

Dining Chair

Free Plans to build a Dining Chair

PureBond.
FORMALDEHYDE-FREE TECHNOLOGY

Materials and Tools:

Materials:

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

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

Lumber:

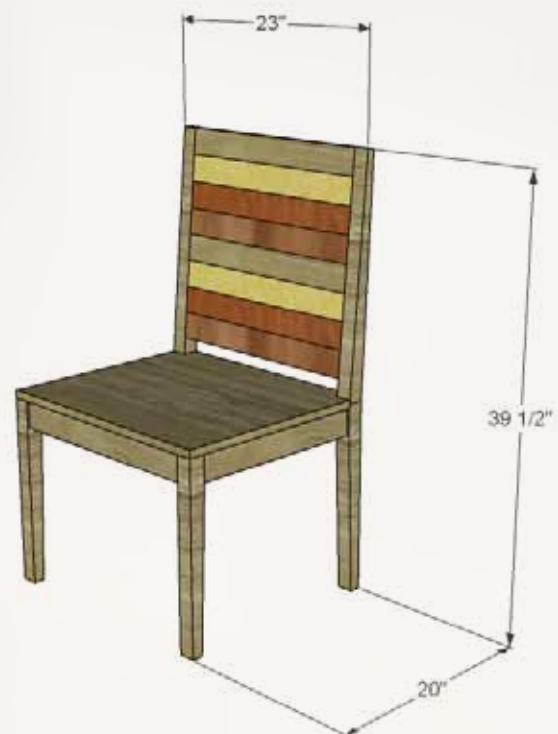
- 1 - 4' x 4' x 3/4" PureBond plywood project panel (Cherry was used for the example)
- 1 - 2' x 4' 1/4" PureBond plywood project panel
- Assorted scraps of 1/2" PureBond plywood project panels (for the back)

Cut List:

- 4 - 3/4" PureBond Plywood project panel at 1-1/2" x 17-1/4" - Front Legs
- 4 - 3/4" PureBond Plywood project panel at 1-1/2" x 18" - Lower Back Legs
- 4 - 3/4" PureBond Plywood project panel at 1-1/2" x 22" - Upper Back Legs
- 2 - 3/4" PureBond Plywood project panel at 2-1/2" x 20" - Front & Back Stretchers
- 2 - 3/4" PureBond Plywood project panel at 2-1/2" x 17" - Side Stretchers
- 1 - 3/4" PureBond Plywood project panel at 2-1/2" x 18" - Seat Support
- 8 - 1/2" PureBond Plywood project panel at 2-1/2" x 20" - Slatted Back
- 1 - 1/4" PureBond Plywood project panel at 20" x 20" - Back Cover
- 1 - 3/4" PureBond Plywood project panel at 20" x 23" - Seat

Notes:

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





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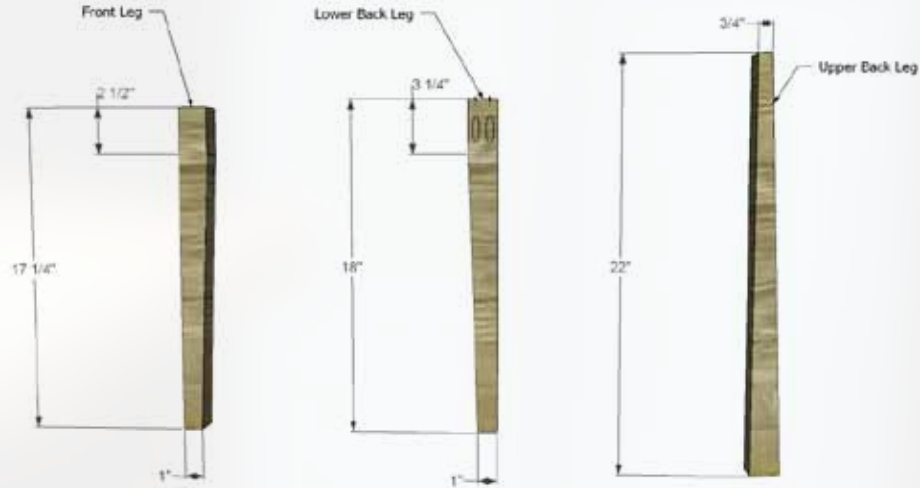
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Step #1



