



Demilune Table

Free Plans to build a Demilune Table.



Materials and Tools

MATERIALS:

- 1-1/4" pocket hole screws
- 1-1/4" brad nails
- Edge banding, optional (7/8" wide and 2" wide)
- Wood glue
- Sandpaper (100, 150, 220 grits)
- Finishing supplies (primer & paint, or stain, sealer)

Lumber:

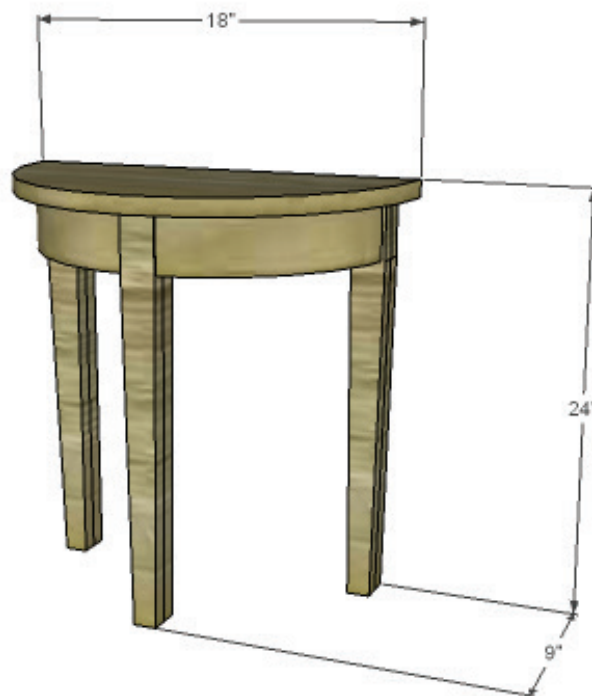
- 1 - 2' x 4' x 3/4" PureBond plywood project panel (Cherry was used for the example)

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:

- 6 - 3/4" PureBond Plywood project panel at 1-1/2" x 17-1/4" - Legs
- 1 - 3/4" PureBond Plywood project panel at 2-1/2" x 13" - Back Apron
- 1 - 3/4" PureBond Plywood project panel at 2-1/2" x 5-3/4" - Center Support
- 3 - 3/4" PureBond Plywood project panel at 3/4" x 2-1/2" - Front Apron Supports
- 2 - 3/4" PureBond Plywood project panel at 2-1/2" x 10-1/2" - Front Aprons
- 1 - 3/4" PureBond Plywood project panel at 9" x 18" - Top



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STEP 1

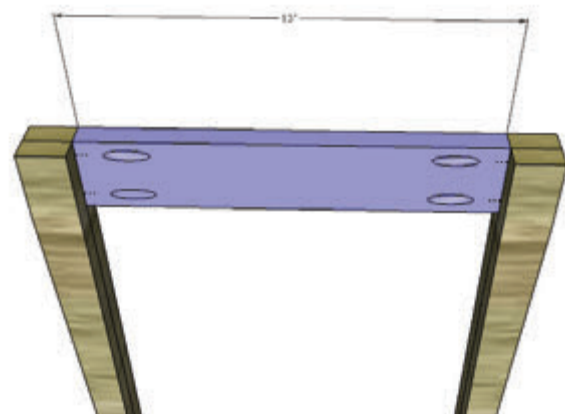
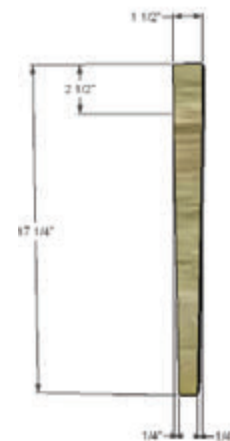
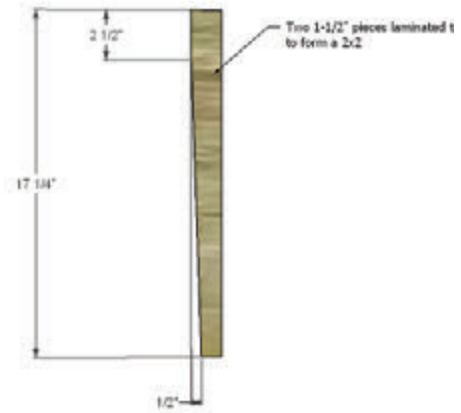
Notes:

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

Cut the pieces for the legs. There will be six pieces cut, and they will be laminated together in pairs to form three legs. 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 leg to length and cut the taper using a tapering jig on the table saw. Apply edge banding to the exposed edges of the legs then trim the excess banding away. The front leg will have a taper on each side while the back legs will have a taper on one side only.

STEP 2

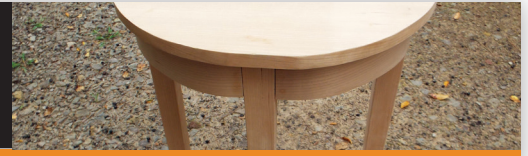
Cut the piece for the back apron. Set the pocket hole jig for 3/4" material and drill pocket holes in each end. Secure to the back legs (with the tapers on the legs facing out) using glue and 1-1/4" pocket hole screws.



