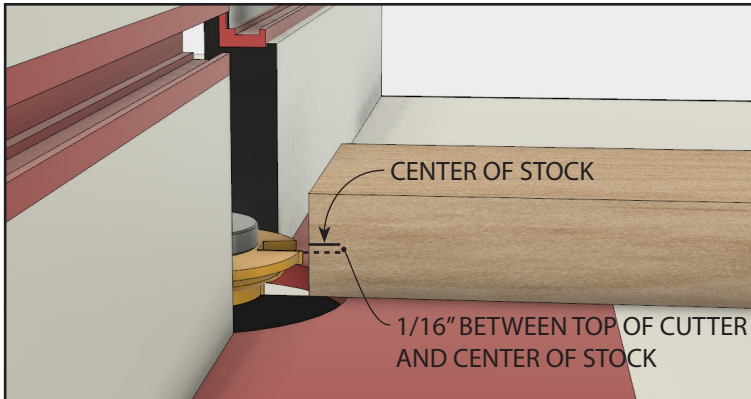




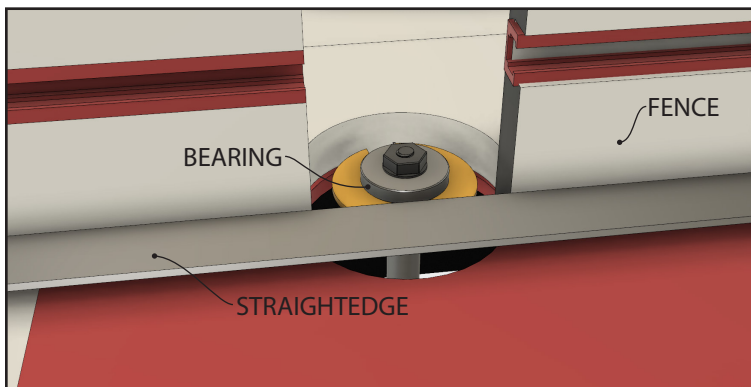
Build rail-and-stile doors with 1/8" thick glass panels using this two-piece router bit set. The ogee profile bit produces the front profile and trim in one pass. Simply route your stock and rip the trim from the back of stiles and rails according to the instructions below. These bits work in 1" thick material.

## Step 1: Install the coping bit.



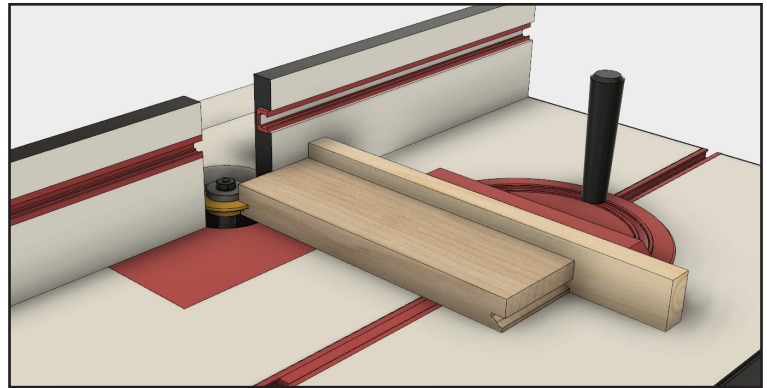
When using any rail-and-stile router bit set, it's always a good idea to make the cope cuts first. Insert the coping bit in your router and set the bit's height so that the top of the cutting edge is 1/16" below the center of the stock.

## Step 2: Set the fence.



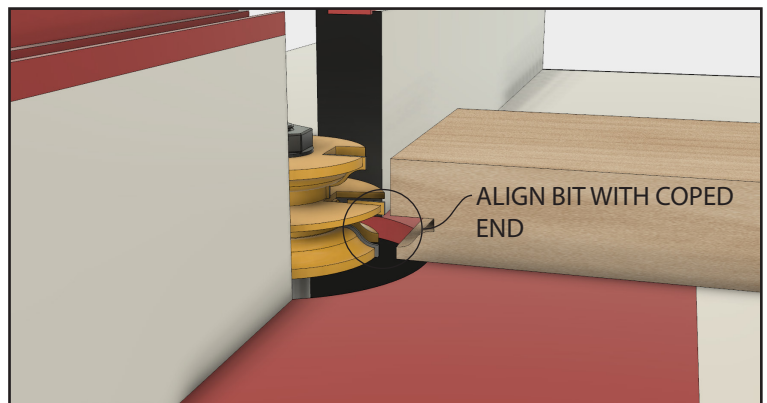
Use a straightedge to align the fence with the router bit's bearing. Place the straightedge against the bearing and pull the fence forward until flush. Lock the fence in place.

