CHIEF'S SHOP PLAN OF THE WEEK

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CHIEF'S SHOP

Plan of the Week

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CHIEF'S SHOP PLAN OF THE WEEK

SIMPLE WOODWORKING: AIR CONDITIONER SCREEN

WHAT YOU'LL NEED

LUMBER
3 - 2 x 4 x 10
5 - 2 x 4 x 8
(availability will vary - cedar, redwood or treated))

HARDWARE/SUPPLIES
2 1/2" deck screws
2 1/2" utility hinges
wood glue
paint/stain/sealer

TOOLS
table saw (optional)
miter saw or circular saw
drill/driver
power sander
clamps
square

ABOUT THESE PLANS

On this first page you will see above the project complete. On the last page you'll find the finished outer dimensions.

To the right is a list of the Lumber, Hardware/Supplies, and Tools you will need to complete this project. A measuring tape and pencil are not included because that should be pretty standard and self explanatory.

Below What You'll Need is the Parts list. This also is included on the Cutting Diagram page, which is the last page of this plan document.

Throughout these plans you'll find the icons below:

LAYOUT This indicates a diagram detailing the dimensions of a project part and/or the placement for pocket holes, screws, nails, etc.

NOTE Notes are the instructions for a particular step/section of the project.

TAKE CARE! This indicates when to pay close attention to the diagrams, take precautions for safety, etc.

PARTS

Legs (6) - 1 1/2 x 3 1/2 x 33
Rails (6) - 1 1/2 x 1 1/2 x 33
Slats (9) - 1 1/2 x 1 1/2 x 31 1/8

All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

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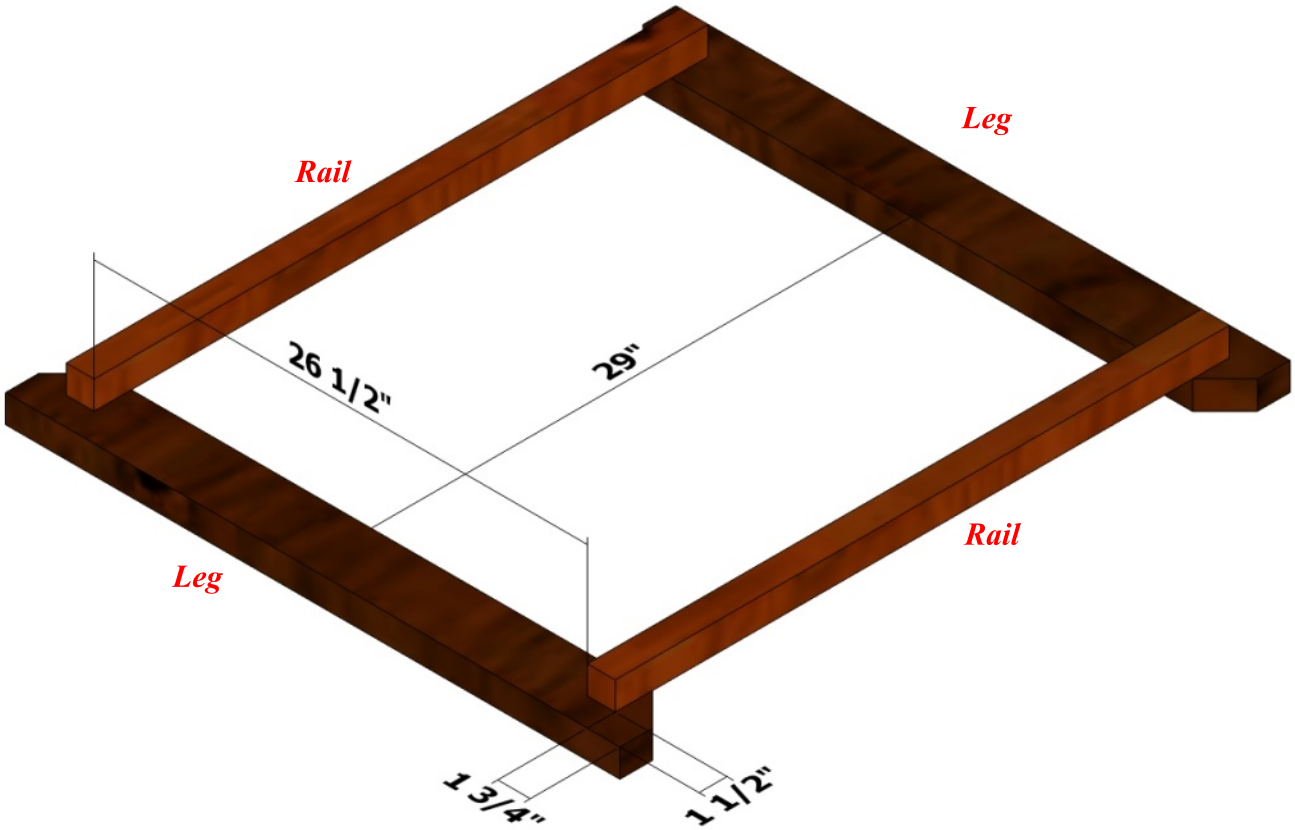
LAYOUT

