



SIMPLE WOODWORKING: Y-FRAME BENCH



PARTS

Front Legs (2) - 3/4 x 2 1/2 x 40 3/4
Back Legs (2) - 3/4 x 2 1/2 x 20 7/8
End Rails (2) - 3/4 x 2 1/2 x 10 1/4
End Seat Rails (2) - 3/4 x 2 1/2 x 14 1/8
Side Seat Rails (2) - 3/4 x 2 1/2 x 45
Seat Stretcher (1) - 3/4 x 2 1/2 x 12 5/8
Seat Slats (5) - 3/4 x 2 1/2 x 46 1/2
Bottom Stretcher (1) - 3/4 x 2 1/2 x 46 1/2
Back Slats (3) - 3/4 x 2 1/2 x 48

LUMBER

8 - 1 x 3 x 8

HARDWARE

1 1/4" pocket hole screws
1 1/4" wood screws

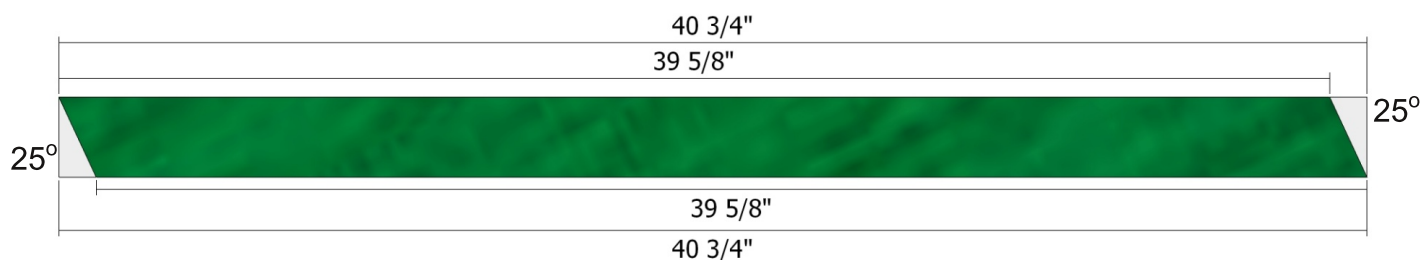
TOOLS

table saw, miter saw, jig saw, drill/driver, Kreg pocket hole jig, clamps, compass

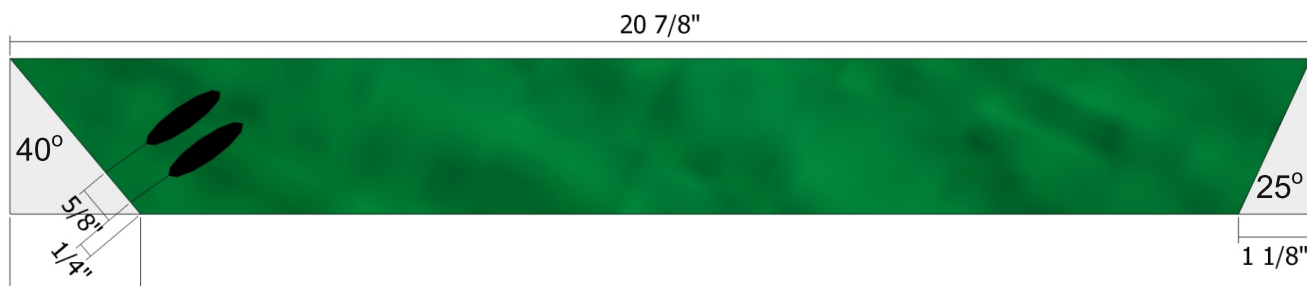
NOTE

Use the layouts below as guides for marking, cutting, and drilling pocket holes in the Back Legs, Front Legs, and End Rails. Be sure to set your Kreg Pocket Hole Jig and drill bit for drilling into 3/4-inch stock.

