

# Maze Tile Construction

Simple Method

by

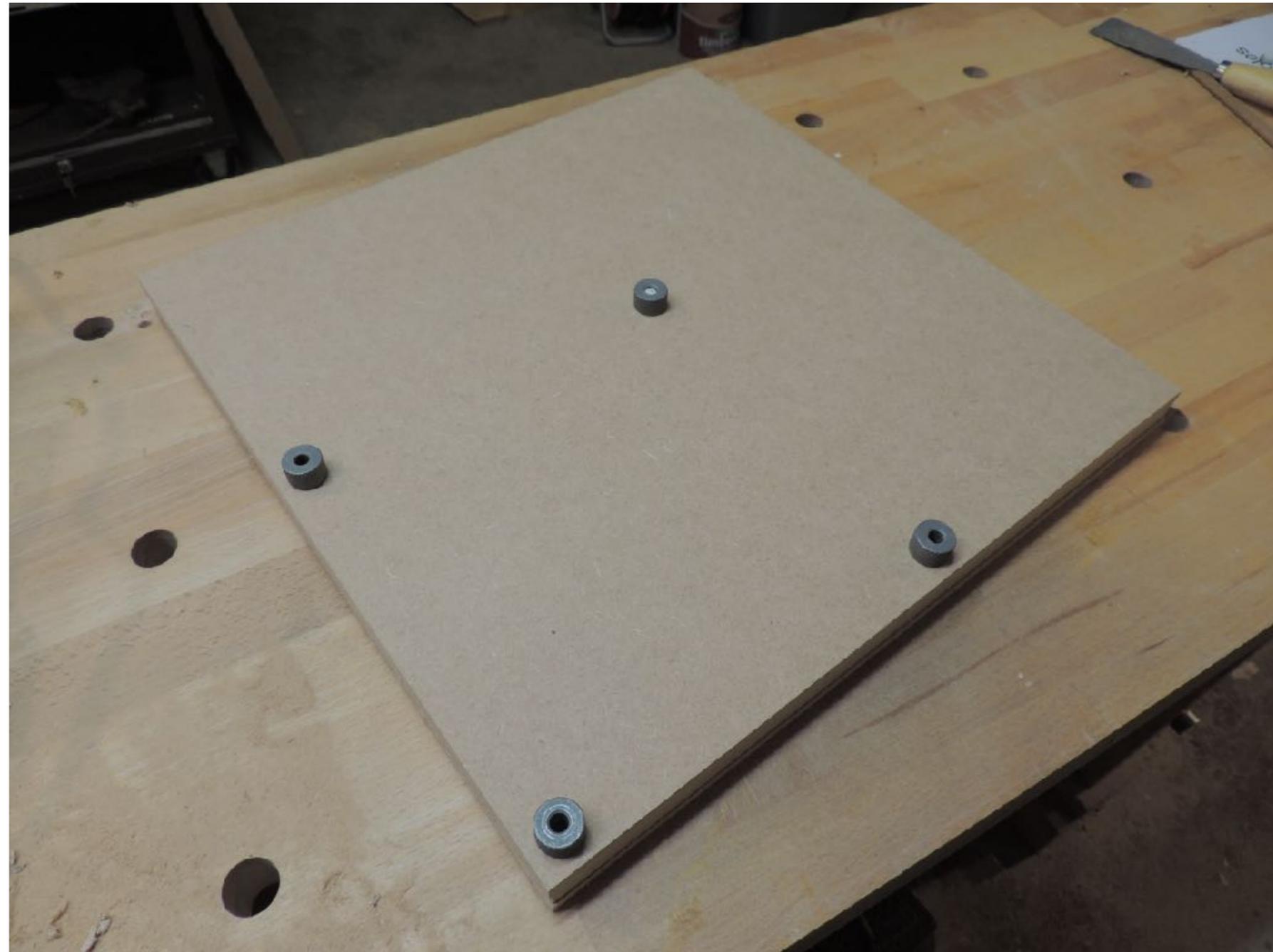
Ken Hewitt

# 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.

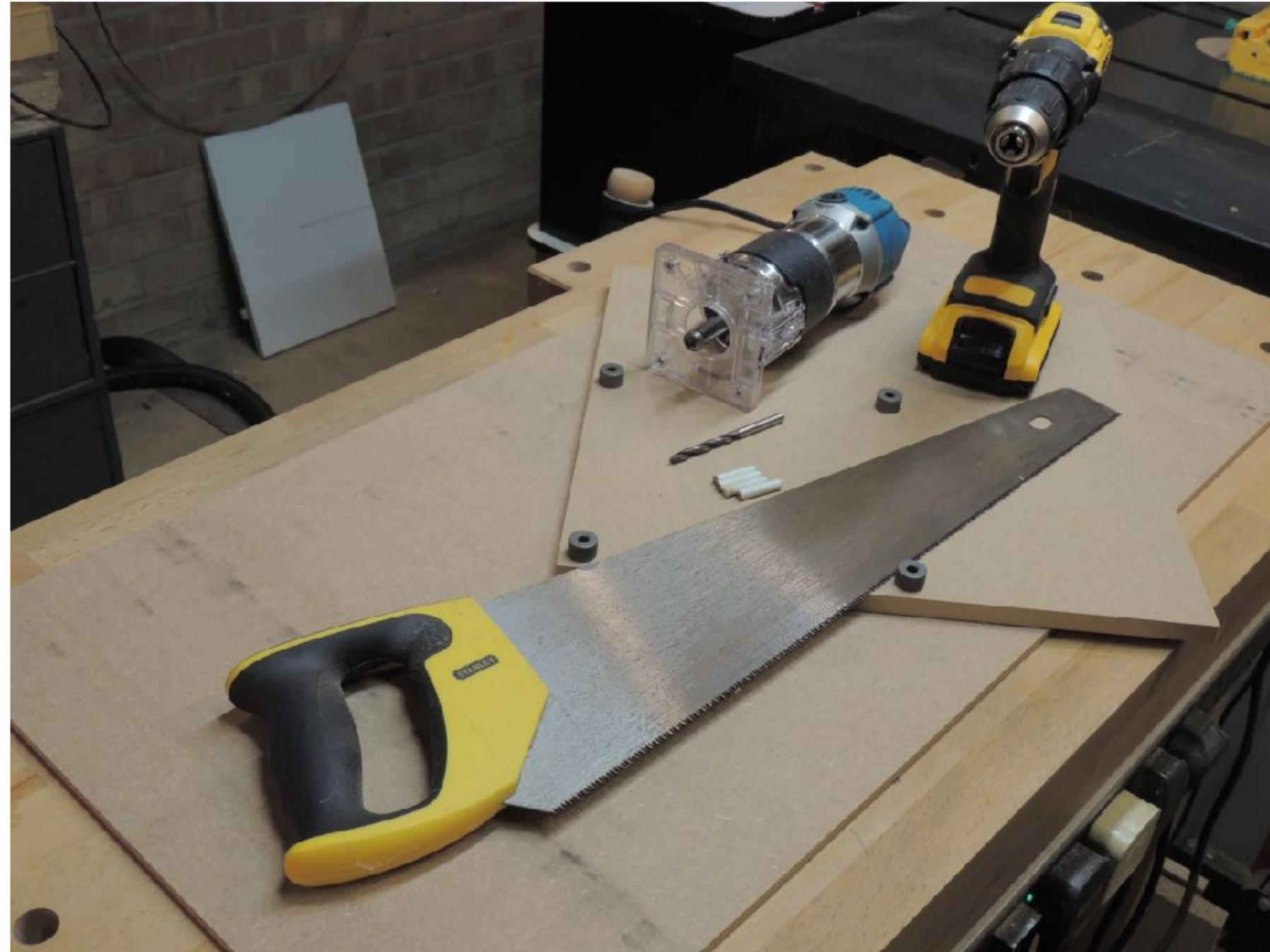
# The Copy Template Method

- 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

The screenshot shows the Amazon.co.uk product page for a handheld trim router. The page features a navigation bar at the top with the Amazon logo, delivery location (Spalding PE12 0), and search bar. Below the navigation bar is a category menu with options like 'DIY & Tools', 'Deals & Savings', 'Power Tools', etc. A blue banner promotes a 'top up' service. The main product image shows a blue and white trim router with various accessories. The product title is 'Electric Wood Router Router Trimmer Router Tool Routers Woodworking Palm Router Power Router Hand Trimmer Wood Router Tool Cutting Palmming Tool 220v 30000rpm 800w'. The price is £36.99, and it is in stock. The page also includes a 'You last purchased this item on 25 Feb 2023' notification, a 'Add a review' button, and a 'Secure transaction' badge. The bottom right corner has an 'Add to List' button.

amazon.co.uk prime Deliver to Kenneth Spalding PE12 0 DIY & Tools Search Amazon.co.uk Hello, Kenneth Account & Lists Returns & Orders Basket

All Buy Again Prime Video Morrisons Free Delivery Amazon Business Vouchers Gift Cards & Top Up Shopper Toolkit freevee Stream Neighbours for free

