

Maze Tile Construction

Simple Method

by

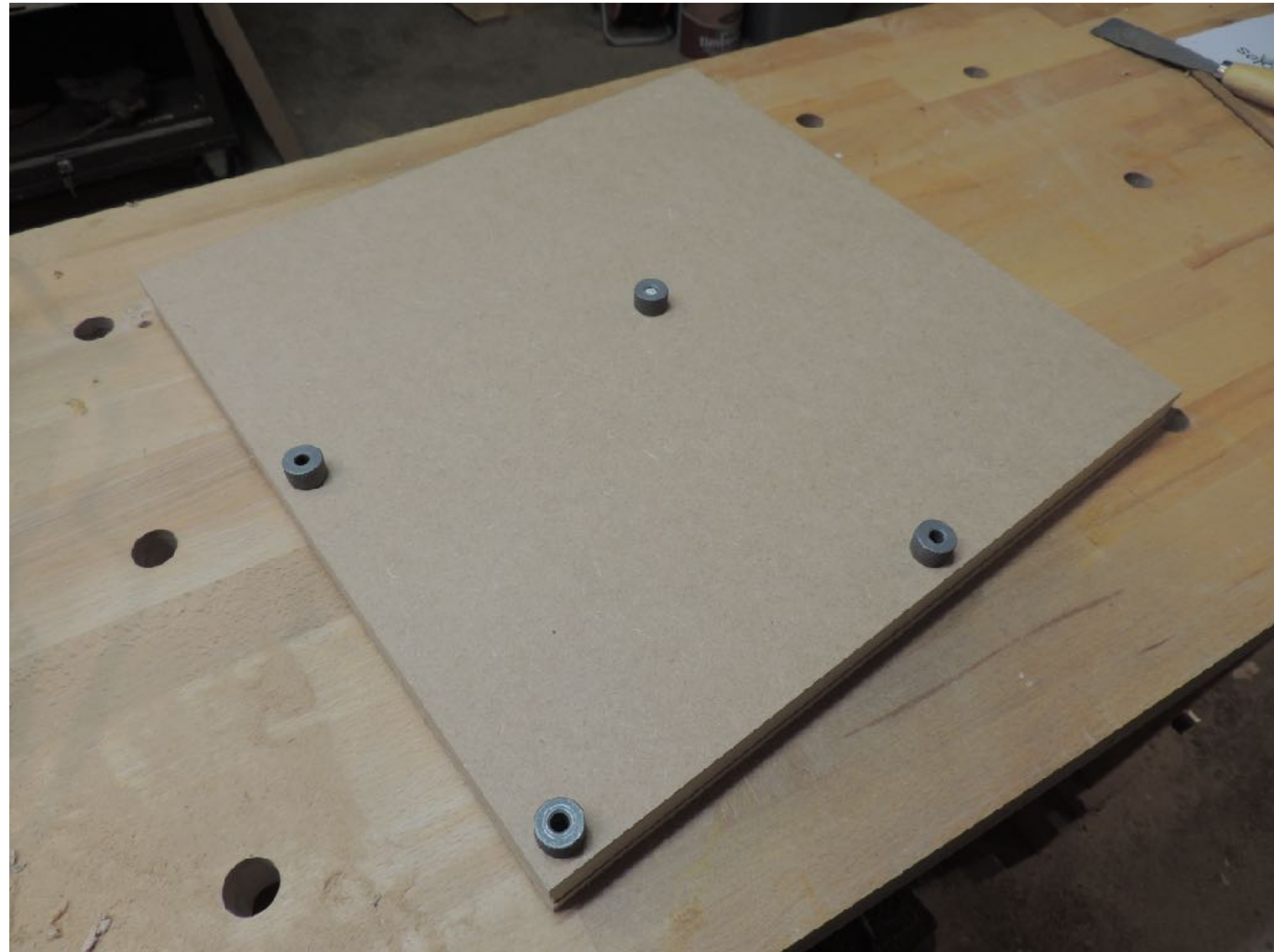
Ken Hewitt

Aims

- Simplest method possible
- System can be used to produce what ever size tile we finally decide to standardise on.
- As accurate as possible
- using minimum amount of tools
- Repeatable results
- Identical results by anyone, so when they come together at a contest they stand a chance of fitting together.

