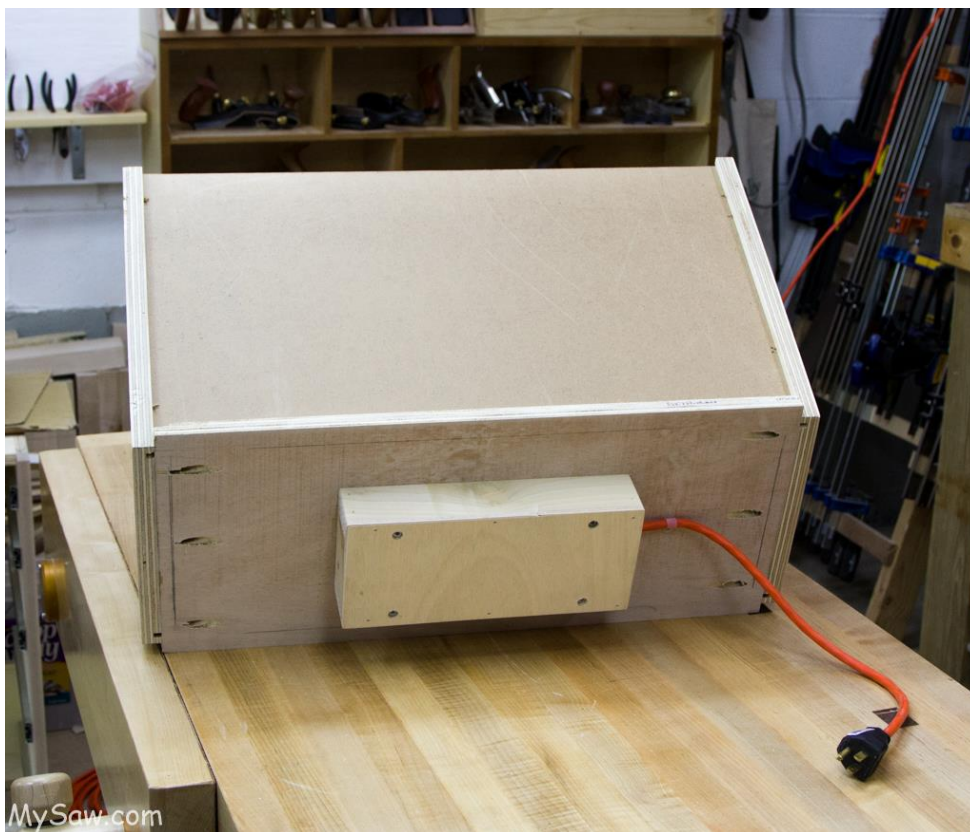
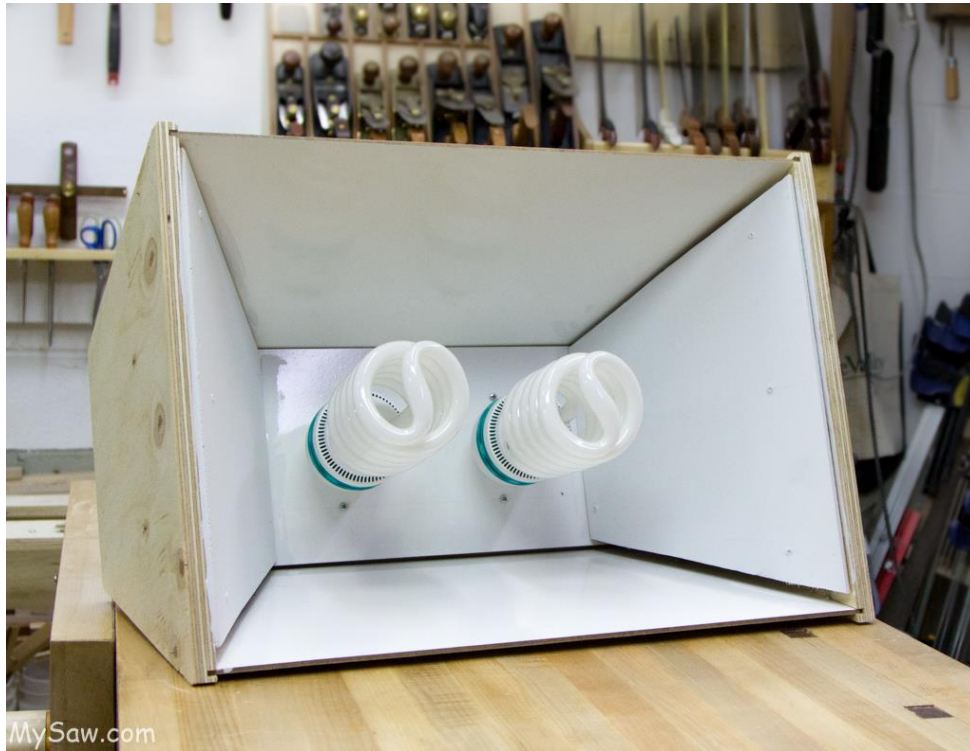


Video Light 2



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1 Project Overview

This project grew out of my shop video work. I realized how much light is required to produce good video. I had purchased some lighting and had some very large photographic fluorescent type lights.

