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Designed by Steve Good



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Printing Instructions



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Fretsaw Scroller Whirligig Guy





Setting the depth of the blade to cut the slot for the steel.



Cut a slot in the edge of the main board deep and wide enough to hold the steel rod. I used a table saw set to a depth of about $\frac{3}{8}$ ". I made two passes until the slot was wide enough for a loose fit.



You want the slot deep and wide enough for a loose fit.

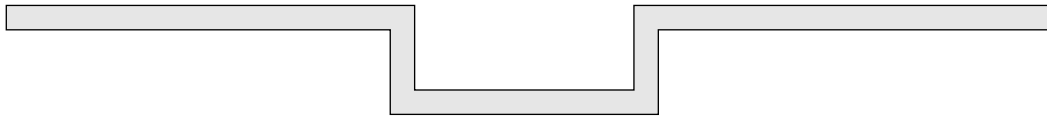


I used 1/8" steel rod from Home Depot. The green wire is floral wire. I used that to connect the arm to the steel rod.



I am marking the main board for the steel rod bend are cutout. It's easier to cut this after the steel rod is bent. The plans call for the cut out to be 7 inches from the front but you can slightly readjust this measurement to match the bent steel rod.

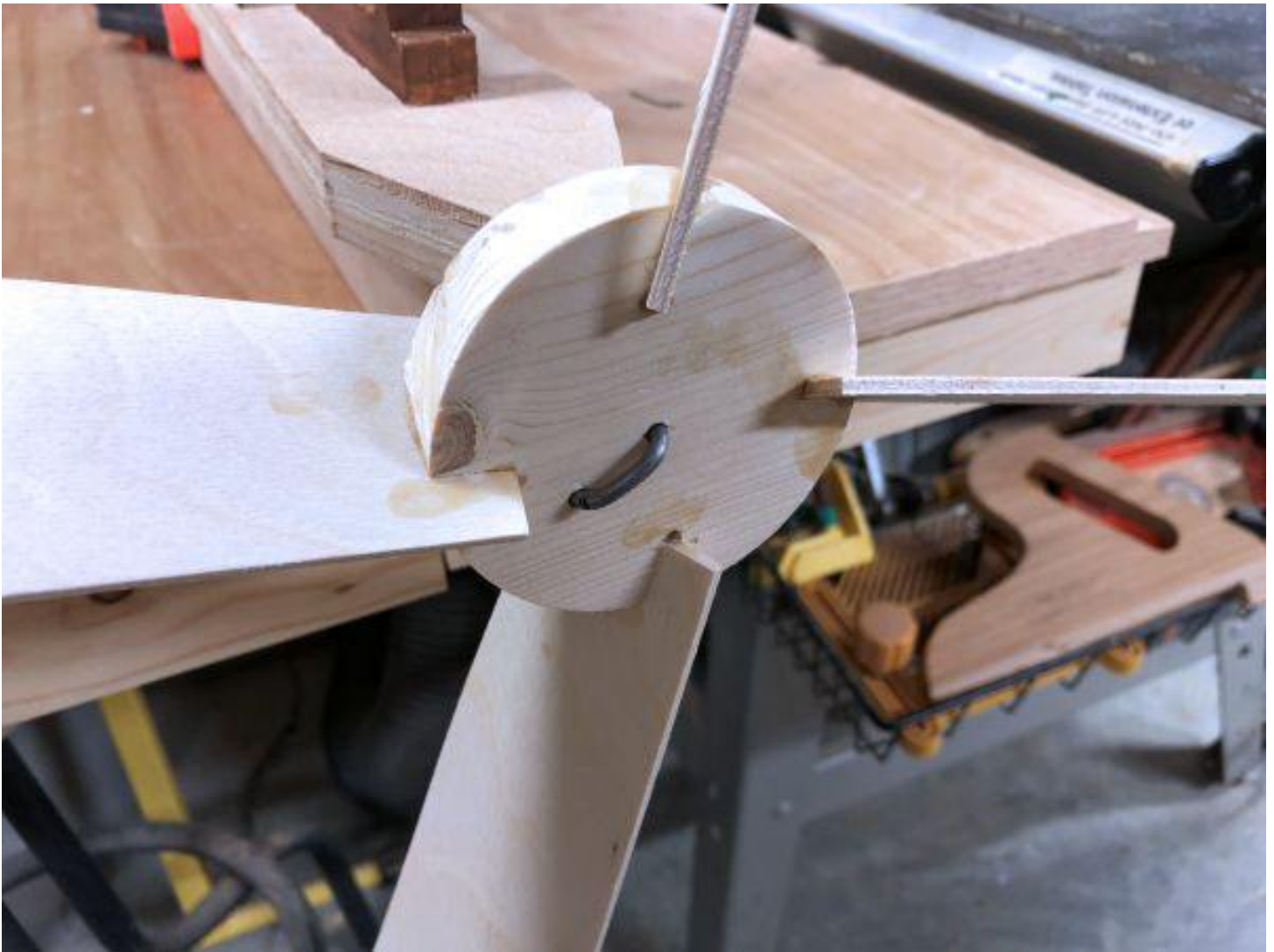
Wire Bend Guide



The amount of up and down movement of the cutting arm is determined by the bend in the steel rod. I had to make a couple of rod bends until I got the correct motion. I still ended up with a little more motion than I wanted.



Here is the wind mill section with the steel rod installed.



I drilled a center hold and an offset hole for the steel rod. Push the rod through the hub. Bend it at two right angles and push the rod back into the hub to lock it in place. You can add a little epoxy to hold it in place.



I tapered the ends of the main board and top board to give the fins clearance and to add a more pleasing look.



This cut is for the slot to hold the tail fin. Set the table saw to 1/4" high and make a stop cut long enough for the tail fin. This slot need to be 1/8" wide so it may take two passes to get a good fit.



Tail Fin slot.



Tail fin glued in to the slot.



These two pieces were added to keep the connecting wire from moving too far forward or backward. If I build another one I will just make the cutout smaller.



It took me a few attempts to get the correct length for the connecting rod. Try to get it long enough so that when at the lowest point the fret saw blade is just under the fret saw table.