DIY & Tools Deals & Savings Power Tools Hand Tools Garden Tools Hardware & Supplies Electrical Decorating Paint Finder Kitchen & Bathroom Safety & Security Trade & Professional

top up A fast and safe way to shop on Amazon Try now

Power, Garden & Hand Tools > Power Tool Accessories > Router Accessories & Parts

You last purchased this item on 25 Feb 2023  
Colour Name: Blue | [View order details](#) [Add a review](#)

Roll over image to zoom in

 VIDEO

 **Electric Wood Router Router Trimmer Router Tool Routers Woodworking Palm Router Power Router Hand Trimmer Wood Router Tool Cutting Palmming Tool 220v 30000rpm 800w**  
Brand: QDCITT  
★★★★☆ 74 ratings

£36.99  
prime One-Day  
FREE Returns

**Spread the cost of your purchase over £100.** Select instalments by Barclays at checkout. Subject to financial status. Amazon is the credit broker.  
Representative example: Credit limit £1200, Annual interest rate 12.2% variable, Representative APR 12.2% variable  
[Learn more about Instalments by Barclays](#)

Colour Name: **Blue**  
Brand: QDCITT

£36.99  
prime One-Day  
FREE Returns  
FREE delivery **Tomorrow, March 5.** Order within **3 hrs 33 mins.** [Details](#)  
Deliver to Kenneth - Spalding PE12 0  
**In stock**  
Quantity: 1  
[Add to Basket](#)  
[Buy now](#)  
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Dispatches from: Amazon  
Sold by: BlueKaif  
Gift options: Add at checkout  
Return policy: [Returnable within 30 days of receipt](#)  
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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**

