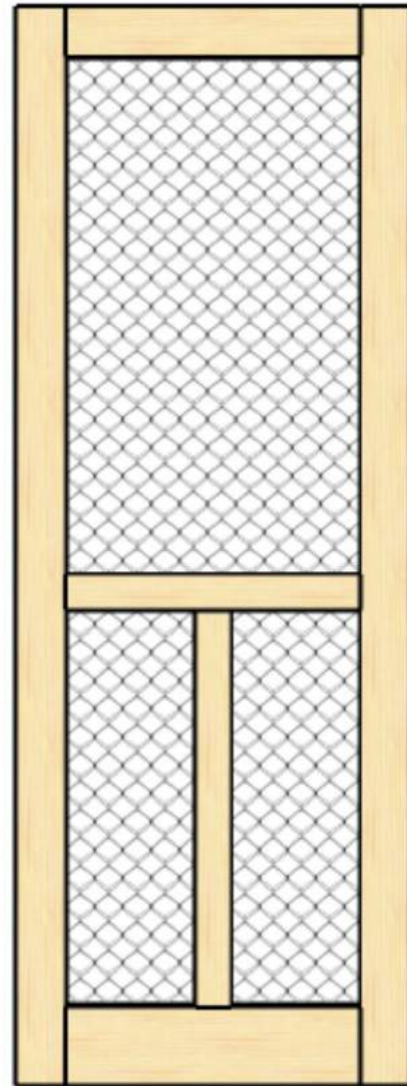
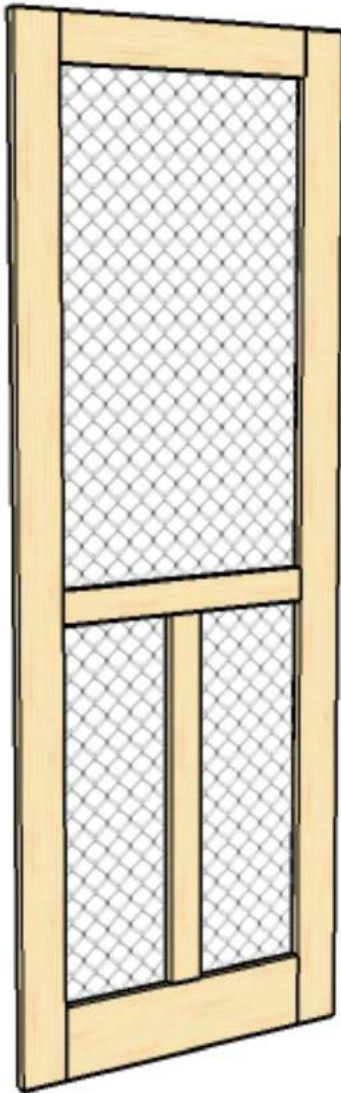


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# Screen Door

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## Supplies

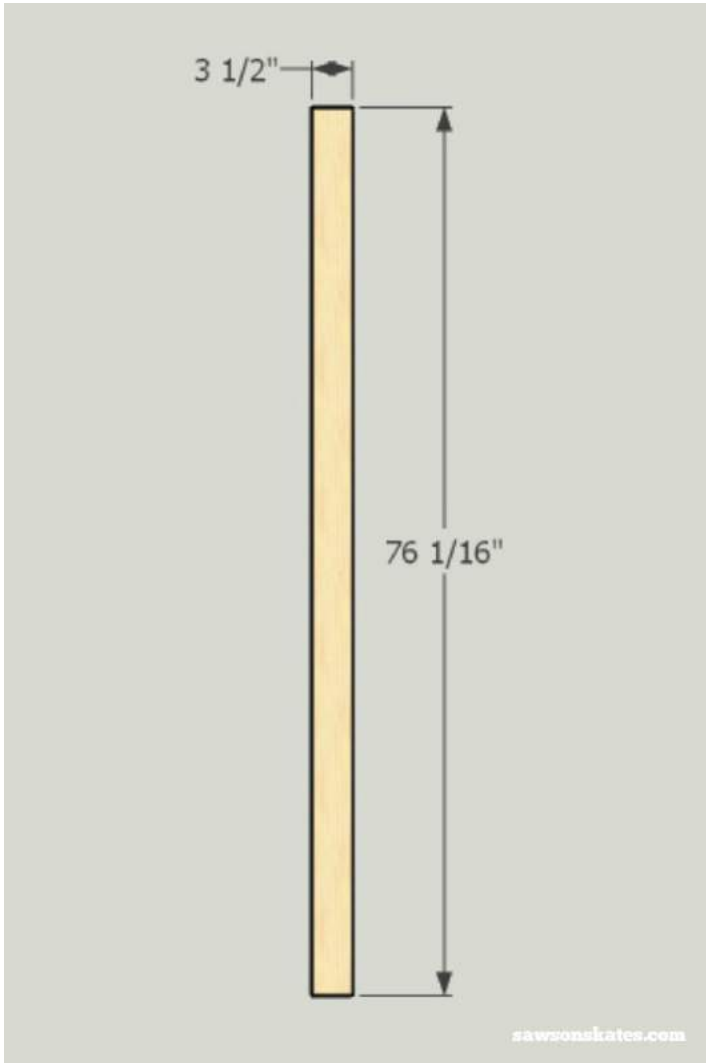
(1) 1x3x6  
(1) 1x4x6  
(2) 1x4x8  
(1) 1x6x6  
#10 Plate Joiner Biscuits  
#20 Plate Joiner Biscuits  
Waterproof wood glue  
1-1/4" weatherproof pocket screws  
Screen door hardware kit