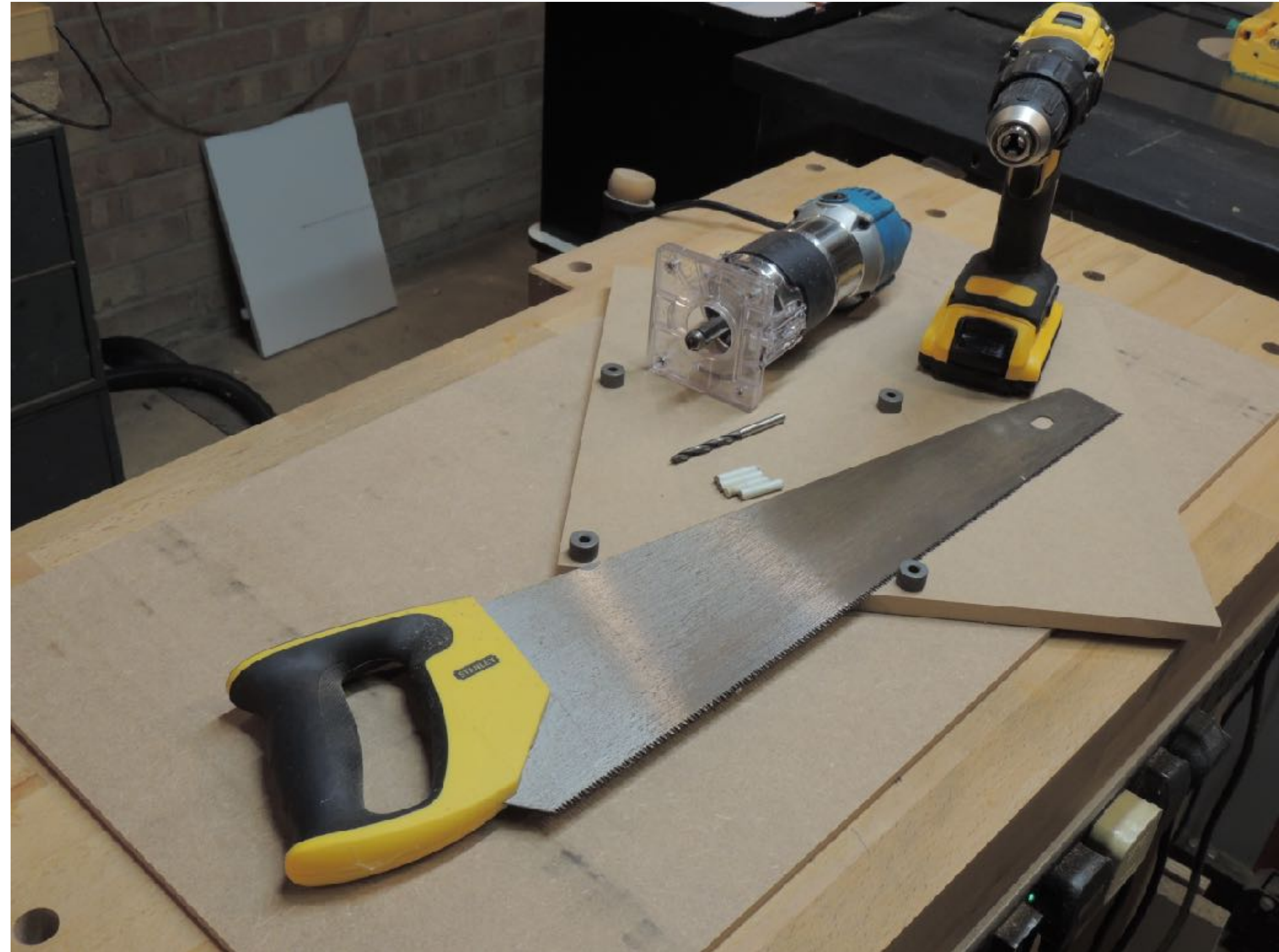
The Copy Template Method

- This method is used a lot in woodworking when a lot of identical parts are needed



Equipment Required

- Template
- Hand drill
- 6mm Brad point bit
- 6mm Alignment pins
- Handsaw
- Trim Router
- Bearing Guided cutter



Handheld Trim Router

- This is the only item that people may need to purchase, but can be found for a reasonable price on Amazon

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Roll over image to zoom in

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Colour Name: **Blue**
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The Template

- The template is the crucial part of this process and needs to be made as accurate as possible.
- There are 2 options for the template.
 - UKMARS has a batch made by CNC for sale to members
 - UKMARS has one Master made by CNC and this is held by one member who can use the same copying process to make copies of it for members who want one, (at cost price)
- This could be supplied as a package of template, brad point drill and router bit so that everyone is using identical equipment to make their tiles.