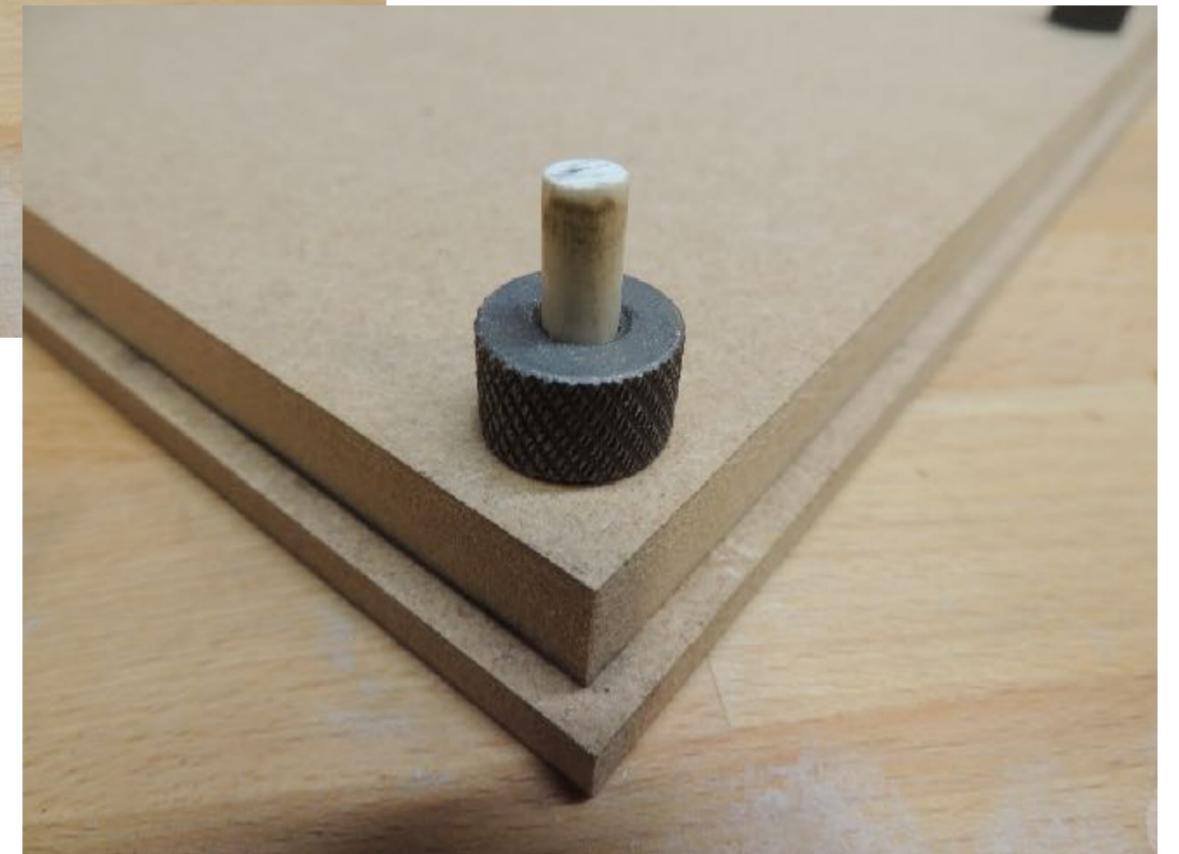
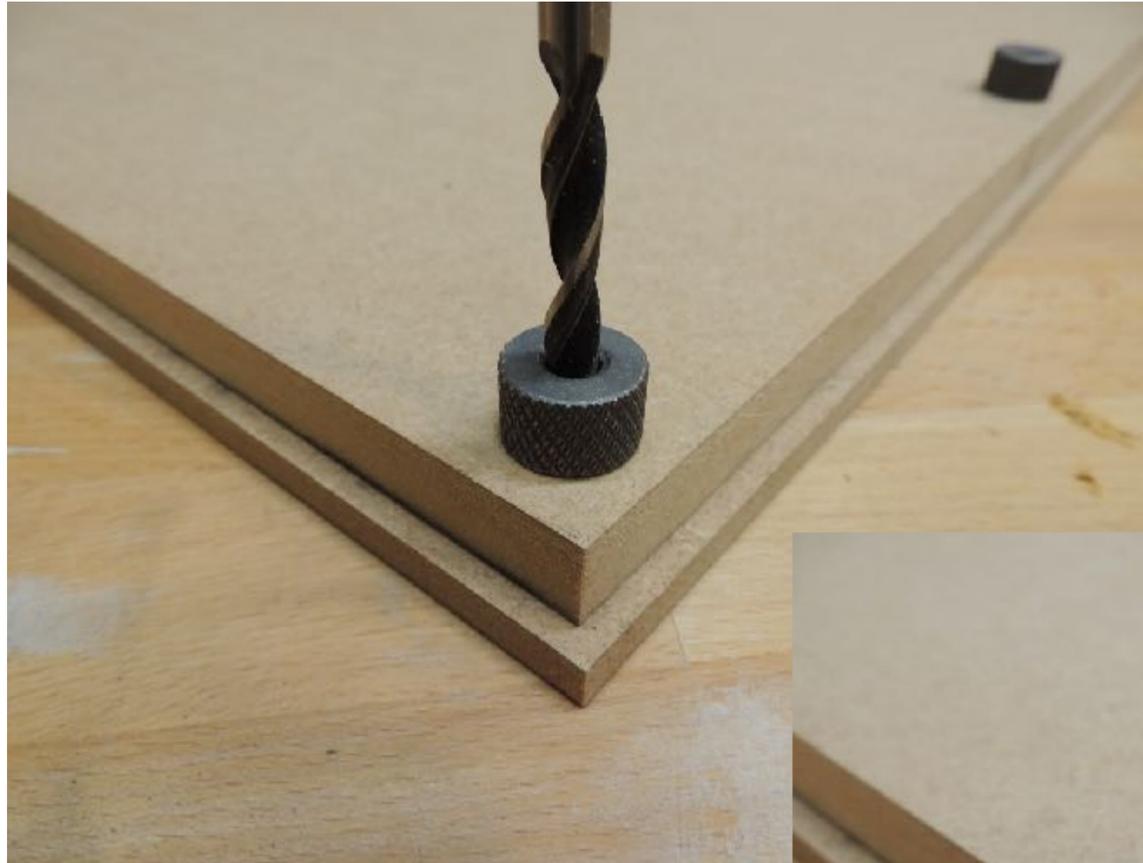
# Cut Tile Over Size

