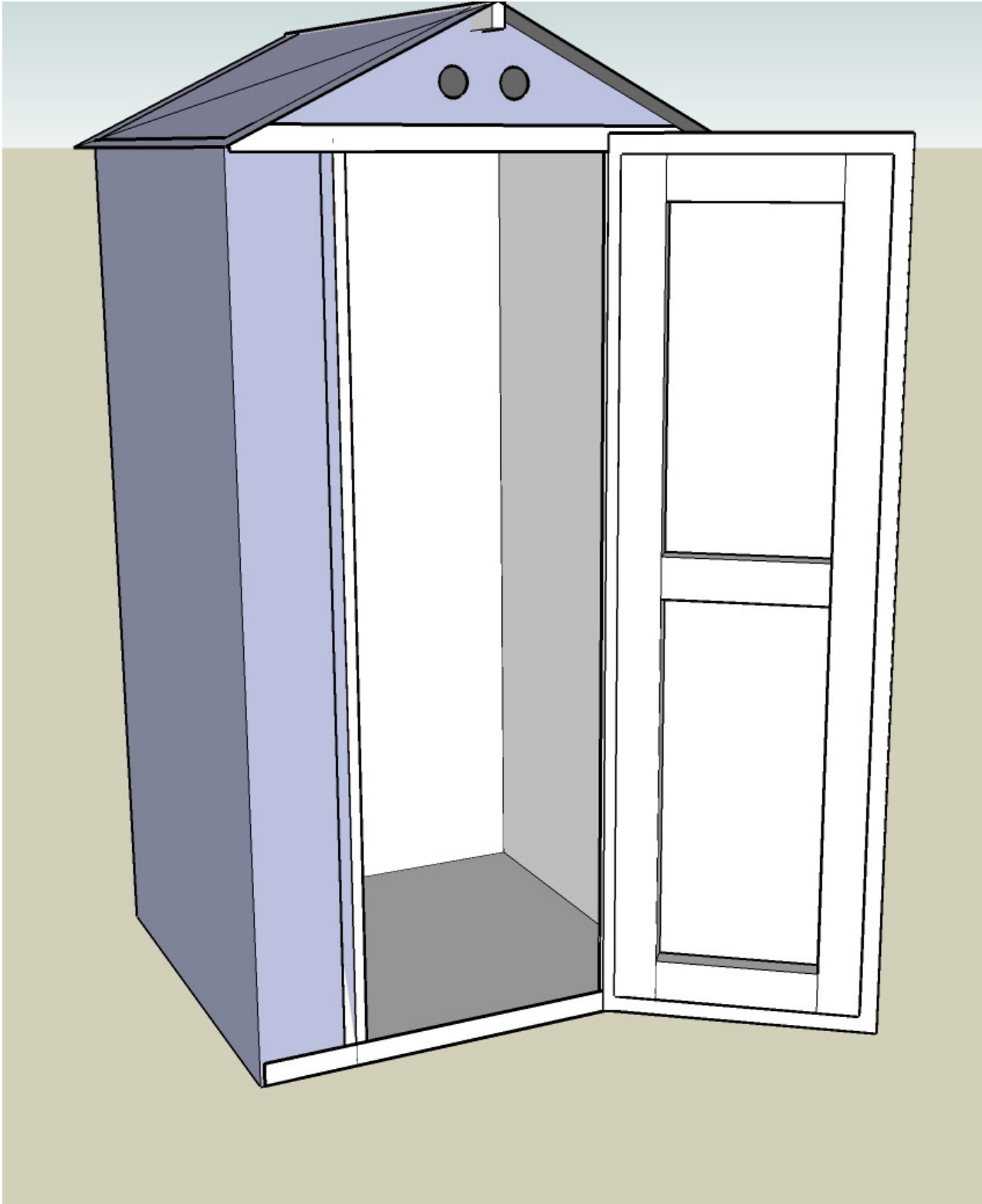
Step 15

Turn door framing over so the gang nail plates are face down and place the door panel flat on top. Make sure there is even overlap all round and fasten in place with 25mm screws at 150mm spacing. Mark out fastening points first.