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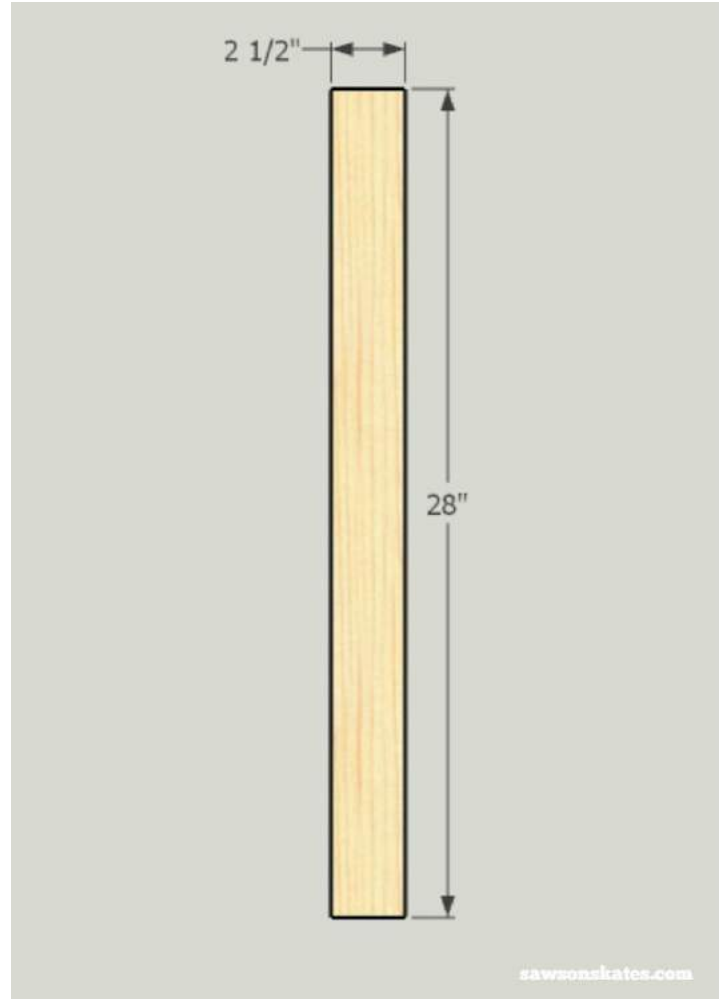
## Tools

Stanley FatMax Tape Measure  
Miter saw  
Plate joiner  
Router with fence  
1/8" straight router bit  
Kreg Multi-Mark  
Kreg Jig (optional)  
Dewalt Cordless Drill  
Purdy Cub Paint Brush

**Step 1.** Cut the Stiles. Cut 2 pieces of 1×4 to 76-1/16".



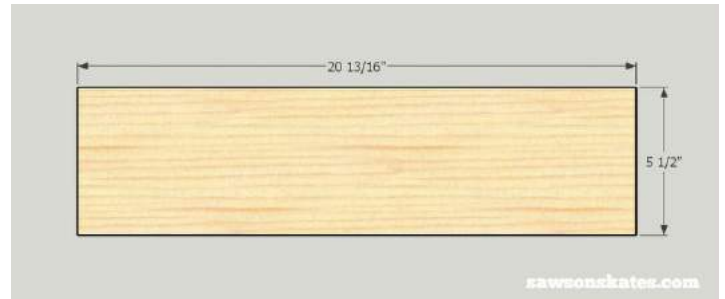
**Step 2.** Cut the Mullion. Cut 1 piece of 1×3 to 28".



