

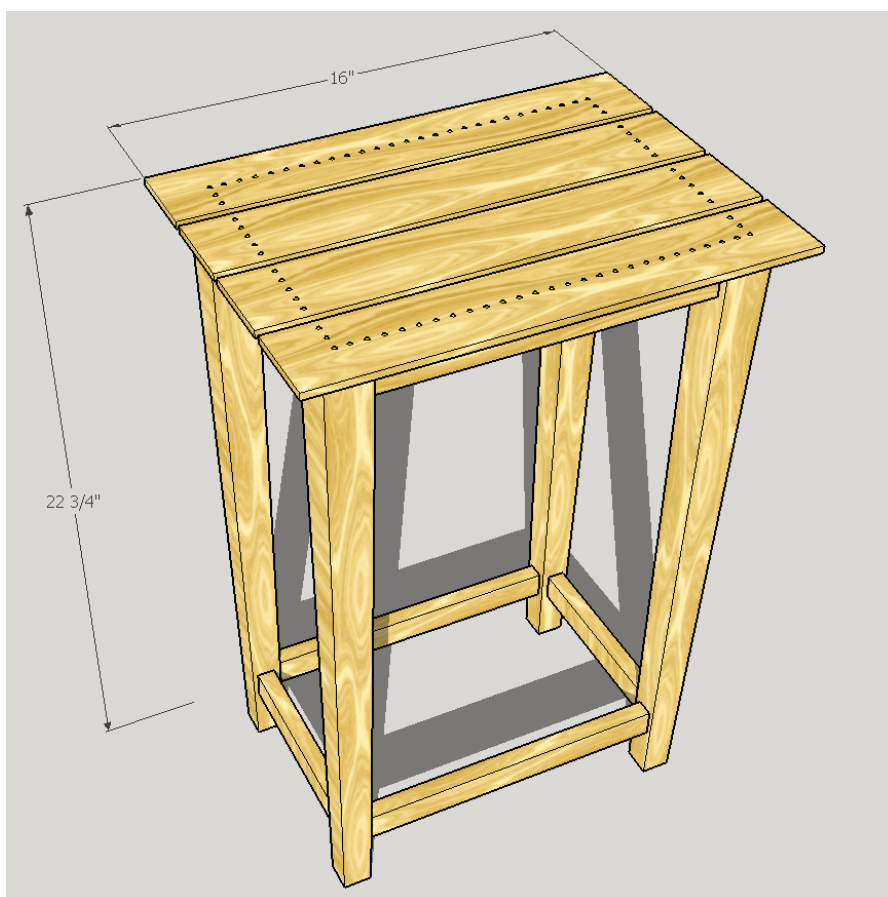


ChapnellMakes

IGBC Mini Challenge End Table

Version 2 – July 2017 – Mark Chapnell

Beginner Skill Level Project



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Introduction

This set of plans will show you how to build the basic table for the IGBC Mini Challenge 2017. The plans can be modified as you please, in fact that's the beauty of the contest.

The plans are designed so that the table can be built using a single 2" x 4" x 96" from Home Depot. Any 8' 2" x 4" can be used, just be aware that the finished size may vary and therefore you may need to alter the measurements slightly to suit. The finished size of a Home Depot 2" x 4" is 1.5" x 3.5" x 96". You will be using almost all the 2" x 4" so be picky when selecting yours to find one that is nice and straight and doesn't contain any large knots or defects.

Here is a link to the exact one selected for this design: <http://www.homedepot.com/p/2-in-x-4-in-x-96-in-Premium-Kiln-Dried-Whitewood-Stud-161640/202091220>

Also throughout the plans are suggestions for alternatives if you do not have the ability or aren't confident enough to do some of the more advanced cuts such as re-sawing or tapering.

These plans are aimed at a beginner to intermediate level woodworker and rely on you having experience in the methods mentioned or the ability to research them on YouTube and repeat them. The plans are not intended as a full tutorial. Chapnell Makes accepts no responsibility for your safety when building the project in these plans. You are responsible for your own safety and should ensure you read and follow all safety instructions provided with any power tools you use.