So Lets Start

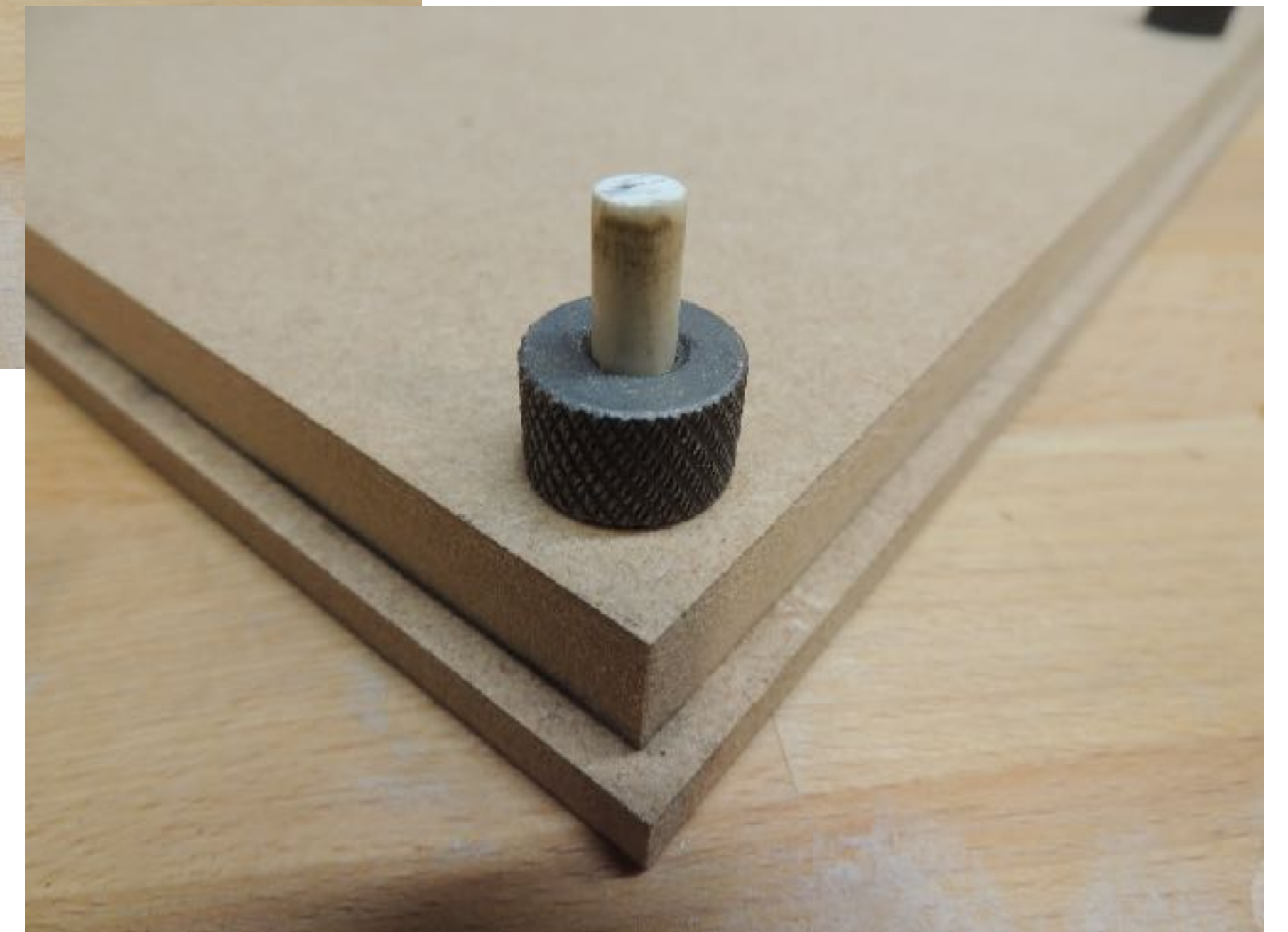
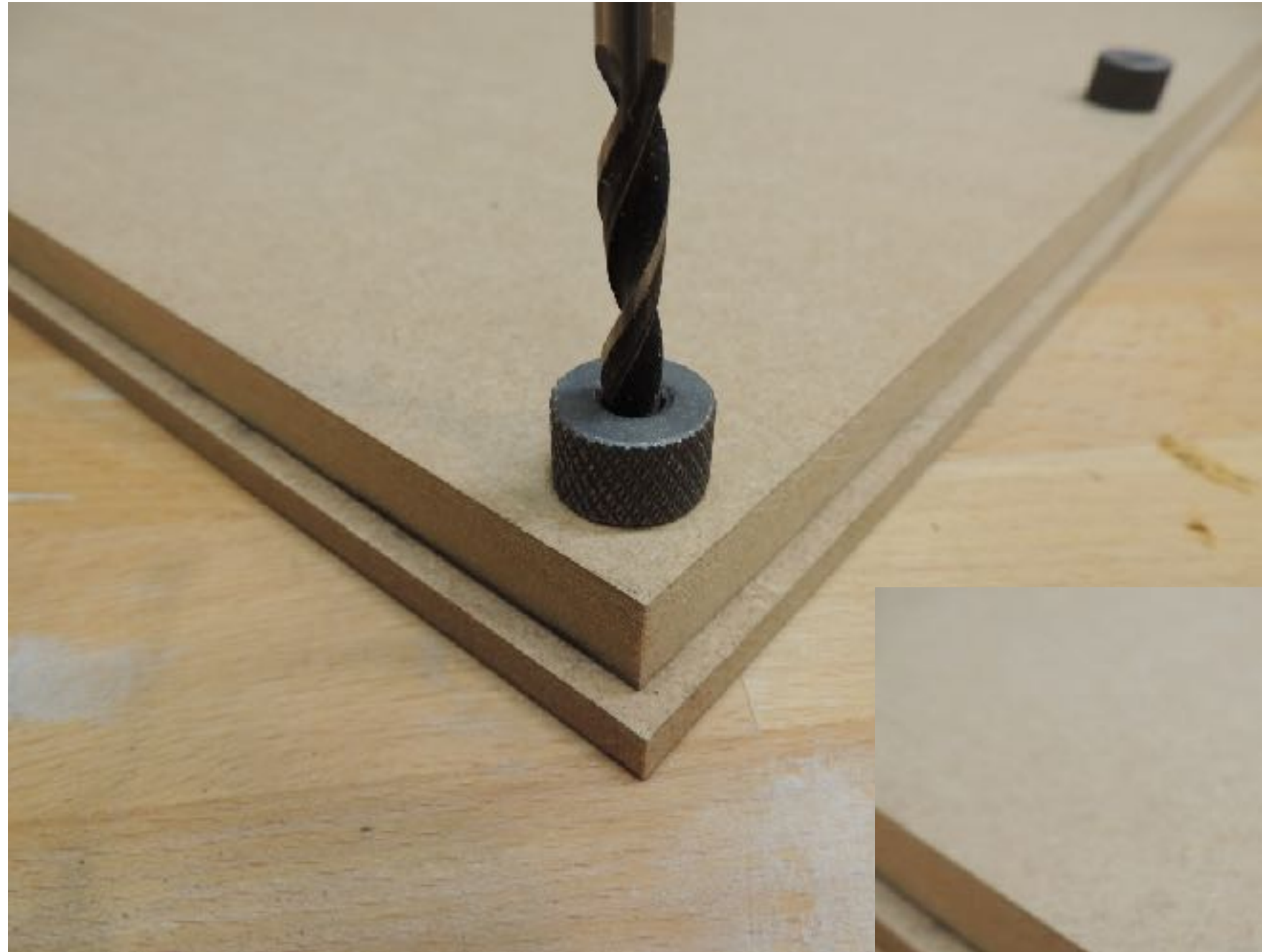
Cut Tile Over Size