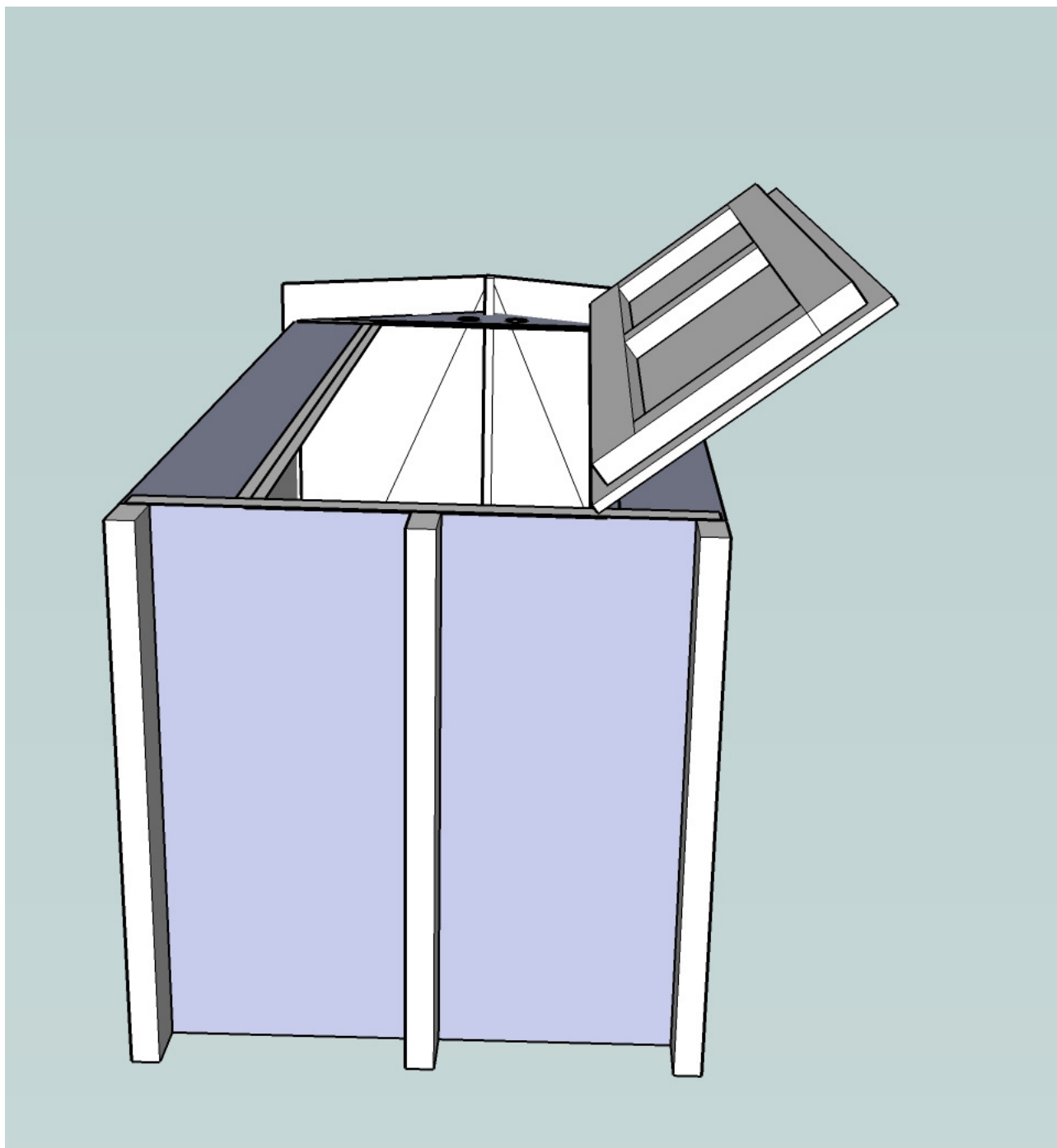
Step 16

Fasten door in place with the two hinges 250mm from the top and bottom. Secure the door bolt through the door panel into the center nog.