Leg

NOTE Use the layout as guide for measuring, marking, and cutting the **Legs**. The angle of the cut on the ends is 45 degrees.

NOTE

Position the **Rails** as shown and attach using glue and 2 1/2-inch deck screws. Create three assemblies.



NOTE

Use a square to mark the position of the rails and as a guide when attaching the **Rails**.

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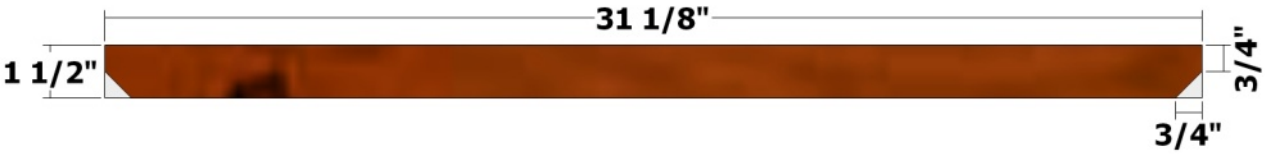
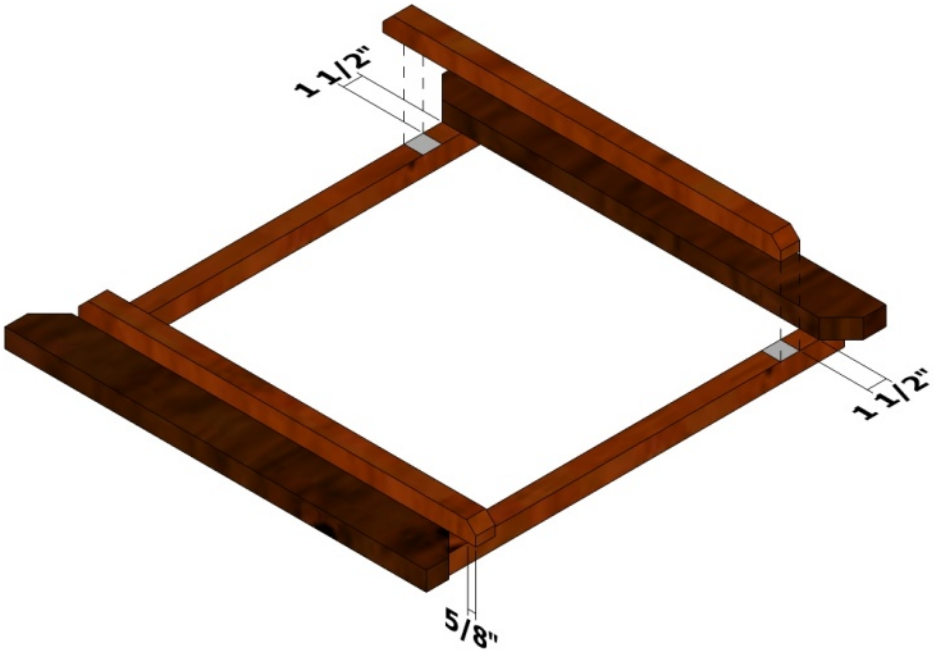
LAYOUT

