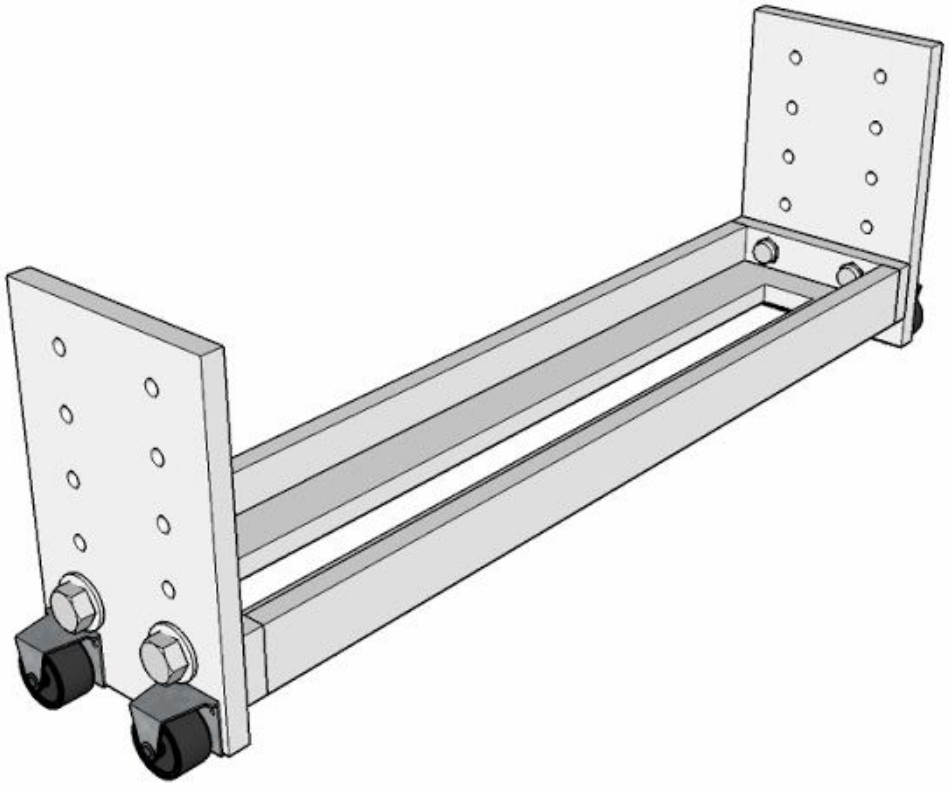
# Router Flattening Sled

This router flattening sled can be used to plane large slabs on your workbench using a router. This sled is designed to plane with the grain for a smoother finish and can also be adjustable in height, depending on the thickness of the slab you are planing. I built this one to fit my workbench and my router, but the dimensions can be modified for your space and router. Check out the corresponding blog post for more instructions and tips for a smooth finish. (links at the end)

*Always practice safety when using power tools and be sure to wear all the proper safety equipment.*