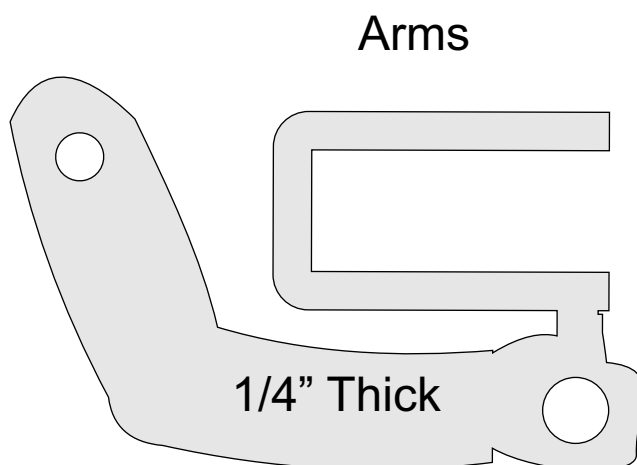
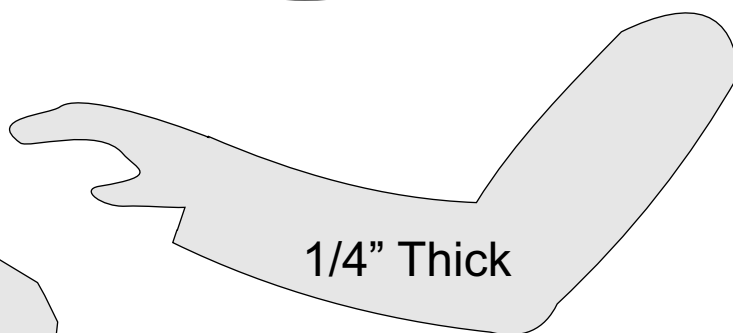
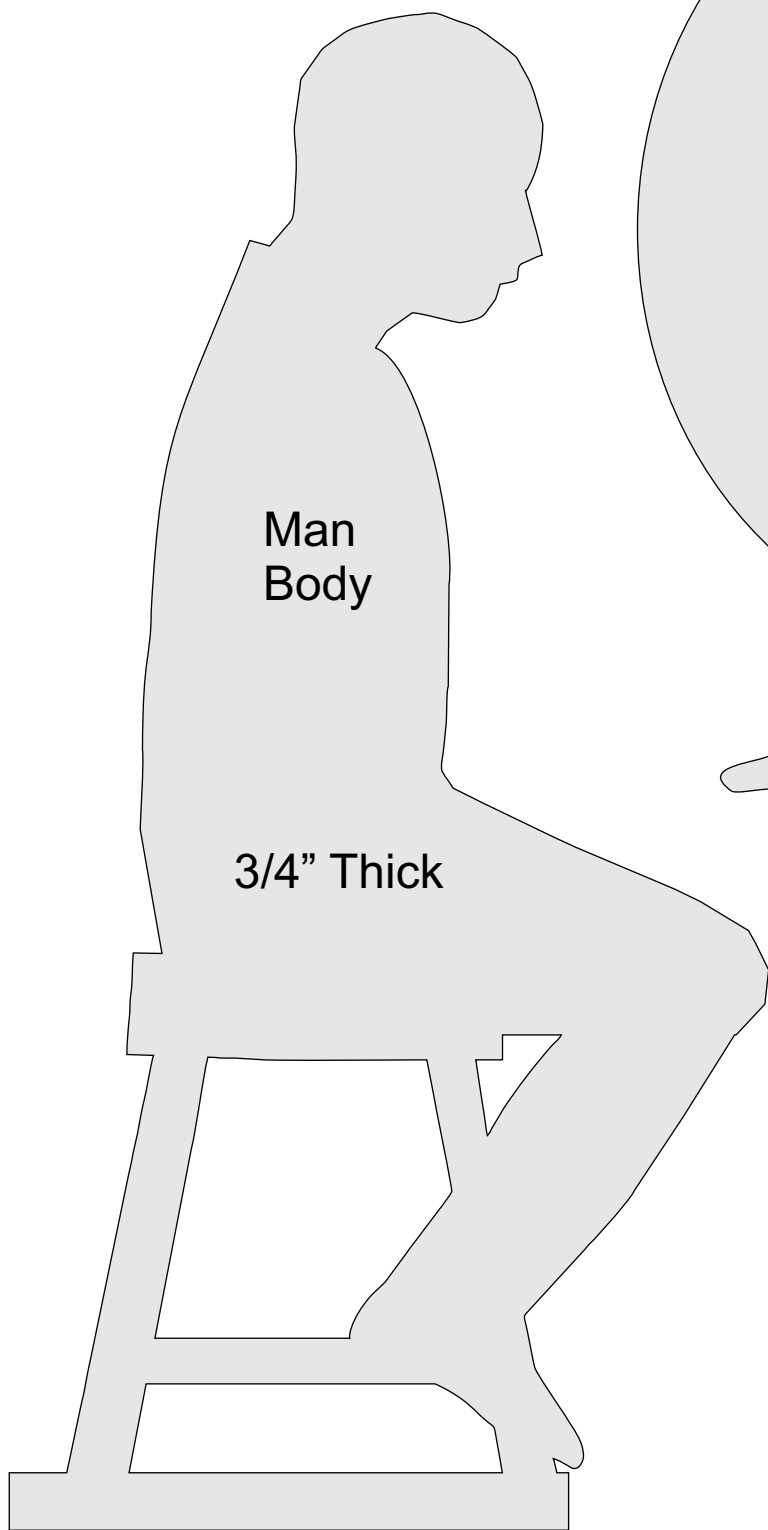
I cut a small section of a real scroll saw blade and glued it into the end of the fret saw. I cut small slots for it to fit into.