**Step 3.** Cut the Top Rail. Cut 1 piece of 1×4 to 20-13/16".



**Step 5.** Cut the Bottom Rail. Cut 1 piece of 1×6 to 20-13/16".

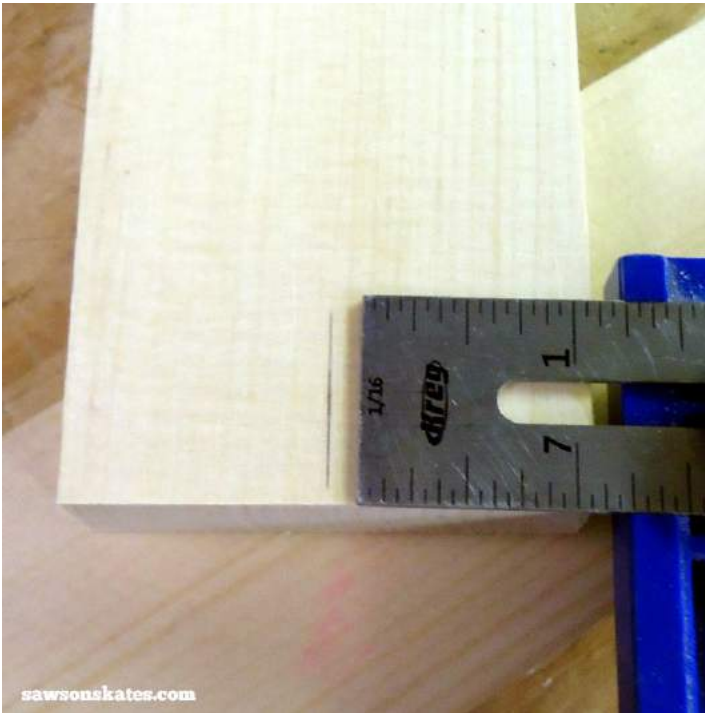


**Step 4.** Cut the Middle Rail. Cut 1 piece of 1×3 to 20-13/16".

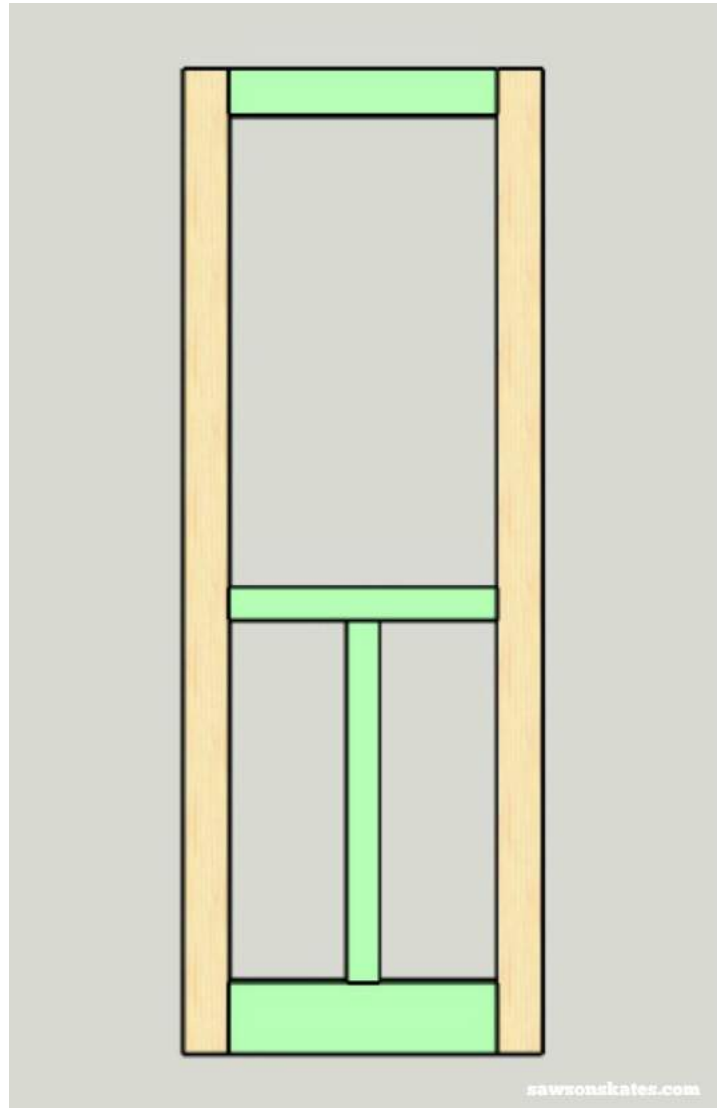


**Step 6.** Cut the Biscuit Joints. Layout the pieces. Use the Kreg Multi-Mark to locate the centers of the rails and mullion.