Slat

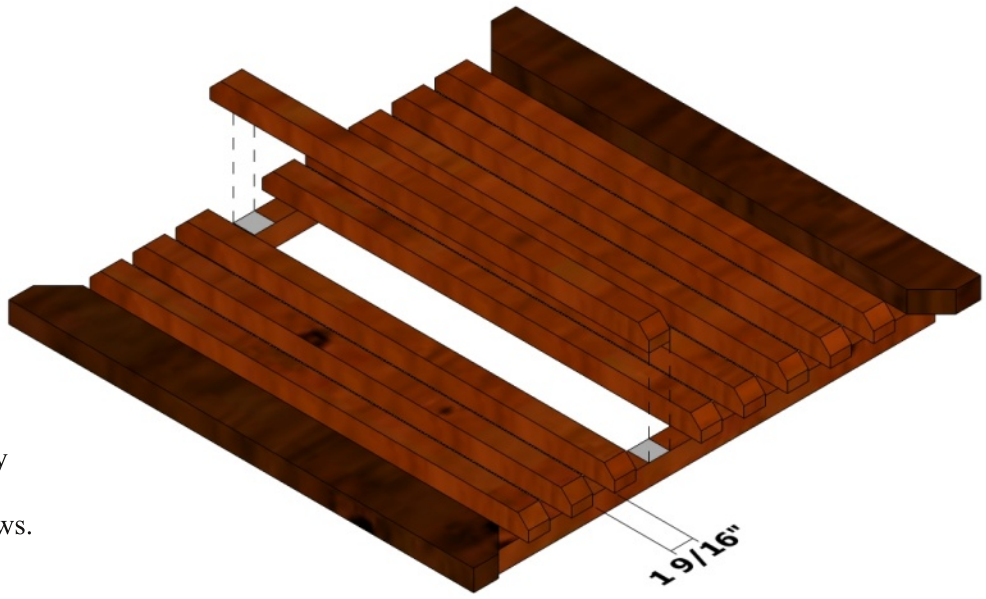


NOTE Use the layout as a guide for measuring, marking, and cutting the **Slats**. The angle of the cut on the ends is 45 degrees.



NOTE

Position **Slats** as shown (1 1/2 inch from the inside edge of the **Legs** and overhanging the **Rails** by roughly 5/8 inch) and attach to the **Rails** using glue and 2 1/2-inch deck screws. Repeat on the other two assemblies.



NOTE

Position seven more **Slats** as shown (spaced equidistantly apart - roughly 1 9/16 inch) and attach to the **Rails** using glue and 2 1/2-inch deck screws. Repeat on the other two assemblies.

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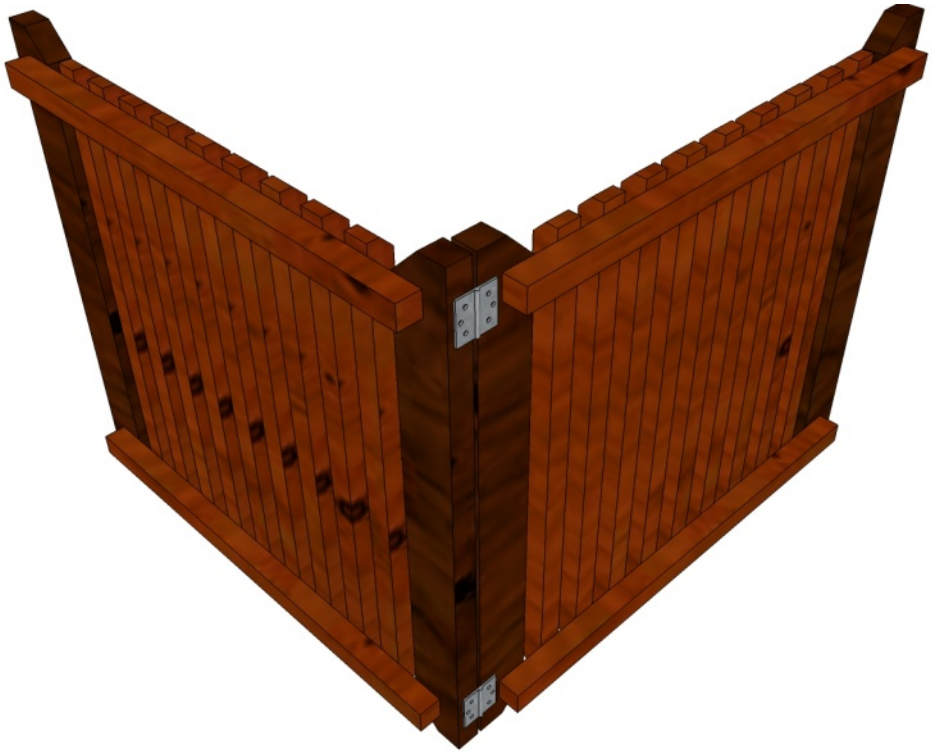
NOTE

On two of the assemblies, position the hinges in line with the outer edge of the **Rails** and attach to the **Legs** using the included hardware.

Be sure to attach the hinges on the the **Rail-side** of the **Legs**.

NOTE

Position the assembly that does not have hinges attached to it as shown and attach using the included hardware. Make sure you are working on a flat surface and that the ends of the legs are flush and spaced far enough apart to allow for the barrel of the hinge. If desired, you can cut a mortise for the hinge placement, but it's not necessary.