- Use what ever you have, handsaw etc
- Cut it a few mm over size



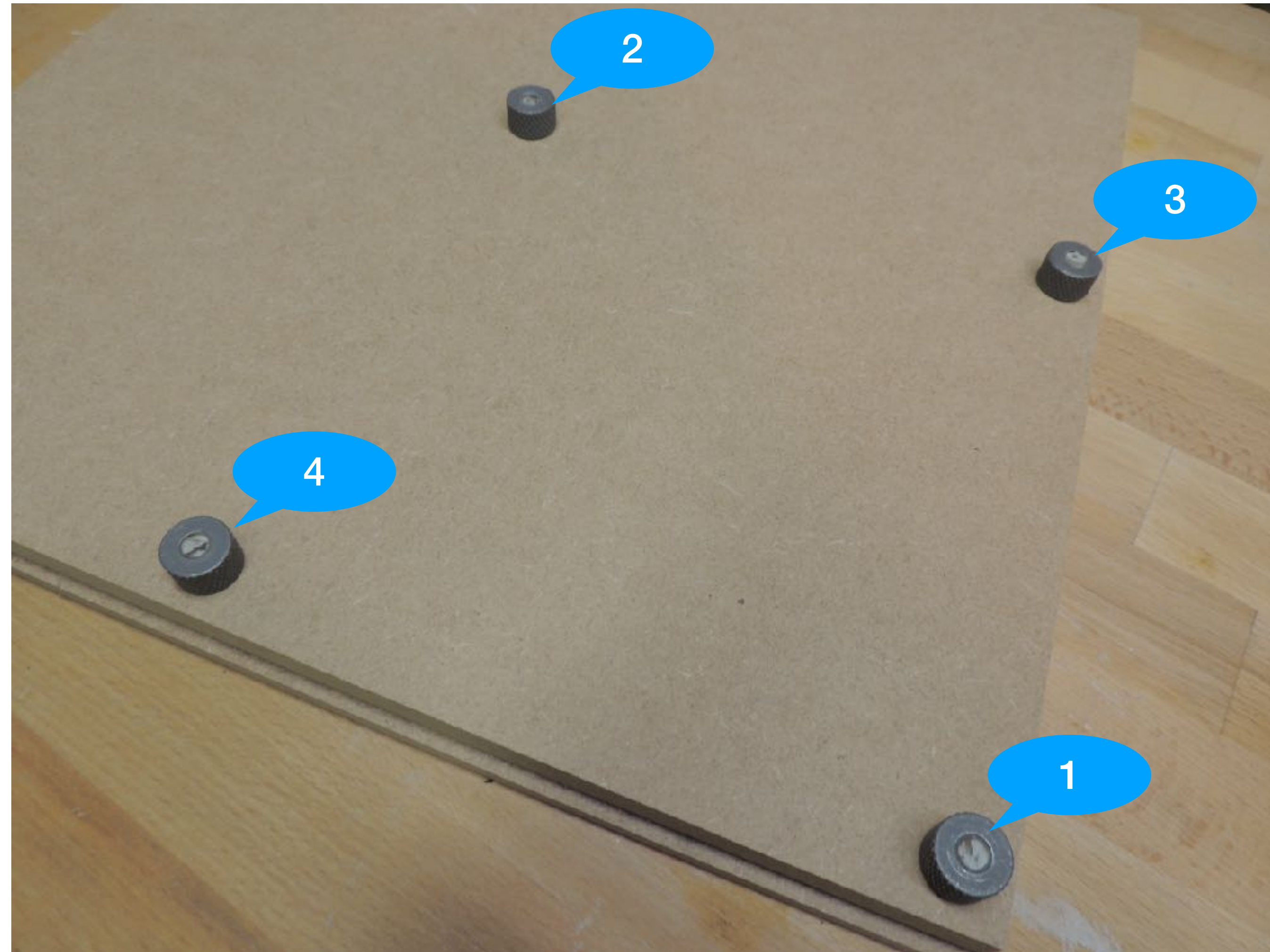
Position Template & Drill Holes

- Position template on tile leaving tile material around all 4 sides
- Drill corner hole and insert alignment pin
- Drill opposite corner hole and insert pin
- Drill 2 remaining holes and insert pins