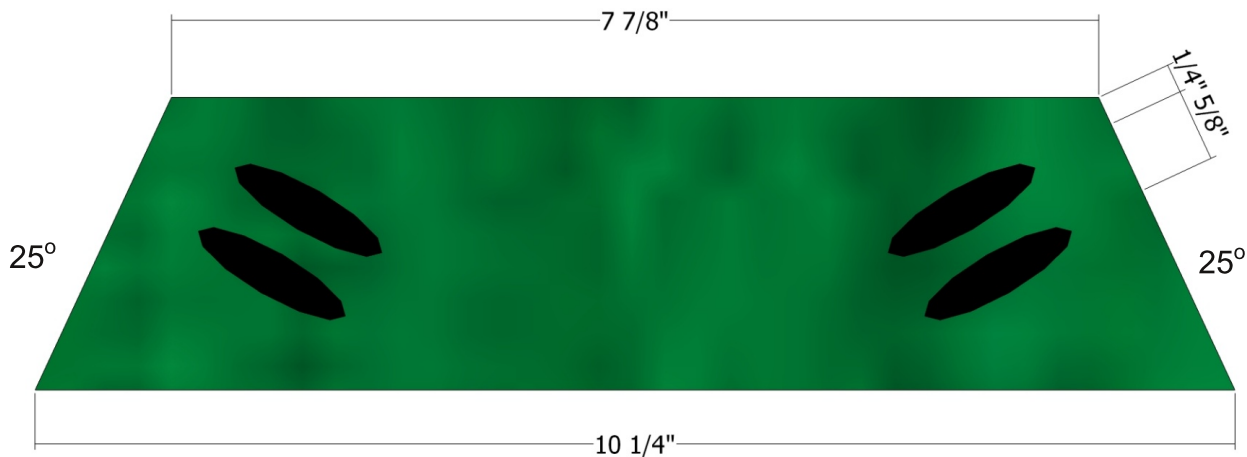
Front Leg



Back Leg

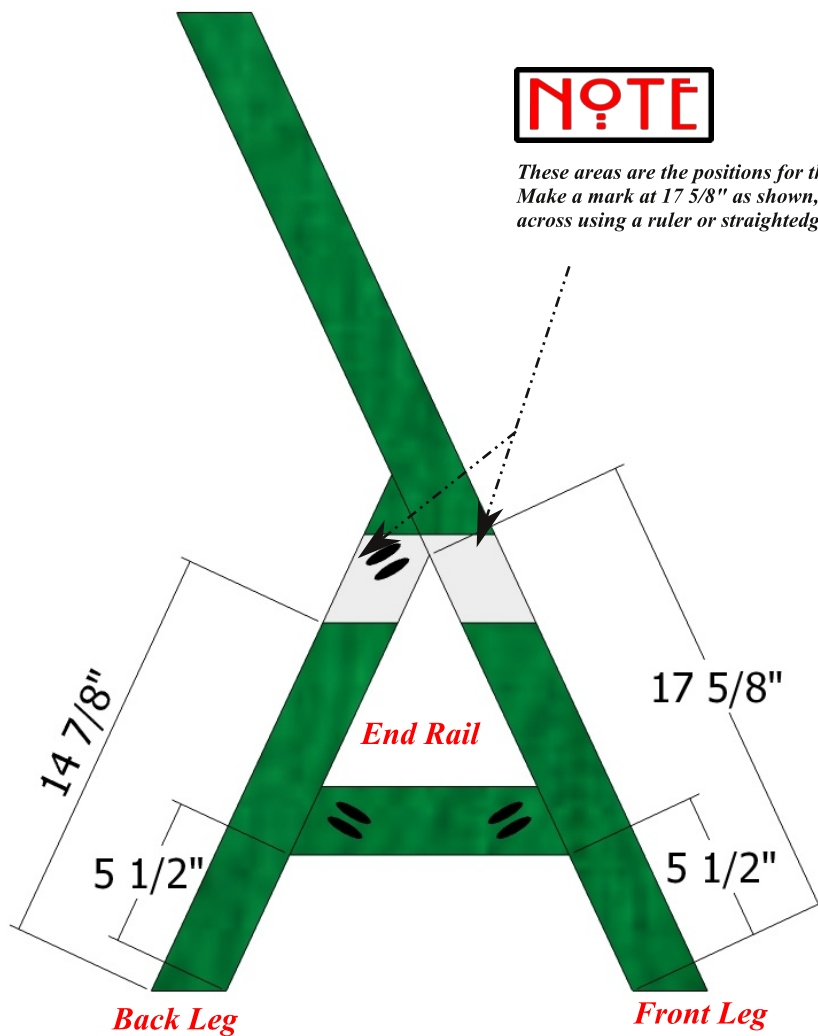


End Rail



**NOTE**

These areas are the positions for the End Seat Rails. Make a mark at 17 5/8" as shown, then mark a line across using a ruler or straightedge as a guide.