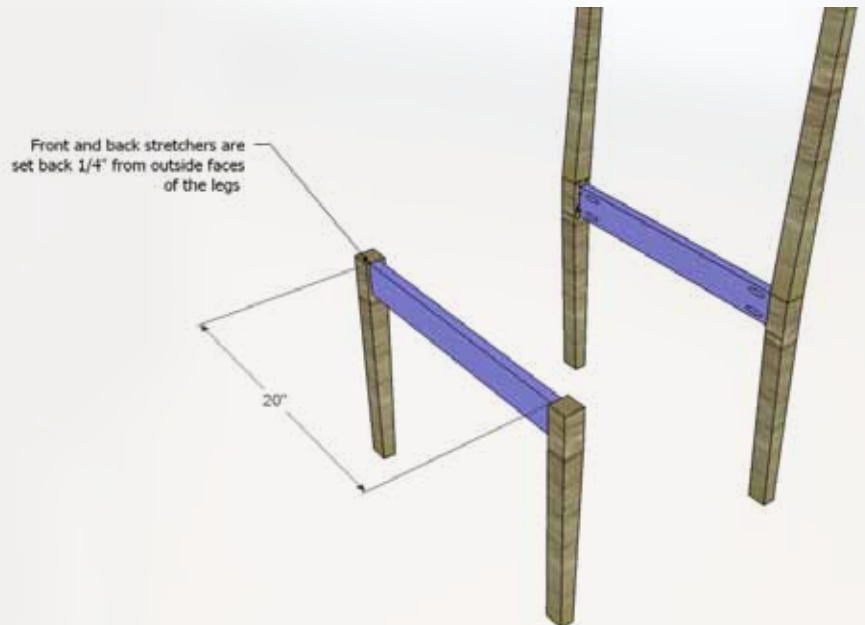
Cut the pieces for the legs. There will be four pieces cut for each leg part, and they will be laminated together in pairs to form the leg pieces. Spread glue on the face of one piece then layer the next piece on top. Wiggle it a little to create suction then secure together with 1-1/4" brad nails. When dry, cut the tapers as desired using a jigsaw or a tapering jig on the table saw. 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. The pocket holes should be hidden under the seat when completed.



Step #2



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.





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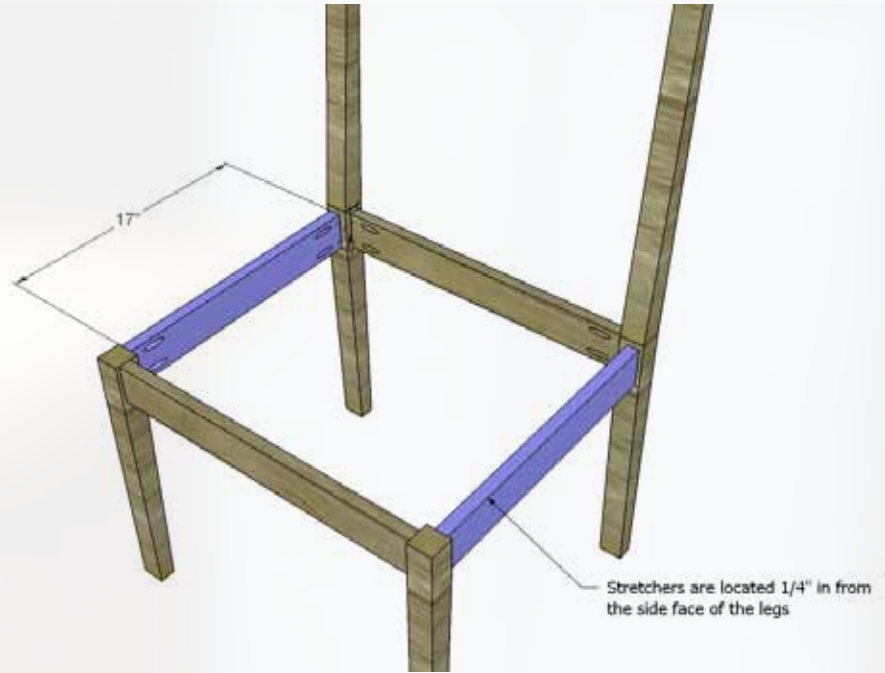
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Step #3



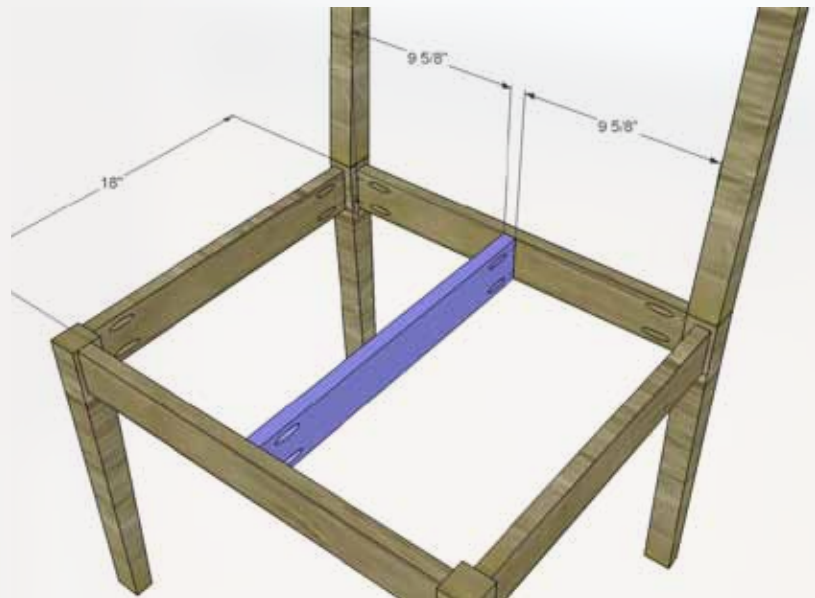
Cut the pieces for the side stretchers and drill pocket holes in each end. Apply edge banding to one long edge of each piece. Position the stretchers on the legs locating them 1/4" back from the side face of each leg, then secure using glue and 1-1/4" pocket hole screws.