I had determined that while I had a lot of light in my shop there were two problems. **First** all of this light is rated at 6500 K, which is classified as day light but is really “blue” to the eye and very hard to create a good white balance. **Second**, the larger problem was a result of what I considered good shop light, that is a LOT of light and all of it mounted as hanging 4 tube fluorescent lights. These hanging lights produce a very harsh look on people facing when doing video.

As I worked towards the solution, decided I need light that would be aimed at my face on more of a horizontal angle.

As noted in the title, this was video light 2. So there video Light 1 was a 3 bulb version of this design. That build provided me a prototype, making the build for #2 much easier.

2 Materials

- ¾” plywood, I use 7 ply SandePly from Home Depot. My materials came from my scrap bin.
- White Erase board, 2x4 ft from Home Depot. You can usually find this in the bins with lots of various 2x4 ft sized type for plywood, hardboard, pegboard and blackboard materials.
- Some scrap ¾” pine is used for the inside reflector rails. Again this was from my scrap bin.

3 Tools and Supplies

- Table Saw
- Band Saw
- 6” stationary belt sander
- Kreg Pocket hole jig. If you do not have this, the joint can be accomplished with a butt joint, with predrilled screw hole.
- 18g Nail Gun and various lengths of 18g nails.
- 1 ½” forstner drill bit in a drill press.
- Spax round head #8 1”
- Spax round head #6 5/8
- I used all #1 and #2 Square drive screws
- Bosch battery drills and drivers

4 Build Notes

Please Read !!!!

My general build philosophy on any project is to build and measure as I proceed through the project. I strongly encourage you to check the measurements in the project as you progress.

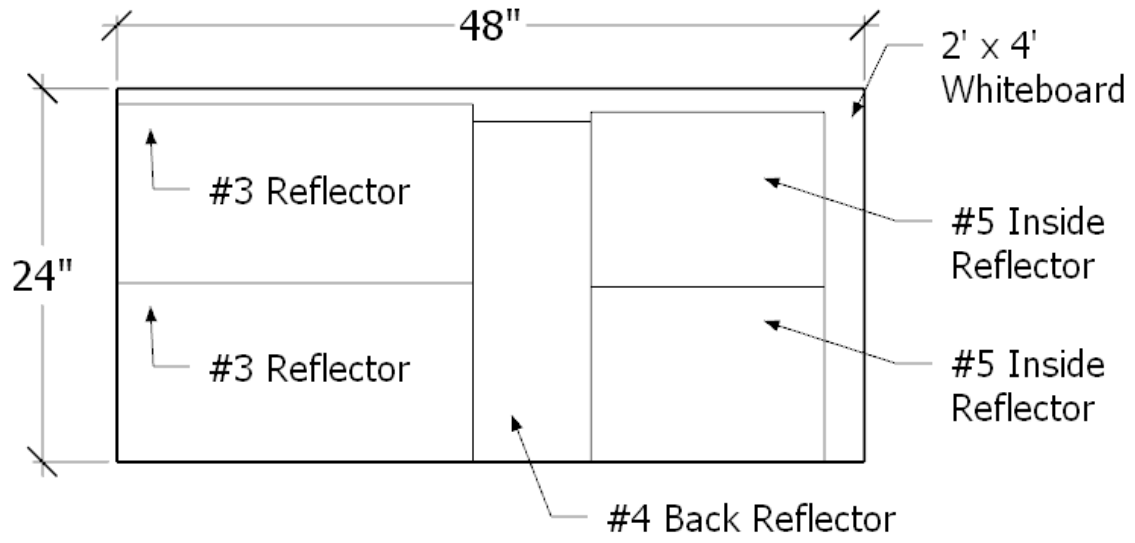
Also, this “plan” is not meant to a complete step, by step, but a place to see measurements and associate the various components of the project.

5 Cut List

5.1 Details

Part Description	Material	Cut Size	Quantity	Notes
#1 Back	3/4" Plywood	22 3/8" x 9 3/16"	1	
#2 Ends	3/4" Plywood	17 1/8" x 12"	2	Will be tapered on taper jig
#3 Reflectors	3/16" white board	22 7/8" x 11 1/2"	2	
#4 Back Reflector	3/16" white board	21 7/8" x 7 9/16"	1	
#5 Inside Reflectors	3/16" white board	15" x 11 1/4"	2	Will be tapered on band saw
#6 spacers	Pine 1/4"	20 x 1 3/4"	2	
#7 - #8 inside reflector rails	Pine 3/4"	1 1/2" x 3/4" X 40"	1	This will be cut to final sizes 2 @ ~ 7" and 2 @ 12"
#9 box side	Pine 3/4"	12" x 2" x 3/4"	2	
#10 box end	Pine 3/4"	3" x 2" x 3/4"	2	
#11	1/4" plywood	12" x 4 1/2"	1	