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



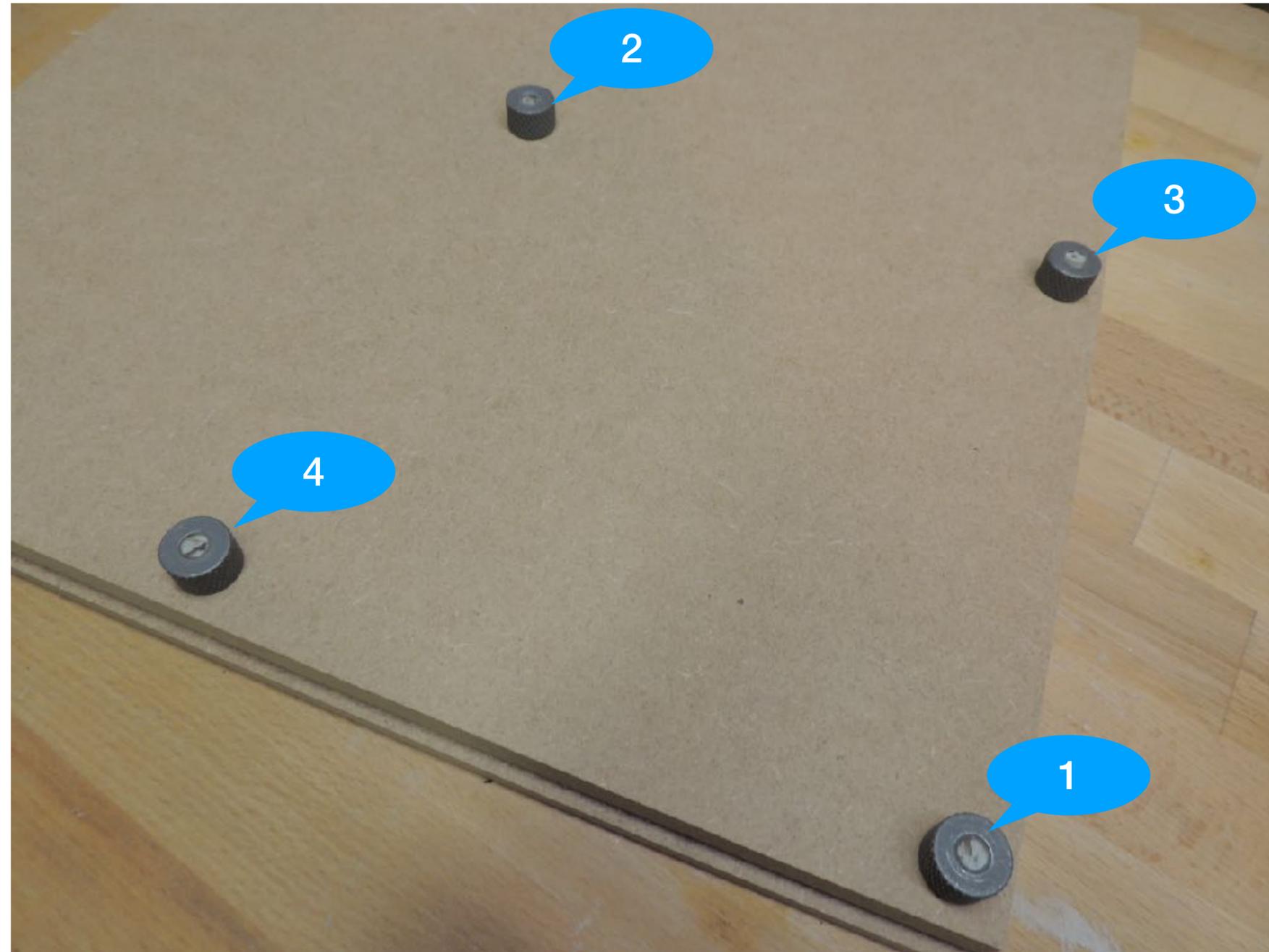
# Position Template & Drill Holes

- 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



