



Eco Office Bookshelf

Free Plans to build a large office bookshelf



Materials and Tools:

MATERIALS:

- 1 - Sheet 3/4" PureBond Hardwood Plywood (available at The Home Depot)
- 2 - 1x2 @ 6 feet long (optional, see step 6)
- 3 - 25' long rolls Edge Banding, in matching wood grain
- 2" screws
- 1 1/4" pocket hole screws
- Wood Glue
- Wood Filler
- Wood Conditioner

Tools:

- Measuring Tape
- Square
- Pencil
- Safety Glasses
- Hearing Protection
- Kreg Jig™
- Drill
- Circular Saw
- Sander
- Countersink Drill Bit

Cut List:

- 2 - 1x17 @ 48" (Top/Bottom)
- 1 - 1x17 @ 34 1/2" (Shelf)
- 2 - 1x17 @ 25" (Ends)
- 2 - 1x12 @ 25" (Small Bookshelf Sides)
- 1 - 1x12 @ 12" (Small Bookshelf Shelf)
- 2 - 1x2 @ 45"
- 2 - 1x2 @ 15 1/2"





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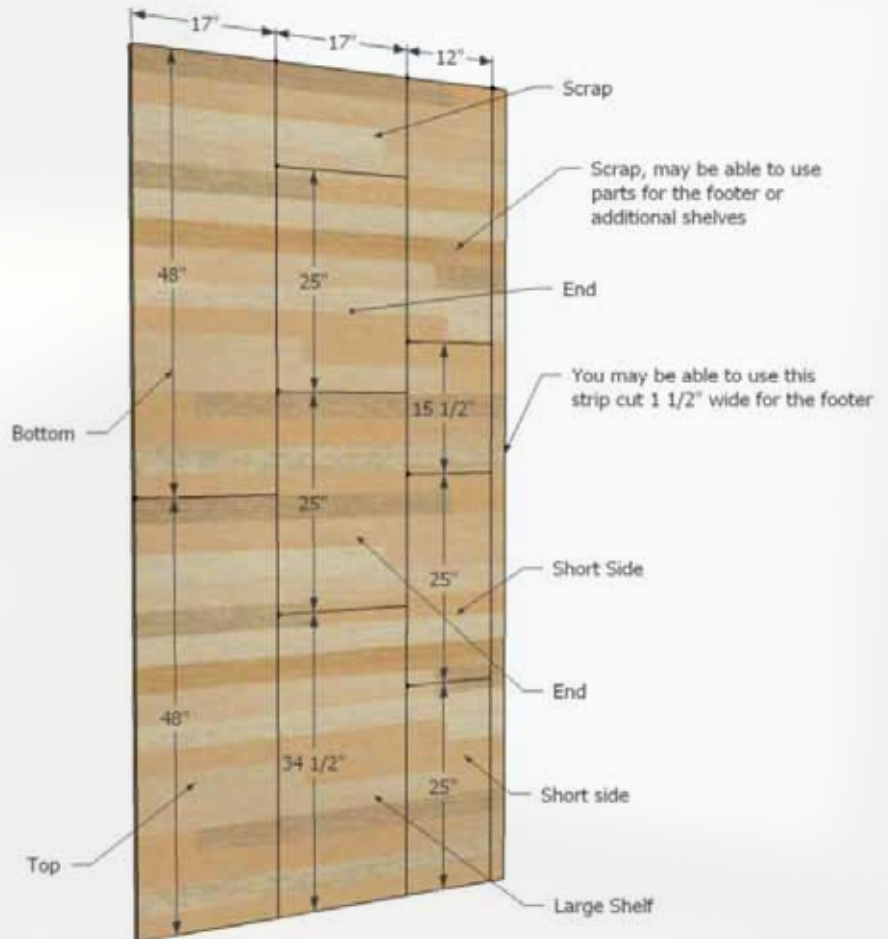
General Instructions:

Please read through the entire plan and all comments before beginning this project. It is also advisable to review the Getting Started Section. Take all necessary precautions to build safely and smartly. Work on a clean level surface, free of imperfections or debris. Always use straight boards. Check for square after each step. Always predrill holes before attaching with screws. Use glue with finish nails for a stronger hold. Wipe excess glue off bare wood for stained projects, as dried glue will not take stain. Be safe, have fun, and ask for help if you need it. Good luck!