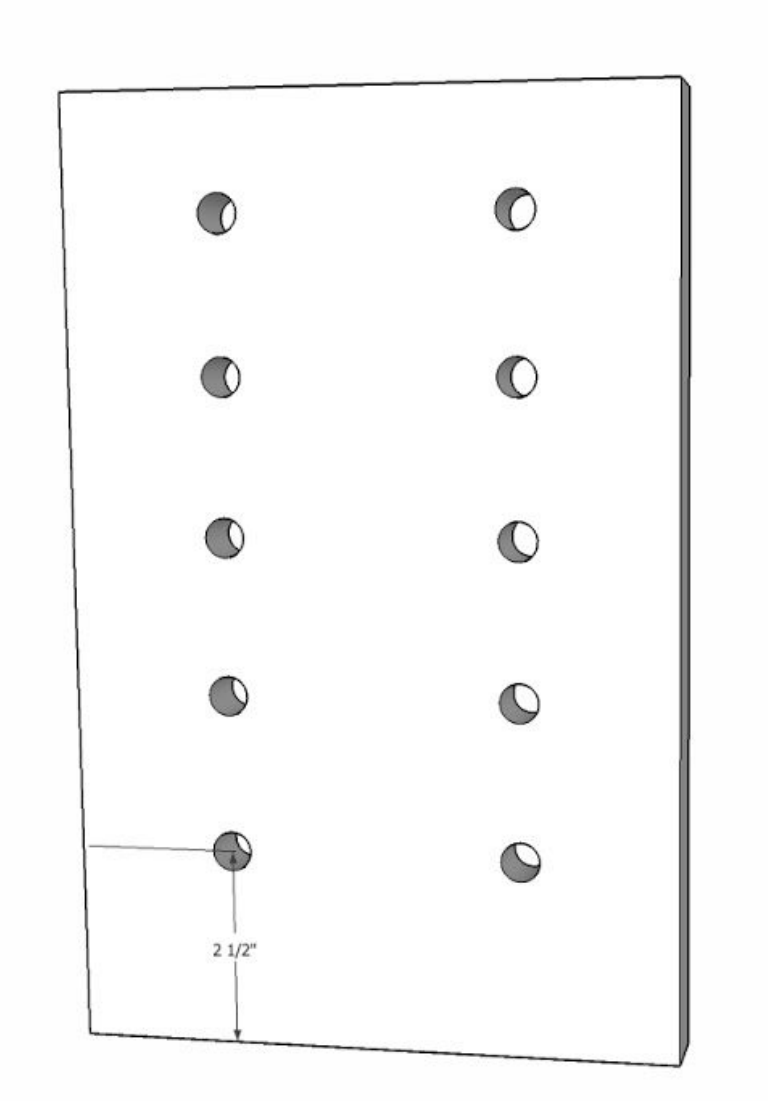
## Material List (links to the products I use are provided)**

| Quantity | Item |
|---|---|
| 1 | 3' x 2' x ¾" plywood |
| 4 | 3" bolts |
| 8 | washers |
| 4 | nuts |
| 4 | Low Profile Casters |
| | 1.5" bottom cleaning router bit |
| | Fixed Base Router |
| | Drill bit large enough for the bolts to fit through |
| | 1.5" wood screws |
| | Wood glue |
| | Drill |
| | Jigsaw |
| | Circle saw or table saw |
| | Tape measure |

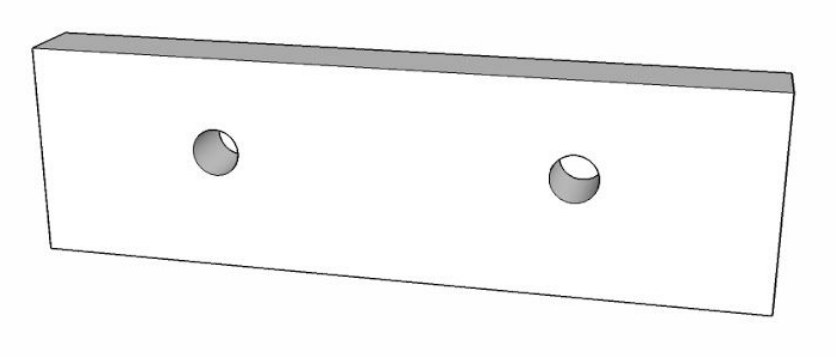
## Cut List:

| Part | Count | Material | Measurement | Notes |
|---|---|---|---|---|
| A | 2 | plywood | 7 ¾" x 12" | Drill parallel holes vertically (see step 1) |
| B | 2 | plywood | 7 ¾" x 3" | Drill 2 holes (see corresponding step) |
| C | 2 | plywood | 33" x 3" | Side rails |
| D | 1 | plywood | 33" x 6 ¼" | The width of this should be the diameter of the base of your router, plus ¼" |