**NOTE**

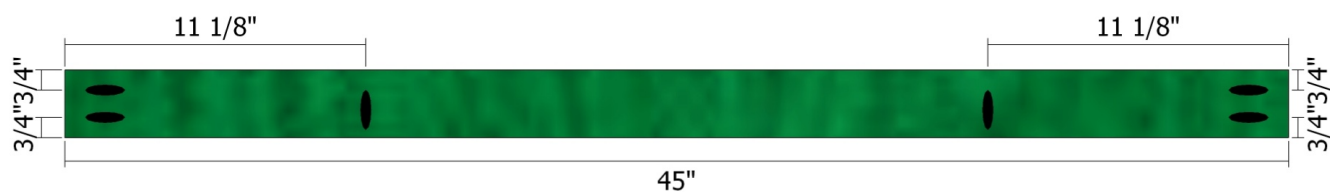
Position the parts as shown above and attach using glue and 1 1/4" pocket hole screws. A Kreg face clamp will help to hold the parts in position. Tip: To position the bottom of the Back and Front Legs parallel, clamp a straight edge or a piece of hardwood stock to your work surface. Place the bottom of the Legs flush against this guide.



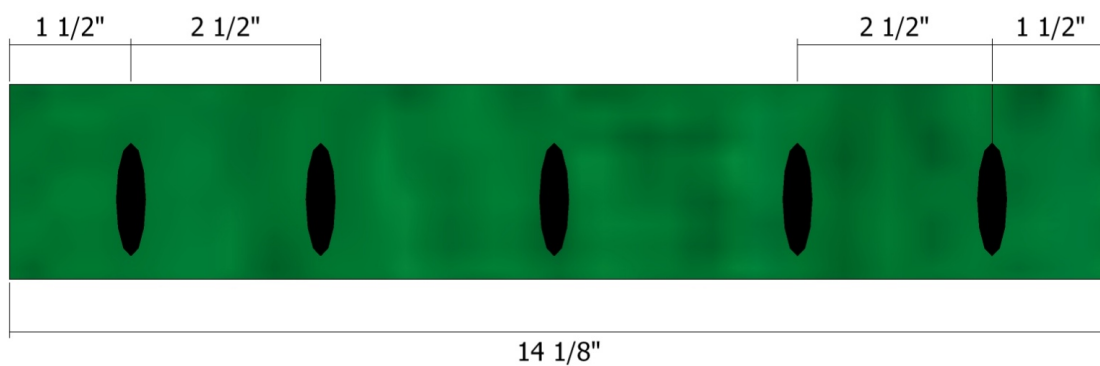
NOTE

Use the layouts below as guides for marking, cutting, and drilling pocket holes in the Seat End Rails, Seat Side Rails, and Seat Stretcher, and for cutting the Seat to shape. Be sure to set your Kreg Pocket Hole Jig and drill bit for drilling into 3/4-inch stock.