Step #4



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





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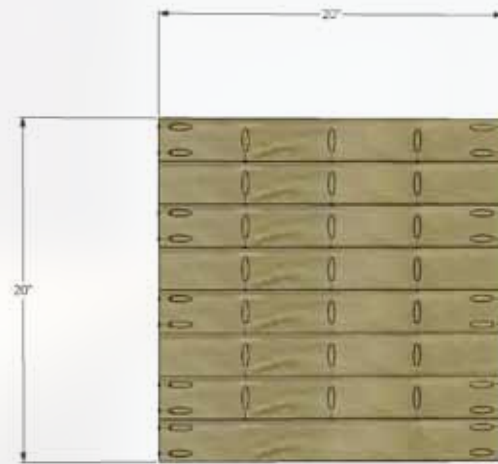
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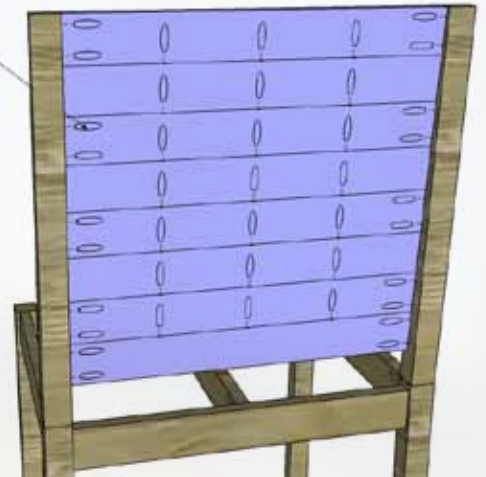
Step #5



Cut the pieces for the back and drill pocket holes in each piece as shown. Assemble using glue and 1" pocket hole screws, then 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.



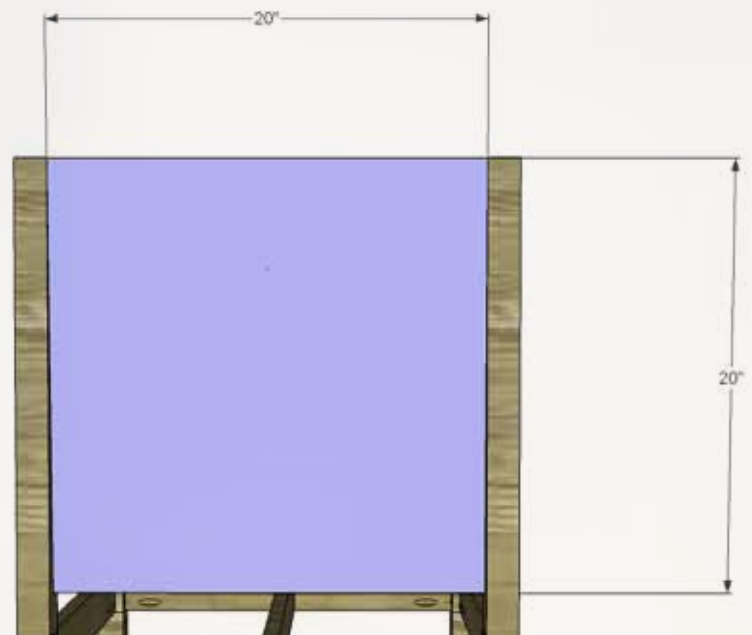
Secure slatted back to legs using glue and 1-1/4" pocket hole screws.



Step #6



Cut the piece for the back cover. Secure to the chair back (to cover the pocket holes) using glue and 1/2" brad nails.





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Step #7

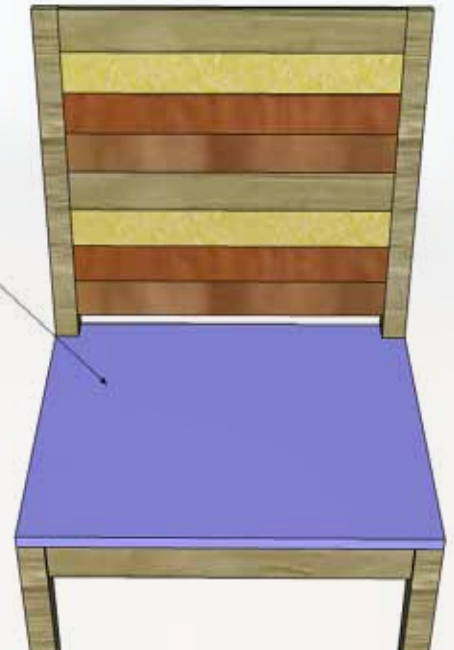


Cut the piece for the seat. Cut the 1-1/2" x 1-1/2" notches in each back corner using a jigsaw. Apply edge banding to the front, back, and sides. Position the seat on the frame, then secure using glue and 1-1/4" brad nails.

Finish as desired.



Secure seat to frame using glue and 1-1/4" brad nails



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