Materials

Quantity	Material
1	2" x 4" x 96"
30 Approx.	1" Coarse Thread Pocket Screws
6 oz. Approx.	#18 x 3/4" Brass Escutcheon Pins

Wood Glue

Finish of your choice

Recommended Tools and Techniques Required

Table Saw or Band Saw for ripping and re-sawing

Table Saw or Circular with Tapering Jig for Tapering the legs

Mitre Saw or Circular Saw for cross cutting

Kreg Jig or another brand of pocket hole jig

Cordless Drill / Driver with suitable drill and drive bits for pocket hole jig

Hammer

Sander



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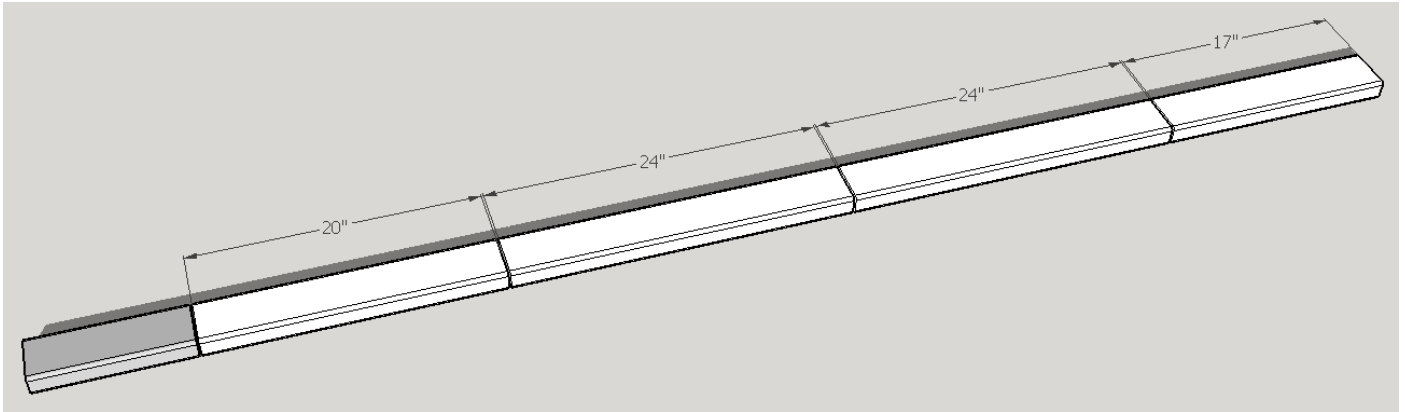
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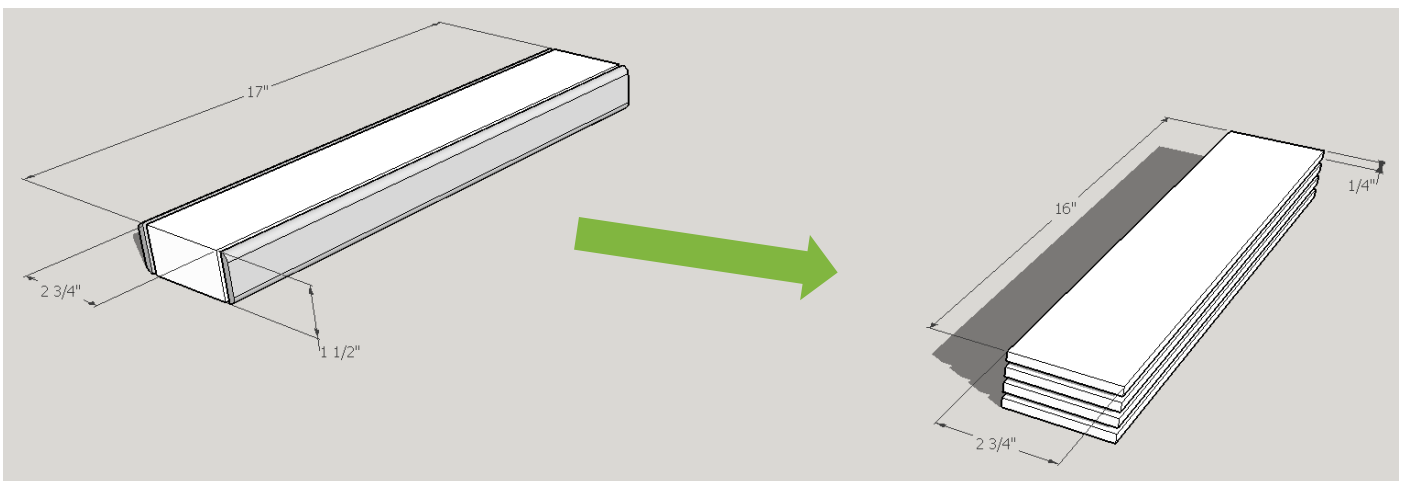
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Rough Cutting

Start by rough cutting the board to lengths of 17", 24", 24" and 20"



- Rip off the rounded edges of the 17" piece, leaving a piece that is 17" x 2 3/4" x 1 1/2"
- Re-saw this board into 4 boards each 1/4" thick (If you are not able to re-saw then substitute these boards for a 1 x 4 and continue with the next step)
- Cross cut these boards to their final length of 16"
- Sand the boards then break the edges with sandpaper