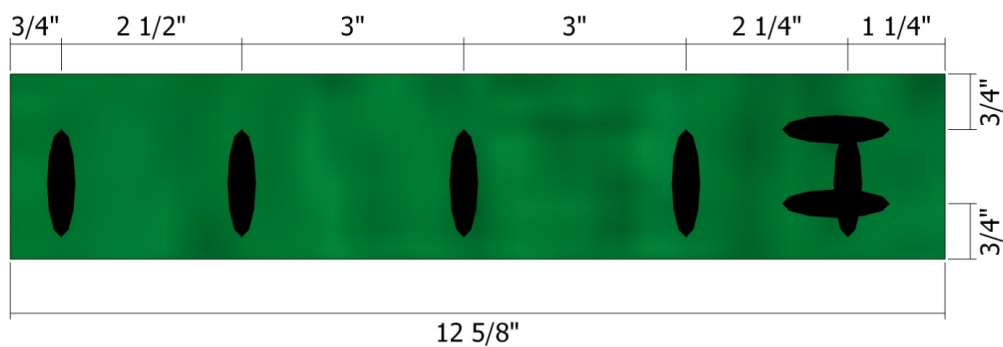
Seat Side Rail

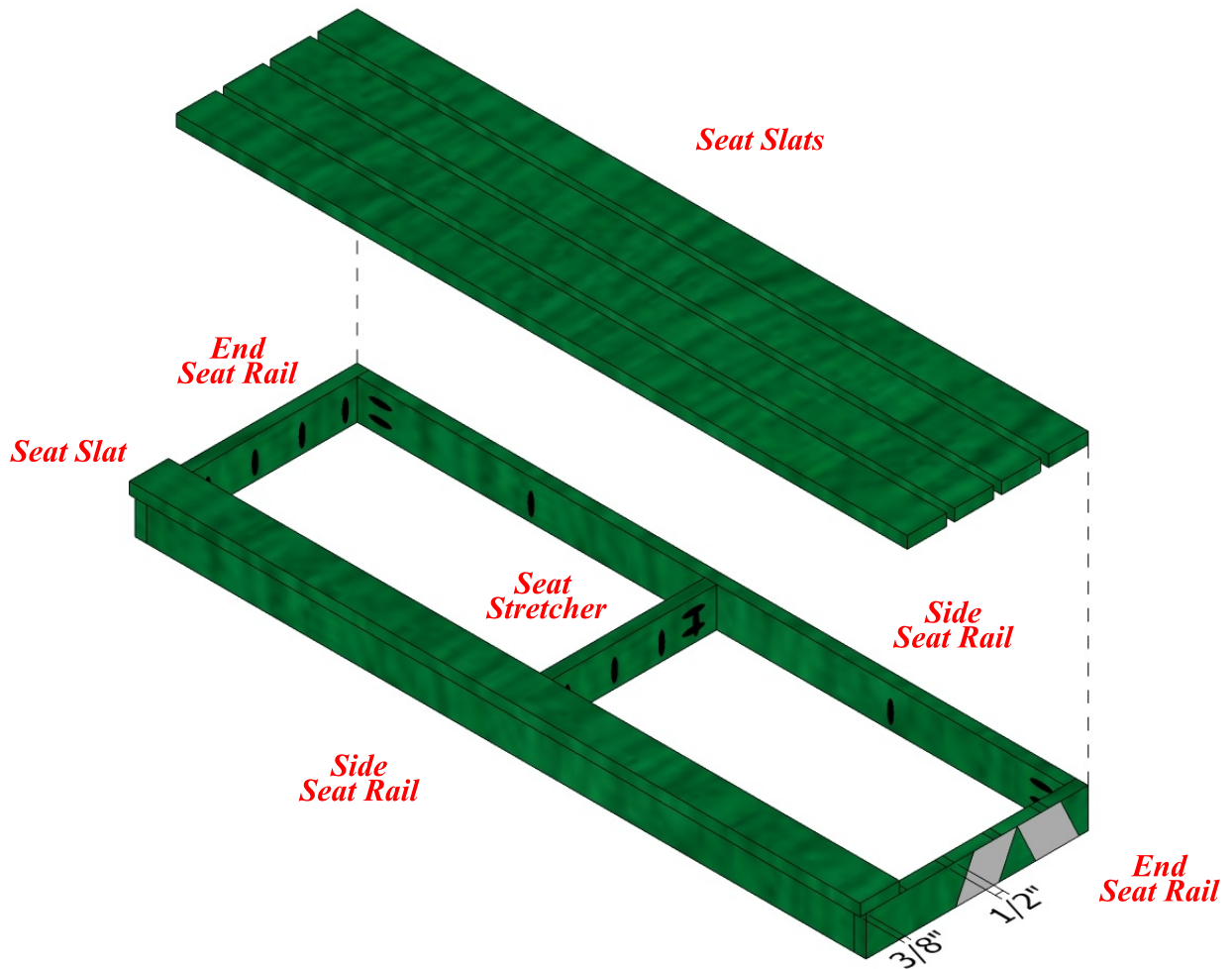


Seat End Rail

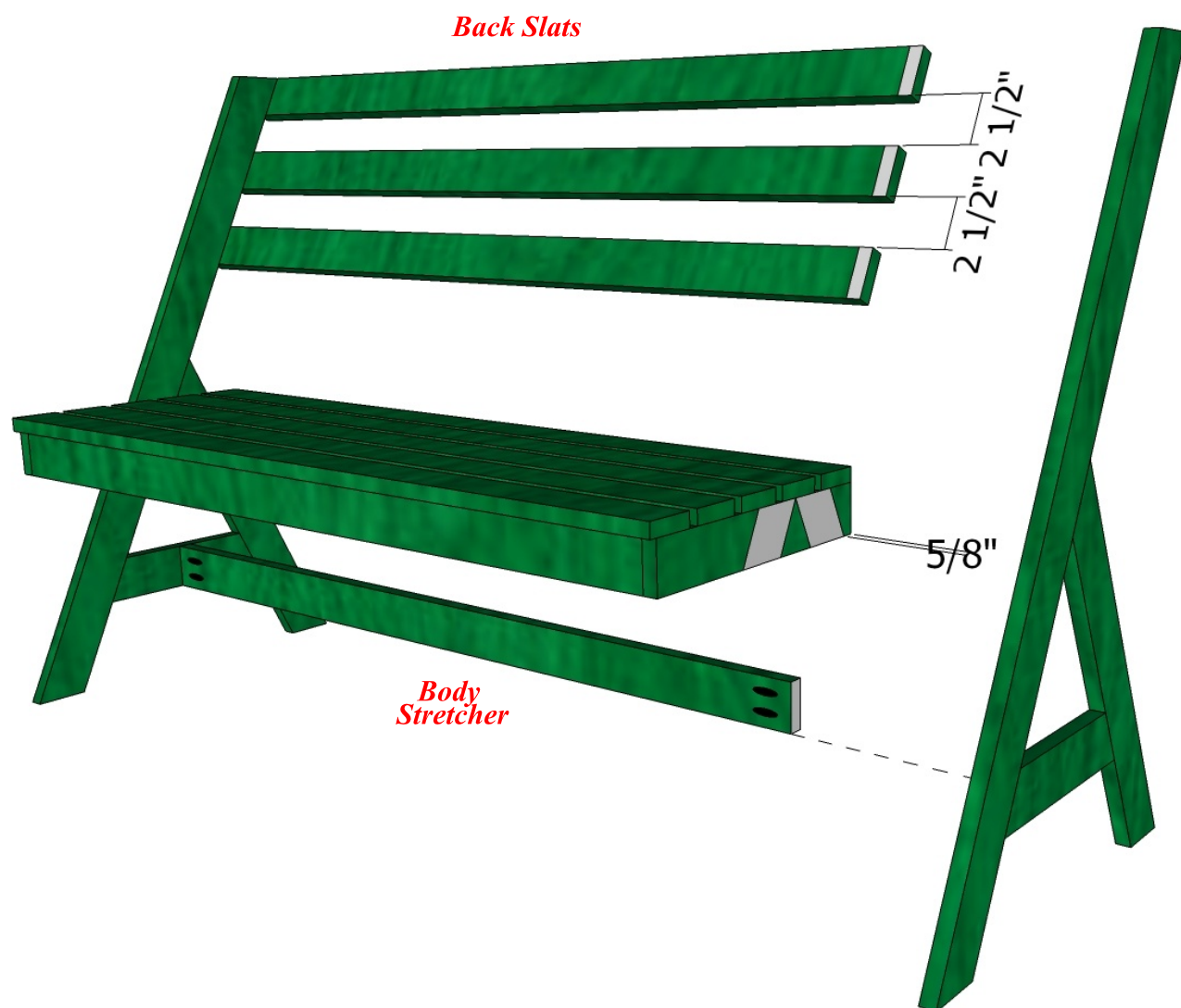


Seat Stretcher



**NOTE**

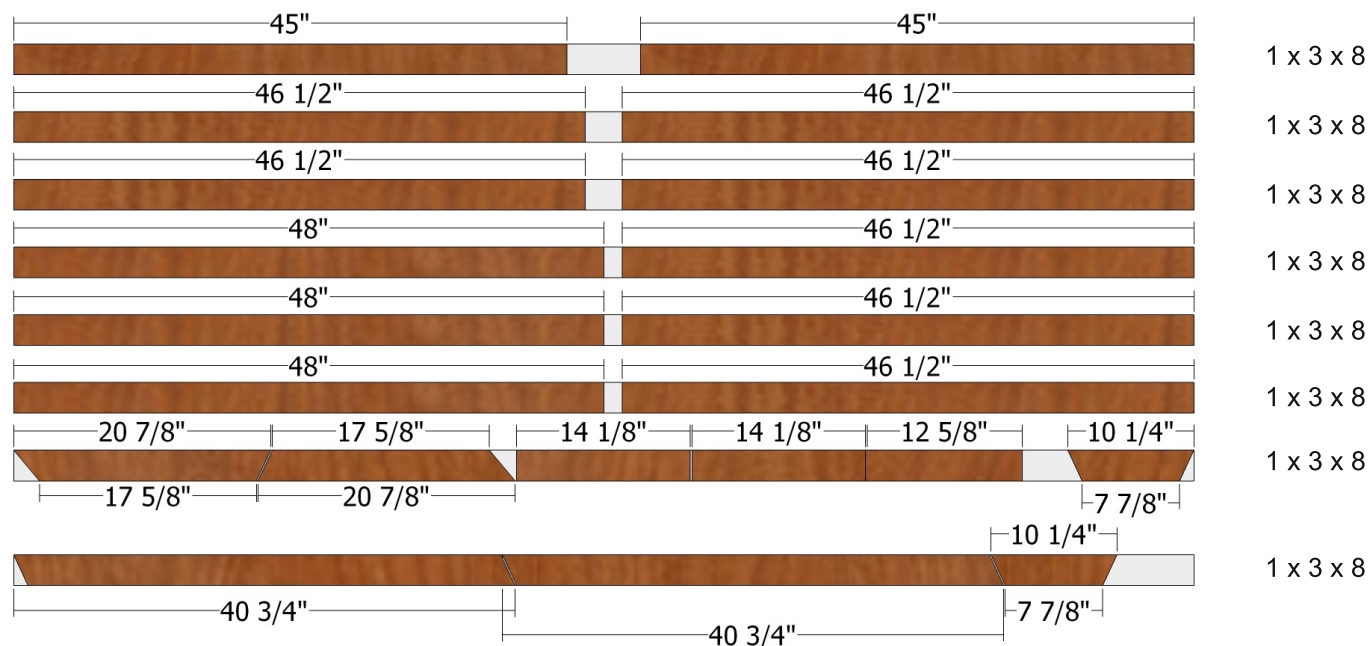
Position the Side Seat Rails flush with the inside of the ends of the End Seat Rails as shown and attach using glue and 1 1/4" pocket hole screws. Position the Seat Stretcher centered between the End Seat Rails as shown and attach using glue and 1 1/4" pocket hole screws. Position