Three-tiered Children's Shelf

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Directions

Follow the steps below to complete this project.

1. Cut Plywood

I broke my sheet stock down to a more manageable size with a circular saw, then cut the remaining parts on the table saw.

2. Cut Dimension Lumber

Using a table saw, rip the 5/4 x 6 x 96" into 2" strips.

3. Cutting the Leg components

Using a Kreg Precision miter gauge, cut the components of the leg.

4. Cutting the Shelf Sides/Dividers

Using a table saw crosscut sled (80 degrees), cut the 10 degree angles. Tip: Mark the location of the angles by dry fitting the shelves and scribing the dividers and sides where the top of the front meets them.

5. Drill Pocket holes

Drill pocket holes. (2 holes) front/inside of Shelf Sides (2 holes) both ends of the Shelf Backs (3 holes) sides of the Shelf Bottoms (4 holes) front of the Shelf Bottoms (2 holes) both ends of the Leg Tops

6. Leg Assembly

Glue and assembly the legs.

7. Shelves Assembly

Attach the Shelf Sides to the Shelf Fronts, then attach the back to the sides, for the shelves with dividers attach them to the Shelf Front with 18 ga brad nails, then screw the Shelf Back to the Shelf Dividers with #8 FIN/Trim screws. Screw the Shelf Bottoms to the Shelf Front and Shelf Sides with 1 1/4 pocket screws and lastly, screw the the bottom to the Shelf Back with #8 FIN/Trim screws. TIP: Predrill the holes for the #8 FIN/Trim screws with a 5/64 drill bit to keep the plywood from splitting out.

8. Prep for Finish

Layout the shelf locations on the legs, then round the edges of the legs using a 1/4" Round-over Router bit. Routee the entire outside edge of the legs. On the inside of the legs route the areas around the shelves. Fill the top two holes on the shelf legs with Dowels or with Kreg pocket hole plugs.

9. Finish

Sand and paint legs.

10. Final Assembly

Layout the shelf locations on the inside of the legs screw the shelves to the legs using #8 FIN/Trim screws 1 3/8".

Tools Used:

(1) Kreg Clamps
(1) Kreg Pocket-Hole Jig
(1) Ryobi Band Saw
(1) Ridgid Drill (cordless)
(1) Ridgid Impact Driver
(1) Ryobi Nail Gun
(1) Hitachi Router
(1) Bosch Router Table
(1) Porter-Cable Sander
(1) Stanley Square
(1) Laguna Table Saw
(1) Milwaukee Tape Measure

Materials Required:

Wood Products:

(1) 3/4" Thick, Half Sheet, Plywood
(1) 3/4" Thick, Quarter Sheet, Plywood
(1) 5/4 x 6, 72", Board

Hardware/Supplies:

(1) 3/8 dowel (Oak) or Kreg Pocket hole plugs
(1) #8 1 3/8 in. T-10 FIN/Trim Trim Head Screw GRK Fasteners
(1) #8 1-1/4 in. Square Maxi-Loc Head Coarse Zinc-Plated Steel Pocket-Hole Screw (100-Pack)
(1) #8 2 in. T-10 FIN/Trim Trim Head Screw GRK Fasteners
(1) 1-3/4 in. x 18-Gauge Brad Nails
(1) Titebond Original wood glue

Parts/Cut List:

(1) Top Shelf, Back, 3/4" 4 1/4" x 29 11/16"
(1) Top Shelf, Front, 3/4" x 3 7/16" x 31 1/16"
(1) Top Shelf, Bottom, 3/4" x 11 3/4" x 29 11/16"
(2) Top Shelf, Side, 3/4" x 5" x 11 3/4"
(2) Top Shelf, Divider, 3/4" x 4 1/4" x 11 1/16"
(1) Middle Shelf, Back, 3/4" x 4 5/8" x 29 11/16"
(1) Middle Shelf ,Front, 3/4" x 3 7/16" x 31 1/16"
(2) Middle Shelf, Side, 3/4" x 5 5/16 x 13 11/16"
(1) Middle Shelf, Divider, 3/4" x 4 5/8" x 12 15/16"
(1) Bottom Shelf, Back, 3/4" x 5 5/8" x 29 11/16"
(1) Bottom Shelf, Front, 3/4" x 6 5/16" x 31 1/16"
(1) Bottom Shelf, Bottom, 3/4" x 15 11/16" X 29 11/16"

(2) Bottom Shelf, Side, 3/4" x 6 5/16" x 15 11/16"
(2) Leg Front, 5/4 x 2" x 30 13/16"
(2) Leg Back, 5/4 x 2" x 30"
(2) Leg Top , 5/4 x 2" x 5 3/4"

Extras:

No extra details have been uploaded.