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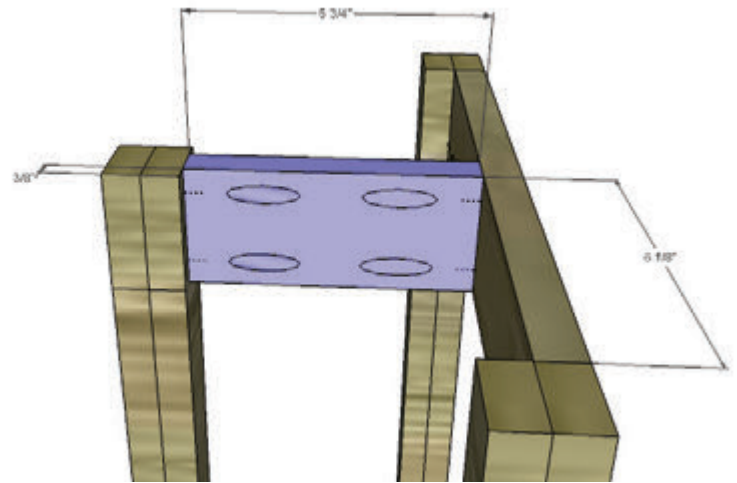


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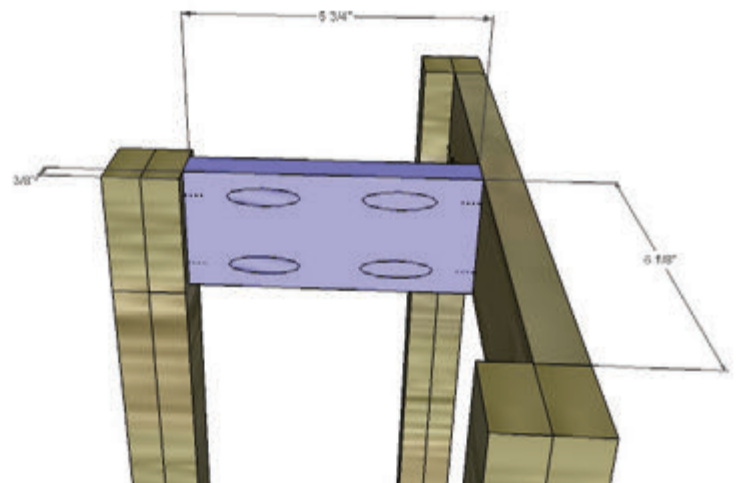
STEP 3

Cut the piece for the center support and drill pocket holes in each end. Secure to the center of the back apron and the center of the front leg (with the tapers on the leg facing to the side) using glue and 1-1/4" pocket hole screws.



STEP 4

Cut the pieces for the front apron supports. These are pieces that will be secured to the legs to support the front aprons. Secure the supports in place using glue and 1-1/4" brad nails. Position the supports on each leg so that the front face of the front aprons will be flush with the outside face of the legs.





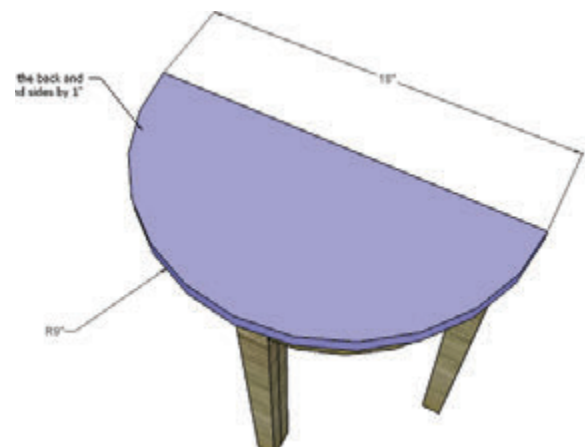
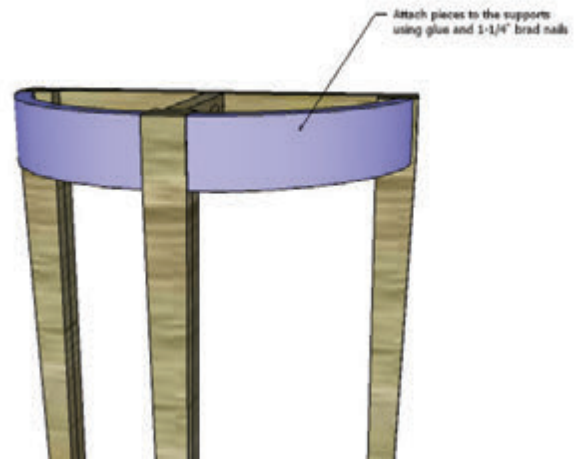
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STEP 5

Cut the pieces for the aprons. To make the curve in each piece, a series of kerfs will be cut using the table saw to allow the pieces to bend. Lay the pieces inside face down on the table saw and lower the blade on the table saw so that it will not cut all the way through the top ply on the plywood. Start the first cut at approximately 3/4" from one side edge of the apron piece. Make a pass through the table saw with each piece. Move the rip fence in 1/4" increments to create the remaining kerfs. This will allow for the thickness of the blade, and will create 1/8" kerfs. Leave approximately 3/4" at the end of the apron after all of the kerfs have been cut.

Secure the apron to the supports using glue and 1-1/4" brad nails. The piece will naturally bend into a half-circle shape!



STEP 6

Cut the piece for the top. Maintaining a 9" radius, draw the half circle on the piece and cut out using a jigsaw. Secure to the table frame using glue and 1-1/4" brad nails. The back edge will be flush with the back apron and the back legs.

Finish as desired.



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