Easy to assemble bench design for two people to make and sit on together. Using indigenous wood, this bench is affordable and all materials can be easily sourced at your local hardware store. This simple DIY project requires only basic joinery skills and is suitable for the highly practical and less technical person alike. For ease of use, I have designed this bench to require the timber to be cut to only two different lengths, using a total of 21 pieces of wood. All in all, the bench uses 32 5.0x70mm screws, 15.5 meters of red pine and, at the time of its original construction in the UK, costed £10.21 per person. Whether my design is followed or adapted to fit specific needs, I would like the DIY ethos to be shared. The main objective when designing this work was to create a piece of furniture you can sit on and be pleased with after constructing it yourself.

## Step one: Gather

1. Lay out your drill, wood, countersink, sandpaper, glue, tri square, screws and pencil on a workbench in front of you.

2. If your wood is not yet cut to dimensions, using a pencil and ruler mark out 500mm on the first length of wood.

3. Place the tri-square against the edge of the wood in line with the pencil mark and scribe the line across the width of the wood. Repeat this process until you have ten 500mm lengths.

4. Using a pencil and a ruler mark out 1000mm on a length of wood.

5. Place the tri-square against the edge of the wood in line with the pencil mark and scribe the line across the width of the wood. Repeat this process until you have nine lengths of 1000mm.

6. Carefully cut along each pencil line you have drawn on all of this wood using a saw. You will need a really straight line so, a chop saw, paneľ saw or pillar saw are perfect for this.

7. Sand down the edges to remove splinters. Afterwards, separate the wood so that in front of you, you have two piles; one of ten pieces of wood at 500mm and the other with nine pieces of wood at 1000mm. A total of 21 pieces.

## TOOL LIST

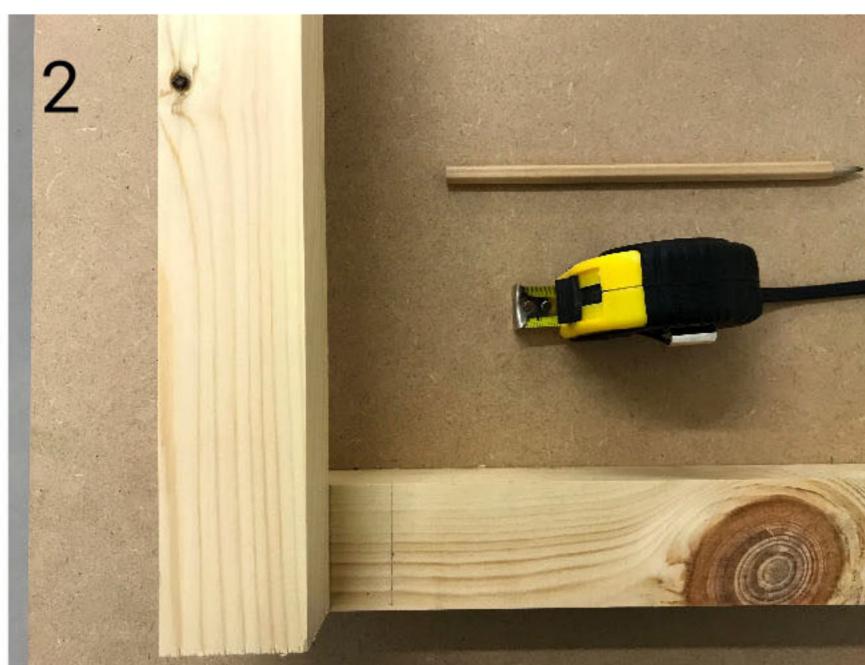
- -cordless drill
- -countersink -sandpaper (180 grit good)
- -tri square
- -wood glue
- -tape measure
- -sharp pencil
- =band saw, chop saw or panel saw
- -32 5.0x70mm screws
- -crosshead screwdriver
- -4mm drill bit