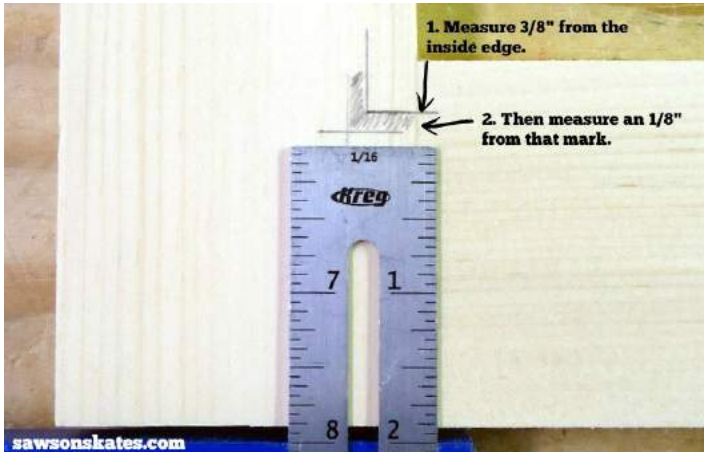
**Step 7.** Assemble the Frame. Layout the pieces and test fit biscuits in all of the joints. Re-cut any joints if necessary. Apply glue to all of the joints,



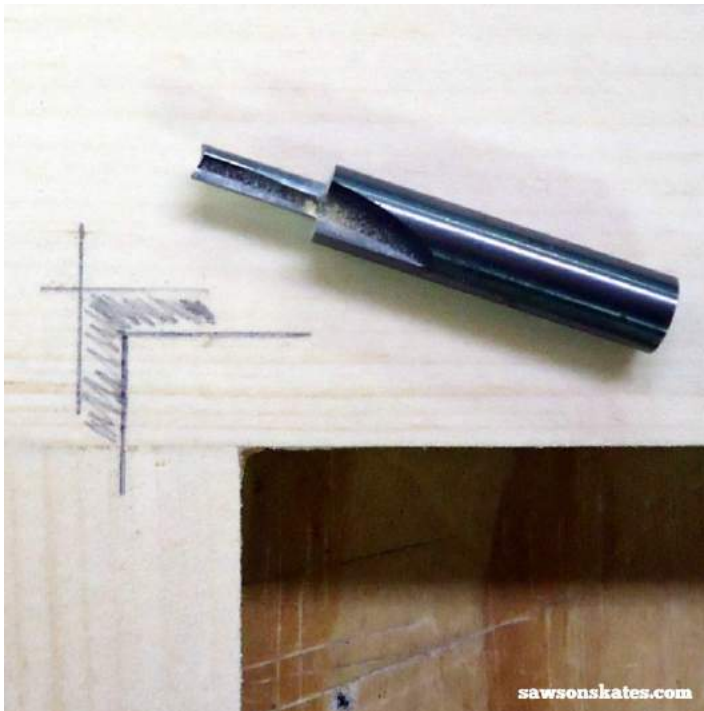
Transfer those marks to the stiles and label each joint. I set the plate joiner for #10 biscuits for the 1×3 joints and #20 for the 1×4 joints and cut the joints.



**Step 8.** Layout the Dado for the Spline. The spline will be used to hold the screen material in place. Using the Kreg Multi-Mark measure  $3/8$ " from the inside edge of the frame and make a mark. Then measure  $1/8$ " from that mark – this is the area where the dado will be cut for the spline. These marks will establish the corners, so we'll know where to end the cut.



**Step 9.** Cut the Dado. The dado will be cut using a router and a  $1/8$ " straight router bit.



Using the Kreg Multi-Mark set the bit depth to  $1/4$ ".



Using the layout lines drawn in Step 8 set the router fence, so it will cut within the layout lines. My recommendation is to start with the sides and top first as they are the same width. Starting in the corner, plunge the router bit into the layout line and work towards the opposite corner. Stop the router when you get to the mark on the opposite corner, remove the router, reposition on the next side and repeat for the remaining sides. For the bottom, adjust the fence to the proper depth and finish cutting the dado.





An easy way to remove the sawdust from the dado is with a shop vac.



**Step 10.** Drill Pocket Holes (optional). This step is optional, but highly recommended as it will add extra strength to the door. Drill pocket holes in the ends of each rail and attach using 1-1/4" pocket screws. Cut plugs using a pocket hole plug cutter. Apply glue to the plugs, insert into the pocket holes and sand the plugs smooth once the glue is dry.



**Step 11.** Finish the Screen Door. Sand the door smooth, then paint or stain the door. If painting apply a quality primer and several coats of paint. I enjoy painting, but the tendonitis in my hands hates painting. I love the lightweight Purdy Cub Paint Brush because it's much easier on my wrist than a full size brush, it's easy to control and gives a quality finish.



**Step 12.** Install the Screen. Check out my How to Replace a Window Screen post for easy instructions on installing the window screen.