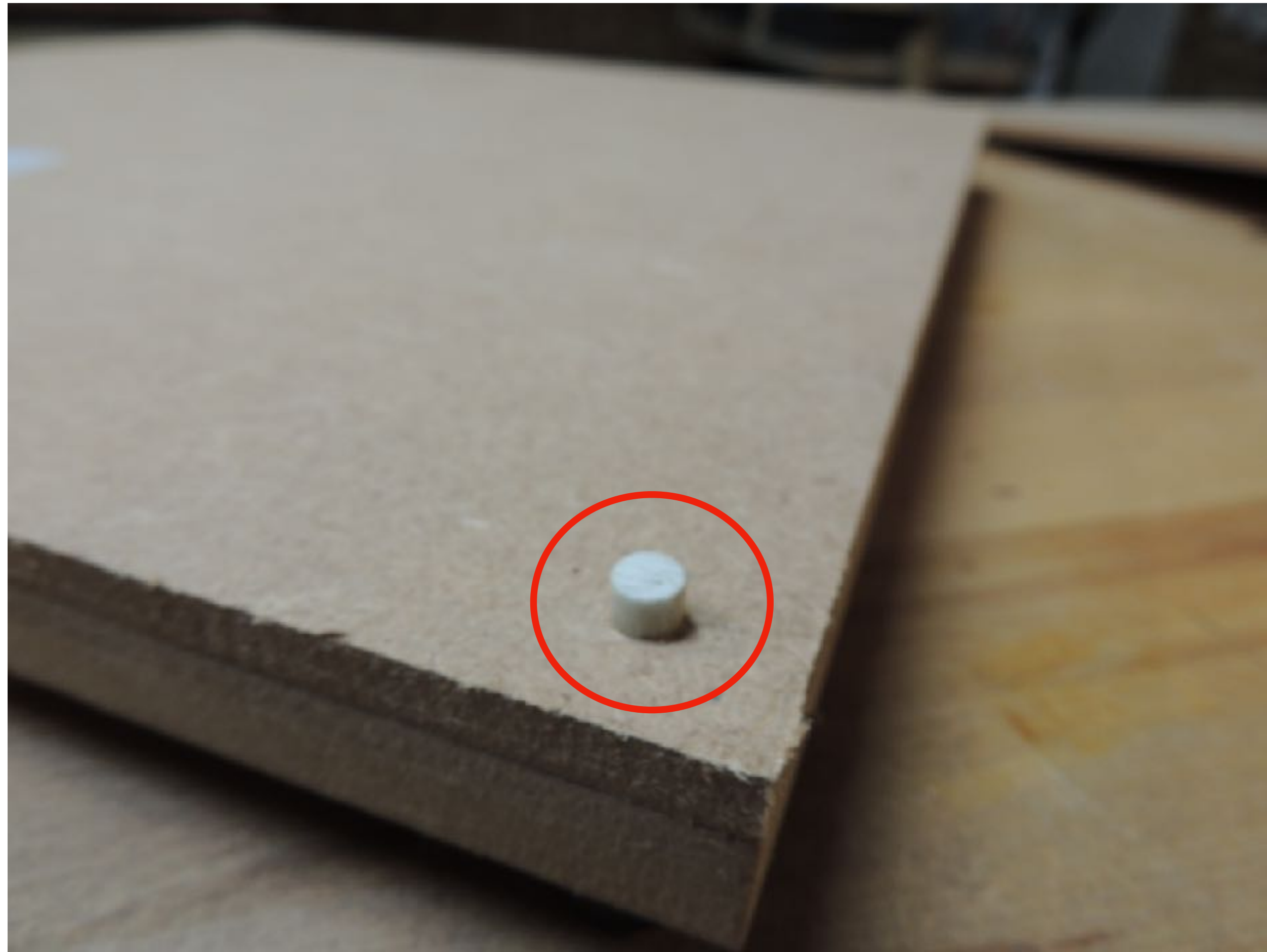
All Holes Drilled

- When all of the holes have been drilled and pinned the template is securely fixed to the tile material.



