

Eco Office File Base

Free Plans to build an office file cabinet base

PureBond[®]
FORMALDEHYDE-FREE TECHNOLOGY

Materials and Tools:

MATERIALS:

- 1 - Sheet 3/4" PureBond Hardwood Plywood (Available at the Home Depot)
- 1 - Sheet 1/4" PureBond Hardwood Plywood (Available at the Home Depot)
- 3 - 21" Drawer Slides, Euro Style (cheapo white ones)
- 1 - 1x2 @ 6 feet long in matching hardwood (Optional - you can use plywood for this step)
- 1 - 25' long roll Edge Banding in matching veneer
- 2" screws
- 1 1/4" finish nails
- 1 1/4" pocket hole screws
- Wood Glue
- Wood Filler
- 120 Grit Sandpaper
- Primer
- Wood Conditioner
- Paint

Tools:

- Measuring Tape
- Square
- Pencil
- Safety Glasses
- Hearing Protection
- Kreg Jig™
- Drill
- Nailer
- Sander
- Level
- Countersink Drill Bit
- Paint Brush

Cut List:

- 2 - 3/4" PureBond Formaldehyde Free Plywood @ 15 1/2" x 22" (Top/Bottom)
- 2 - 3/4" PureBond Formaldehyde Free Plywood @ 26 1/2" x 22" (Sides)
- 1 - 3/4" PureBond Formaldehyde Free Plywood @ 12 1/2" x 15 1/4" (Drawer Face)
- 2 - 3/4" PureBond Formaldehyde Free Plywood @ 6" x 15 1/4" (Drawer Face)
- 2 - 3/4" PureBond Formaldehyde Free Plywood @ 21" x 11 1/2" (File Drawer Sides)
- 2 - 3/4" PureBond Formaldehyde Free Plywood @ 13" x 11 1/2" (File Drawer Front/Back)
- 4 - 3/4" PureBond Formaldehyde Free Plywood @ 21" x 5" (Small Drawer Sides)
- 4 - 3/4" PureBond Formaldehyde Free Plywood @ 13" x 5" (Small Drawer Sides)
- 1 - 1/4" PureBond Formaldehyde Free Plywood @ 17" x 26 1/2" (Back)
- 3 - 1/4" PureBond Formaldehyde Free Plywood @ 14 1/2" x 21" (Drawer Bottoms)
- 2 - 1x2 @ 19" (Footer)
- 2 - 1x2 @ 15 1/2" (Footer)





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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!

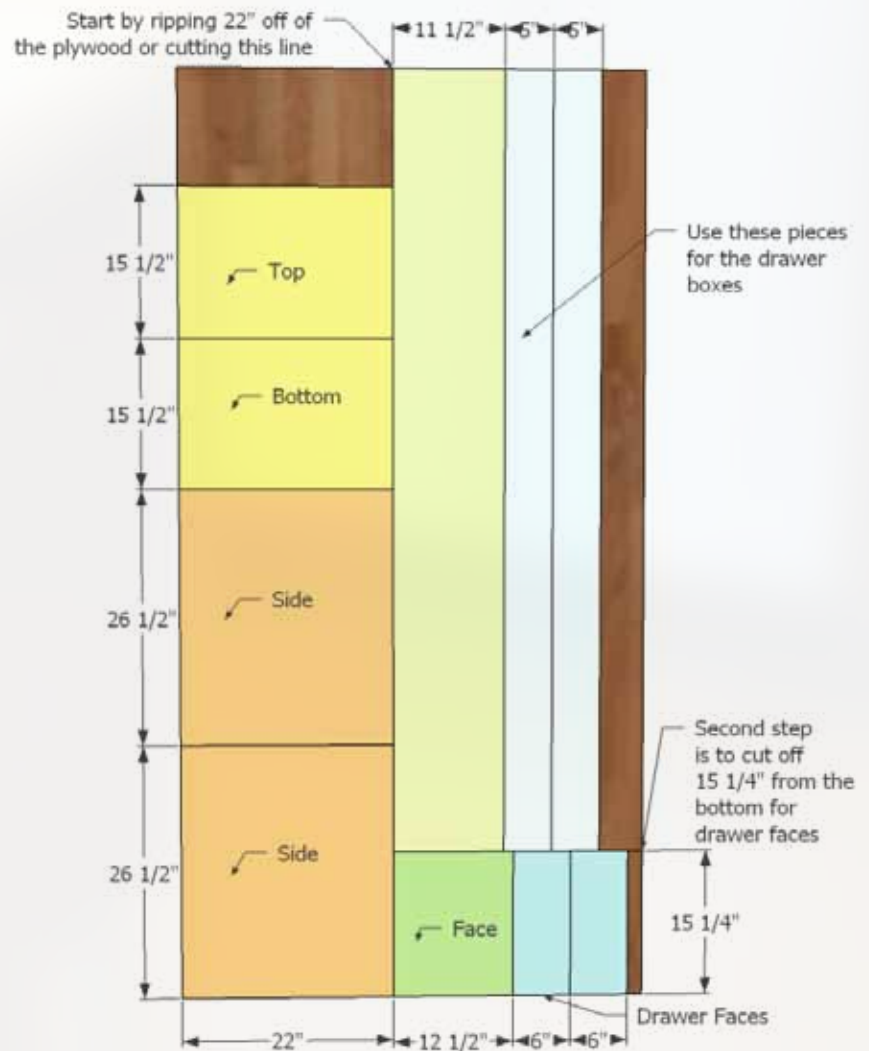
Step #1



I'd say the most intimidating thing about working with plywood is knowing how to cut it. You want to be very careful, because plywood has a wood grain, and if your pieces aren't cut correctly, you'll end up with mismatched wood grains. And then of course there's taking into account the width of a saw blade, and understanding that a saw blade doesn't cut corners . . .

