



Tic-Tac-Toe Board

PROJECT PLANS

Finished Dimensions: 18-1/2"W x 1"H x 18-1/2"D

Skill Level: Beginner

Materials

Item	Qty
3/4" x 24"x 48' Sanded Project Plywood *	1
1/2" x 24"x 48' Sanded Project Plywood *	1
1/4" x 36" Square Dowel	2
1/4" x 3/4" x 8' Wood Screen Moulding	1
3/4"x 18-Gauge Collated Nails	1 Box
Sandpaper** : 150g, 220g & 320g	
2" Hole Saw	1
5" Hole Saw	1
Wood Glue	

* 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

OR



Circular Saw



Jig Saw



Drill/Driver



18-GA. Brad Nailer



5" Random Orbit
Sander



Router



Roundover Router
Bit Set



Tape Measure



5" Orbit Sandpaper

Also Needed: Safety Glasses and Clamps

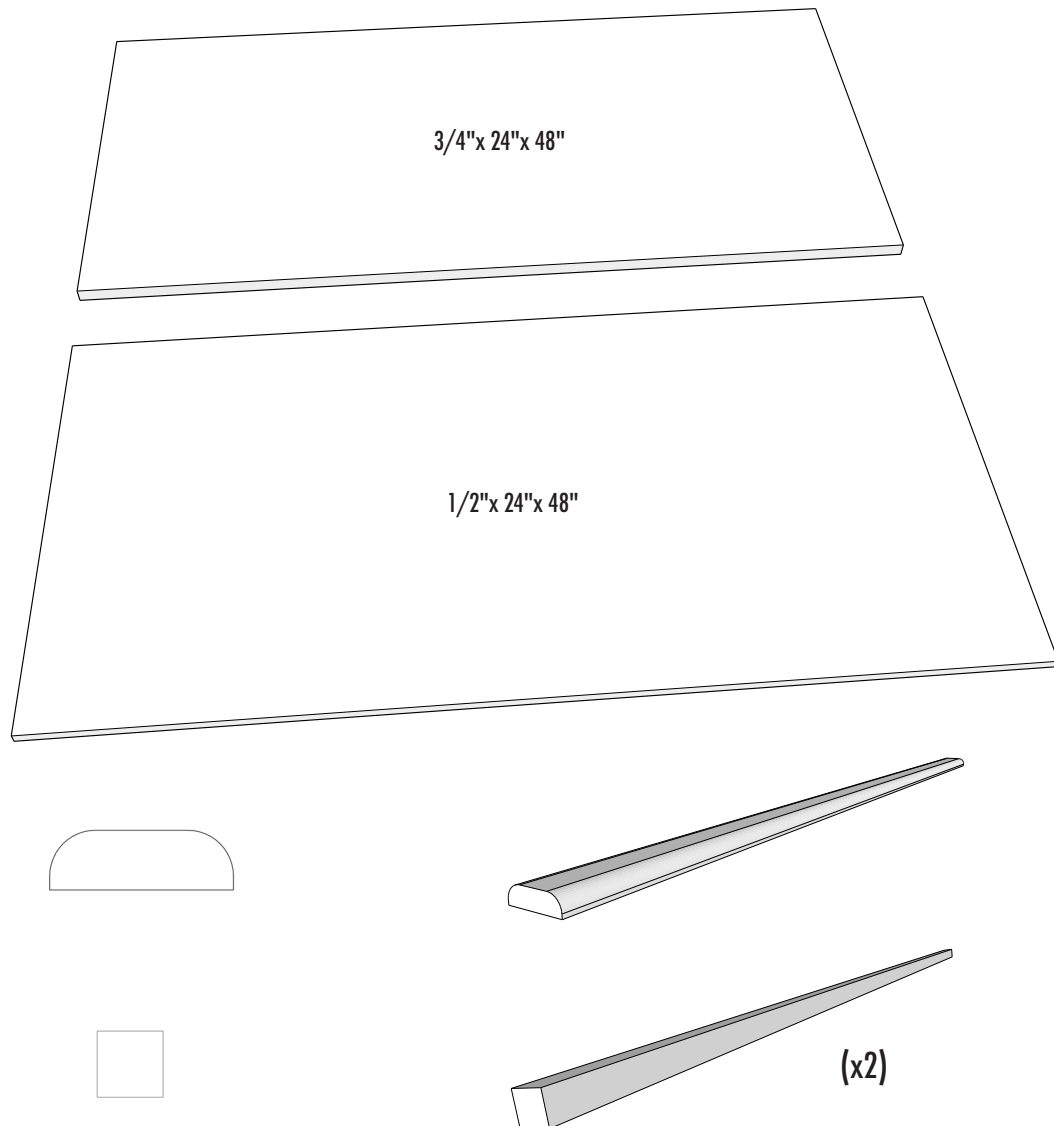
Lumber Cut List

Board*	Description	Cut to	Qty
3/4" x 18" x 18"	Base Board	-	1
1/4" x 1/4"	Long Grid Partitions	18"	2
1/4" x 1/4"	Outside Partition Segments	5-7/8"	4
1/4" x 1/4"	Inside Partition Segments	5-3/4"	2
1/4" x 3/4"	Perimeter Moulding	18" (SD)**	4

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

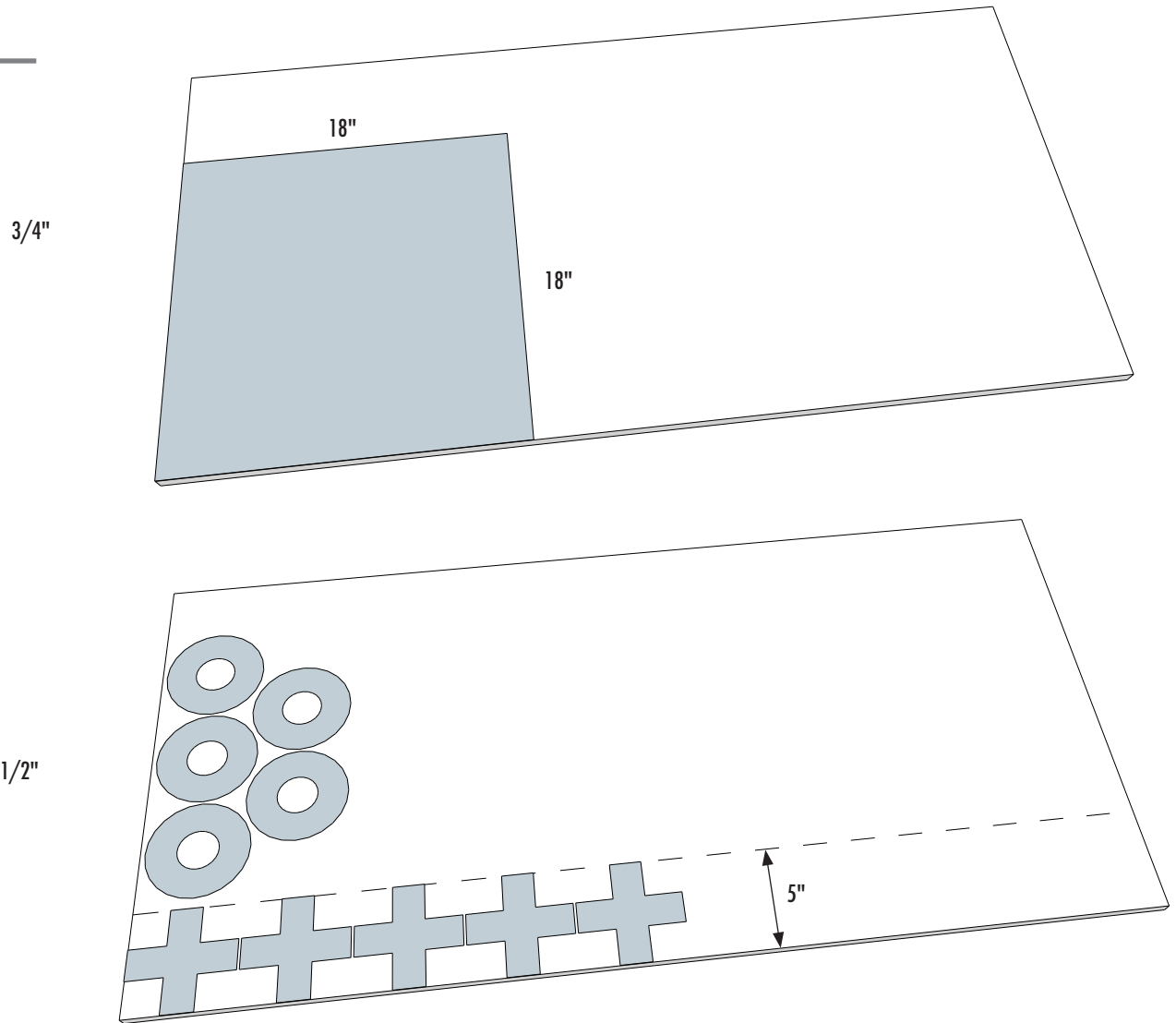
** (SD) Short Dimension of both angle cuts.