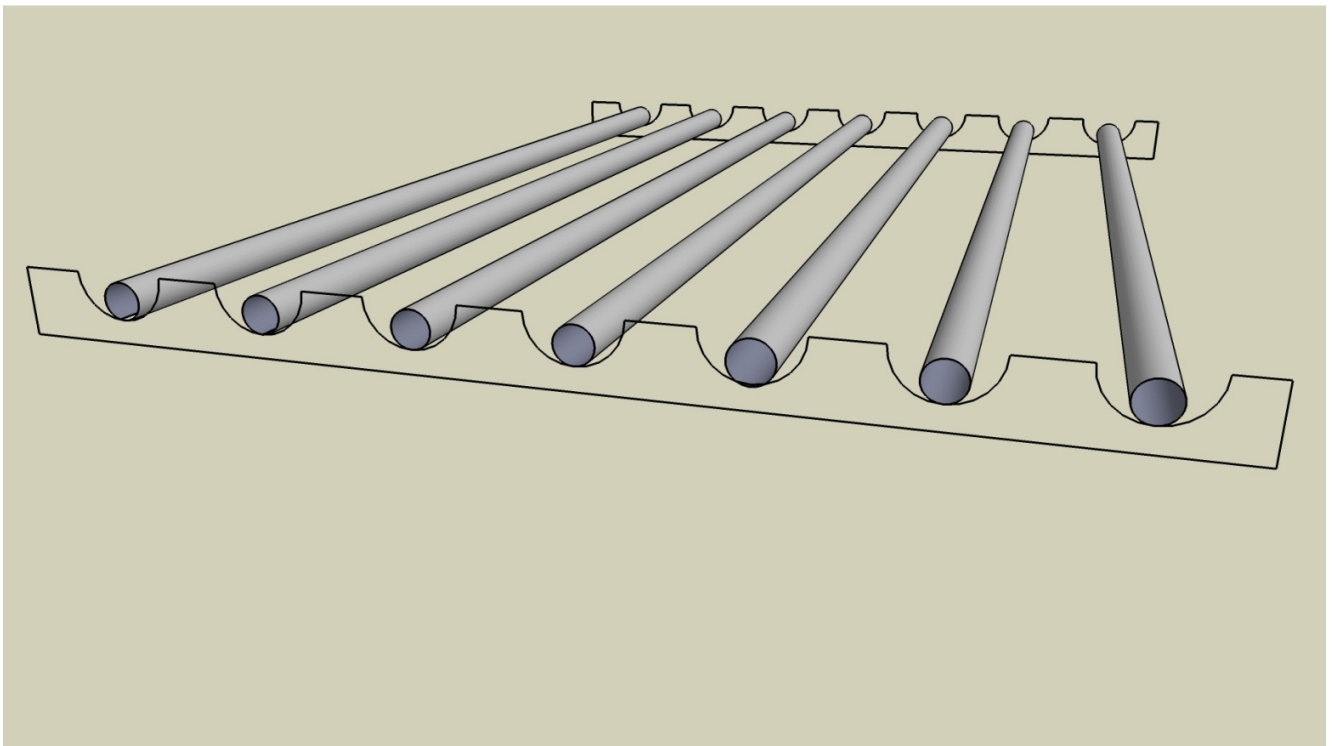
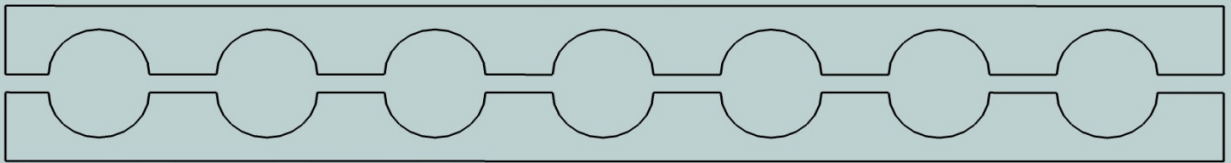
Step 17

With the smoker on its back secure from the inside through the floor panels, the three 1 meter lengths (skids) of treated timber to the base as shown, using 65mm screws at 100mm spacing. Make sure the center skid overlaps the join in the floor panels and secure both to the skid.