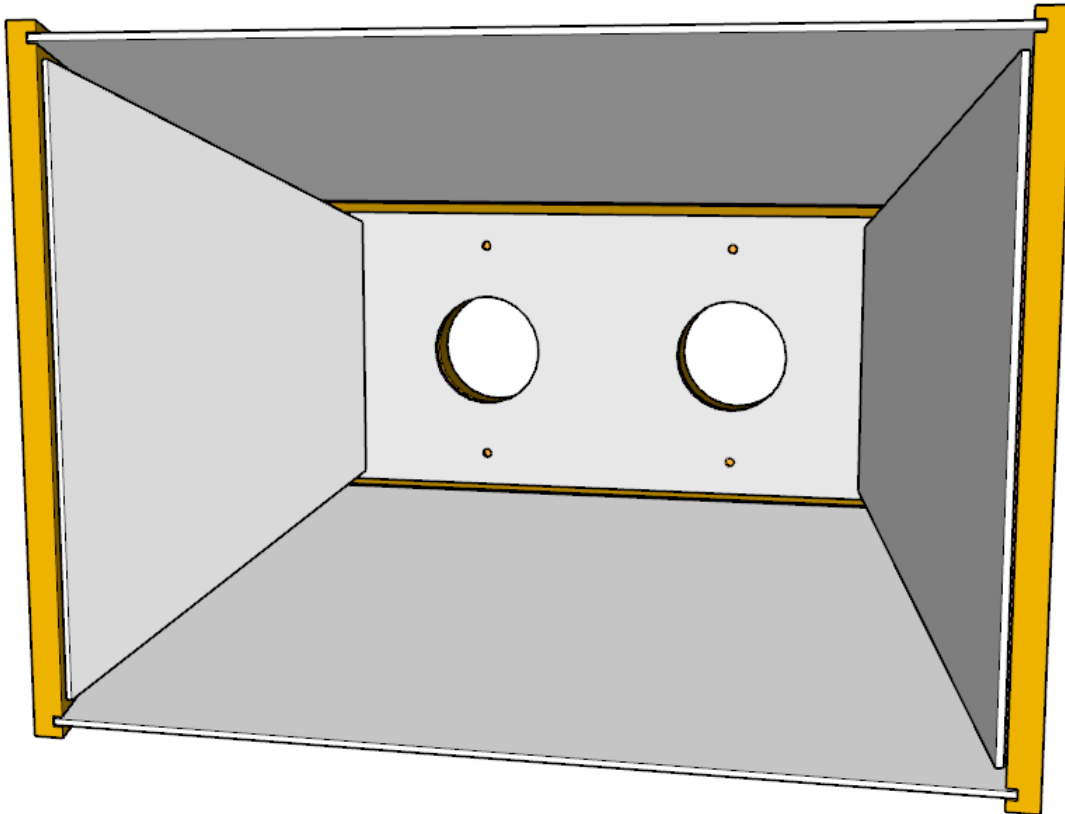
5.2 White Board cut diagram



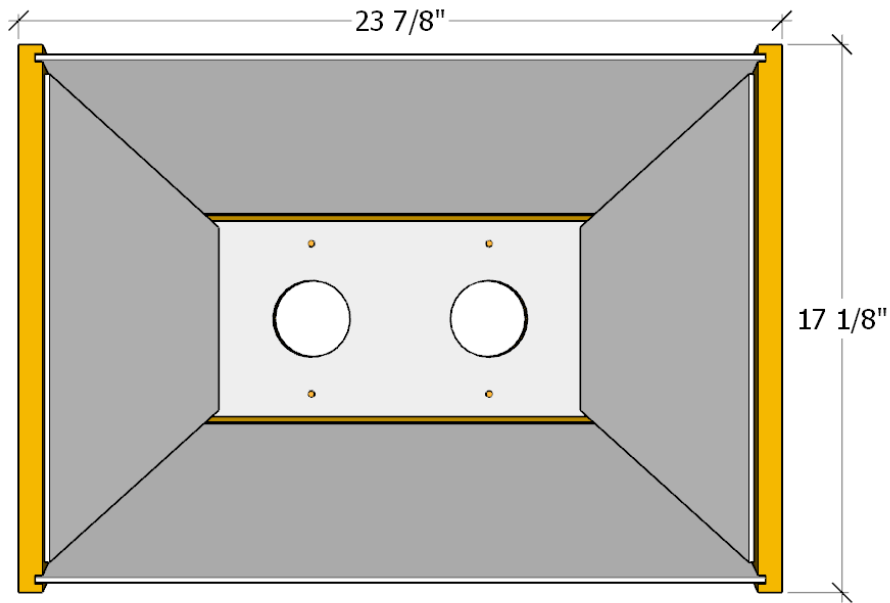
6 Plan views

6.1 Overall

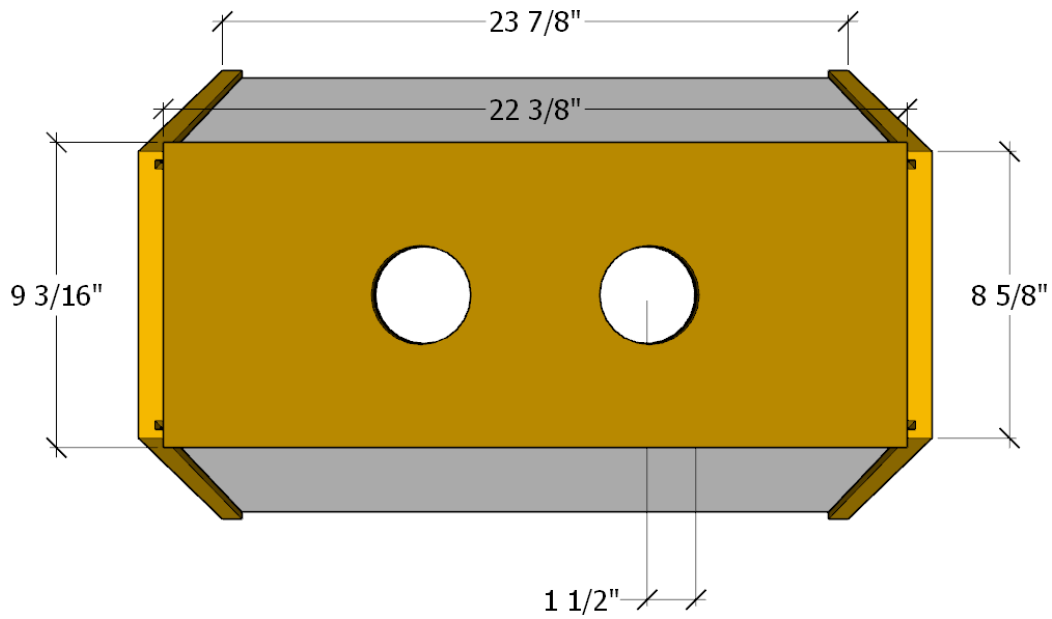
The Perspective view of the project.