## Step 3: Make the cope cut.



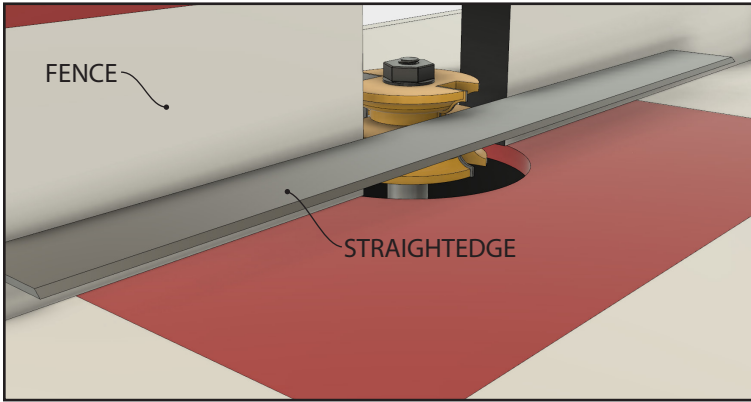
Attach a backer board to your router table's miter gauge to prevent tearout in the rails. Make the coping cut with the stock face down. Route one end of a rail, and then rotate the part 180 degrees, keeping the material face down. Cope the second end. Repeat this process for each rail.

## Step 4: Insert the profile bit.



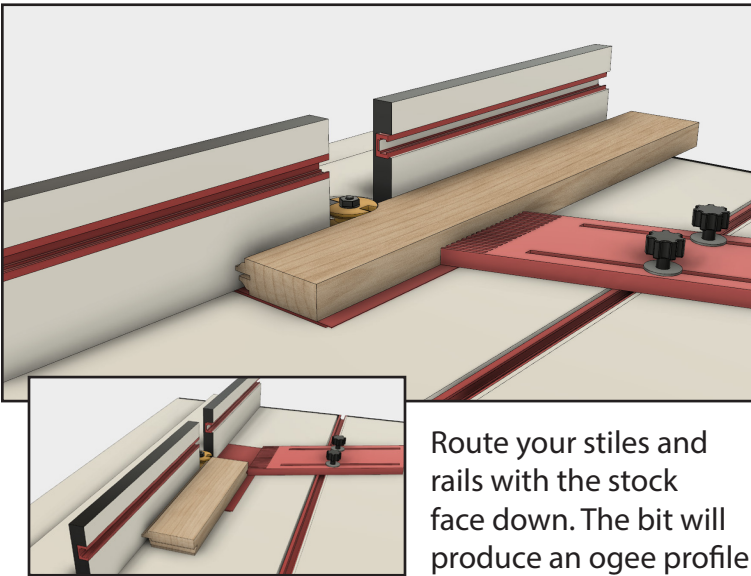
Remove the coping bit and replace it with the profile cutter. Place one of the coped rails face down on the table and adjust the bit's height so that the cutter aligns with the cope in the end of the rail.

### Step 5: Position the fence.



Use a straightedge to align the fence with the flat edge of the upper profile cutter as shown in the illustration. You should be able to rotate the bit freely with your finger when the fence is properly positioned.

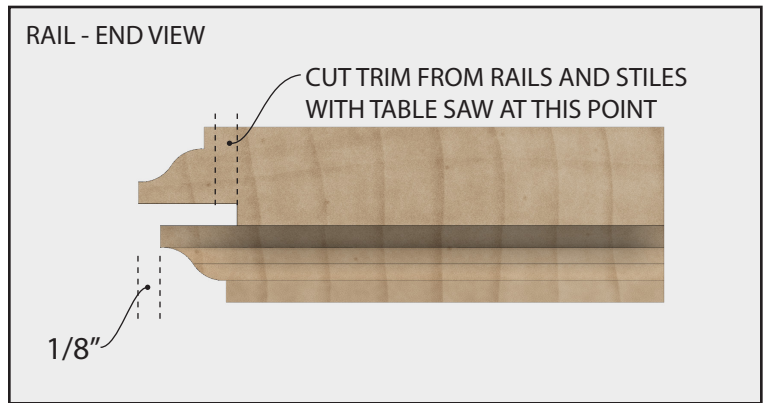
### Step 6: Route the profile.



