



Bench

Free Plans to build a simple Bench.



Materials and Tools

MATERIALS:

- 1-1/4" pocket hole screws
- 2-1/2" pocket hole screws
- 5/8" brad nails
- 1-1/4" brad nails
- Edge banding, optional
- Wood glue
- Sandpaper (100, 150, 220 grits)
- Finishing supplies (primer & paint, or stain, sealer)

Lumber:

- Two - 4' x 4' x 3/4" PureBond plywood project panels (Alder was used for the example)
- One - 2' x 4' x 1/4" PureBond plywood project panels (to cover the back)

Tools:

- Jigsaw, table saw, miter saw, or hand saw
- Pocket hole jig
- Brad nailer
- Drill
- Pencil, ruler, square
- Tape measure
- Sander
- Iron for edge banding
- Edge banding trimmer or craft knife

Cut List:

- Four - 3/4" PureBond Plywood project panel at 1-1/2" x 17" - Lower Back Legs
- Four - 3/4" PureBond Plywood project panel at 1-1/2" x 13-1/16" - Upper Back Legs
- Four - 3/4" PureBond Plywood project panel at 1-1/2" x 16-1/4" - Front Legs
- Two - 3/4" PureBond Plywood project panel at 2-1/2" x 15" - Side Stretchers
- Two - 3/4" PureBond Plywood project panel at 2-1/2" x 45" - Front & Back Stretchers
- Three - 3/4" PureBond Plywood project panel at 2-1/2" x 16" - Seat Supports
- One - 3/4" PureBond Plywood project panel at 11" x 45" - Back
- One - 3/4" PureBond Plywood project panel at 18" x 48 - Seat
- One - 1/4" PureBond Plywood project panel at 10-1/2" x 45" - Back Cover



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FORMALDEHYDE-FREE TECHNOLOGY

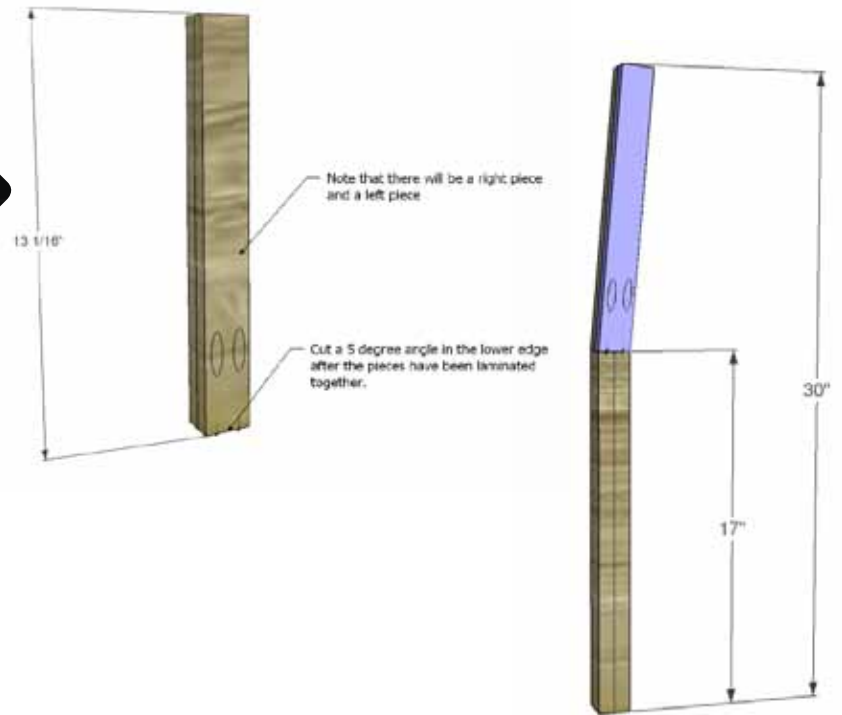


STEP 1

Notes:

