

Doghouse

PROJECT PLANS

Finished Dimensions: 36"W x 31-1/4"H x 31-1/2"D

Skill Level: Beginner

Materials

Item	Qty
1" x 3"x 8' Board*	2
1-1/2" x 36" Dowel	3
1-1/2"x 18-Gauge Collated Nails	1 Box
#10 x 1-1/2" Flat Head Phillips Screws	6
1/4"x 1-1/8" Fluted Dowel Pins	1 Package
3/8" Wood Plugs for countersink holes	1 Package
Sandpaper* *: 150g, 220g & 320g	
Drill Bits: 1/8"	
Wood Glue	
Dog Bed 24"x 30"	

* 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



Drill/Driver



18GA Nailer



5" Random Orbit Sander



Tape Measure



Drill Bits



Driver Kit



Countersink Set



5" Orbit Sandpaper

Also Needed: Safety Glasses, Speed Square and Clamps

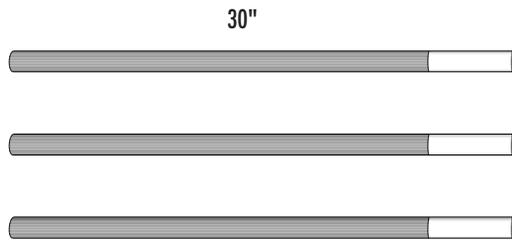
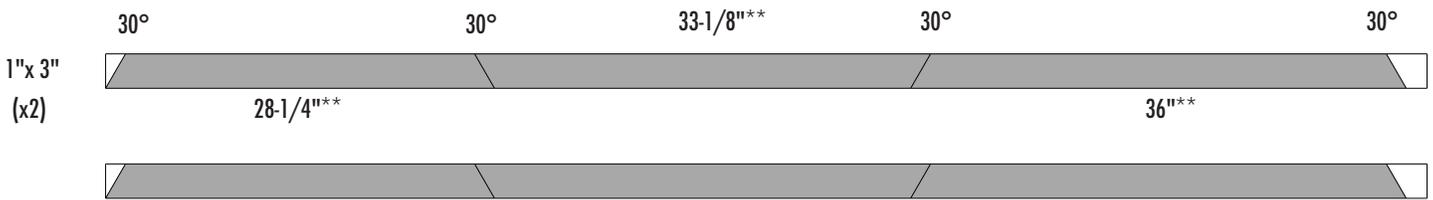
Lumber Cut List

Board*	Description	Cut to	Qty
1" x 3"	Right Side Frame	36" (LD)**	2
1" x 3"	Left Side Frame	33-1/8" (LD)	2
1" x 3"	Bottom Frame	28-1/4" (LD)	2
1-1/2"	Round Dowel	30"	3

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

** (LD) Long Dimension, to measure from the longest lengths of two angles.

Lumber & Sheet Layout Guide

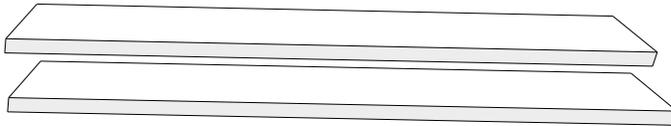


Lumber & Sheet Cut Layout Guide

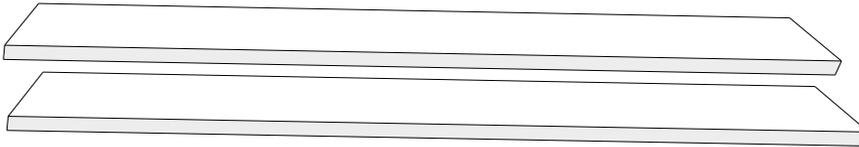
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Boards