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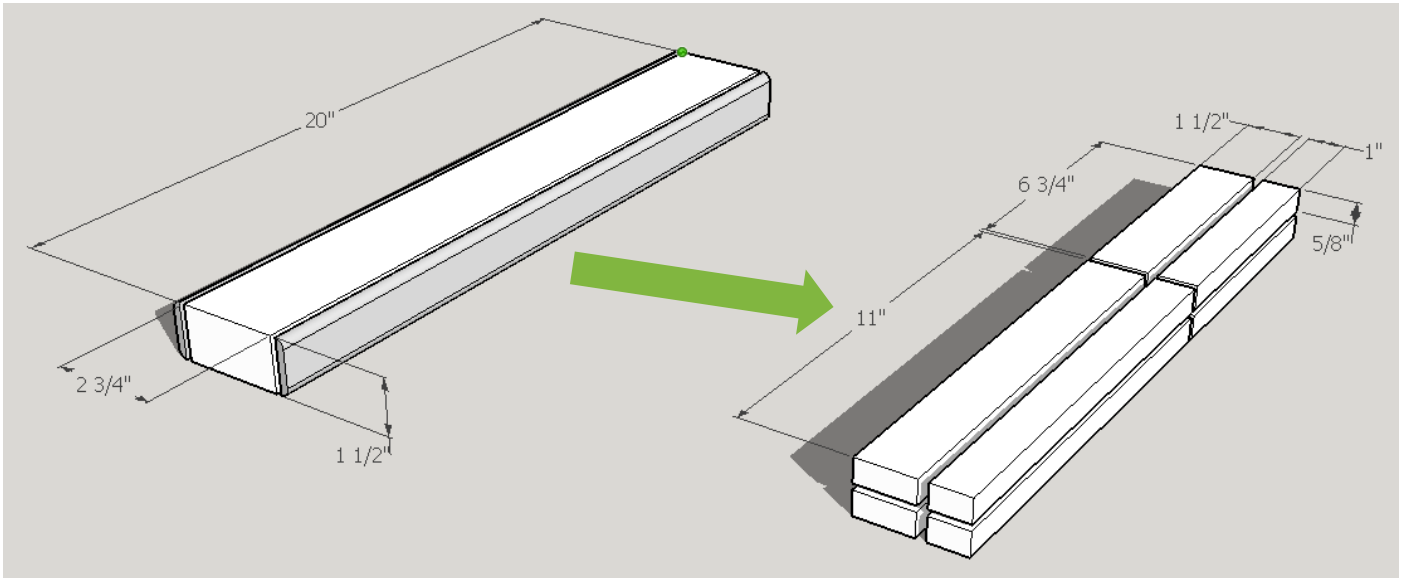
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- Take the 20" piece, rip off the rounded edges leaving a board that is 20" x 2 3/4" x 1 1/2"
- Rip this board into a 1" strip and a 1 1/2" strip
- Re-saw these 2 strips to a thickness of 5/8" (If you are unable to re-saw then substitute with a 1 x 4)
- Cross cut these strips leaving 2 pieces each of 1" x 5/8" x 11", 1 1/2" x 5/8" x 11", 1" x 5/8" x 6 3/4", 1 1/2" x 5/8" x 6 3/4"
- Sand the boards and then break the edges with sandpaper