Lumber & Sheet Layout Guide

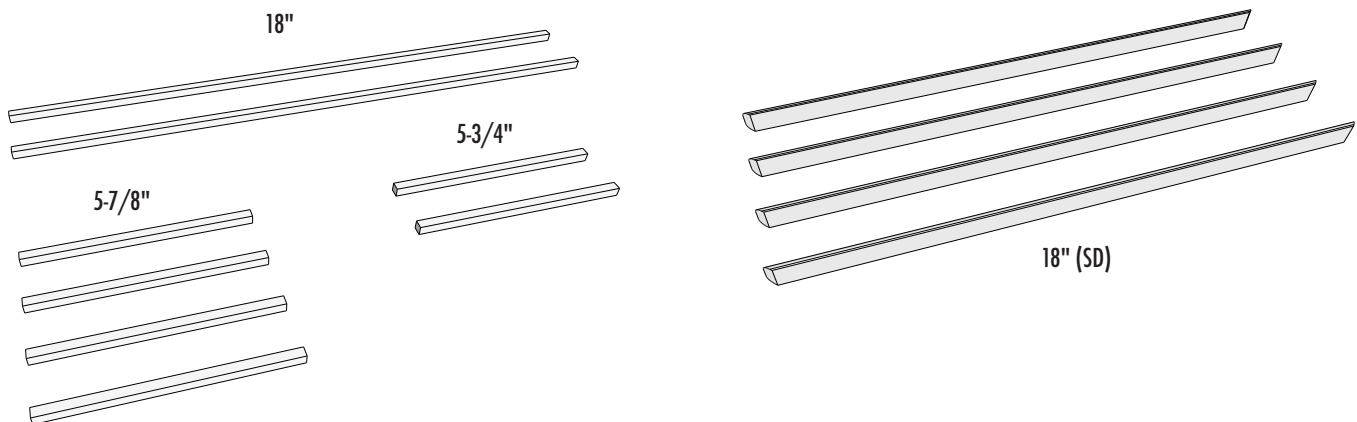


Lumber & Sheet Cut Layout Guide

Sheet



Trim



Assembly Instructions

Step 1



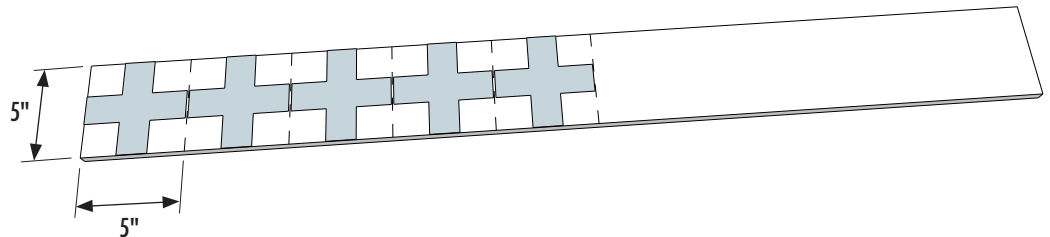
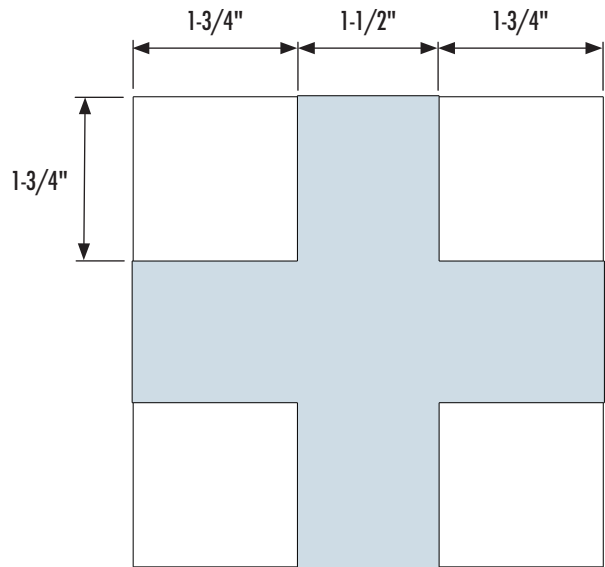
Cut out all material using the Lumber & Sheet Cut Layout Guide.