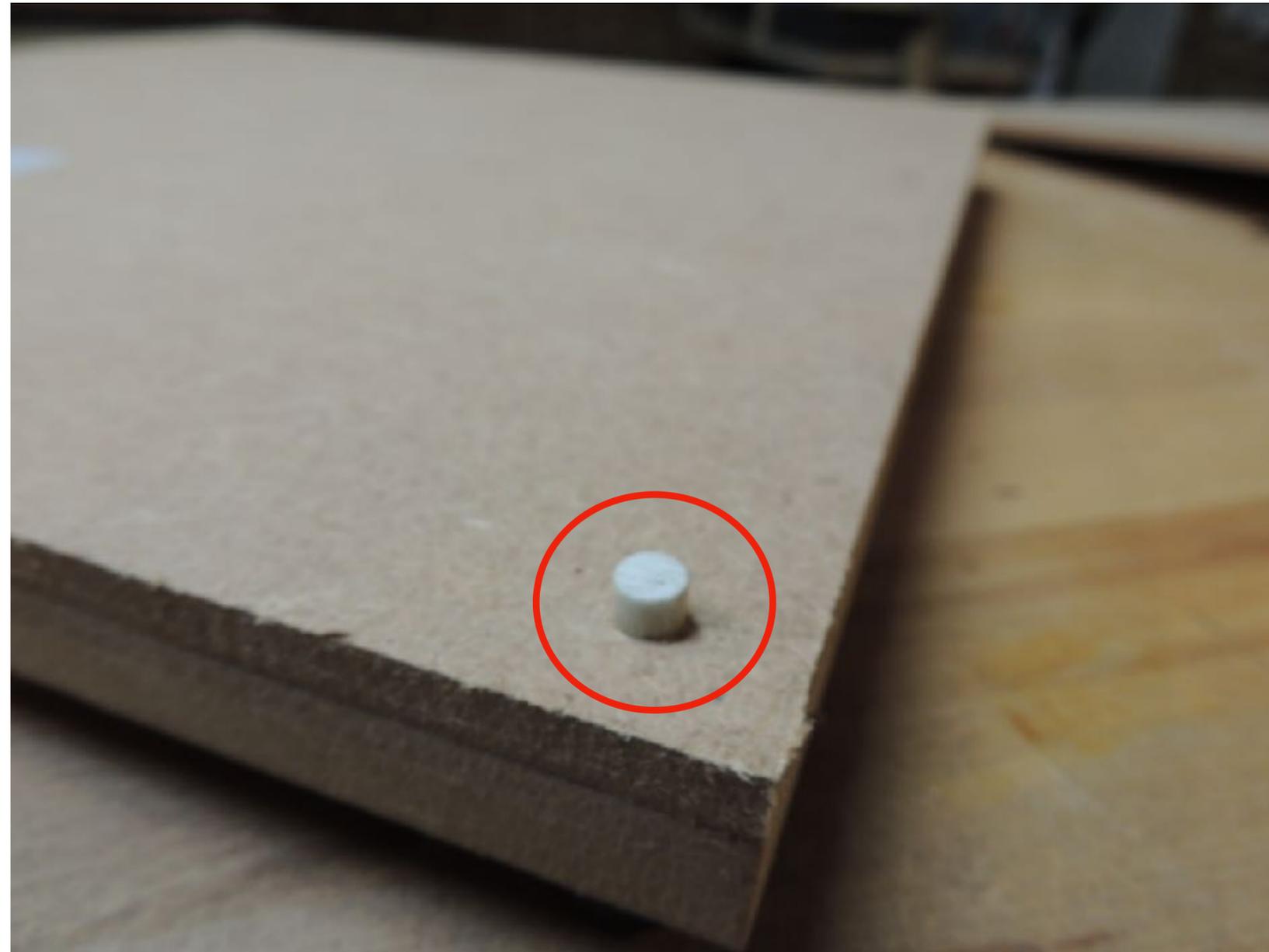
# All Holes Drilled

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