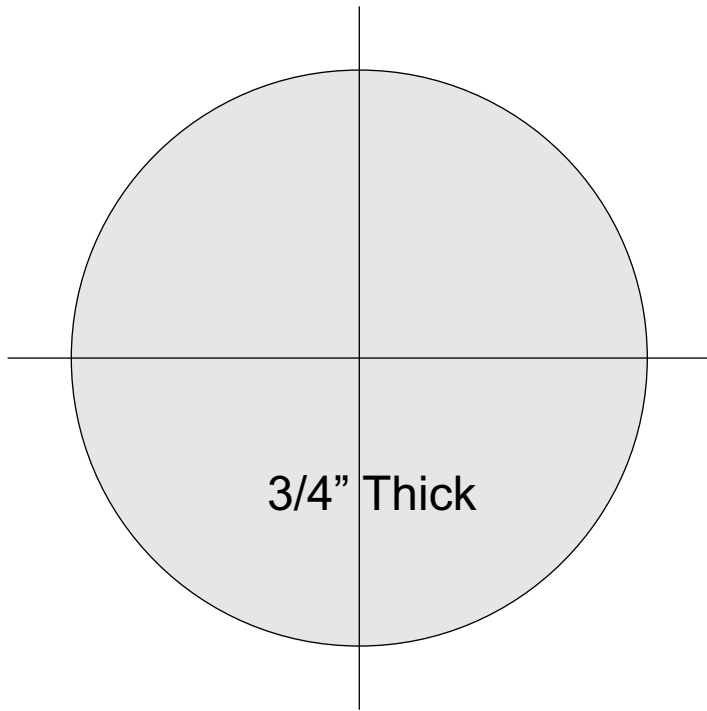


Here is the connecting rod wound around the steel rod.
Just one small wrap holds it in place.



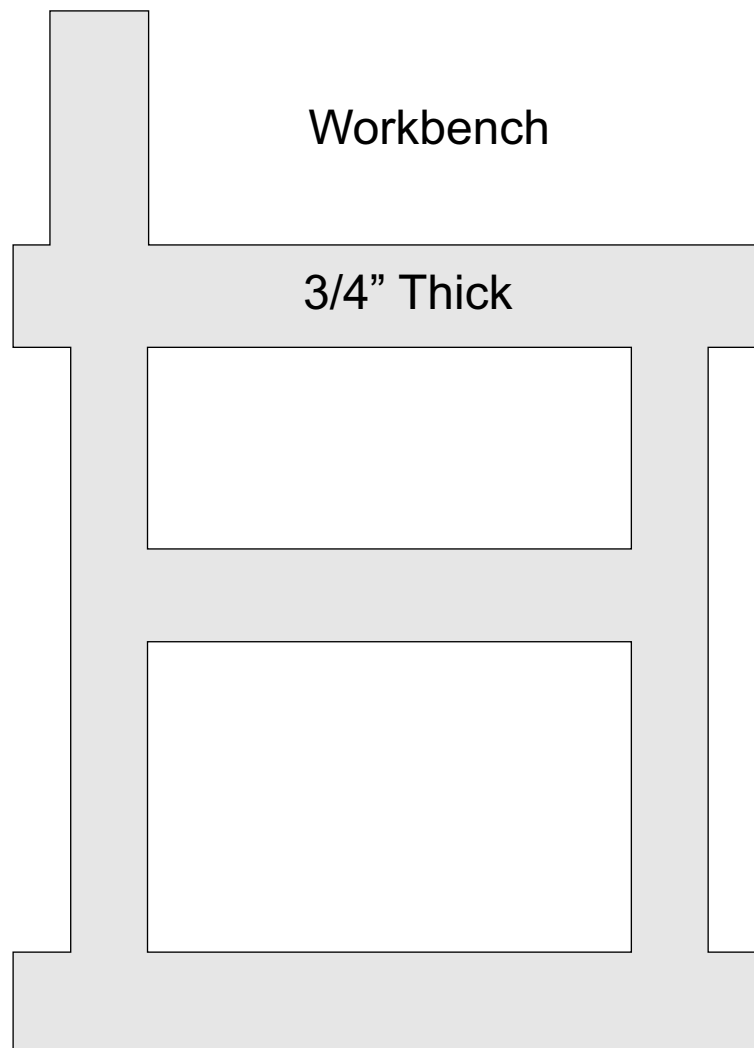
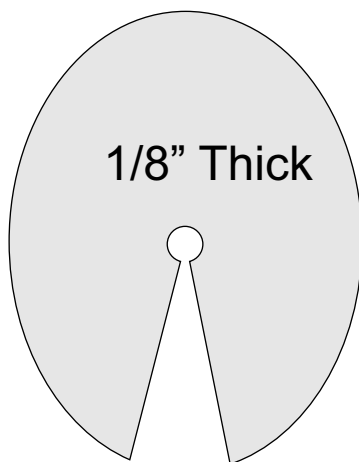
If you plan to leave this whirligig outside you need to protect it. Use waterproof glue like Titebond III. You will need to pain or seal the wood with outdoor rated finish.