Step 2



Mark a line on the 1/2" sheet of plywood that is 5" from the edge. Cut with a circular saw.

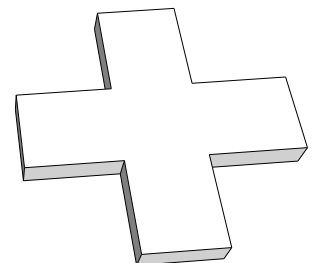
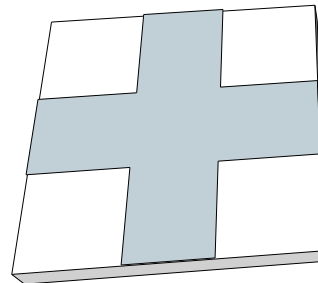
Cut (5) 5" x 5" squares with a miter saw. Follow diagram to mark measurements for the X shape.



Step 3



Clamp the 5" x 5" squares to a secure surface and cut the X shape out with a jig saw.

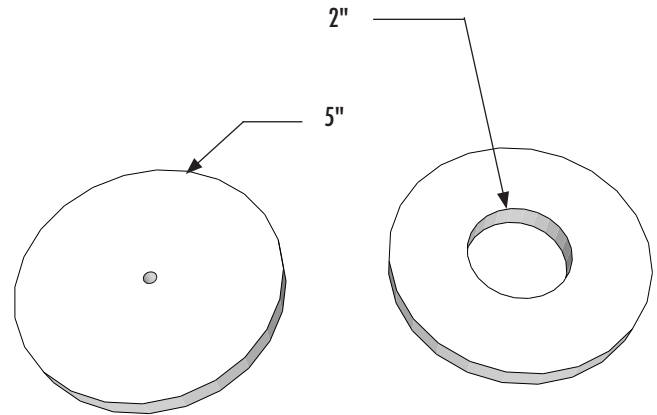


Step 4



Use a 5" hole saw to cut (5) circles out of the 1/2" sheet of plywood.

Clamp the circles to a secure working surface. Use the pilot hole from the 5" hole saw as a guide to cut a 2" hole.

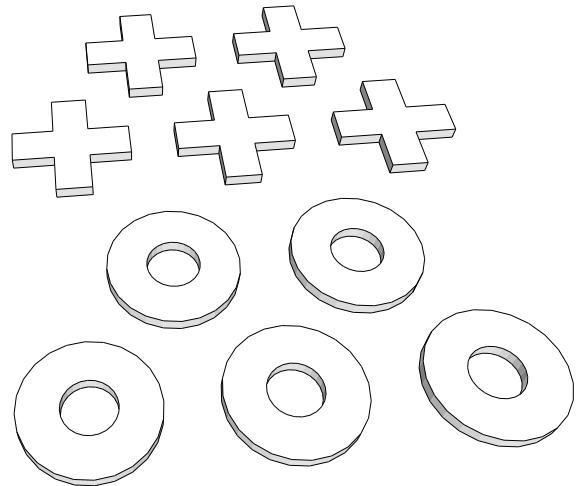


Step 5



Use a 1/8" round over bit and router to go over all edges.