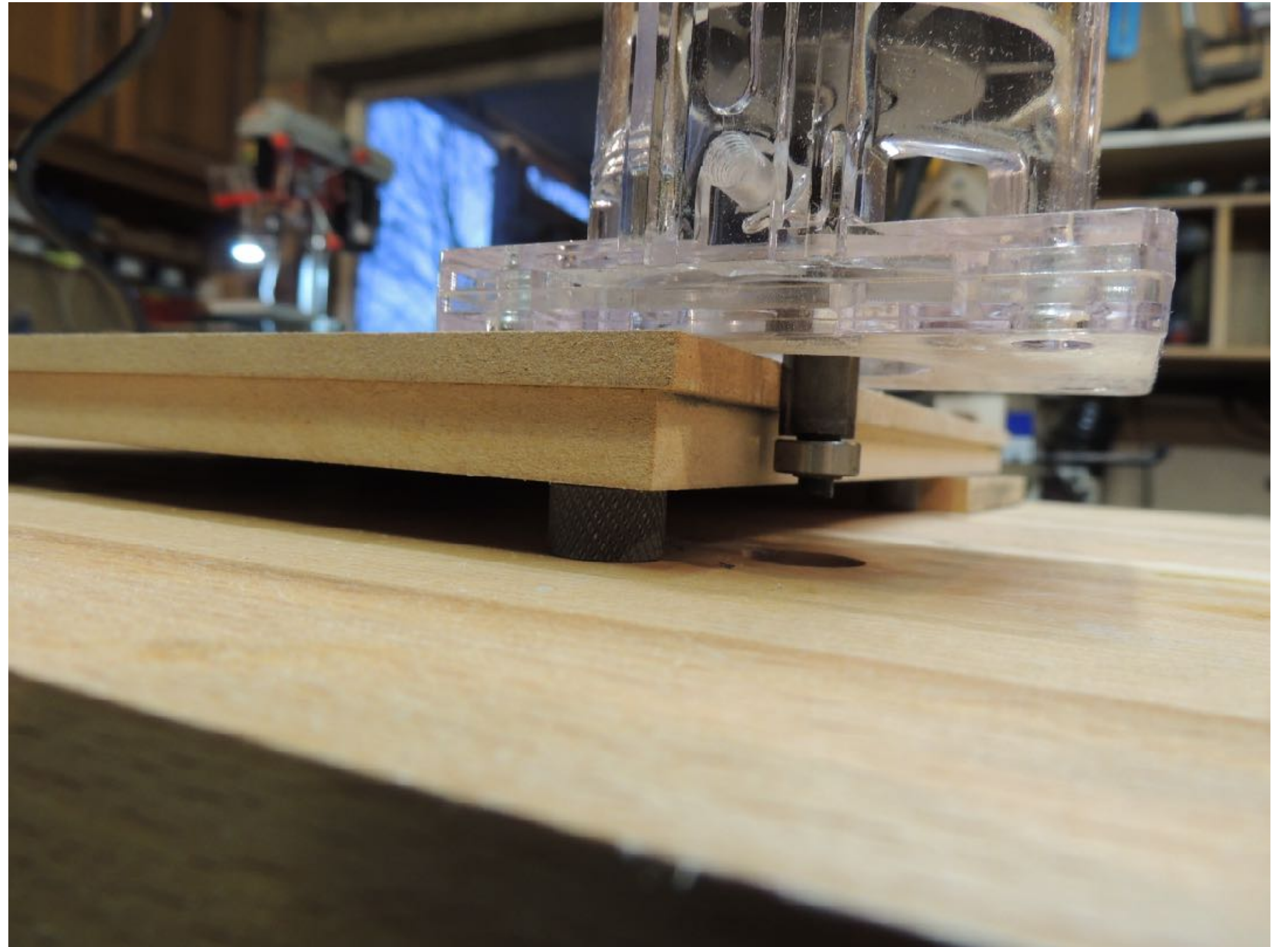
Turn it Over

- Turn the whole assembly over
- Make sure the alignment pins are not sticking up above the tile surface



Trim Tile to Size

- Using the trim router with the bearing guided flush trimming bit, trim the tile to size. The router should be moved in a anti-clockwise direction.
- Job done remove tile from template and do another