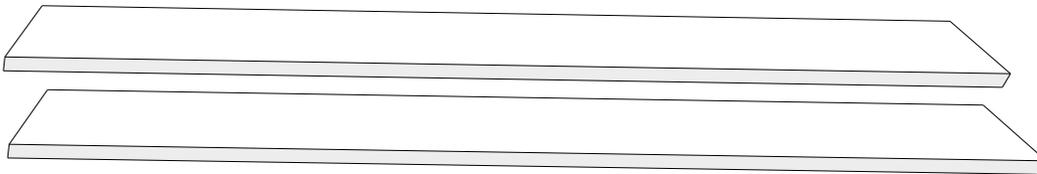
28-1/4"***



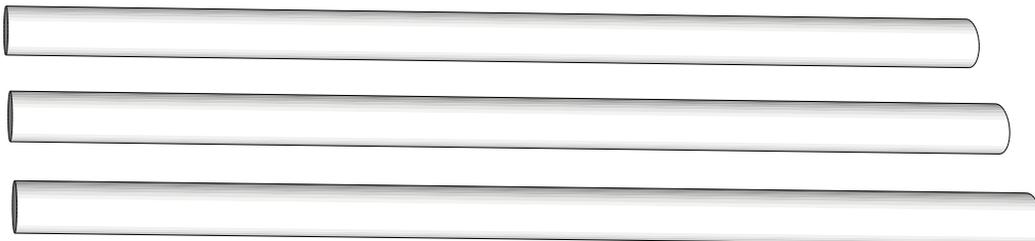
33-1/8"***



36"***



30"



Assembly Instructions

Step 1



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

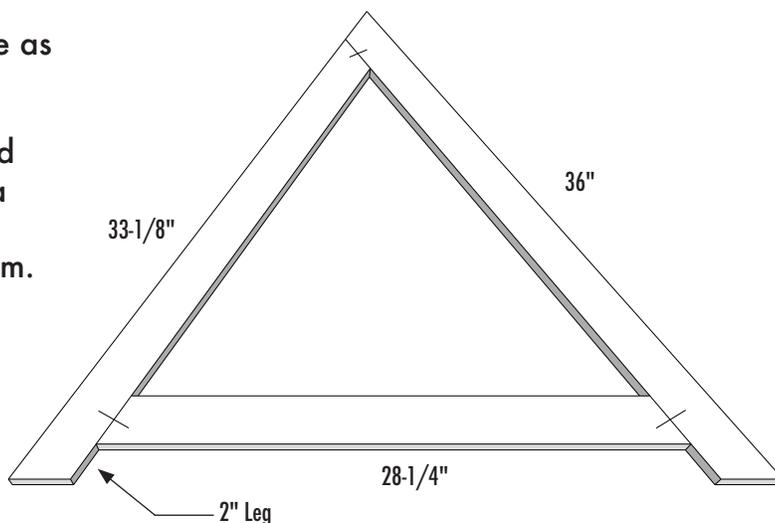
Some initial sanding can be done after cutting the boards and panels. Sanding pieces prior to building can make the process easier before final assembly. Refer to last page for sanding information.

Step 2



Align one of each frame boards into triangle as seen in diagram.

Find mid-point on both sides of bottom board as well as top end of left side frame. Mark a line perpendicular to mid-point. Then extend line across to connecting board as in diagram.

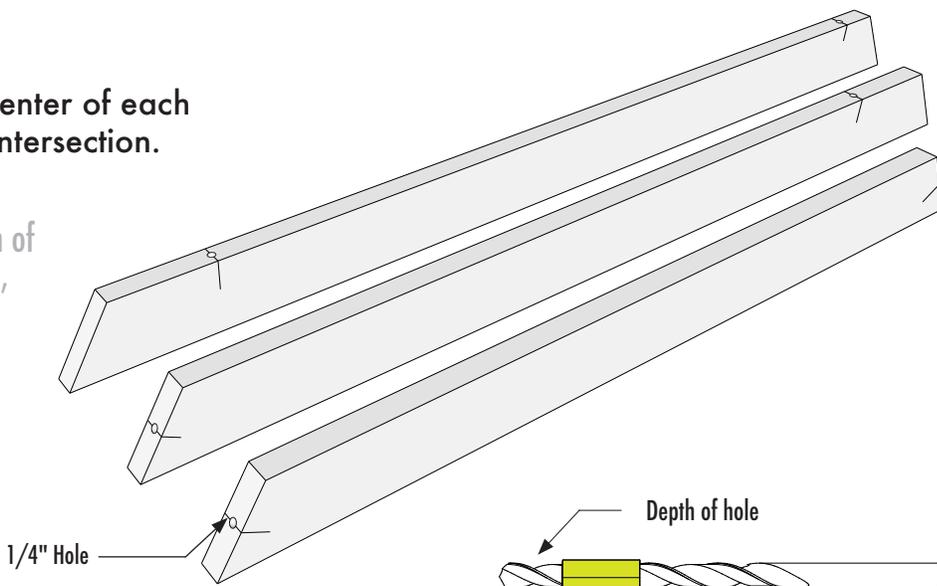


Step 3



Drill a 1/4" hole, 5/8" deep in center of each board at location of each mark intersection.