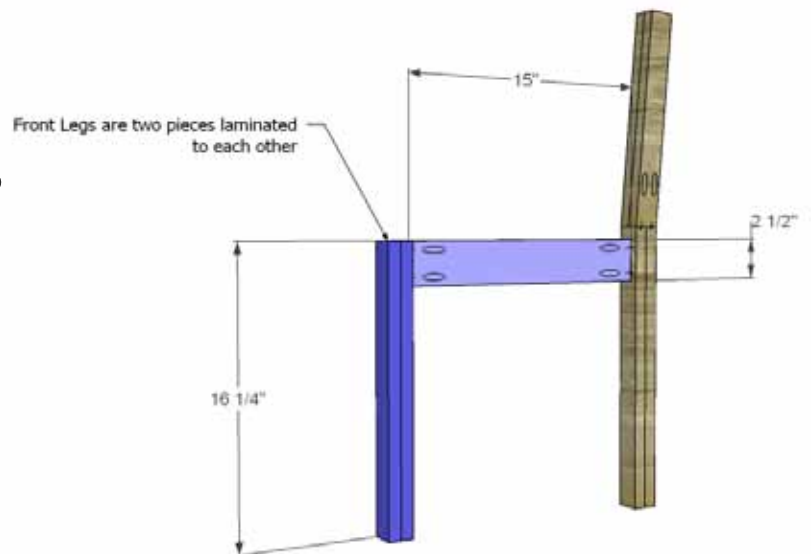
Edge banding will be applied to the exposed edges of the plywood prior to assembly.

Cut the pieces for the legs. There will be four pieces cut for each leg part, and they will be laminated together in pairs to form the leg pieces. Spread glue on the face of one piece then layer the next piece on top. Wiggle it a little to create suction then secure together with 1-1/4" brad nails. When dry, attach the upper back leg to the lower back leg using glue and 2-1/2" pocket hole screws to create the back legs. Note that there will be a left and a right. Apply edge banding to the exposed edges of the legs then trim the excess banding away.



STEP 2

Cut the pieces for the side stretchers and drill pocket holes in each end. Apply edge banding to one long edge of each piece. Position the stretchers on the legs locating them 1/4" back from the side face of each leg, then secure using glue and 1-1/4" pocket hole screws.



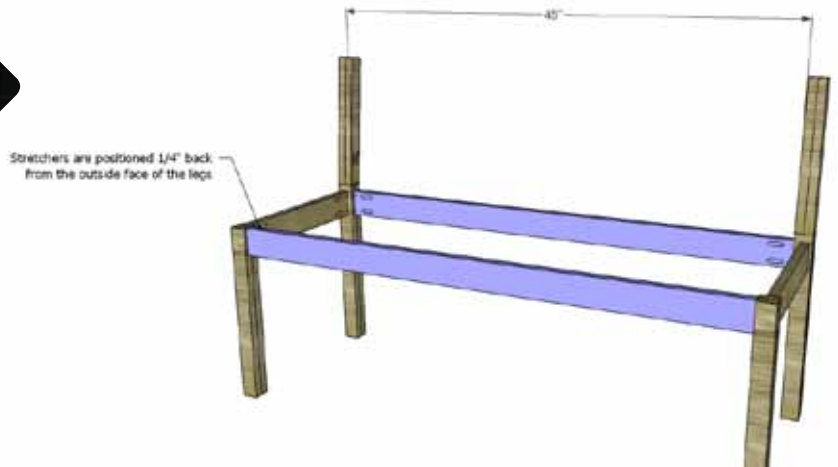


STEP 3

Cut the pieces for the front and back stretchers then drill pocket holes in each end. Apply edge banding to one long edge of each piece.