6.2 Front

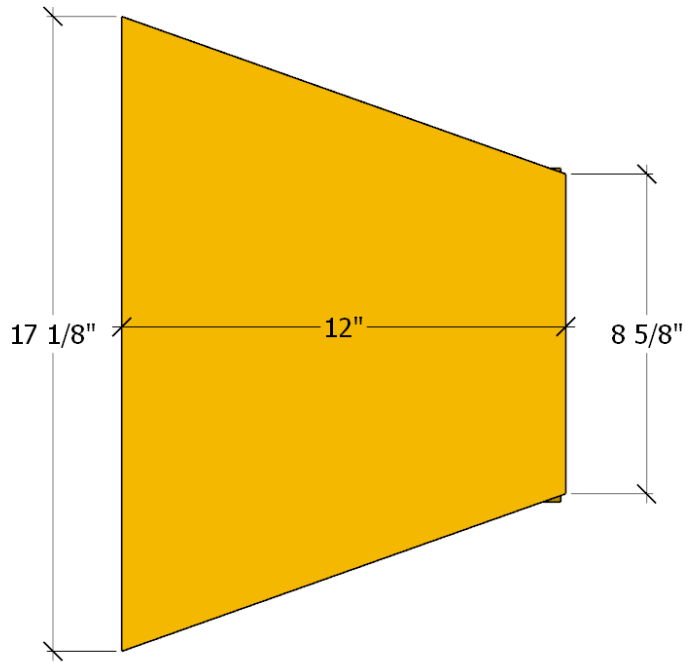


6.3 Back



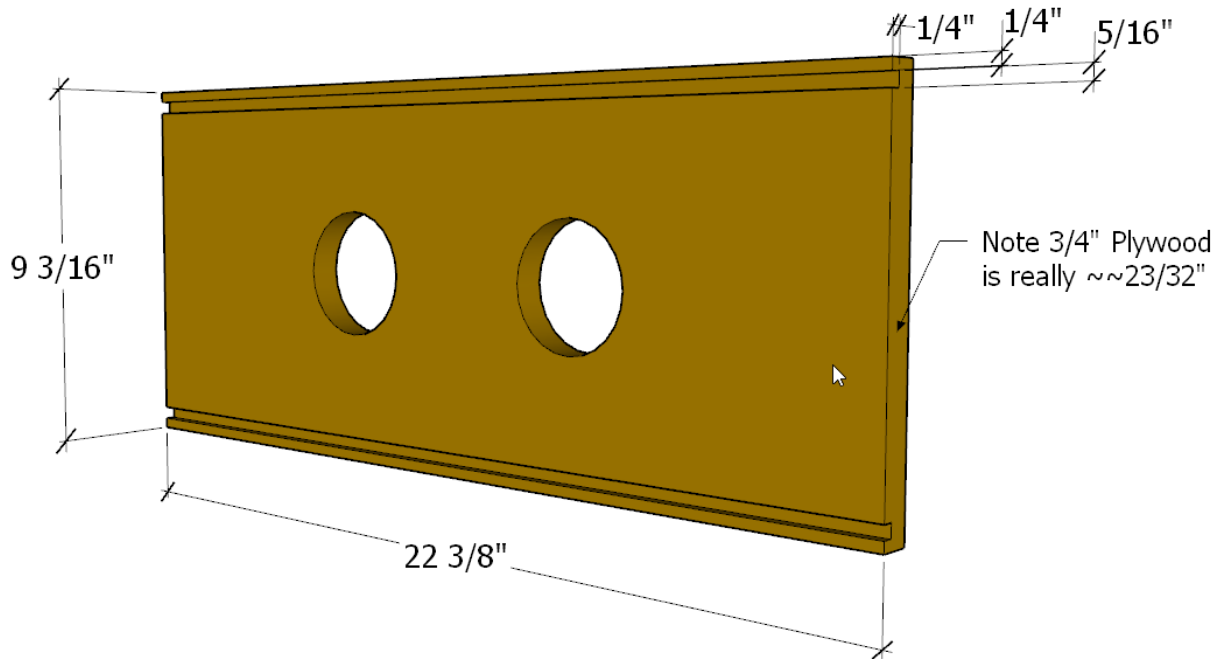
6.4 Side

- This is cut as a $17 \frac{1}{8}'' \times 12''$ rectangle during the cut list step