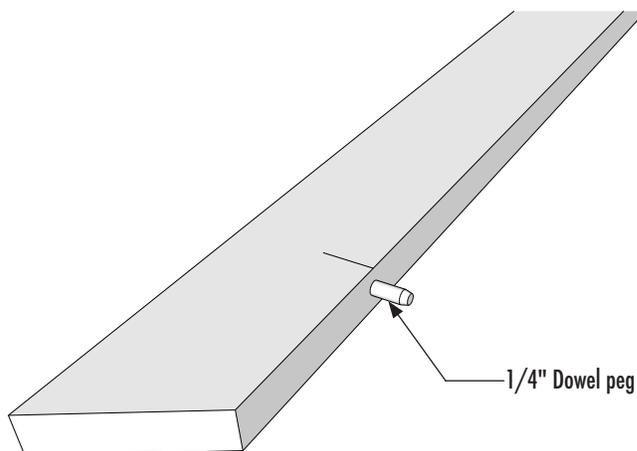
Tip - Wrap masking tape to set the depth of the hole. When the tape meets the wood, stop drilling.



Step 4

Place a small amount of glue into hole located on lower part of left side frame board.

Push dowel peg half way into hole.

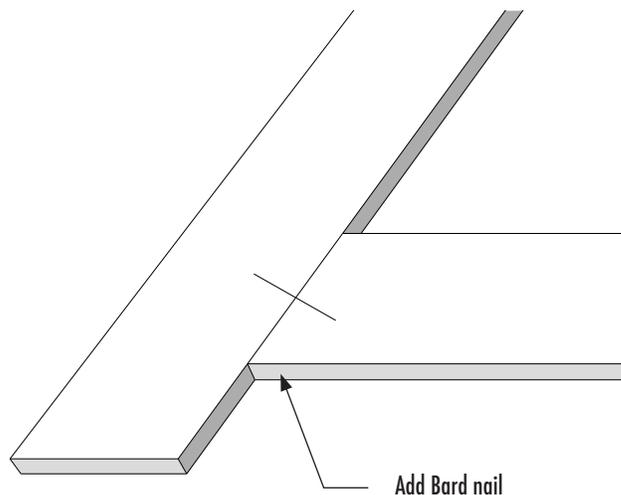


Step 5



Place small amount of glue into left end hole in bottom frame board. Connect both boards together.

Add a 1-1/2" brad nail into both boards from the long end of bottom board.



Step 6

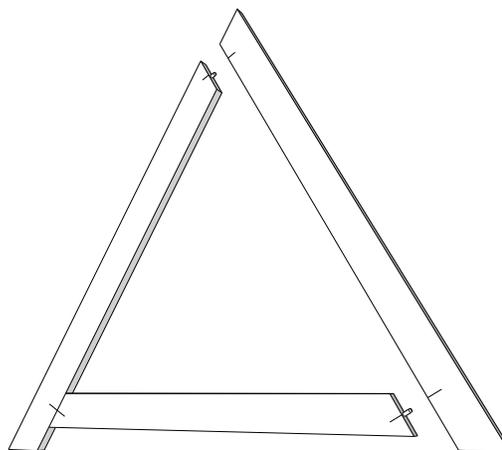


Follow same process by adding glue and dowel pegs to top end of left frame board and right end of bottom board.

Add glue to holes in right side board.

Join right side board to triangle frame.

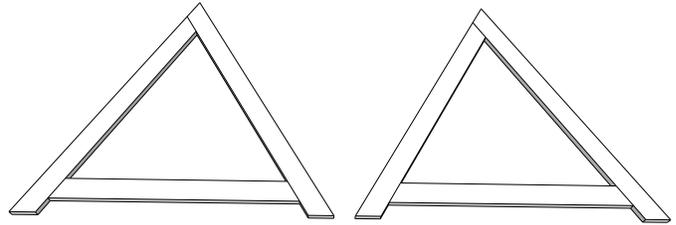
Add a brad nail to long end of a jointing boards.