So follow this plywood cut out as shown above. You can ask your Home Depot to make the rip cuts and then take the strips home - that's what I do to fit everything in my car. Start by ripping 22" off of the plywood. From this piece, you will cut your top, bottom and sides. Then from the remaining piece, cut 15 1/4" off of it, approximately 26" wide, as shown in the diagram. You will cut your drawer faces from these pieces. Finally, rip the remaining plywood piece into one 11 1/2" wide strip and two 6" wide strips. If you are using plywood for the footer and not 1x2s, rip the remaining scrap into a 1 1/2" wide strip.

Cut out all pieces now according to the cut list.





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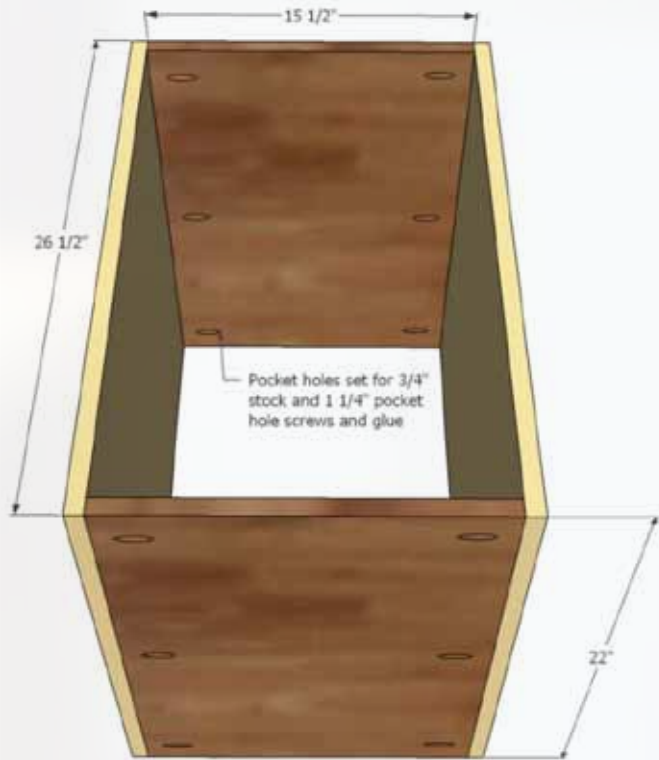
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Step #2



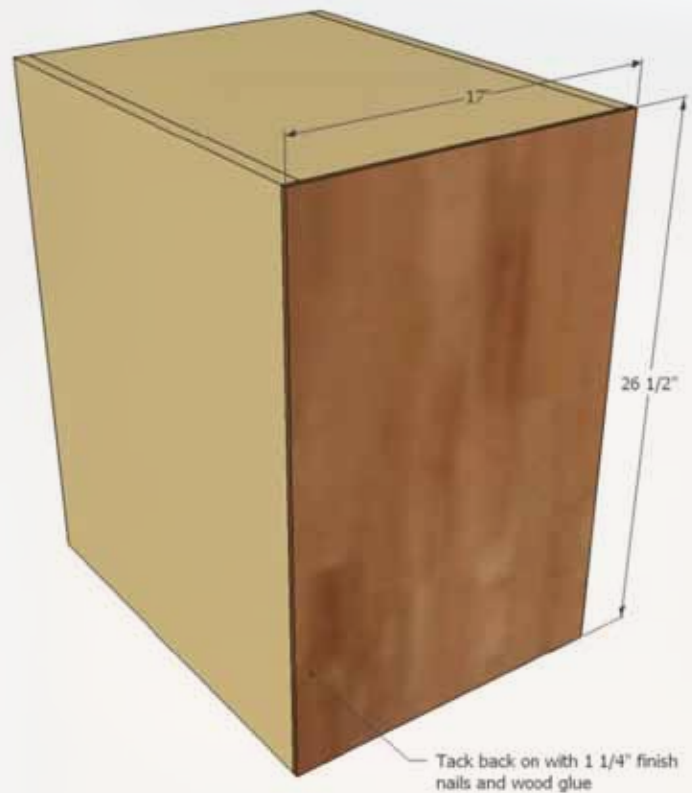
I've given instructions to use both a Kreg Jig and simple screws throughout. For Kreg Jig users, you will want to set your jig for 3/4" stock and use 1 1/4" pocket holes. If you are using screws, use a countersink bit and 2" screws and glue and take extra measures to check for square. Build your box as shown to the right.