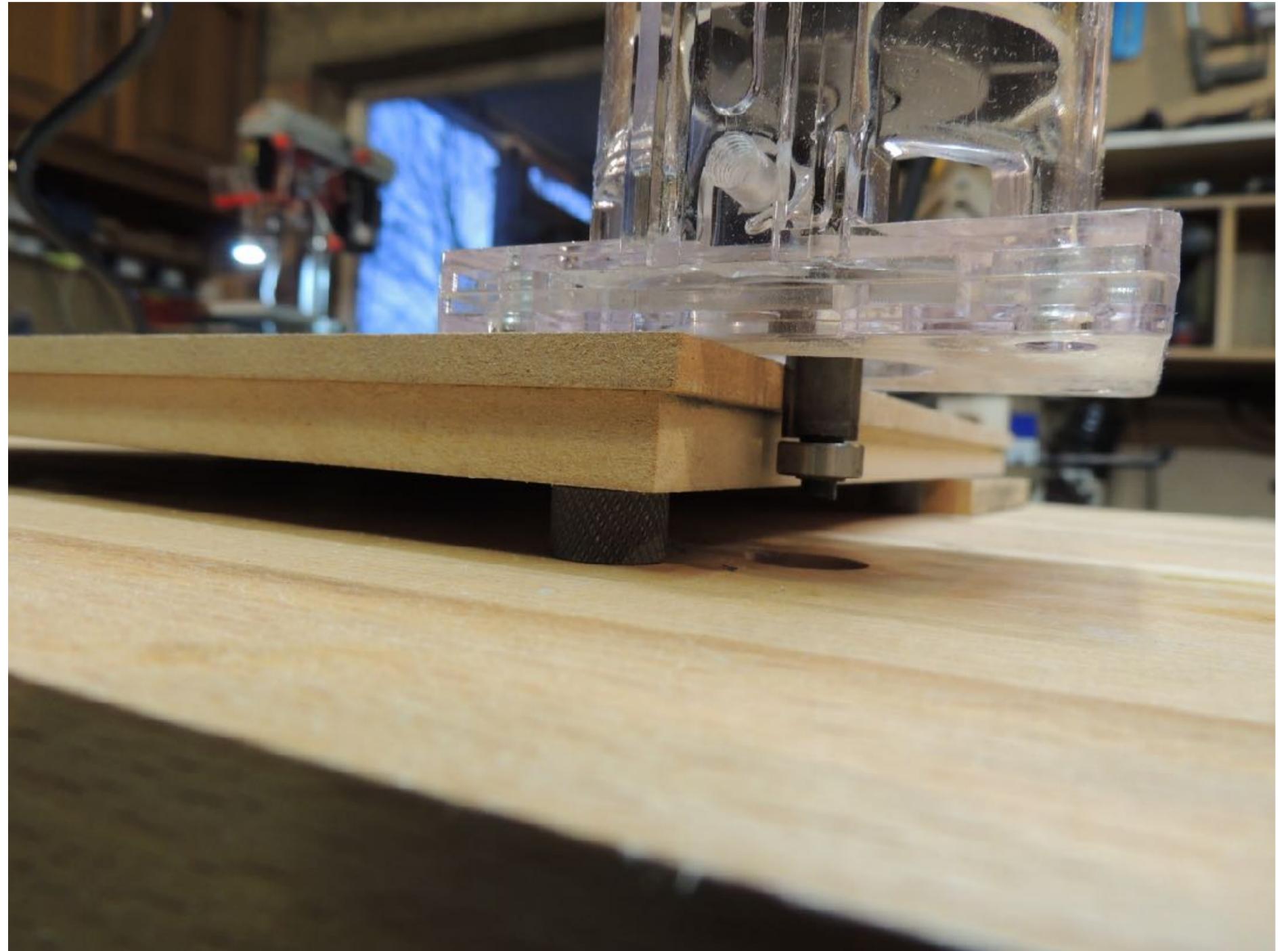
# Turn it Over

- 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



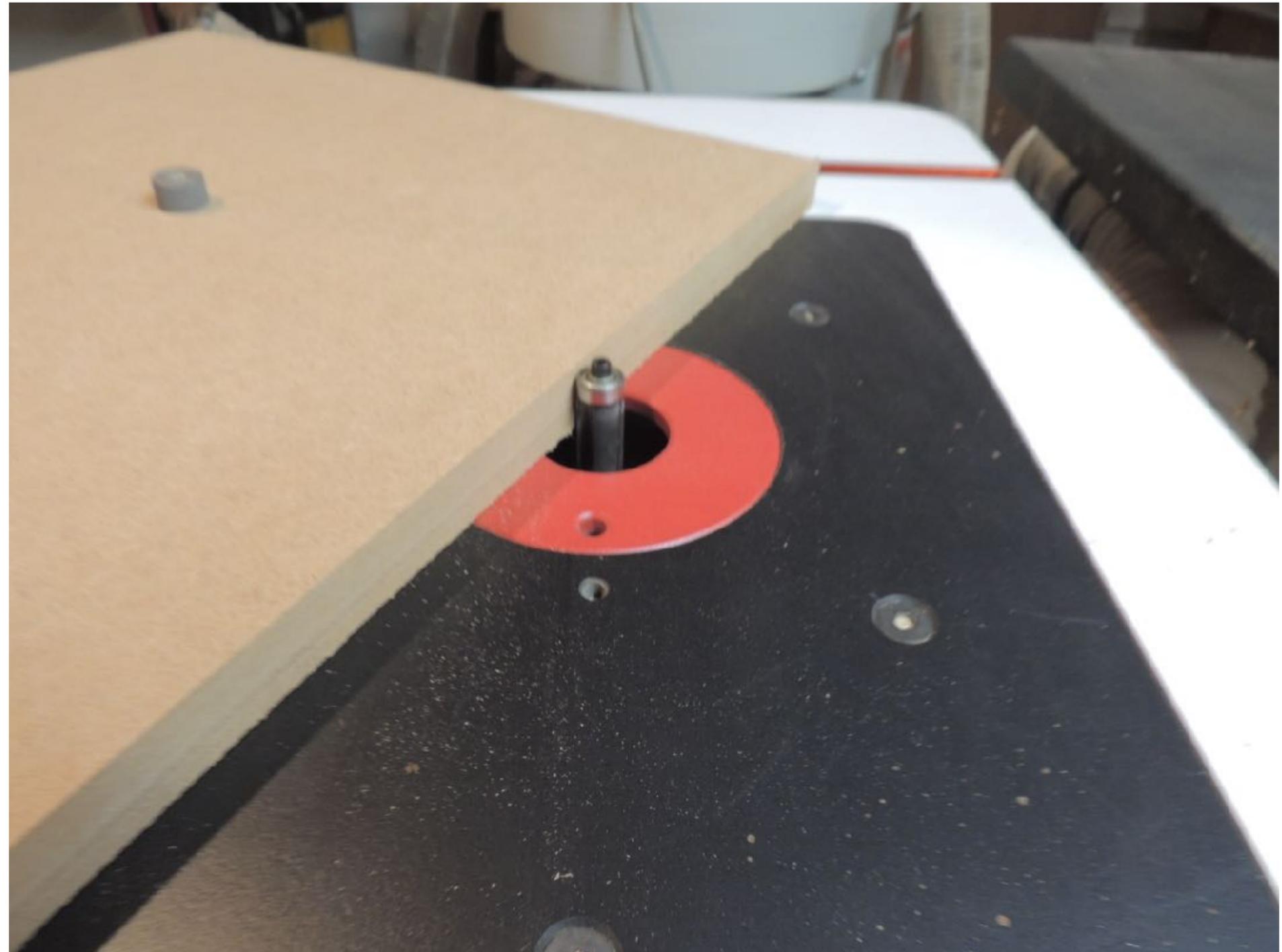
# Finished Tile

- When