Step #1



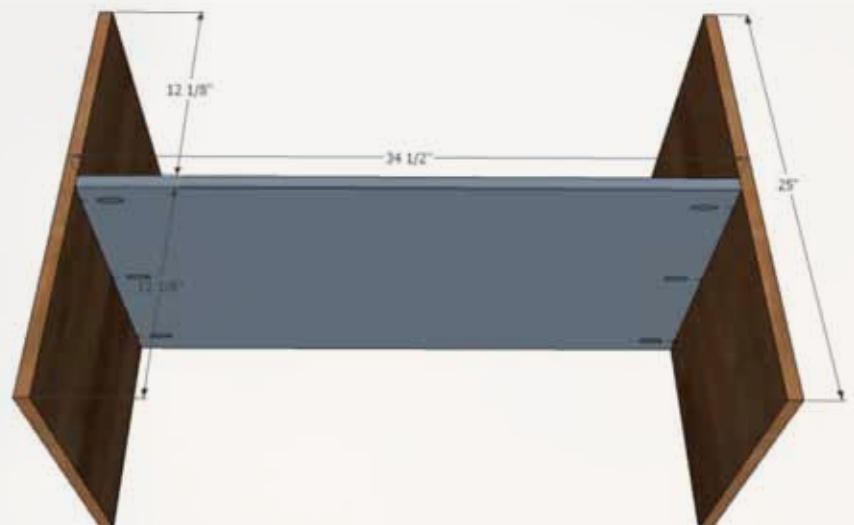
As mentioned with the Open Bookshelf Base it is important to cut your plywood square and with the grain of the plywood, also taking into account how a circular saw works, and the easiest method to cut. Have your Home Depot cut the plywood into 3 strips, 17" wide, and one strip 12" wide. Save the scrap strip - you may be able to use it for the footer if it's square and 1 1/2" wide. Once your strips are cut, you can use them like boards - I will refer to the strips as 1x17 and 1x12, although the strips are not true 1xs.



Step #2



I've included in the diagrams pocket holes for Kreg Jig users. For those of you without, you can countersink 2" screws from the outside for joints with glue. Attach shelf to ends as shown to the right.





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Step #3

Now add top and bottom as shown.
Adjust for square.



Step #4

And now the small bookshelf sides -
also attach from the back.





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Step #5



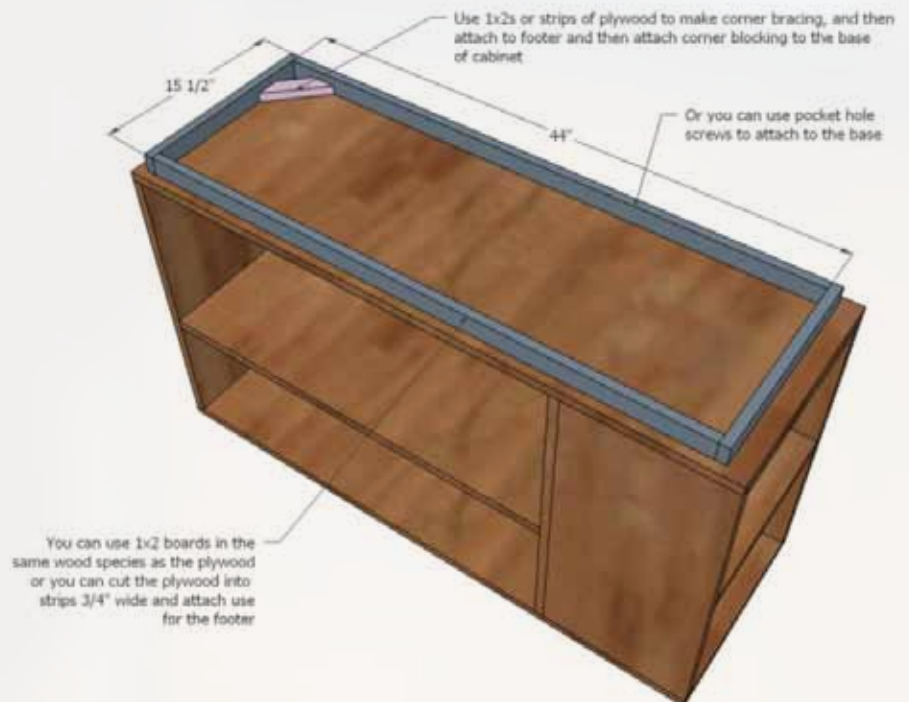
Now add the shelf. You can optionally drill holes for shelf pins to make the shelf adjustable.



Step #6



Finally, build your footer, and attach. I used pocket holes to attach mine, but if you don't have a pocket hole jig, you can cut corner bracing at 45 degree angles on both sides, and then attach as shown in the diagram.





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Step #7



Apply edge banding to all exposed plywood edges as recommended by the manufacturer. The edge banding we used was iron on, and it's very simple to do. We trimmed the excess off with a utility knife and then sanded outside corners for a smooth joint. Results? You can't tell what's the original plywood and what we ironed on!

Preparation Instructions:

Fill all holes with wood filler and let dry. Apply additional coats of wood filler as needed. When wood filler is completely dry, sand the project in the direction of the wood grain with 120 grit sandpaper. Vacuum sanded project to remove sanding residue. Remove all sanding residue on work surfaces as well. Wipe project clean with damp cloth. It is always recommended to apply a test coat on a hidden area or scrap piece to ensure color evenness and adhesion. Use primer or wood conditioner as needed.



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