RYOBI

Interior Door Upgrade

PROJECT PLANS

Skill Level: Beginner

Materials

Item	Qty
3/4" x 2-5/8"x 8' Moulding	6
1"x 18-Gauge Collated Nails	1 box
Sandpaper**: 150g, 220g & 320g	
Wood Glue	
Plastic Wood Filler	
Painting Supplies	

Disclaimer – These plans are for a standard 32"x 80" door. A door that is narrower or wider will require a modified length for the rails. See step 4 to determine the length.

* Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

** Starting grit will depend on board surface condition, a rough surface will require starting with a coarse grit first.

Grit is measured in the coarseness of the particles on the sandpaper. The lower the grit number, the coarser the paper. Heavy sanding would require 60 to 80 grit, medium sanding would require 120 to 220 grit, and finish sanding would require 320 to 400 grit. Super fine sanding would be 600 grit and higher.

A select/premium board or plywood comes with a smoother surface finish. It is clear or has very few tight knots, and it will have straight and sharp edges. This grade of wood pairs well with other boards or panels better and requires less time to sand and finish.

Tools Used

7-1/4" Sliding Compound Miter Saw

23GA Pin Nailer

Drill/Driver

5" Random Orbital Sander

Tape Measure

Hammer

Hinge Pin Remover

Phillips Driver Bit

5" Sandpaper

Also Needed: Safety Glasses, Sawhorses and Clamps

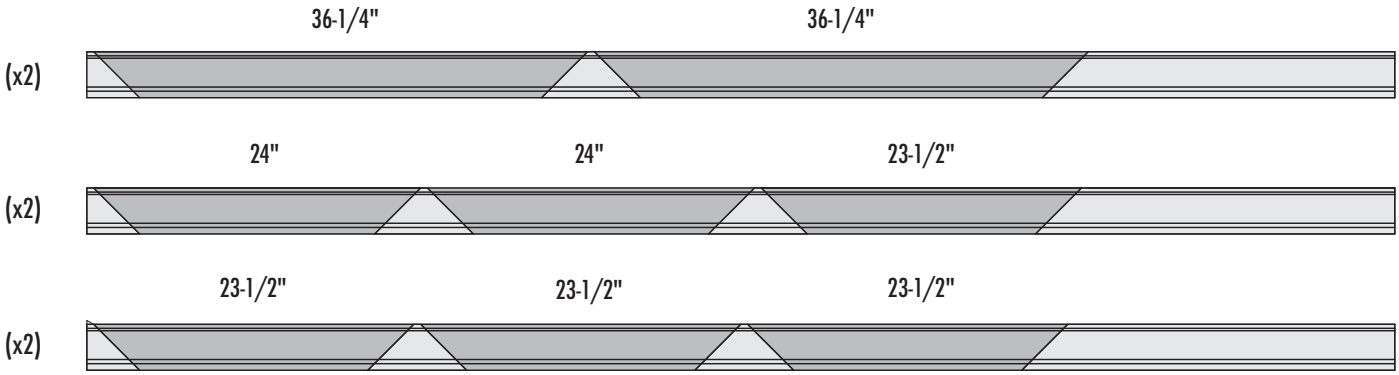
Battery Tip: A 4.0 Ah battery is recommended to be paired with high amp draw tools for maximum efficiency.

Lumber Cut List

Board *	Description	Cut to	Qty
	Upper Stiles	36-1/4"	4
	Lower Stiles	24"	4
	Top & Bottom Rails	23-1/2"	8

*Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

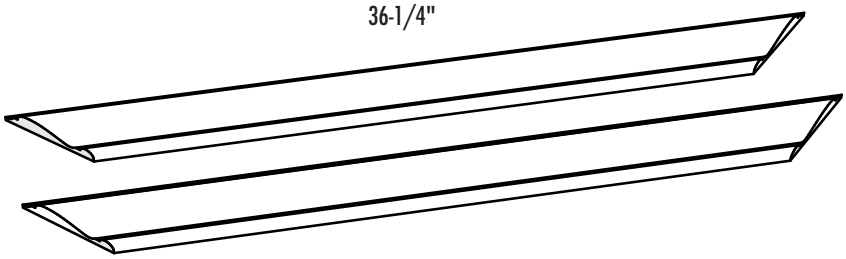
Lumber & Sheet Layout Guide



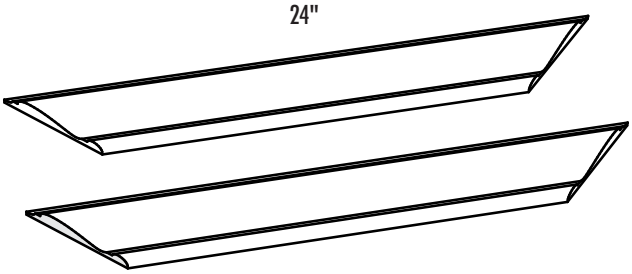
Lumber & Sheet Cut Layout Guide

(x2)