Step 7



Repeat Steps 4 through 6 to create a second frame.



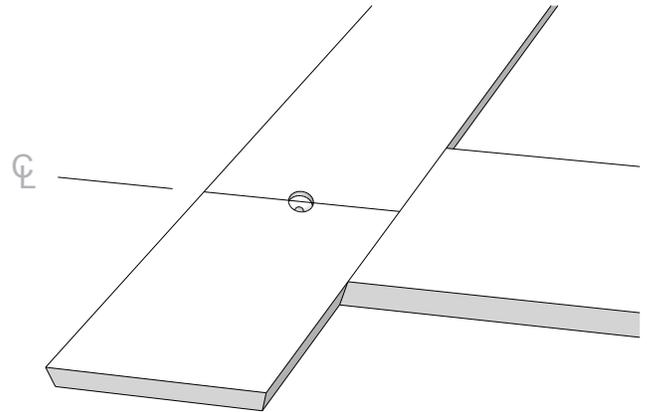
Step 8



From same mid-point mark. Draw a line parallel across bottom of left and right side frames.

Find center of that line and mark.

Drill a countersink hole at mark to fit a #10 screw.



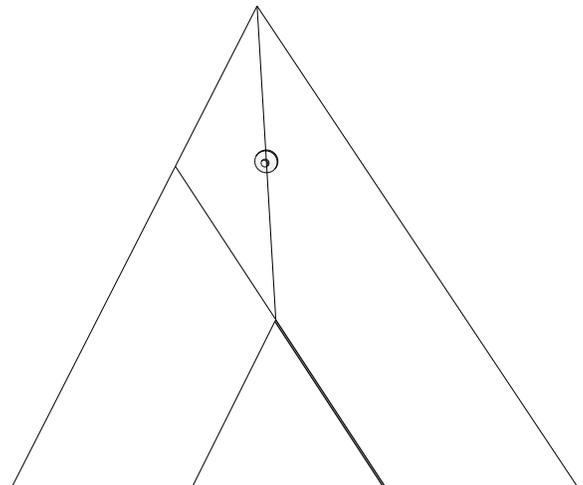
Step 9



Draw a line from top point of triangle frame to bottom intersection.

Find center of line and mark.

Drill a countersink hole at mark to fit a #10 screw.

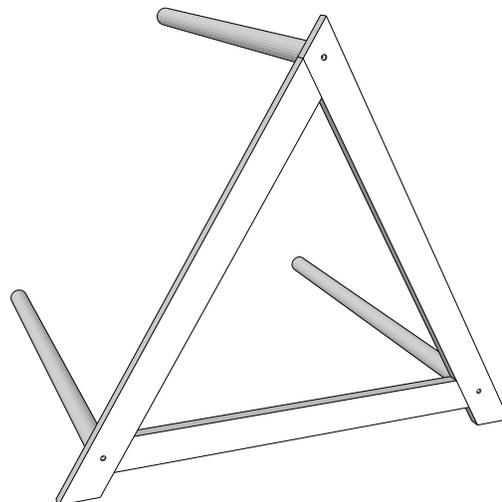


Step 10



Find center of 1 1/2" dowel and drill a 1/8" hole, 1/2" deep. At each end of 30" dowels.

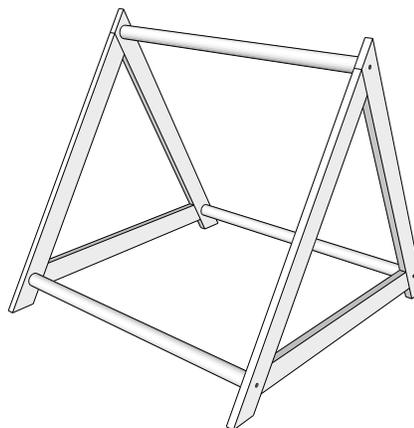
Attach with glue and 1-1/2" screws through countersink holes.



Step 11



Repeat step 10 and attach back triangle frame to 1-1/2" dowels.