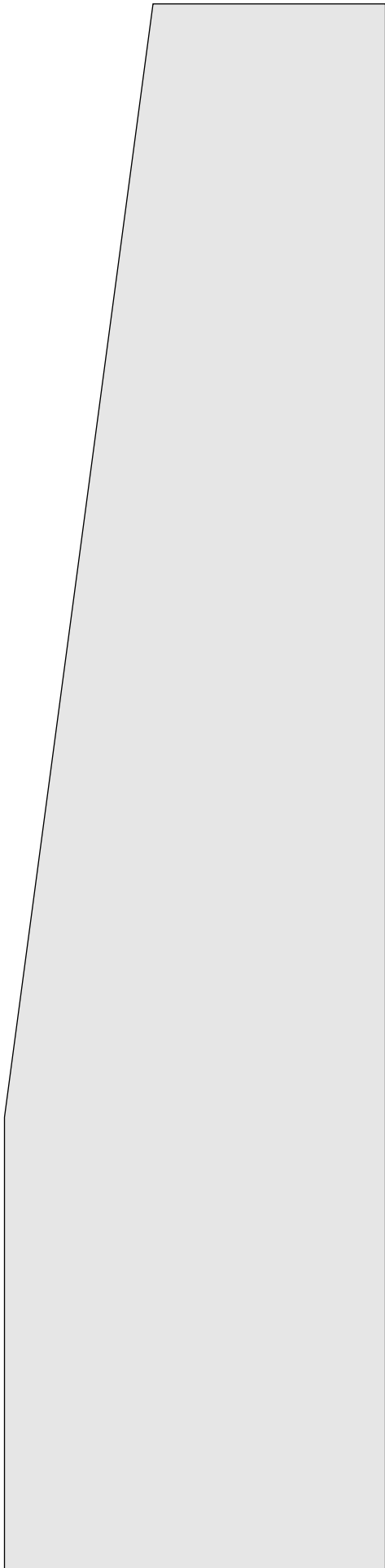




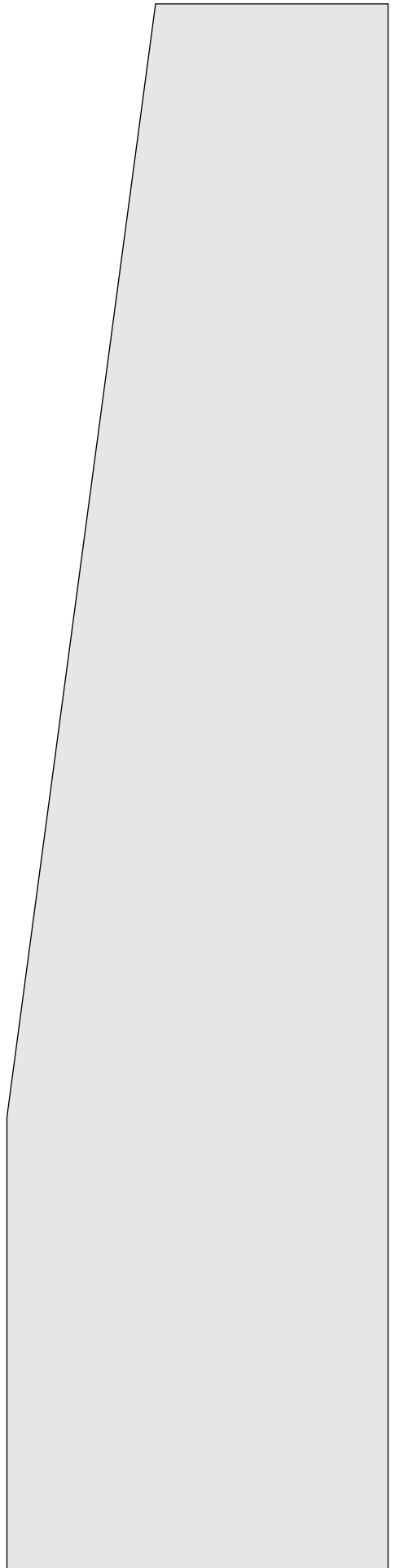
The cross is a positional guide for the fins. I cut the 45 degree slots on the band saw. I set the table angle to 45 degrees and nibbled out a slot 1/8\" wide and about 1/3\" into the hub.