completed the tile should look like this



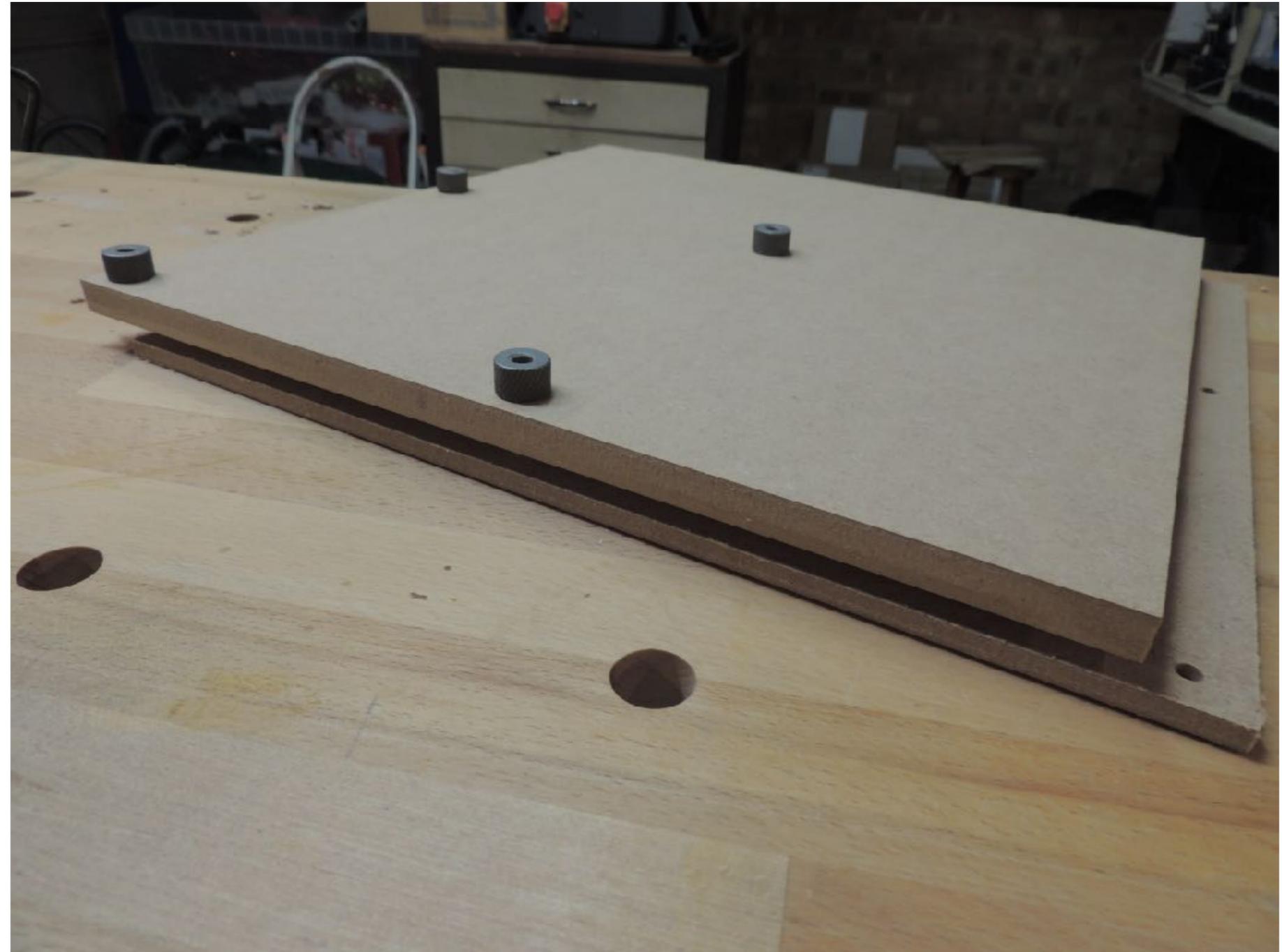
# Alternative Routing

- 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 ?**