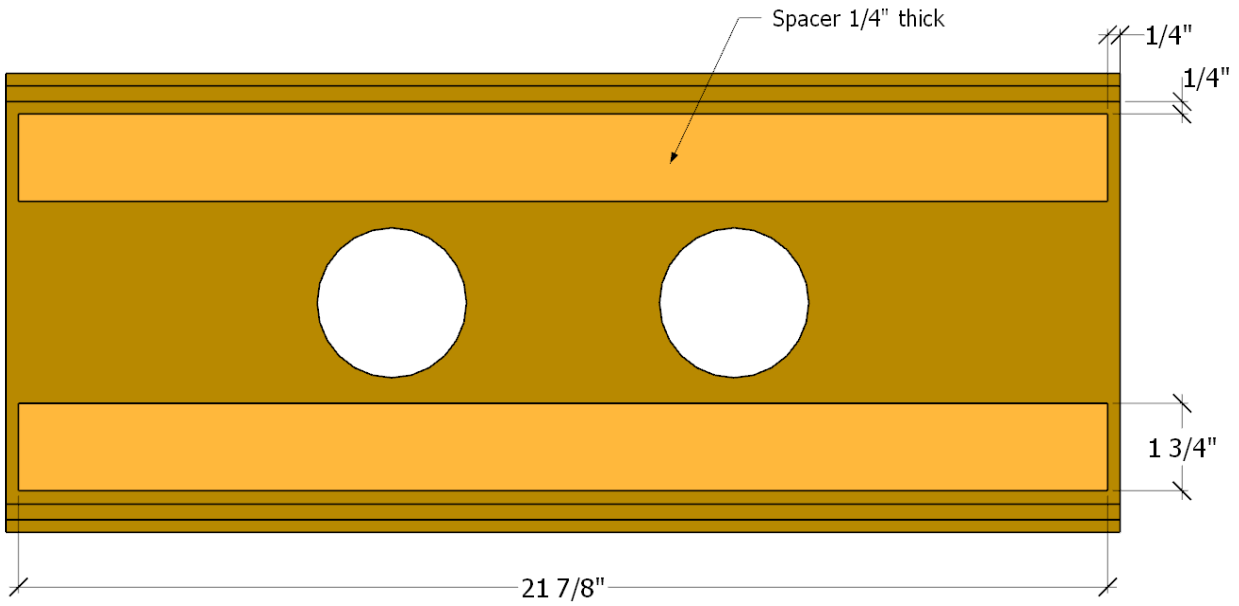


6.5 Back Assembly

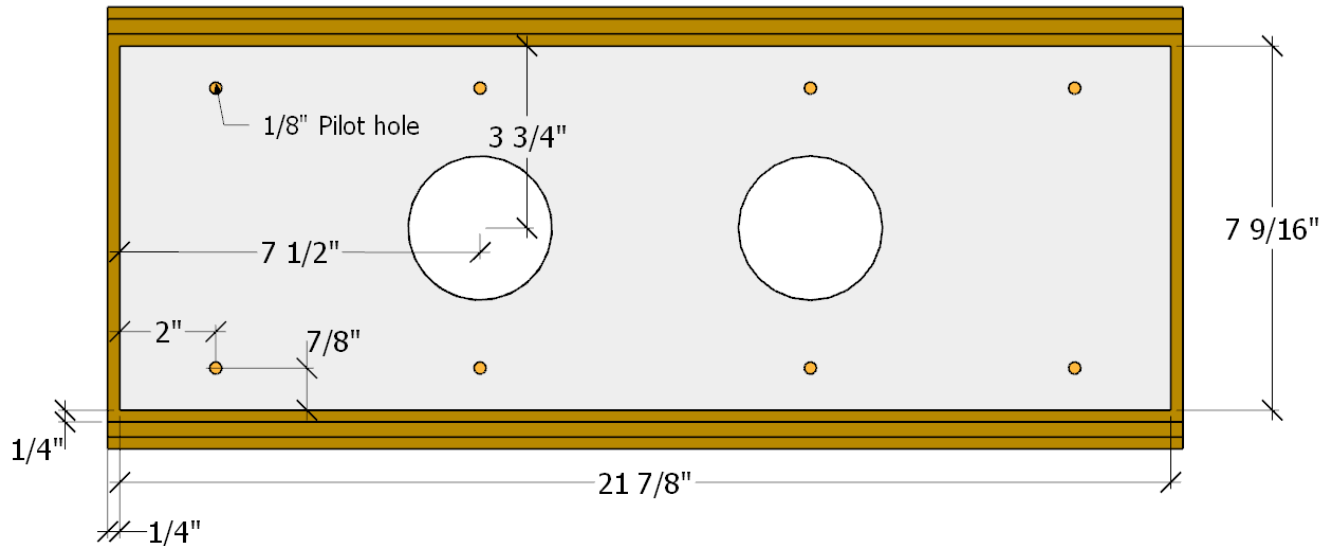
- Cut list - #1 Back from $\frac{3}{4}$ " Plywood.
- Cut to size on table saw.
- The $\frac{1}{4}$ " x $\frac{1}{4}$ " dado is cut with two passes on the table saw.
- The holes are drilled later, watch the video for direction.
- 3 Pocket holes will be drilled on the back of this part to attach to the sides. These should be spaced evenly inside the dados.