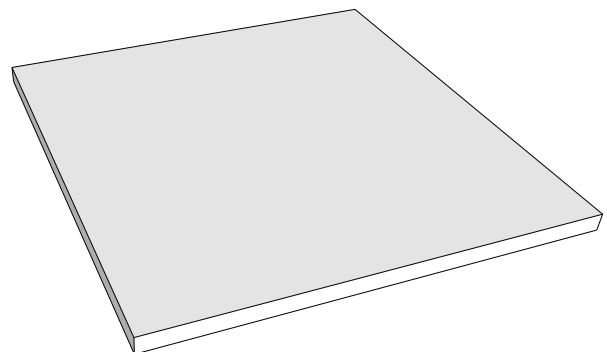
Sand as needed. See sanding information on Page 9.



Step 6



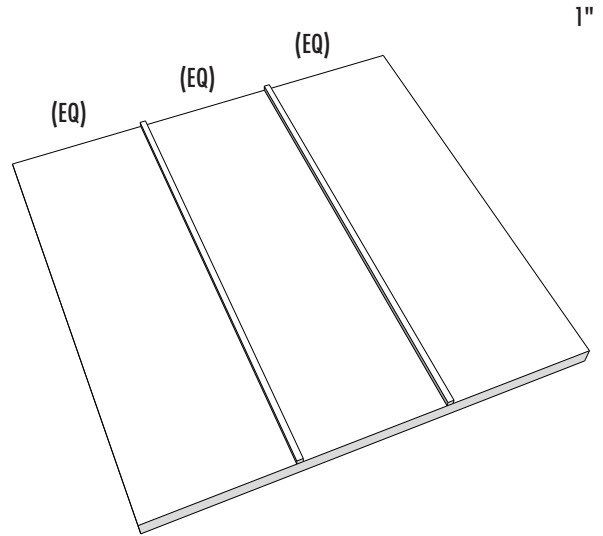
Sand the top and bottom of the 18" x 18" board. Be sure to leave the edges and corners sharp.



Step 7



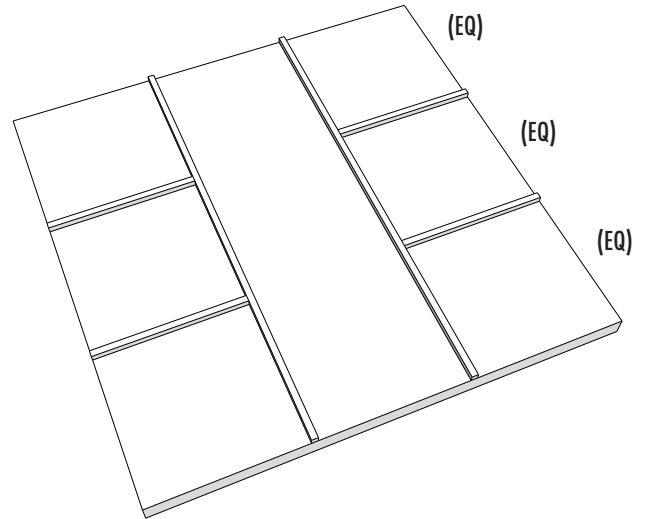
Divide the board vertically into (3) equal parts.
Place the center of each 18" board on the line.
Glue and nail to base board.



Step 8



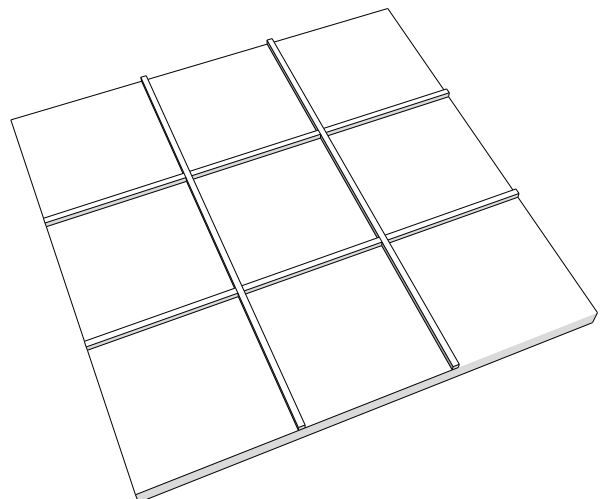
Divide the board horizontally into (3) equal parts.
Place the 5-7/8" pieces on the outside lines drawn.
Glue and nail to the base board.