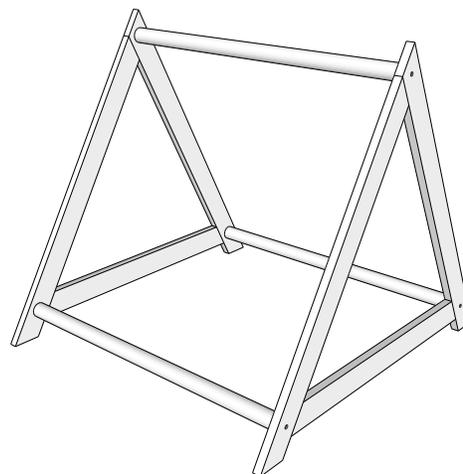


Step 12



Add plugs to countersink hole to cover screws.

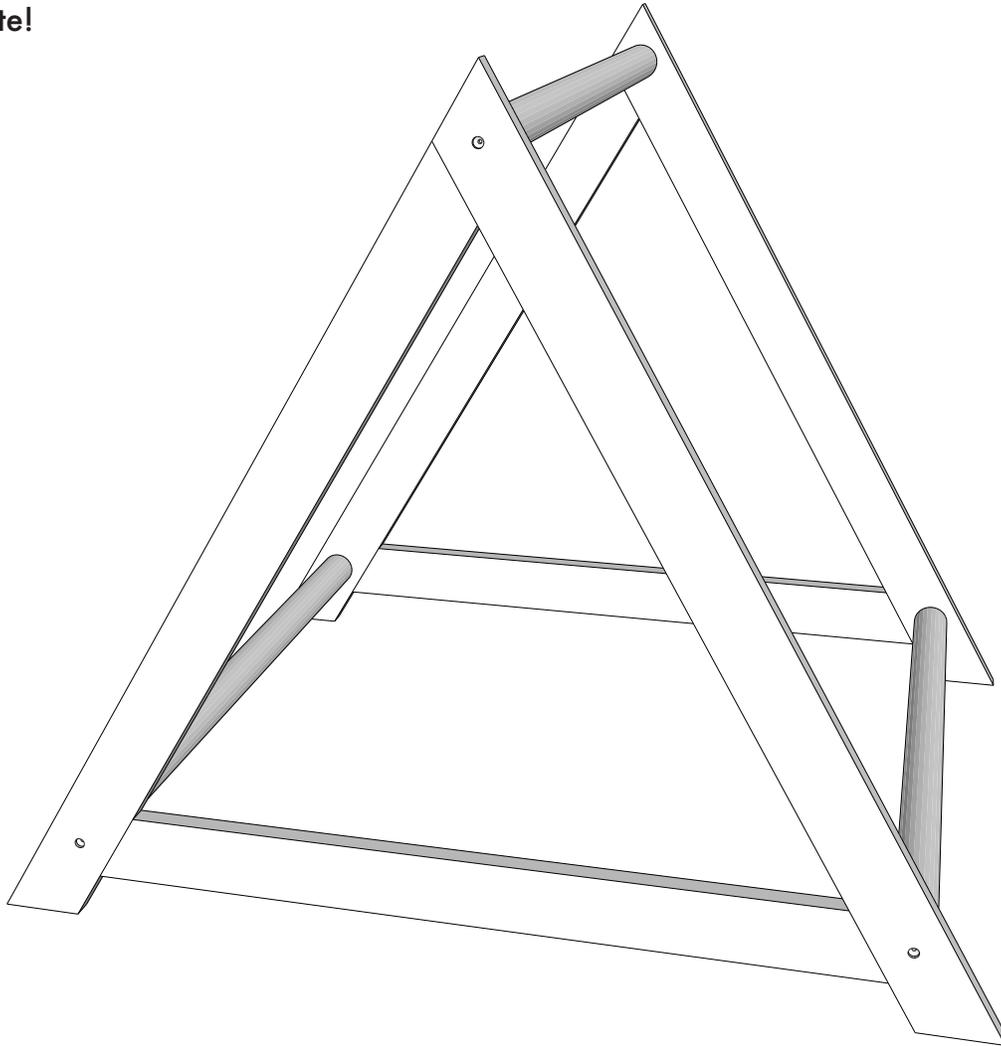
Sand and finish to your desire.



Step 13

Place dog pad inside frame assembly.

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