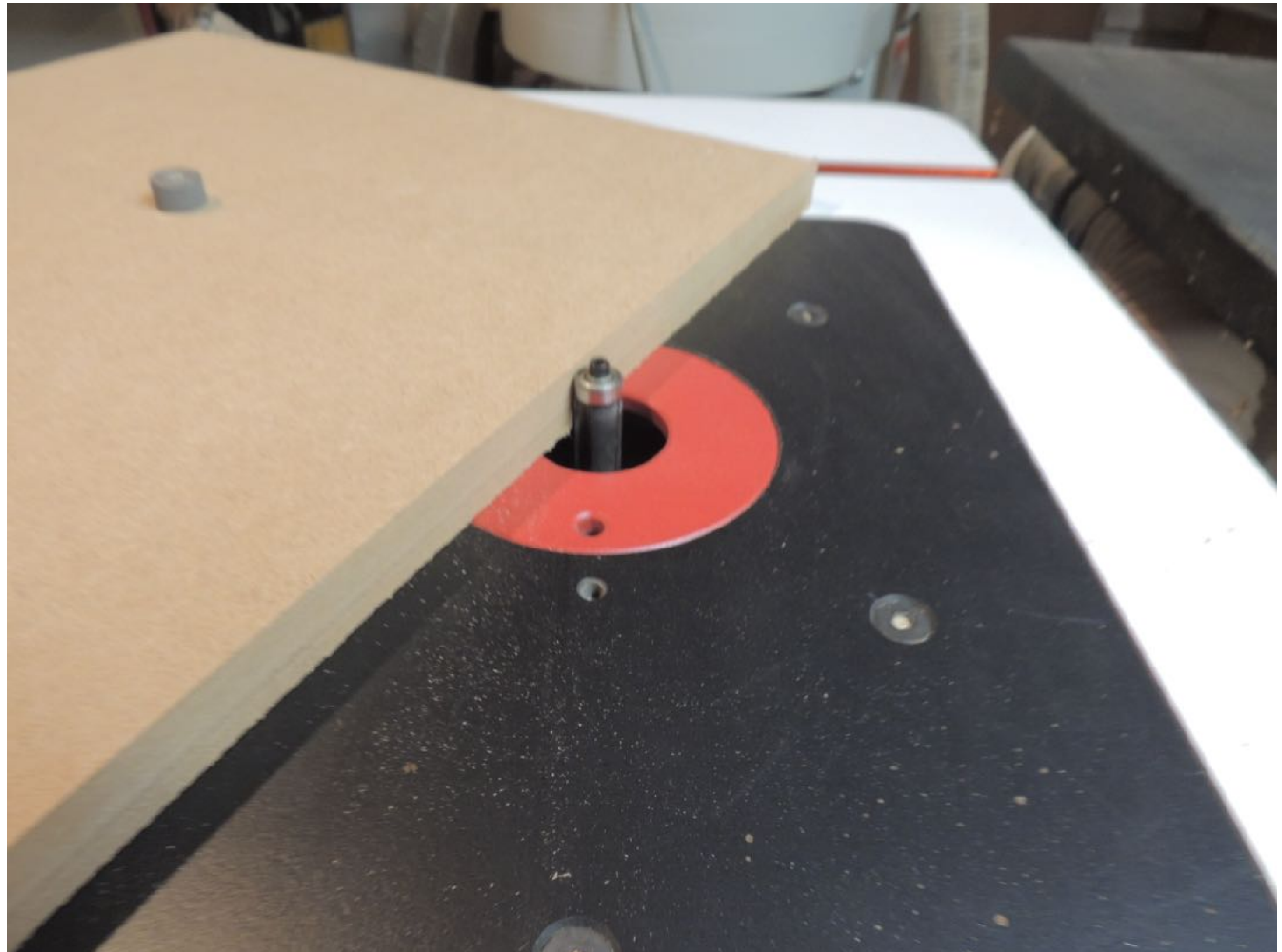
Finished Tile

- When completed the tile should look like this



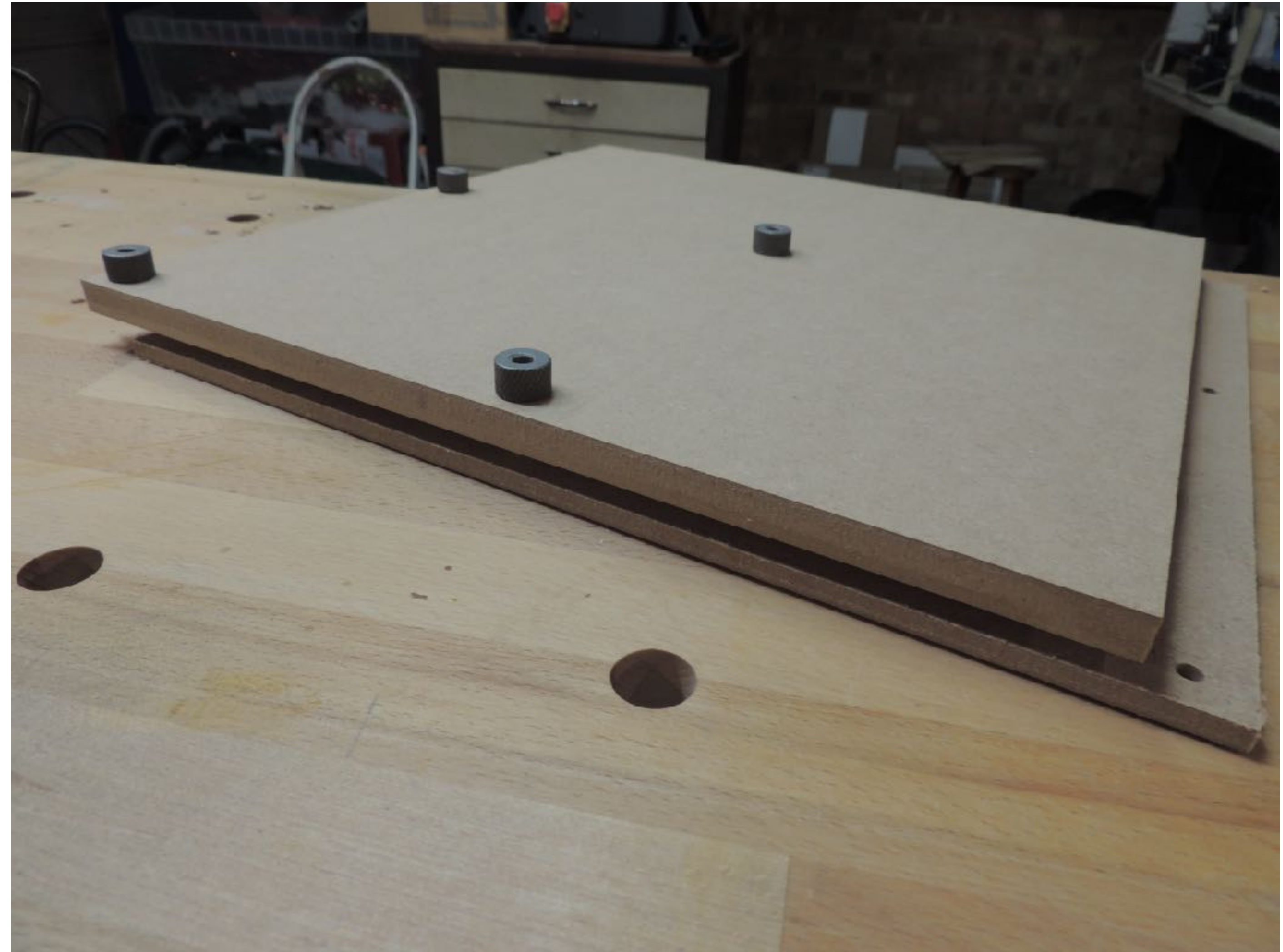
Alternative Routing

- If you have access to a router table then that can be used instead of a handheld router
- No need to turn the assembly over



360mm Tile Layer Alignment

- For multi layer 360mm tiles the template can used to align layer 2



Reinforcing the corners

- To make the corners of the 6mm MDF a little bit more robust you can apply some thin super glue and let it soak in.



And That's it

Any Questions ?