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NOTE

Position the remaining assembly as shown and attach the hinges using the included hardware.

NOTE

Fold the assemblies closed around the air conditioning unit. Make sure the assemblies do not touch the unit.

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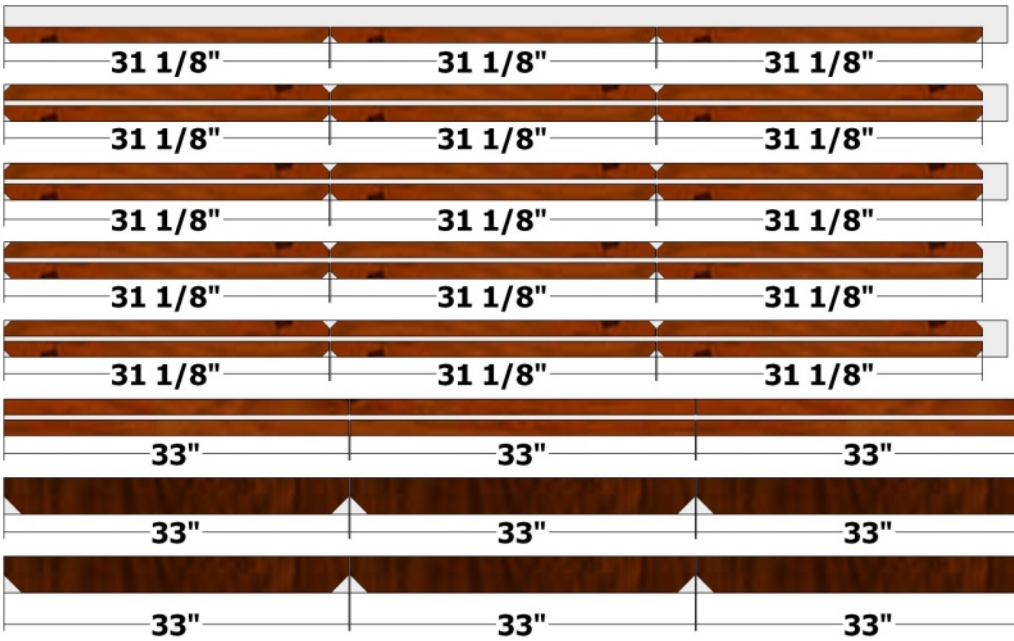
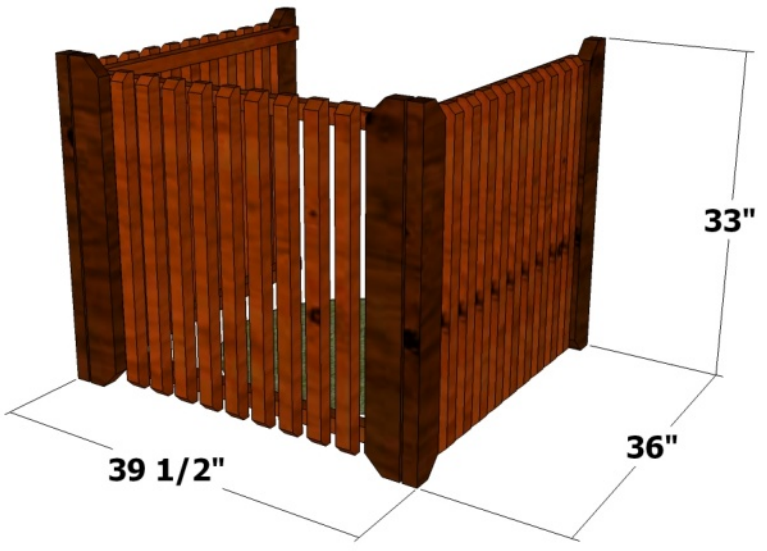
K CUTTING DIAGRAM



2 x 4 x 8

2 x 4 x 10

Feel free to use 2 x 2 lumber for the **Slats** and **Rails** if you do not want to (or can't due to tool limitations) rip 2 x 4s.



This project will comfortably fit around an air conditioning unit that measures up to 30" x 30" x 30". Do not allow the screen to touch your unit when in position. Adjust dimensions as needed for larger units.

PARTS

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All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

TAKE CARE!

Follow ALL SAFETY GUIDELINES AND RECOMMENDATIONS provided by the manufacturers of your tools, and any chemicals such as glue and finishes you use in this project. YOU are responsible for your safety, so use common sense when working in the shop!

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