6.6 #6 Spacers

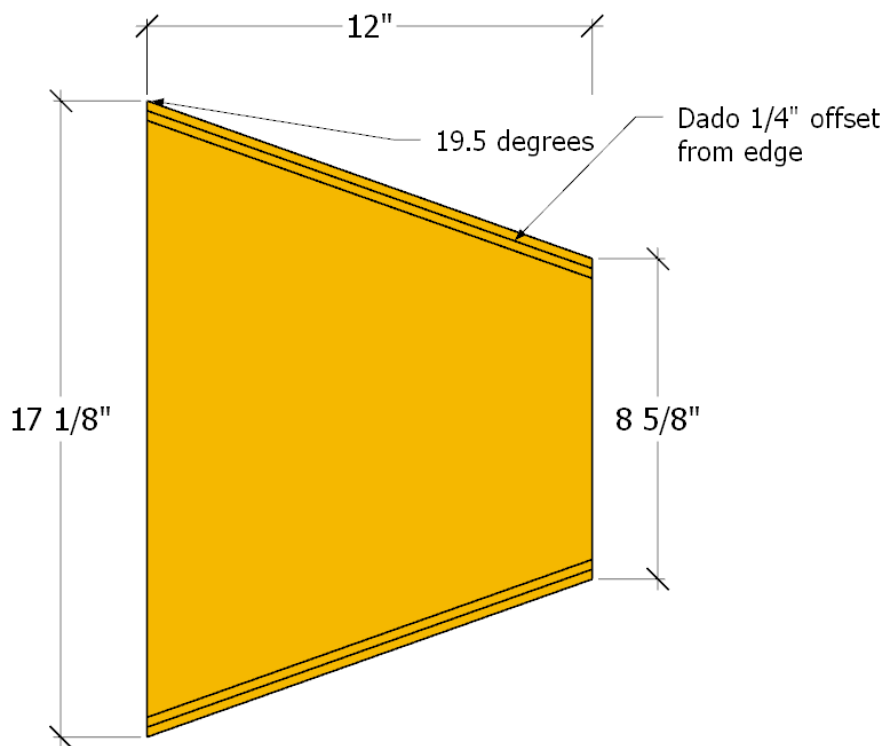


6.7 #4 Back Reflector



6.8 Sides

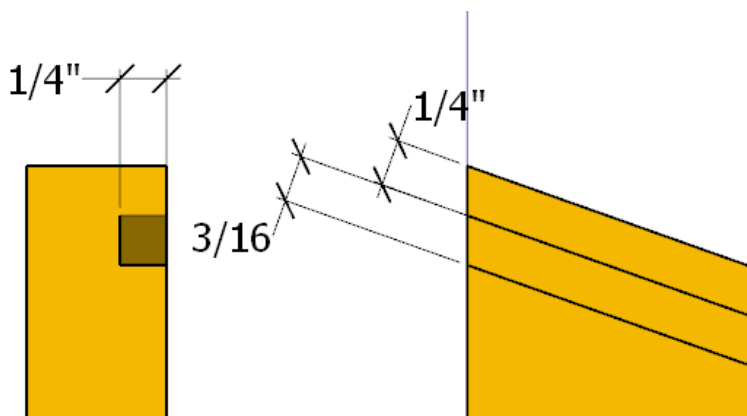
- This piece is first cut as a rectangle, then cut on a taper sled to the final shape.
- After the tapers are cut then the dado is cut on the table saw using the 1/8" standard blade in two passes.



6.9 Side Dado detail

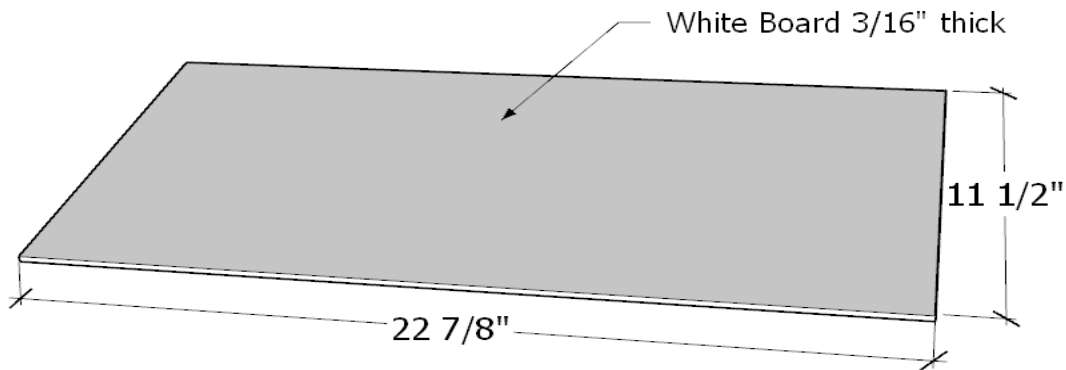
The detail measurements are show here for the dado in the end panels.