Step 9



Place the (2) 5-3/4" inside partition segments in line with the outside segments.
Glue and nail to the base board.

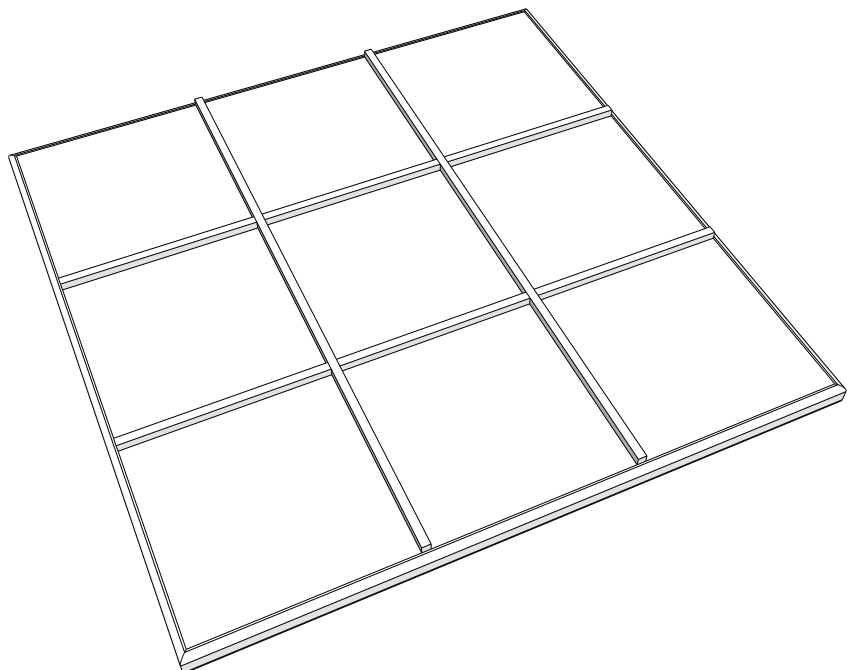
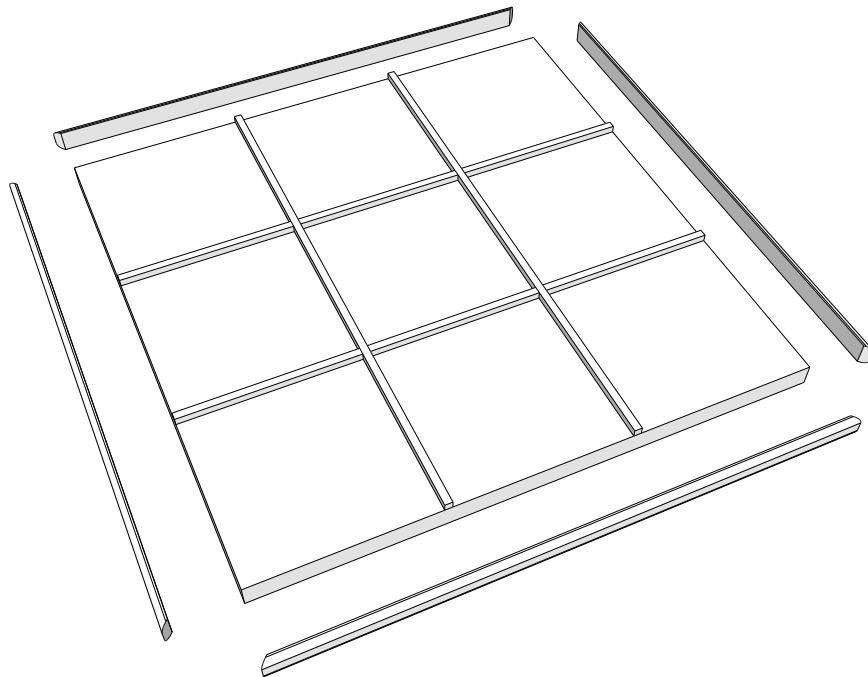