Step #3



Adjust the box for square and glue and nail the back on.





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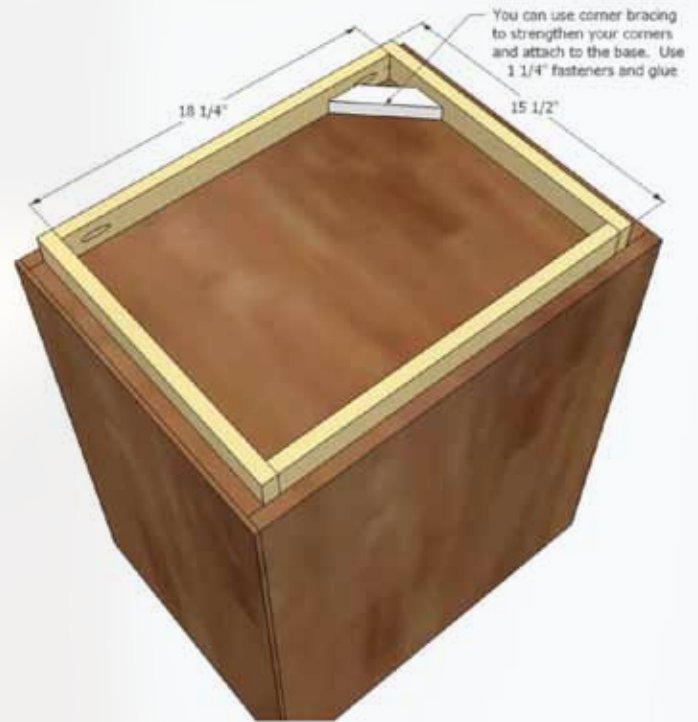
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Step #4



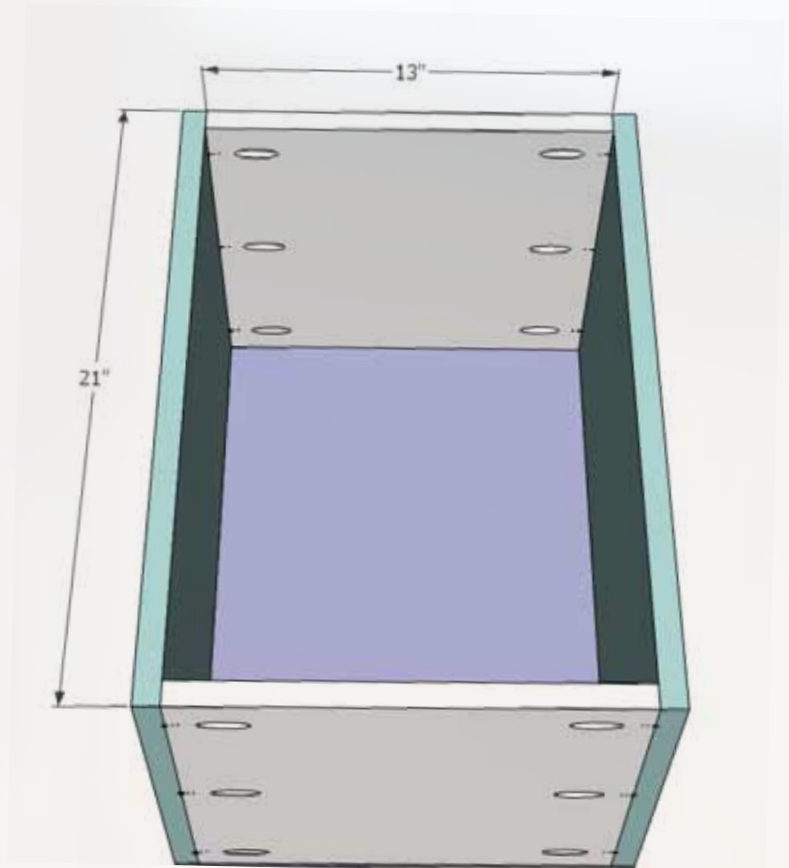
You can use either 1x2s or strips of the 3/4" plywood cut into 1 1/2" widths here. If you have a pocket hole jig, attach with the pocket hole jig, or otherwise, use corner bracing to attach to base.



Step #5



Now it's time to build the drawers. If you place the pocket holes on the outsides, the drawer face will cover the pocket holes. Build two small drawers and one large drawer. Attach 1/4" plywood to bottoms.





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Step #6



Install drawers using the drawer slides. Start with the bottom drawer, install it as close to the bottom as possible and work your way upwards. Note that all drawers need to be installed $3/4$ " inset from the front to allow for drawer faces.



Fit drawers in box without faces, $3/4$ " space on the front to allow for drawer faces

Step #7



Once all of your drawer boxes are installed, line the drawer faces up so there is an even gap and attach with $1 1/4$ " finish nails. Remove drawers and further attach faces with $1 1/4$ " screws from the inside of the drawers.

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.



$1/8$ " gap approximate on all sides



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