A 1/4" x 1/4" dado is cut 1/4" from the outside tapered edge.



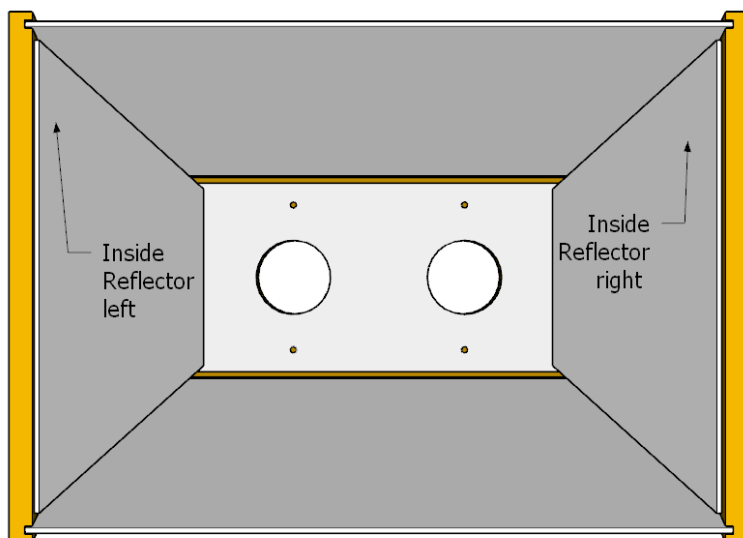
6.10 Reflectors

- These are the main top and bottom side reflectors.
- After the back and side are completed the top and bottom reflectors can be inserted for a test fit.
- These reflectors will be secured with 18g nail gun $\frac{3}{4}$ " length nails. Be careful with the angle of these nails, it is easy to have these come out the outside of the panels.
- **DO NOT** secure these panels yet.

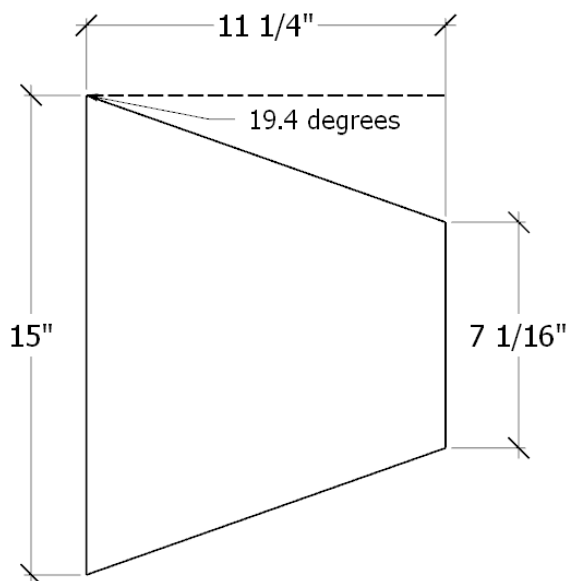


6.11 Inside Reflector panels

- The overview of the inside reflector panels is shown below

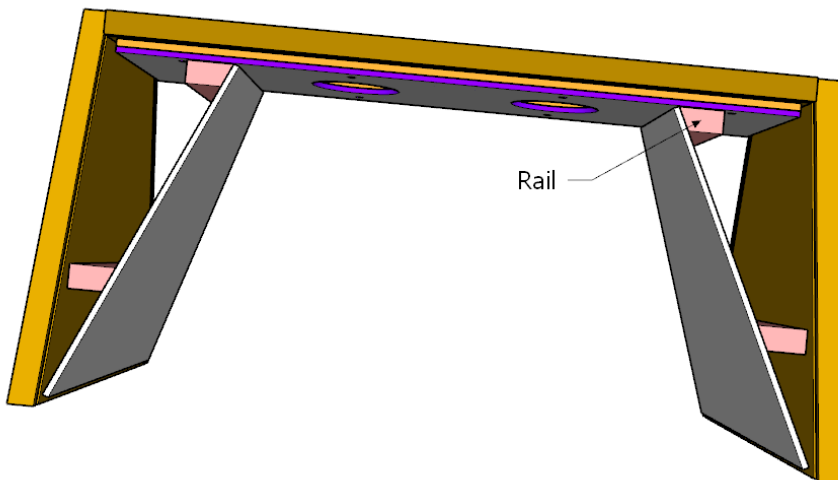
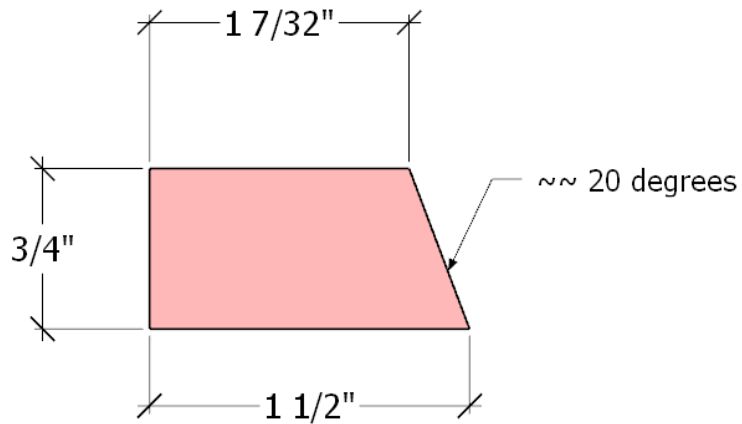