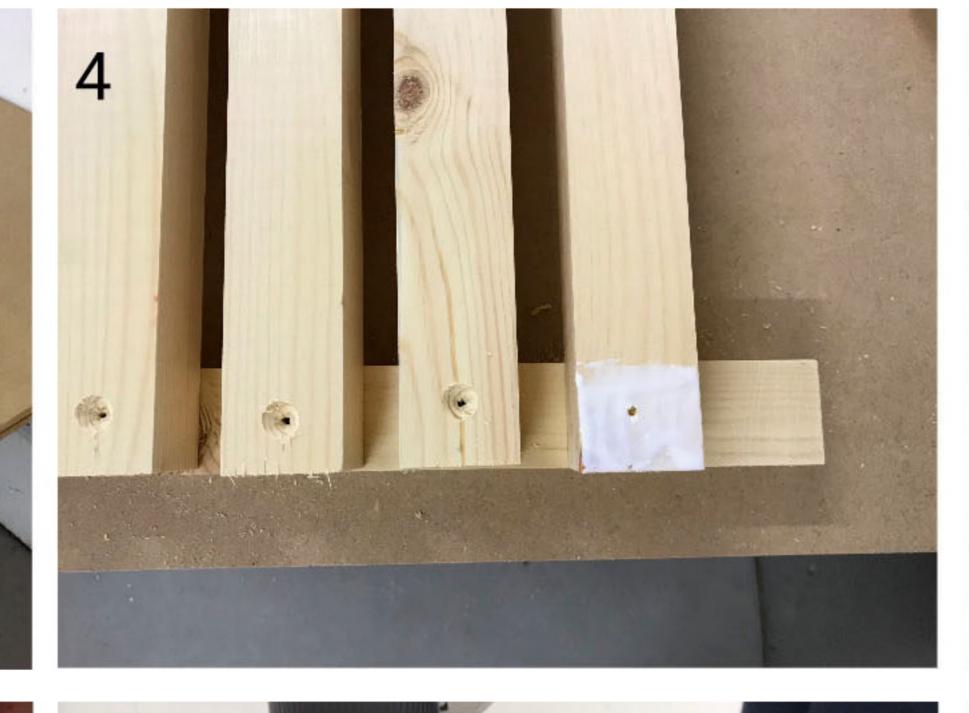
- -legs 4 X @ 500mm x 45mm x 45mm
- -upright back 4 X @ 500mm x 45mm X 45mm -seat slats 8 X @ 1000mm X 45mm X 45mm
- -top back slat 1 X @ 1000mm X 45mm X 45mm -seat support 2 X @ 500mm x 45mm x 45mm
- -leg support 2 X @ 500mm x 45mm x 45mm