Step 10



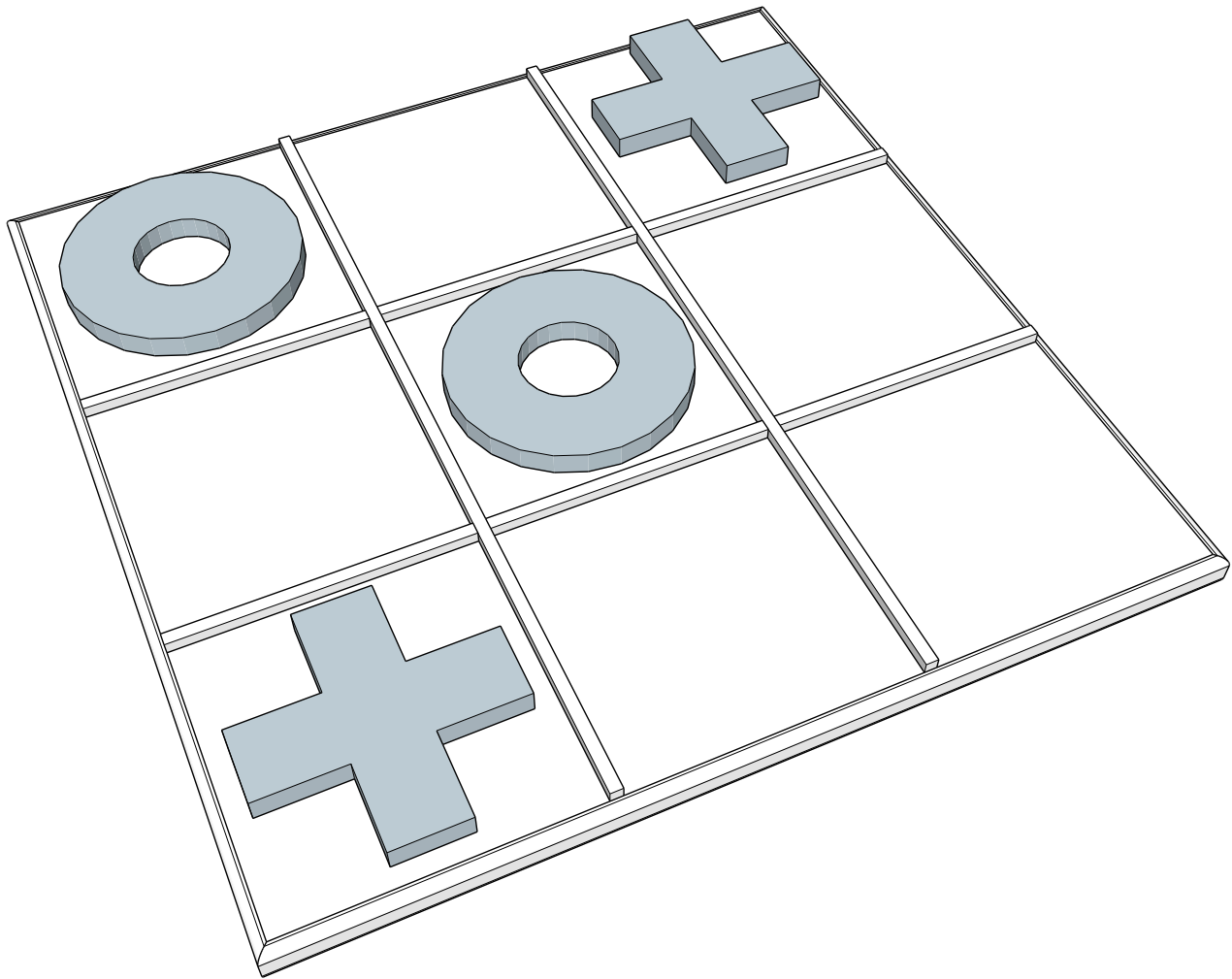
Align the (4) perimeter strips along the edge of the base board.

Glue and nail together.



Step 11

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