Step 18

Using a 60mm hole saw cut out the circles in the plywood as shown in the template. Once completed cut the circles through the middle length ways, these will become your brackets for holding the smoking dowels.



Step 19

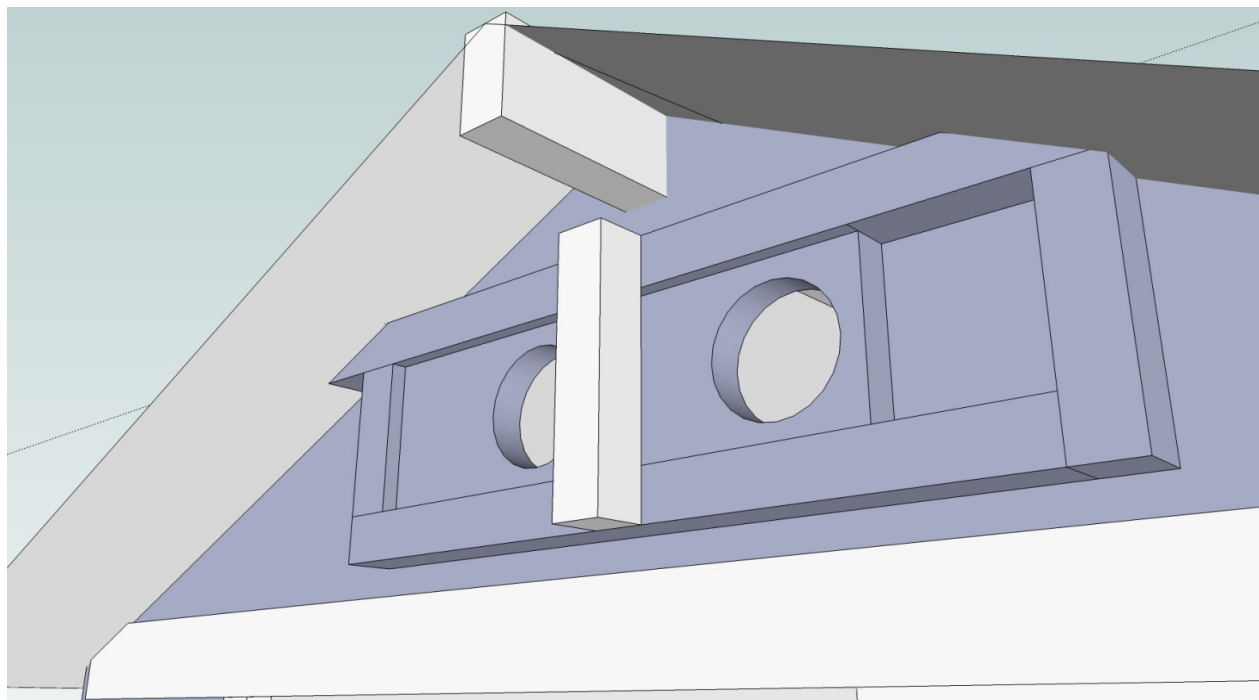
Fit the smoke dowel brackets to the inside walls at the desired heights using 25mm screws at 100mm spacing.

Step 20

Cut to size and secure roofing iron and ridge-cap in place using 65mm roof screws. Mark out and pre drill holes first using 3mm drill bit.

Step 21

Using a piece of ply off-cut 80 x 270mm cut two holes using the 60mm hole saw 100mm in from one end and 70mm apart. These holes need to match up with those in the roof peak. This is going to be the sliding vent cover. Using the 50 x 25mm timber make a surround shown bellow to allow the cover to slide freely.