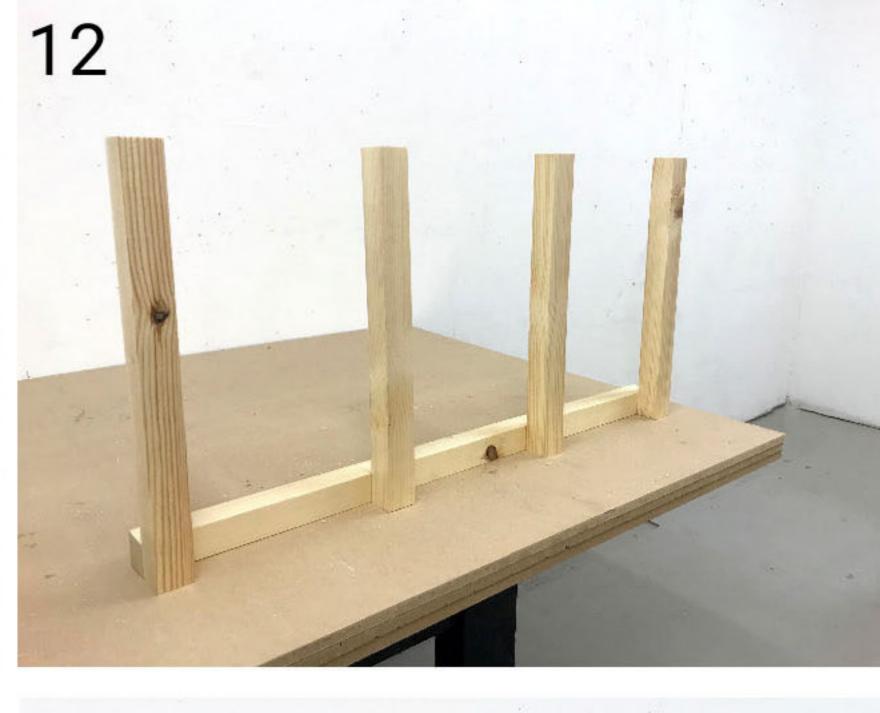


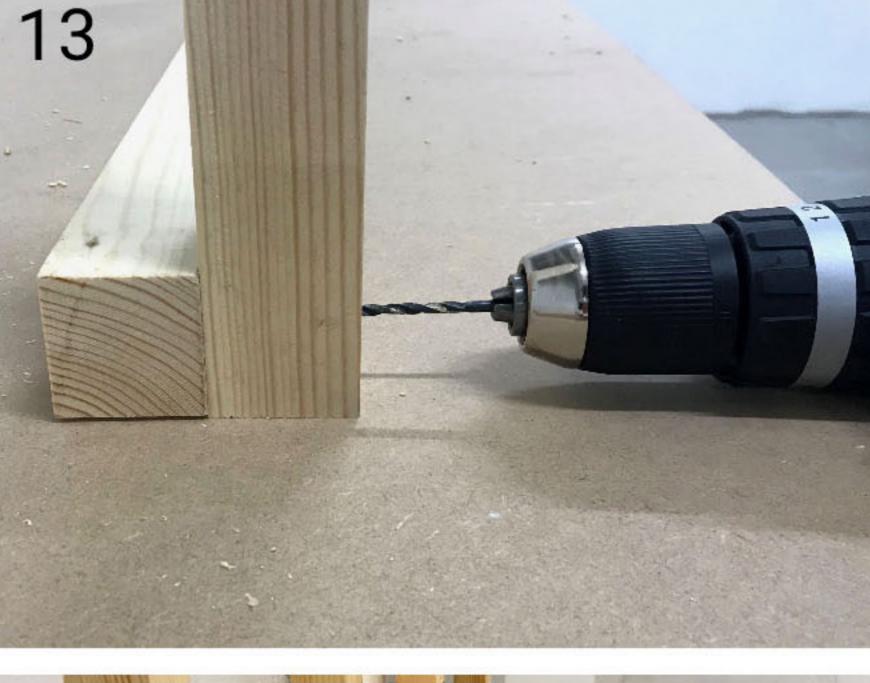


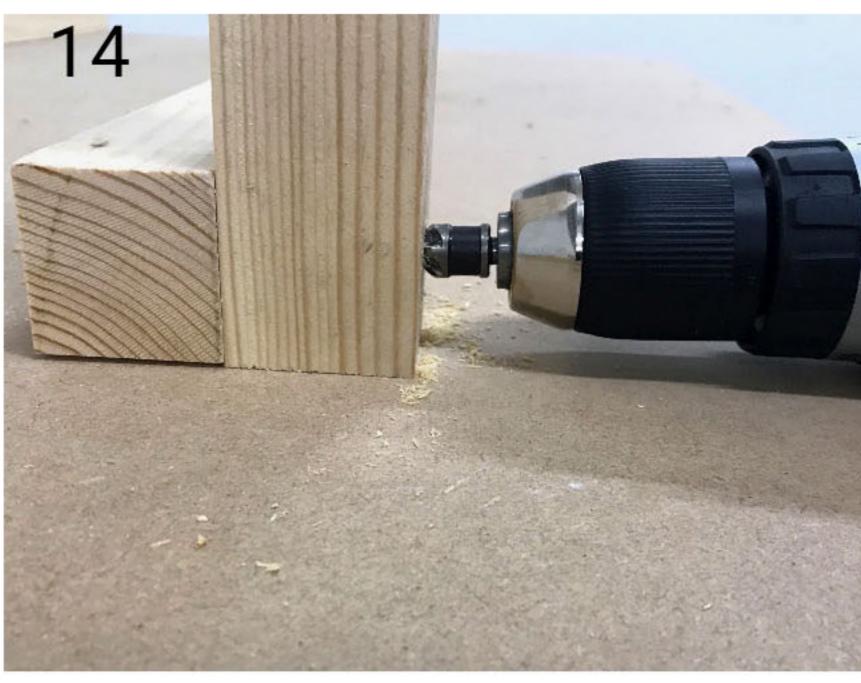


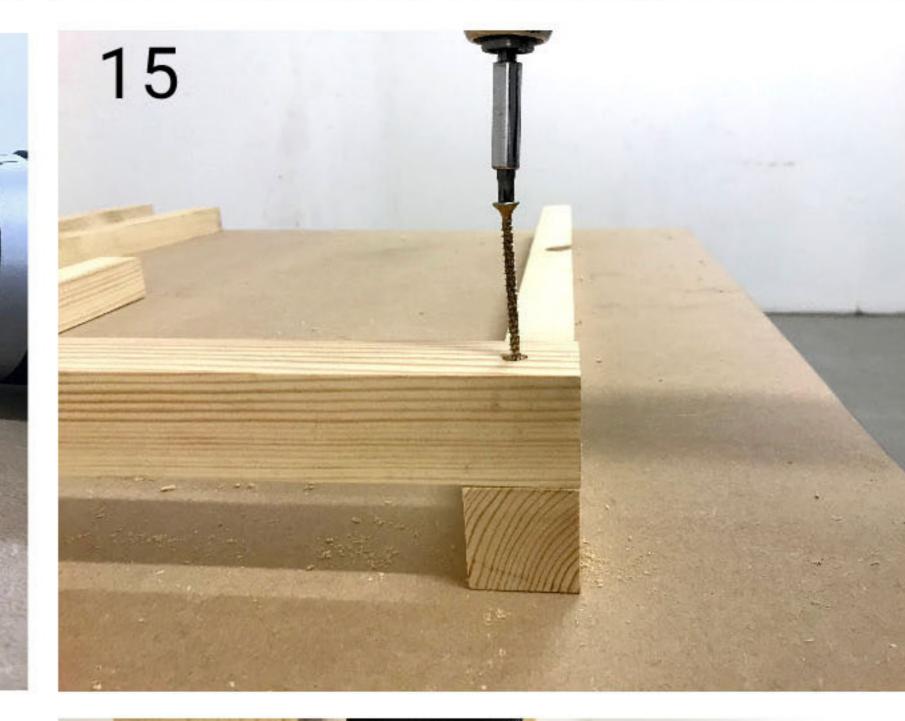








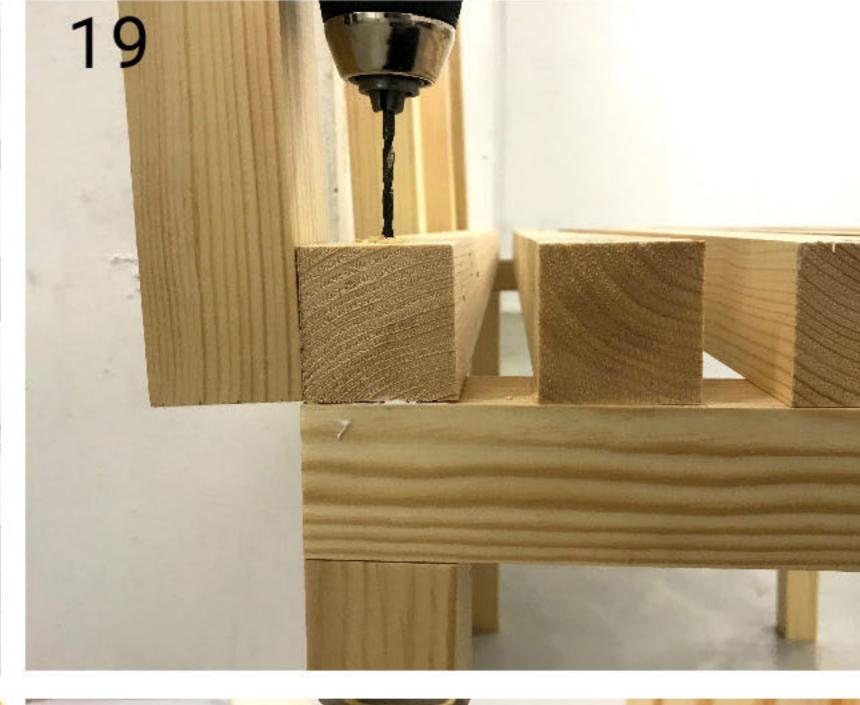


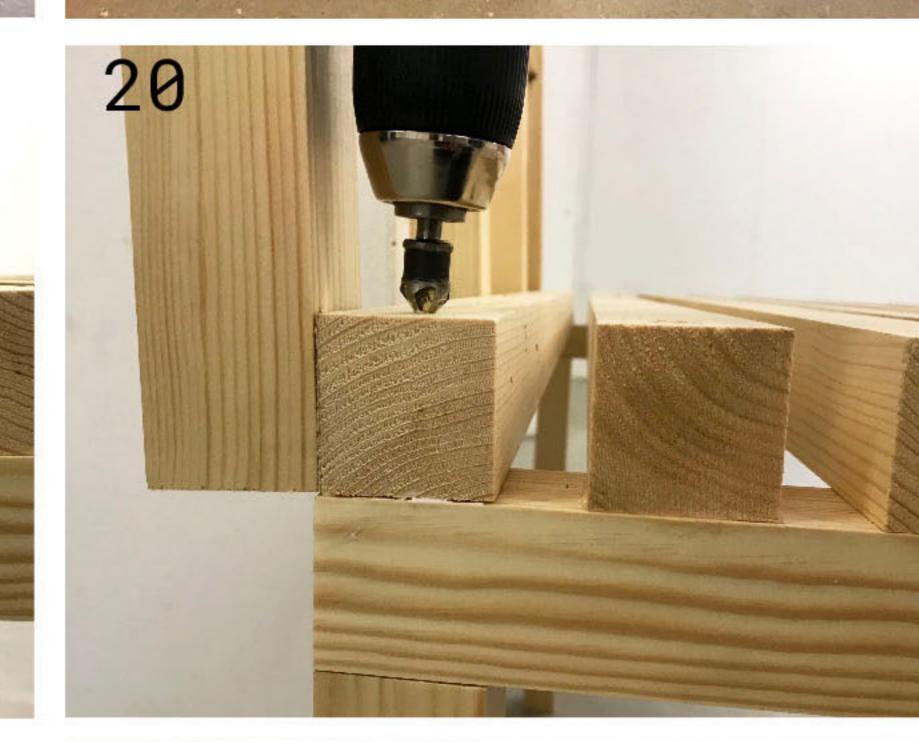








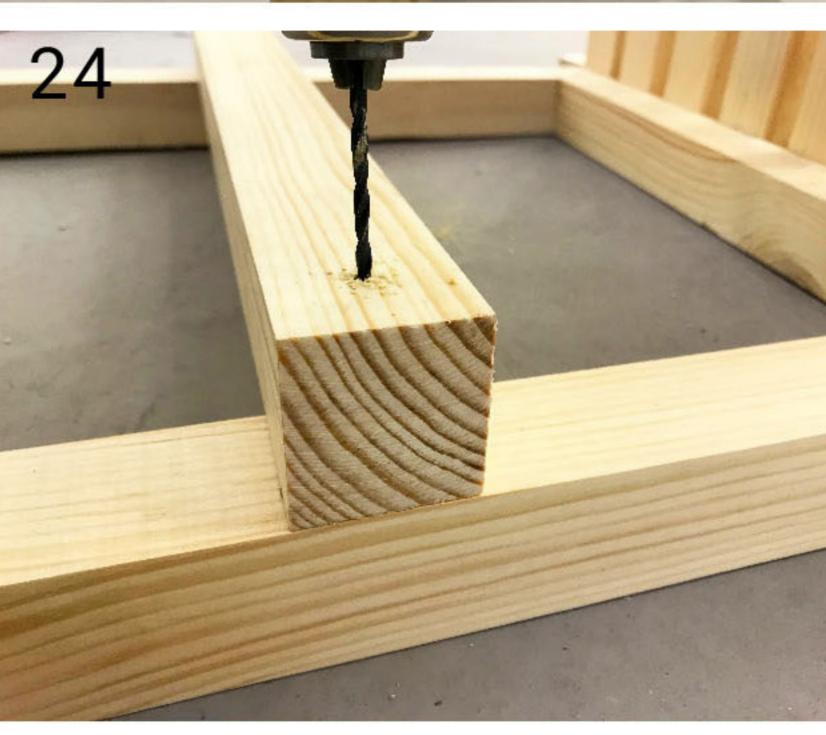














## Step 2: Construct

- 1. Place two 500mm lengths and position two 1000mm lengths on top, as pictured.
- 2. With a sharp pencil, mark a 20mm gap, leaving 45mm in between for each seat slat. Repeat seven times.
- 3. Place the 1000mm lengths in the 45mm spaces you have just marked, leaving out the first and last slat. 4. Mark the centre of the width of each seat slat at 22.5mm. Drill, countersink and glue all six pieces.