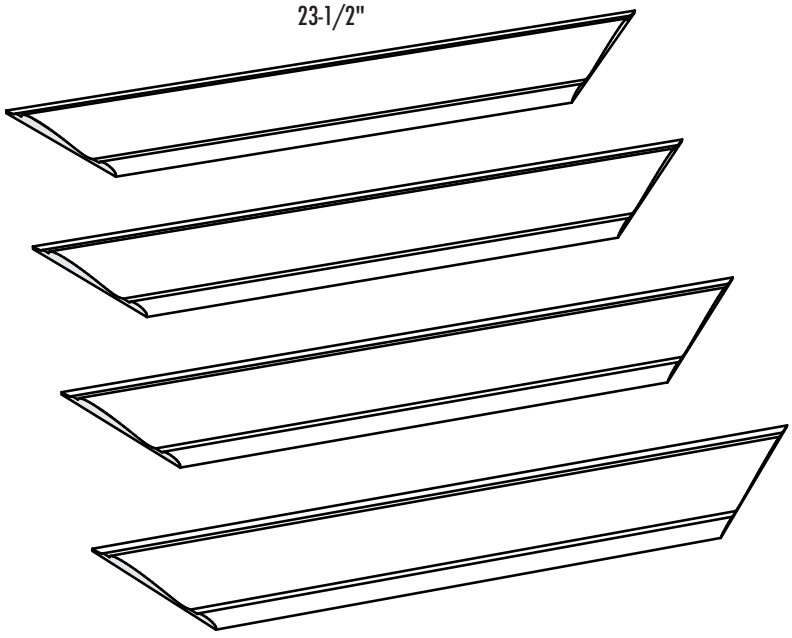
36-1/4"



24"



23-1/2"



Assembly Instructions

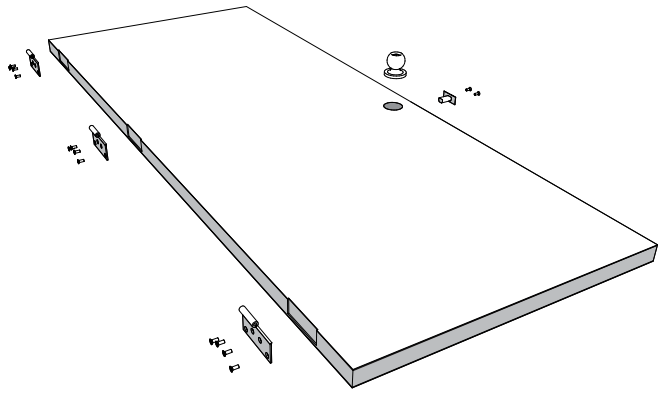
Step 1

Remove door using hinge pin remover.

Tip - Grab a scrap block that is slightly shorter than the gap underneath the door. Place the scrap block in the under the middle of the door to stabilize it when removing or installing.

Step 2

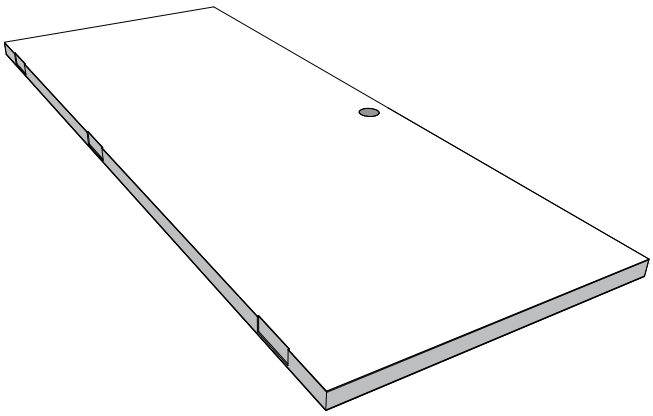
Remove all hardware from the door.



Step 3

Clean and sand the door. Refer to Page 8 for sanding tips.

Remove all dust from the surfaces of the door.