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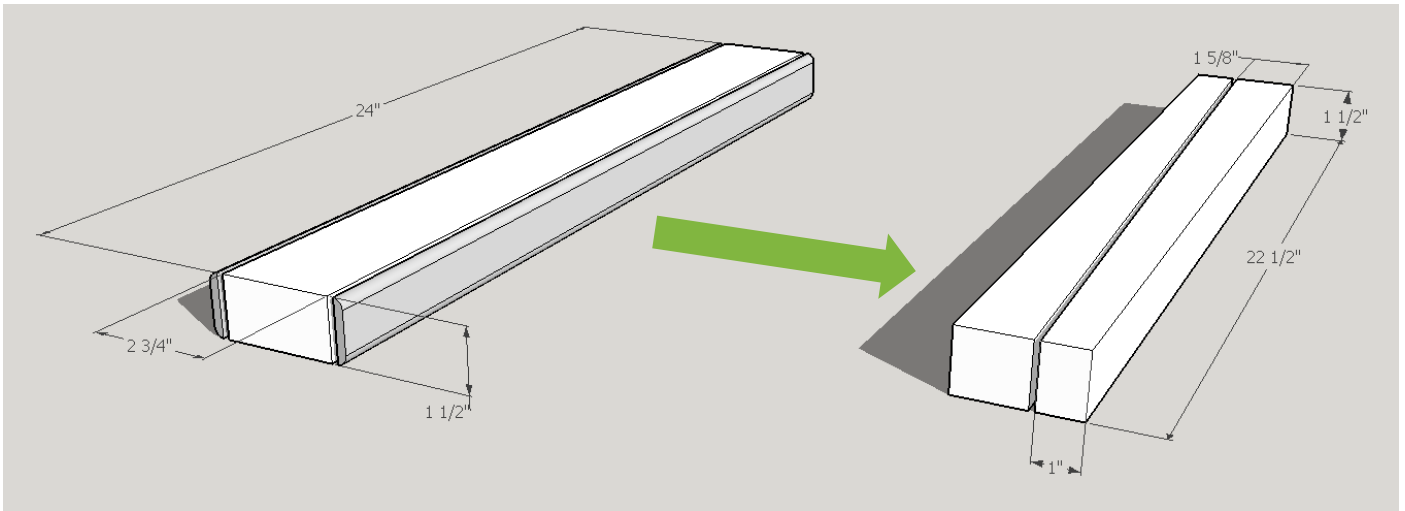
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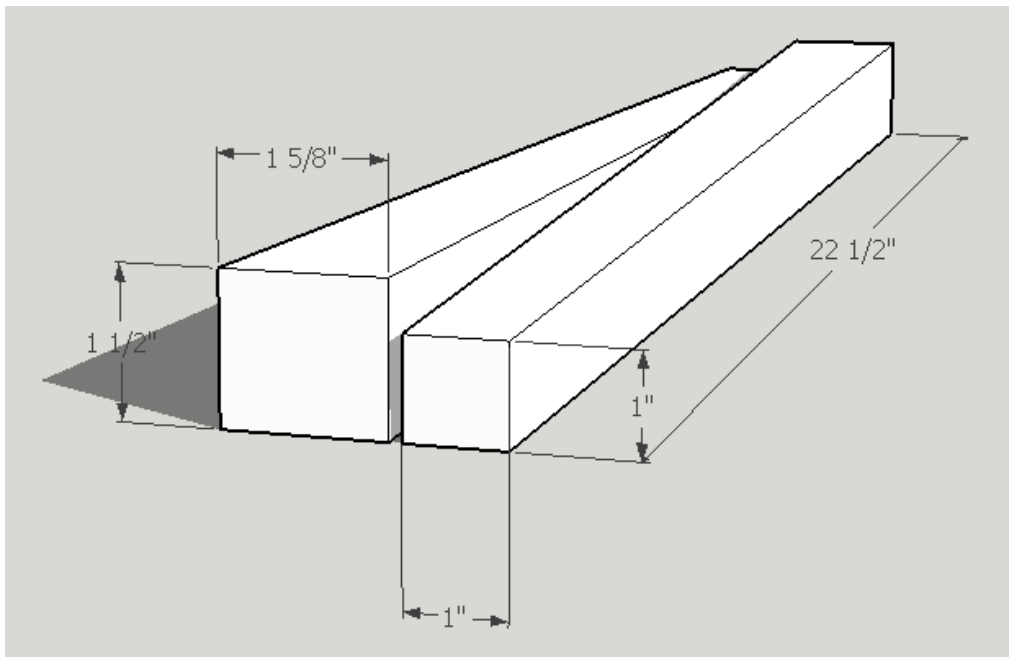
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- For each of the 24" pieces, rip off the rounded edges leaving boards that are 24" x 2 3/4" x 1 1/2"
- These 2 boards should then be cross cut to their final length of 22 1/2"
- The boards then need to be ripped diagonally leaving 4 boards that are 22 1/2" long, 1 1/2" thick and where the width at one end is 1 5/8" and the other end is 1" (The diagonal taper cut is quite advanced, if you are unable to do it then rip the boards straight in half or substitute for 2 x 2)



- Rotate the pieces and cut the second part of the taper, leaving boards with dimensions as shown in the image below
- Sand the pieces and then break the edges with sandpaper



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- Assemble the legs and stretchers using glue and pocket screws on the inner faces
- Then layout the boards for the top with equal overhang on the sides and ends, and with equal ¼" spacing between them
- Secure the top to the stretchers using the brass nails (If you have substituted the re-sawn boards for 1 x 4 then you will need to use longer nails to suit your material). Make a perimeter of these nails evenly spaced around the top of the table. Leave the nails a hair proud of the surface and be very careful not to dent the top with the hammer. If you do accidentally dent the surface, you may be able to repair it by dampening the wood with a wet rag to raise the grain, allow it to dry and then sand smooth.
- Apply your chosen finish. Don't worry if you get it on the heads of the nails, this is part of the reason they were left proud.
- Sand the nails flush with the surface to remove any finish from them and leave the brass heads as a feature.
- Your table is now complete.

If you have any further questions about the plans or would like to provide feedback on them, please contact me on any of the contact details shown in the page footer.

I would also love to see any finished product made using this design so please feel free to email me photos. If you are sharing photos on Facebook or Instagram please remember to tag my accounts in the picture and credit me with the design as per the copyright terms in the page footer.



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