- The view below shows the exact measurements of the panel.
- These panels are cut as rectangles in the initial parts cutting.
- As shown in the video these are then glued and cut on the band saw.
- The angle is show exact but 20 degree angle would be fine. These will NOT fit exactly flush to the top and bottom reflectors. Their purpose is to simply provide as a side reflector for the lights.



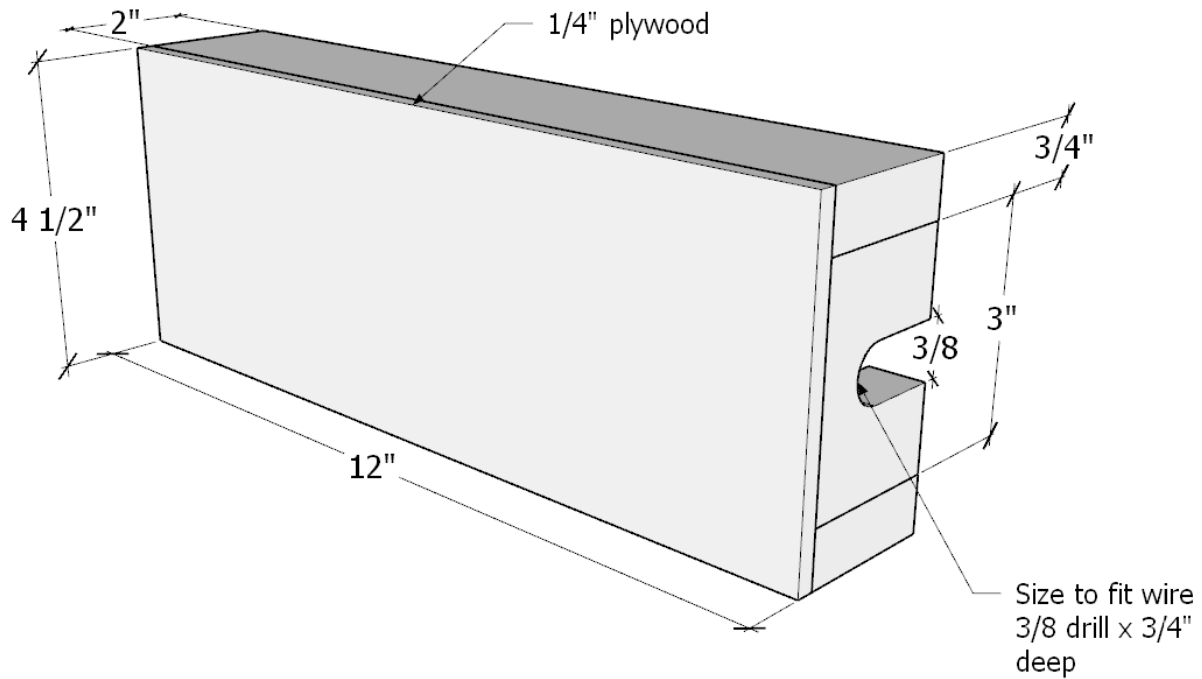
6.12 Inside reflector panels rails

- This angle on the rails does not have to be exact.
- This is easy to form the angle with a hand plane, using a line drawn on the $1\frac{7}{32}$ " mark.



6.13 #9, 10, 11 Box on back

- This is constructed from any material you have on hand.
- The wire slot on the end should be sized to your wiring. The plan is shown as an example only.



7 Online Sources for Tools, Materials and Supplies

[StudioPRO 2x 85W CFL Photo Fluorescent Daylight Light Bulbs 5500K](#)



[Affiliate Link]

[Spax Pan Head #6 X 5/8"](#)



[Spax Pan Head #8 x 1"](#)



[Spax #8 x 2 1/2"](#)



[Electrical Wire – Home depot 100ft 16g extension cord](#)

Note: I needed 16g wire for 2 lights, long runs to switch box. This was the cheapest way to purchase 16g wire.



Home Depot: [White Marker Board \(Common: 3/16 in. x 2 ft. x 4 ft.\)](#)

Store pickup only

Lowes: [Two wire utility light socket](#)

NOTE: Check the size of this. The 1 ½" hole diameter may vary depending on brand.



8 About This Plan

8.1 Copy Rights

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8.2 Errors and omissions.

This is the first plan I have ever created. So please let me know any comments or questions that you might have.

Please contact me via eMail, bartee@gmail.com, using the “MySaw” and the plan name in the subject line.

Also please feel free to contribute to the comment on the blog for this plan. Others would appreciate your experience.