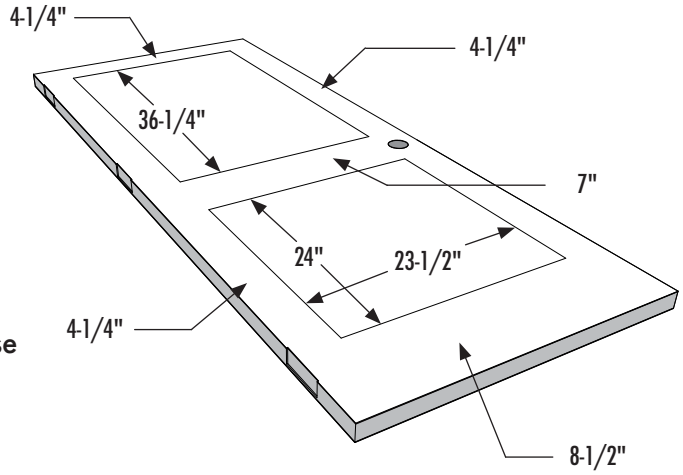
Step 4

Mark the outside edge of where the molding will go.

Follow the diagram for offset distances from the edge of the door.

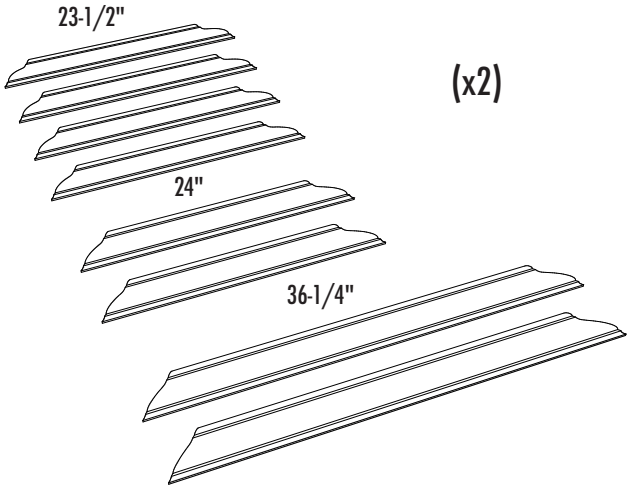
On a 32" x 80" door, the upper panel is 23-1/2" x 36-1/4" and the lower panel is 23-1/2" x 24". Adjust these lengths if your door is a different size and use the edge distance as a reference.

Mark these measurements on both sides of door.



Step 5

Use a miter saw to cut molding to proper lengths. All joining cuts will be at a 45° angle.

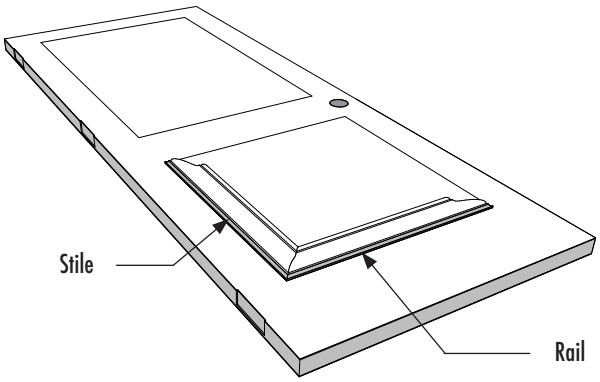


Step 6

Starting on the lower panel, match up a corner using (1) 23-1/2" rail and (1) 24" stile.

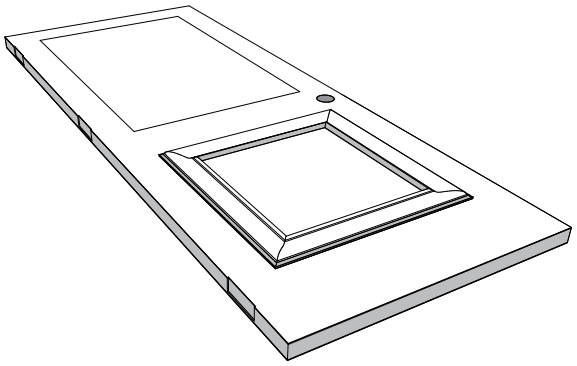
Glue long edges and tack in place with a pin nailer. Using (1) nail near each end will do.

Tip - (2) blocks can be cut to match the side and bottom offset measurements (4-1/2" x 8-1/2"). Clamp these blocks in line with the edge of the door. Then rest the molding against the blocks while installing.



Step 7


Follow the same process from Step 6 and add the other lower rail and stile.