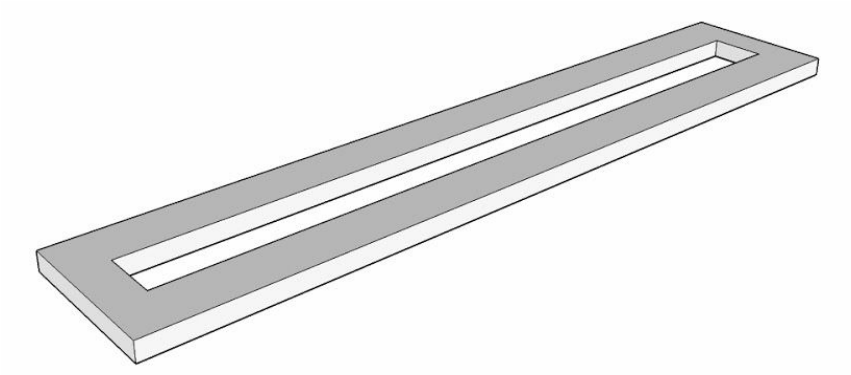
STEP 1: Drill all ½" diameter holes in parts A. Holes should start 2.5" from the bottom. Every two holes should be 2 ¾" apart horizontally and 2" in between them vertically. I found it easiest to clamp two parts A together and drill them at the same time. This will ensure that the holes are level with each other. You will make two of these.



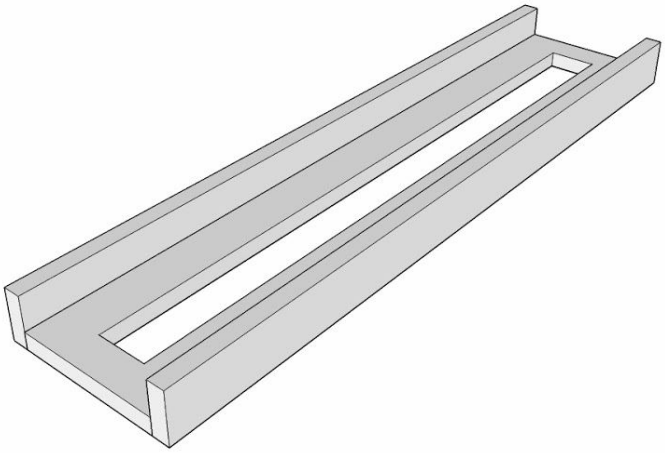
STEP 2: Drill two ½" diameter holes in parts B. Holes should be the same distance apart as what you drilled in step 1. I found it easiest to clamp two parts B together and drill them at the same time. You will make two of these.



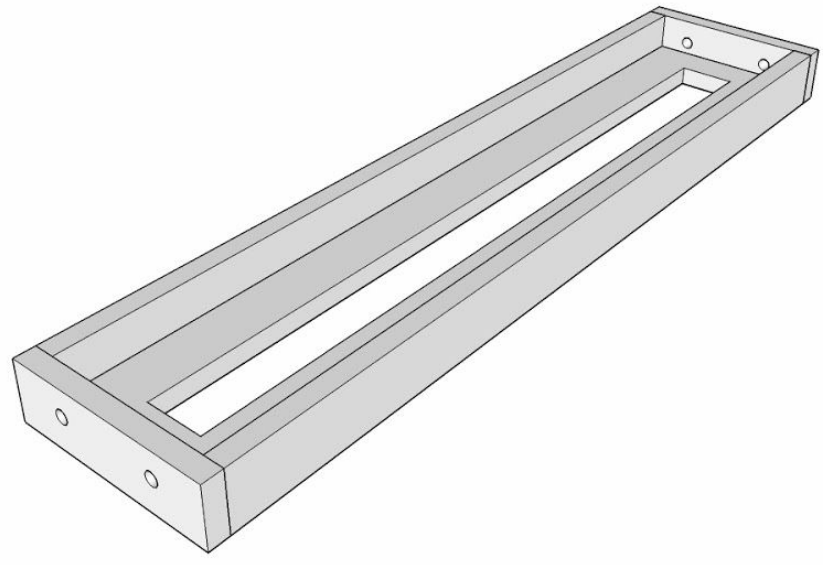
STEP 3: Cut out a rectangle inside Part D. This should be inset 2 ¾" on all sides. Start by drilling a hole, then use a jigsaw to cut the middle out. **The width of this should be wide enough for your drill bit to fit through.**