the first Seat Slat overhanging the Side Seat Rail by 3/8" as shown and attach using glue and 1 1/4" pocket hole screws (drive the screws through the horizontal pocket holes on the Side Seat Rails and Seat Stretcher). Position the remaining Seat Slats spaced 1/2" apart and attach using glue and pocket holes screws driven through the Seat Rails and Stretcher.

**NOTE**

Position the Body Stretcher centered on the End Rails as shown and attach using glue and 1 1/4" pocket hole screws. Position the Seat Assembly as shown (use the layout on Page 2 as a guide), and attach to the Leg Assemblies using glue and 1 1/4" wood screws. Use at least four screws on each end of the assembly. Position the Back Slats as shown and attach using glue and 1 1/4" wood screws. Use at least two screws on each end of the Back Slats.

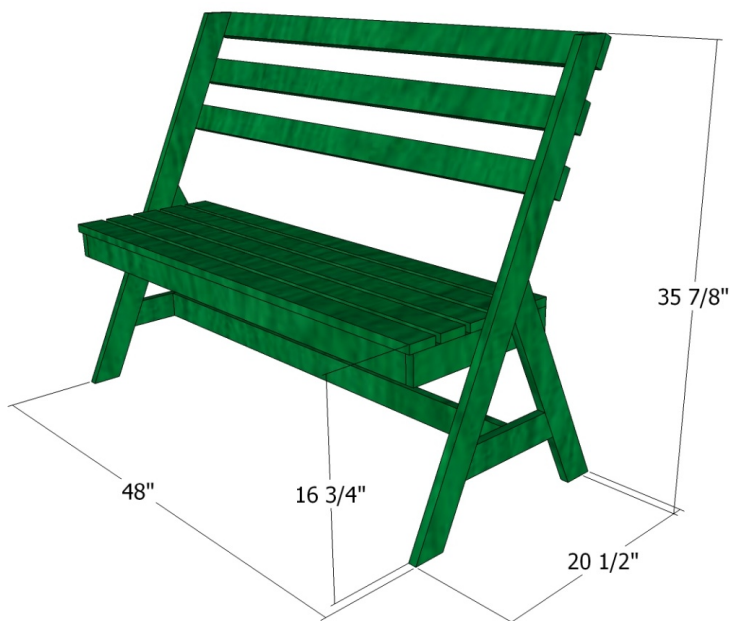


CUTTING DIAGRAM



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HEADS UP

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!