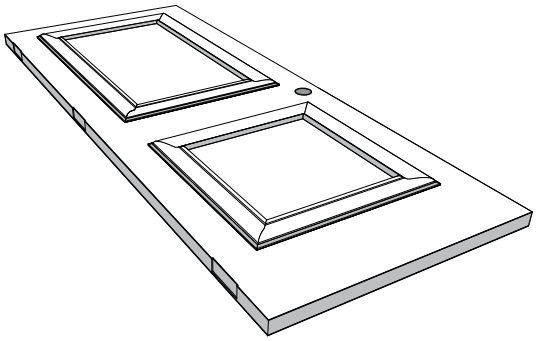


Step 8


Repeat Step 6 & 7 to complete the upper panel.

Add an additional nail to the middle of the 36-1/4" stiles.

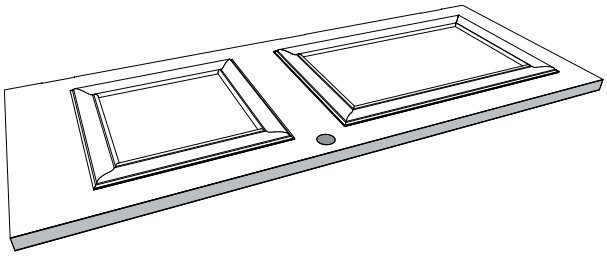
Flip the door over and do the same to the opposite side by repeating Steps 6-8.



Step 9

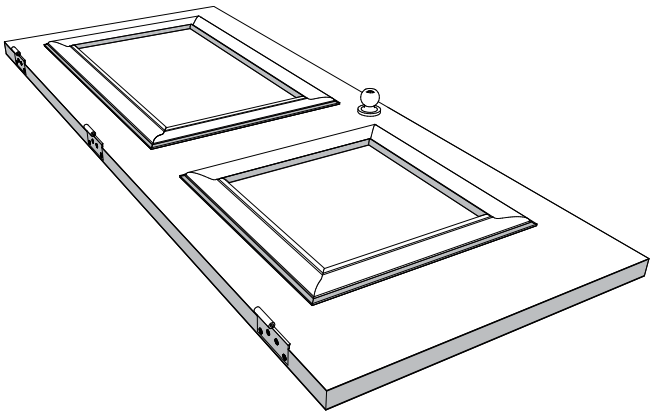
Prime and paint door.

Tip - Fill in any nail holes with wood filler and sand if necessary.



Step 10

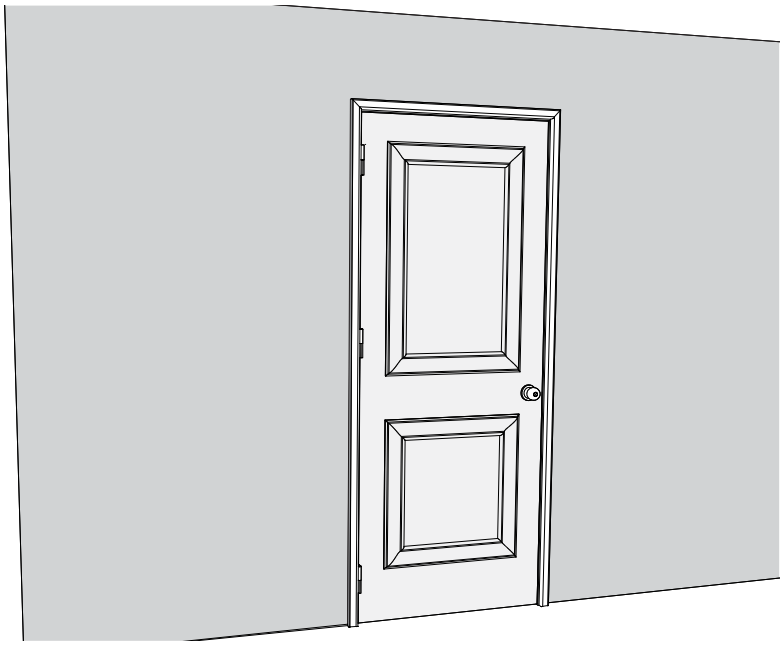
Once the door is dry, re-install hardware to door.



Step 11

Mount door back to door jambs.

Project complete!



Rougher finish – Use 60-80 grit sandpaper to hand sand with the grain of the wood.

Smoother finish – Use 60-80 grit sandpaper to remove scratches & imperfections.
Followed by using 120-220 grit to smooth.

Finish Sanding – Use 320-400 grit sandpaper

Super fine sanding – Use 600+ grit sandpaper