Step 22

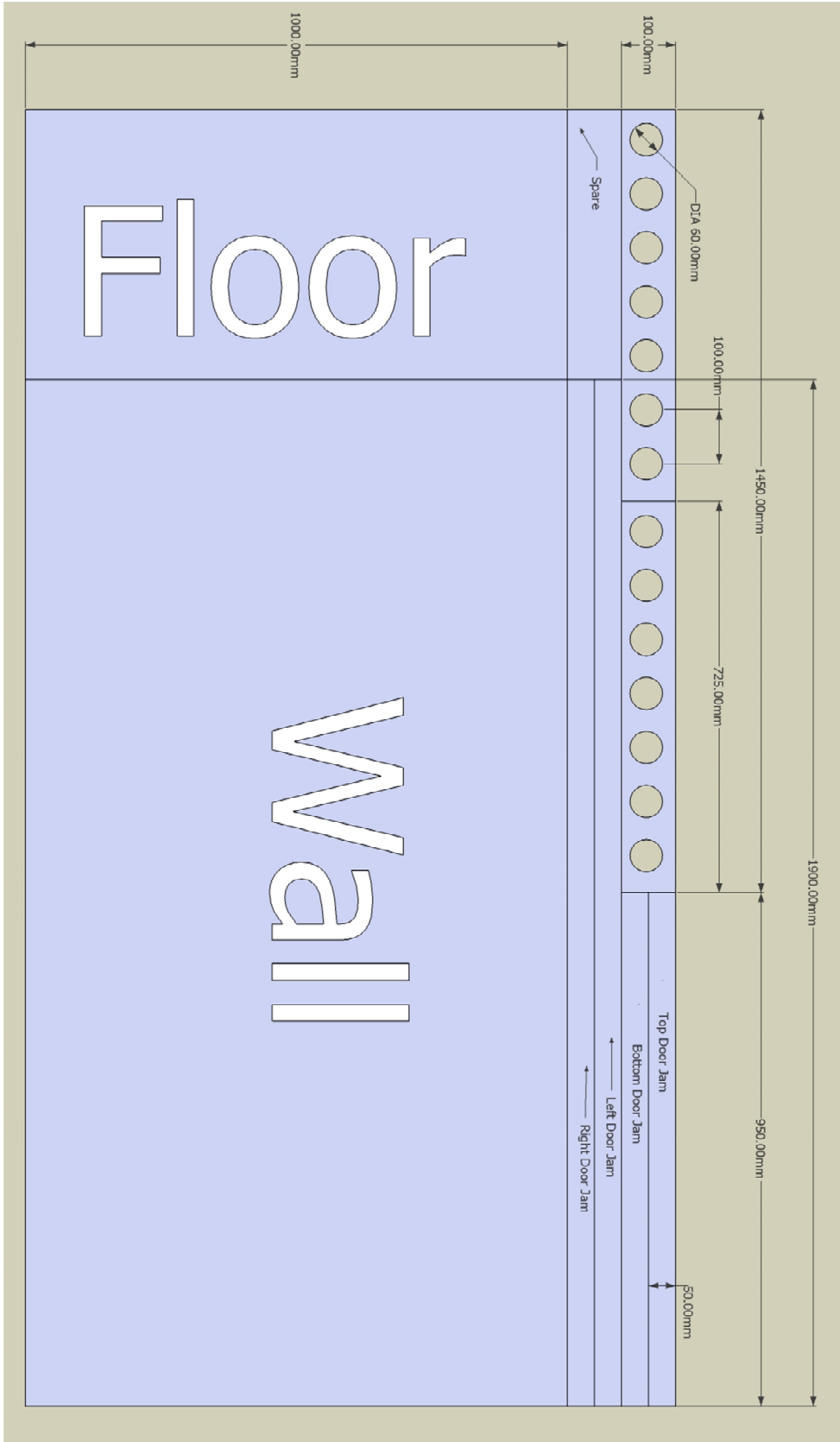
Your project is nearly complete, cut a 60mm hole in the centre of one of the side for your Smoke Cannon 350mm from the base using the hole saw.