Route your stiles and rails with the stock face down. The bit will produce an ogee profile in the top and bottom faces of the material.

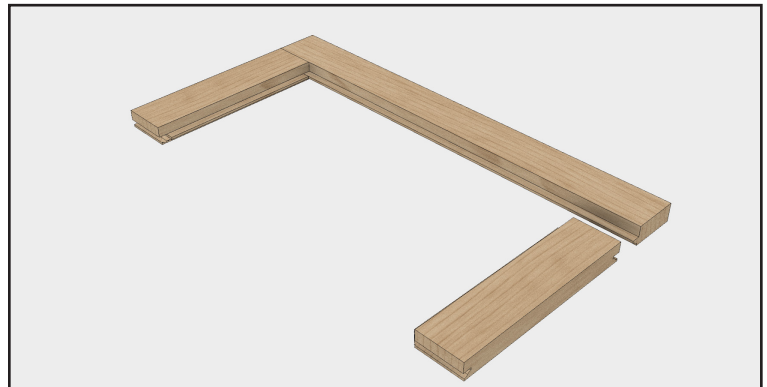
You may notice that the profile in the back face of the stock is deeper than that of the opposite face by 1/8".

### Step 7: Rip the trim from the rails and stiles.

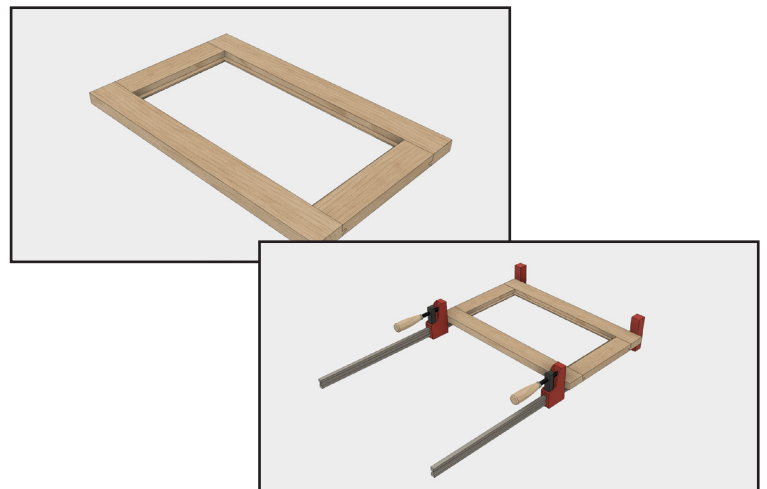


The profile bit simultaneously produces the ogee profile in the face of the stock and the trim that will hold your glass panels in place. After routing the profile, remove the trim from the rails and stiles by ripping the stock face up on the table saw. The 1/8" difference between the top and bottom profiles allows for the saw blade's thickness.

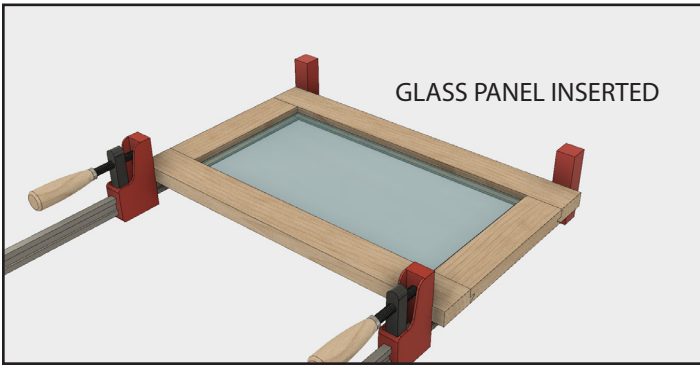
### Step 8: Assemble the door.



Apply glue to the coped ends of the rails. Insert the rails into the stiles and clamp the door together until the glue has dried.



## Step 9: Miter the trim for the glass.



While the glue is setting, miter your trim to fit the inside of the door frame. You can install the 1/8" thick glass panel and the trim with the door in the clamps. Insert the panel, place the trim inside the opening and attach it to the door with small brad nails.