- 5. Screw each slat in to your 500mm length.
- 6. Position the legs using four lengths of 500mm.
- 7. Using a tri sqaure, check each leg is at a right angle.
- 8. Drill, countersink, glue and screw each leg.
- 9. Now attach the front seat slat. Drill, countersink, glue and screw. 10.In front of you, you now have seven seat slats attached to the legs of your bench.
- 11. The back of the bench will be built as a unit and attached afterwards. Place a length on its corner. There is a 274mm gap in between each back beam. Using a pencil and a ruler, mark this out.
- 12. Position each back beam in the spaces you have just marked out.
- 13. Drill and glue each beam into the 1000mm length.
- 14. Countersink each pilot hole.
- 15. Screw in each back beam.
- 16. Place your final 1000mm length on top of each back beam and drill, countersink, glue and screw it in.
- 17. This is your back unit. 18. Place the back unit where the final seat slat would sit [20mm from the last seat slat]
- 19. Drill each end of the 1000mm length, just as in step eight.
- 20. Countersink each hole.
- 21. Glue and screw the back unit into the main bench structure. 22. You will use the two remaining 500mm lenghts to stabilise your bench.
- 23. Using a sharp pencil and a ruler, mark 22mm from the bottom of each leg and place the piece of wood across the lines you have measured.
- 24. Drill, countersink, glue and screw each supporting beam. 25. This is your bench. With your partner, move it somewhere you both enjoy spending time. Sit down.