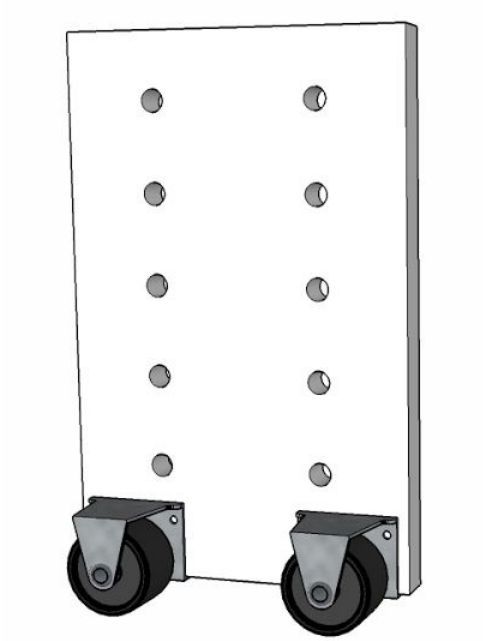
STEP 4: Attach parts C to part D using wood glue and screws. Pre-drill your holes to prevent splitting.



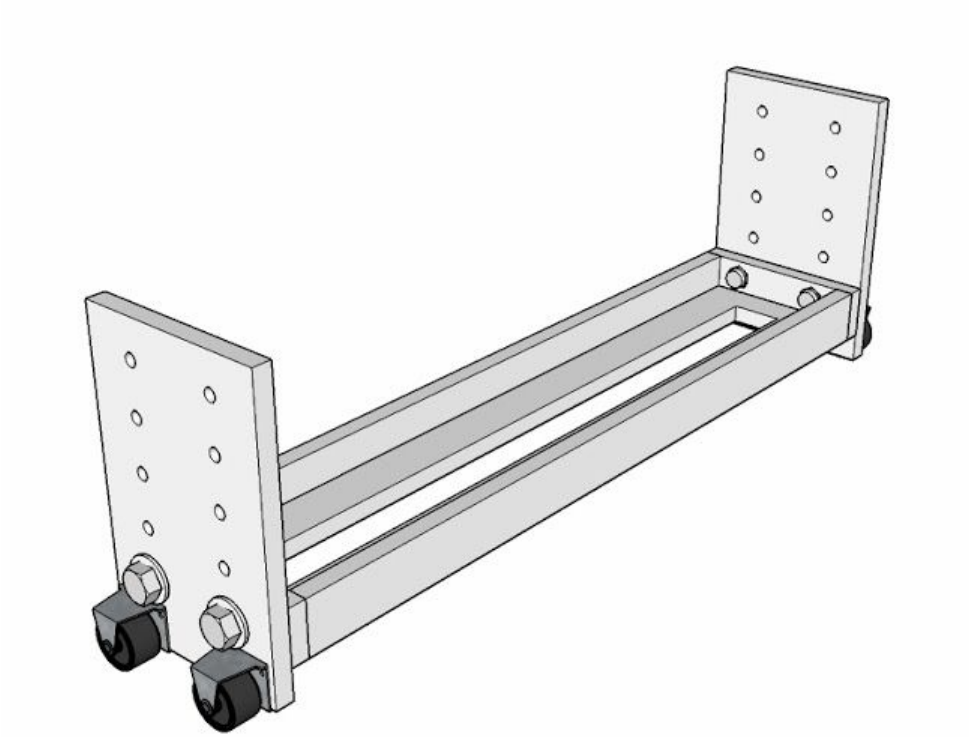
STEP 5: Attach parts B to the ends of what you made in step 4 using wood glue and screws. Pre-drill your holes to prevent splitting.



STEP 6: Install the casters to the underside of both parts A.



STEP 7: Attach part A to the sled using the nuts, bolts, and washers.



The corresponding blog post can be found here. If you build this, tag me on instagram (@theaccentpiece) so I can share your build! For feedback on this plan, email me at theaccentpiece@gmail.com.

***this plan contains affiliate links*

**Find me on the socials:**
TheAccentPiece.com
Instagram: @TheAccentPiece
facebook.com/TheAccentPiece