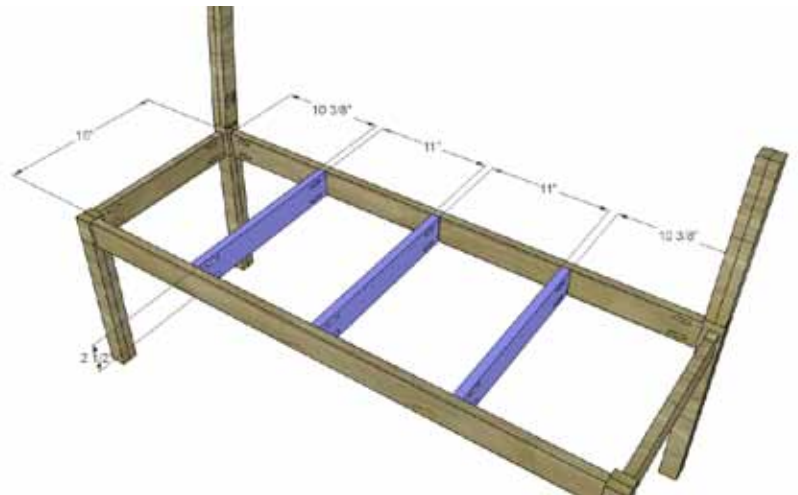
Position the front stretcher on the front legs locating it 1/4" back from the front face of each leg, then secure using glue and 1-1/4" pocket hole screws.

Position the back stretcher so it is flush with the inside face of the back leg then secure using glue and 1-1/4" pocket hole screws.



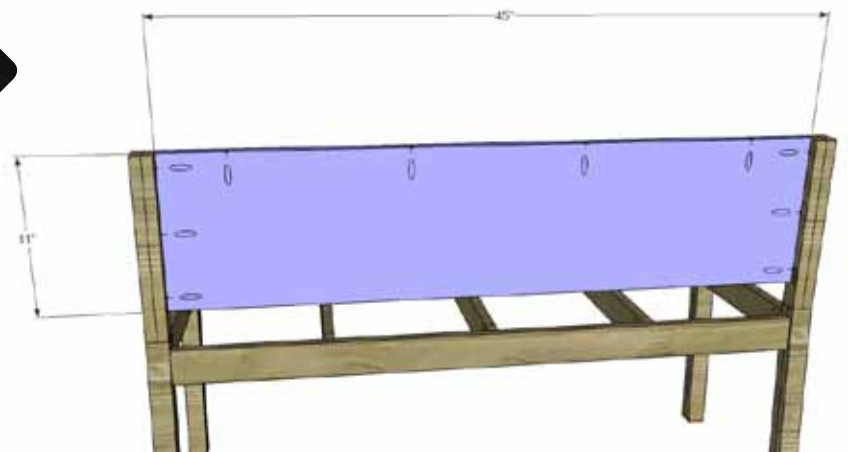
STEP 4

Cut the pieces for the seat supports and drill pocket holes in each edge. Secure to the front and back aprons using glue and 1-1/4" pocket hole screws.



STEP 5

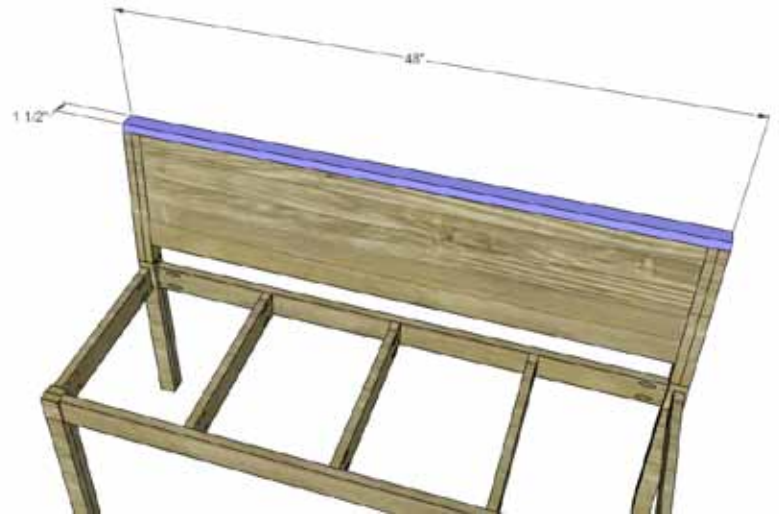
Cut the piece for the back and drill pocket holes in each end. Apply edge banding to the top and bottom edges. Secure to the upper back legs using glue and 1-1/4" pocket hole screws. The front face of the back piece will be flush with the front face of the legs.





