



DIY Four In a Row

PROJECT PLANS

Skill Level: Intermediate

Materials

Item	Qty
1"x3"x6' Wood	3
1"x3"x8' Wood	2
1"x2"x4'	1
1/4"x2'x4' Plywood	2
1/2"x2'x4' Plywood	1
1/2"x3' Square Dowels	6
1-1/2" Hinges	2
1-3/4" Barrel Bolt	1
Pocket Hole Tool	1
Polyurethane Thick Gloss	1
Acrylic Paint	1
4" and 5" Hole Saws	1
Wood Putty	1

Toolbox



18V ONE+ HP
Brushless 1/2"
Drill/Driver



18V ONE+ HP
Brushless airstrike
Brad Nailer



18V ONE+ 7-1/4"
Sliding Compound
Miter Saw



18V ONE+
Random Orbit
Sander



18V ONE+ HP
Brushless 7-1/4"
Circular Saw

Project Instructions

Step 1

Cut out 35 circles from the 1/2" plywood using the 5" Hole Saw.

Step 2

Map out where the cutouts will go on the 1/4" plywood boards. Mark seven marks 2-5/8" down and 5-1/2" apart. Mark the second row of cutouts 4-3/4" down from the first row. Measure four more rows of marks following the same measurements. Drill pilot holes on each of these marks.

Step 3

Cut out each of the circles, lining up the drill bit in the middle of the hole saw with the pilot holes made in the previous step.

Project Instructions

Step 4

Cut the pieces for the tray and the legs. Cut (4) 1"x3"x39-1/2" pieces and (2) 1"x3"x6-1/2" pieces to use for the tray. For the legs, cut (2) 36" pieces and (4) 11" pieces. For the piece to hold pucks into the game board, cut the 1"x2"x4" to an inch smaller than the width of the 1/4" plywood. Cut dowels to 24."

Step 5

Create the main base for each leg by attaching an 11" piece to each side of the end of (1) 36" piece. For the support beams that will go on the legs, cut a 30° angle on one side, then line up the beam to the base piece to determine the angle on the opposite side. Attach the support beams to each leg.

Step 6

Fill all of the holes in the game pieces with wood putty. Allow time for the wood putty to dry down.

Step 7

Sand all of the wood pieces, including the game pieces, leg pieces, tray pieces, and plywood with all of the cutouts to prevent splinters and to prepare for painting.

Step 8

Apply paint to all of the wood pieces except for the leg pieces. Split the wood pucks into two groups and paint two different colors. On one game piece, paint a different color on each side. After the paint dries, apply a polyurethane coat to seal the pieces, including the unpainted leg pieces. Allow time for the paint to dry.

Step 9

Place the dowels in the middle of each of the vertical rows of cutouts on one of the plywood game boards. Line up the other game board on top of the dowels and nail into place.

Step 10

Drill (2) 3/4" pocket holes in the middle of (1) of the 39-1/2" tray pieces. Attach two pieces together using these pocket holes.

Step 11

Assemble the tray by lining up the (2) 6-1/2" pieces on each horizontal side of the piece made in the previous step, along with lining up the other (2) 39-1/2" pieces on the top and bottom. Nail all of these pieces together to secure into place.

Step 12

Attach the game board to the legs by lining up the top of the board to the top of the leg and placing the board in the middle of the leg. Secure into place with multiple brad nails. Repeat with the second leg.

Step 13

Attach the tray to the board. Slide the tray in between the legs of the board, placing it so the game board is over the middle of the tray. Nail into place with brad nails.

Step 14

Attach a hinge to each side of the closure piece for the game board. Line up to the bottom of the board and mark where the barrel bolt will slide into place. Screw a barrel bolt to the bottom of the closure piece on each side.

Step 15

Drill a hole on the inside of each leg where marked from the previous step. Screw in the other half of the hinge to attach the closure piece into place and slide each barrel bolt into the drilled holes to keep the game pieces inside the board.

Project Complete!