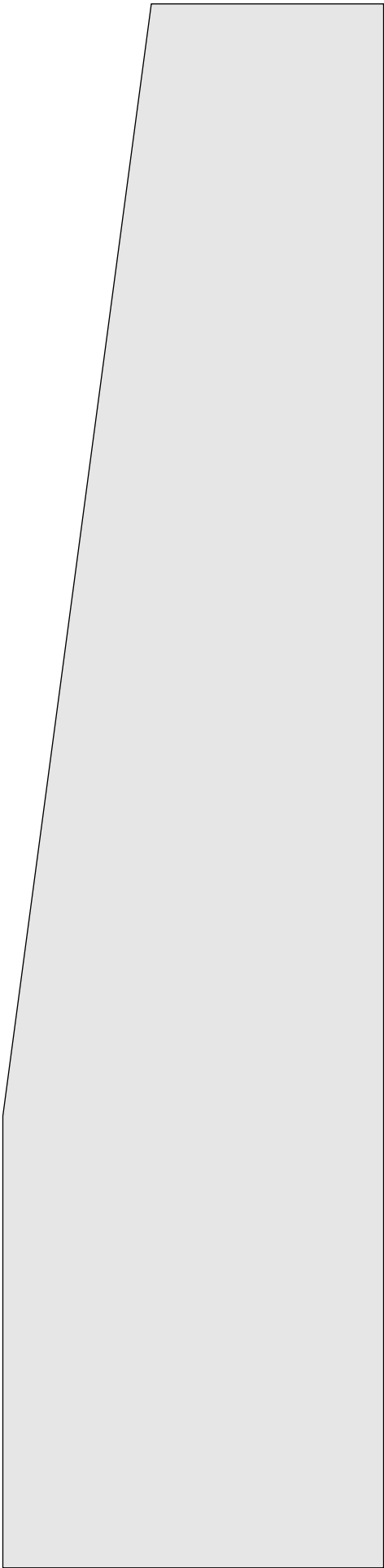
Fretwork Table



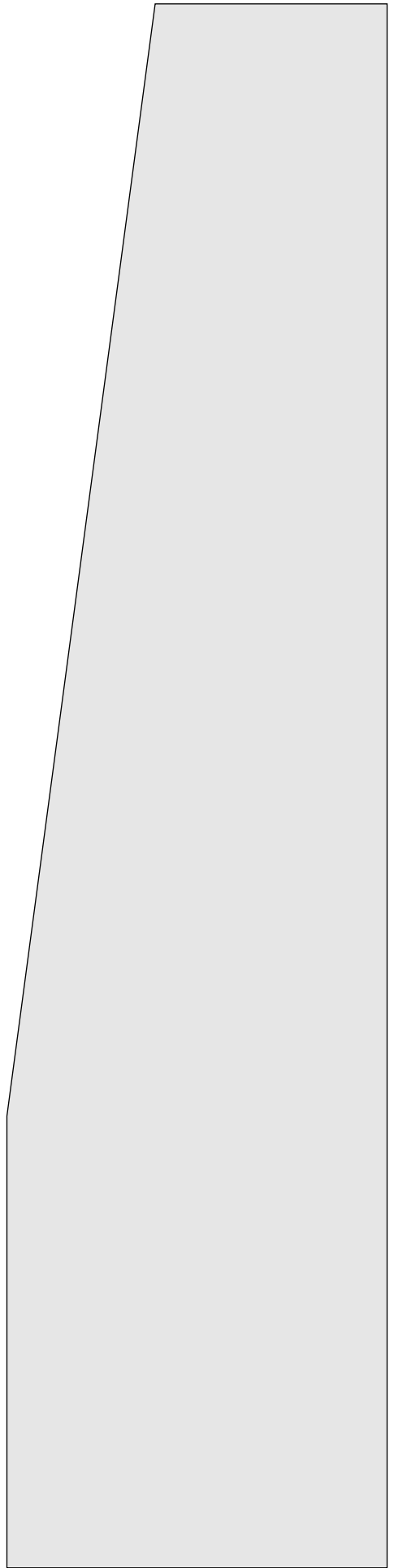


Fins
1/8" Thick





Fins
1/8" Thick



NOT FULL SIZE