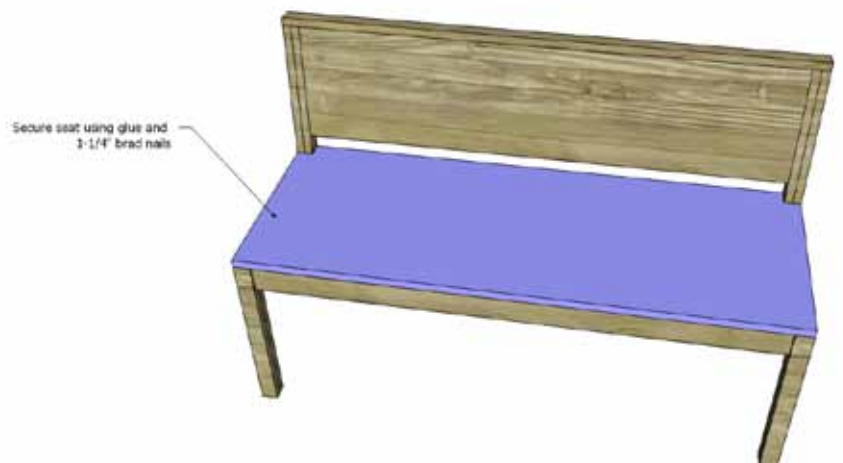
STEP 6

Cut the piece for the top. Apply edge banding to all four edges. Spread glue on the top edge of the back and the top of the upper back legs. Position the top then secure using 1-1/4" brad nails.



STEP 7

Cut the piece for the seat. Cut the 1-1/2" x 1-1/2" notches in each back corner using a jigsaw. Apply edge banding to the front, back, and sides. Position the seat on the frame, then secure using glue and 1-1/4" brad nails.



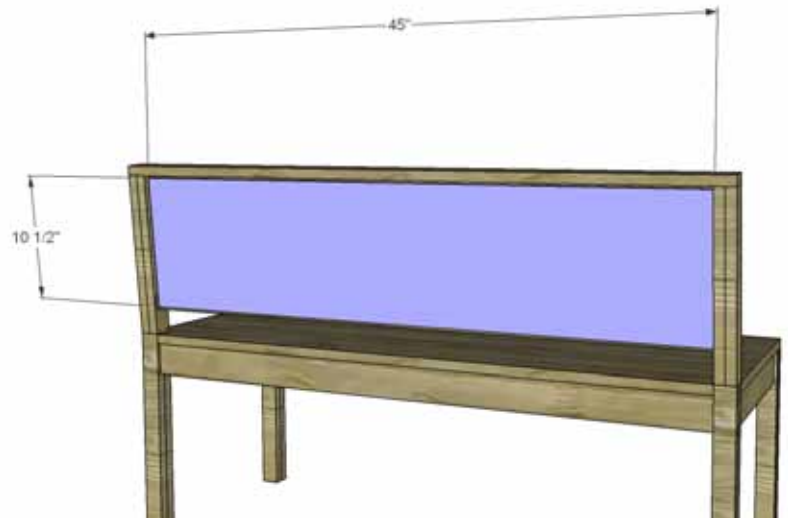


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STEP 8

Cut the piece for the back cover from the 1/4" material. The piece will be 1/2" narrower than the back piece. Spread glue on the piece then center it top to bottom on the reverse side of the back. Secure in place using 5/8" brad nails.



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Available at most Home Depot stores.