Step 23

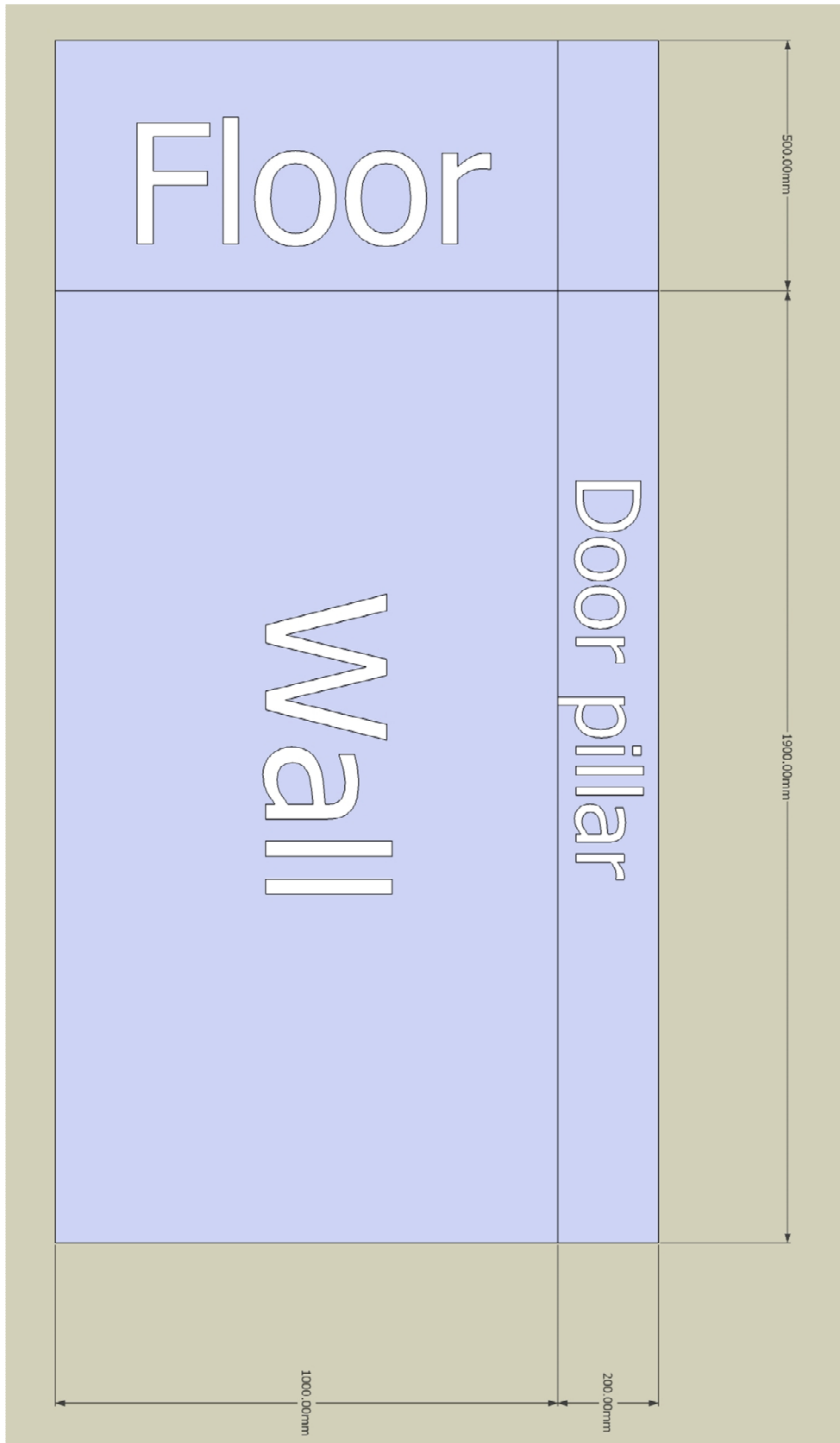
Using the 1900mm lengths of stainless of aluminum equal angle fix to the four corners of the smoke house using 25mm screws at 250mm spacing. Pre-drill holes first. You can decide to edge the roof with 25 x 50mm timber for appearance and rigidity but it's not structurally required.



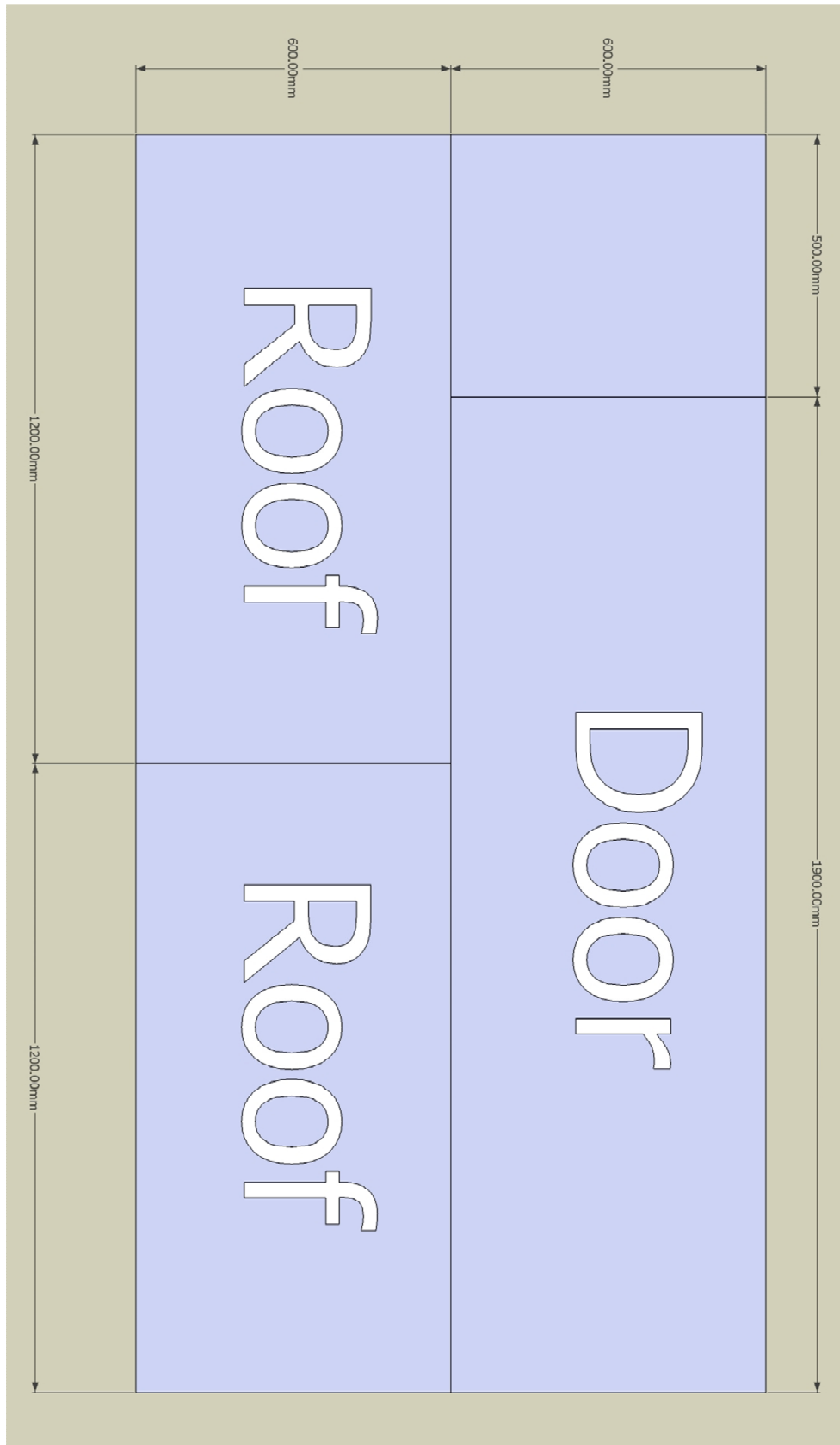
Plywood Template Sheet 1



Plywood Template Sheet 2



Plywood Template Sheet 3



Plywood Template Sheet 4

