

Project Plan

27 Gallon Tote Sliding 5-Rack



Estimated Time: **1-2 Hours**

Skill/Experience **Beginner**

Overall Dimensions:

Height 86½" x Width 23½" x Depth 28½"

Materials

- 8 feet long 2x4 Lumber - **9 Pieces**
- 2 ¾" Self-Starting Star Flat-Head Wood Screws - **minimum 56 pieces**

Deck Screws suggested

- 27 Gallon Totes - **5 Totes**

Tools Needed

- Safety Glasses
- Pencil and tape measure
- Speed Square
- Miter/Chop Saw/Circular saw
- Power Drill

Cut List

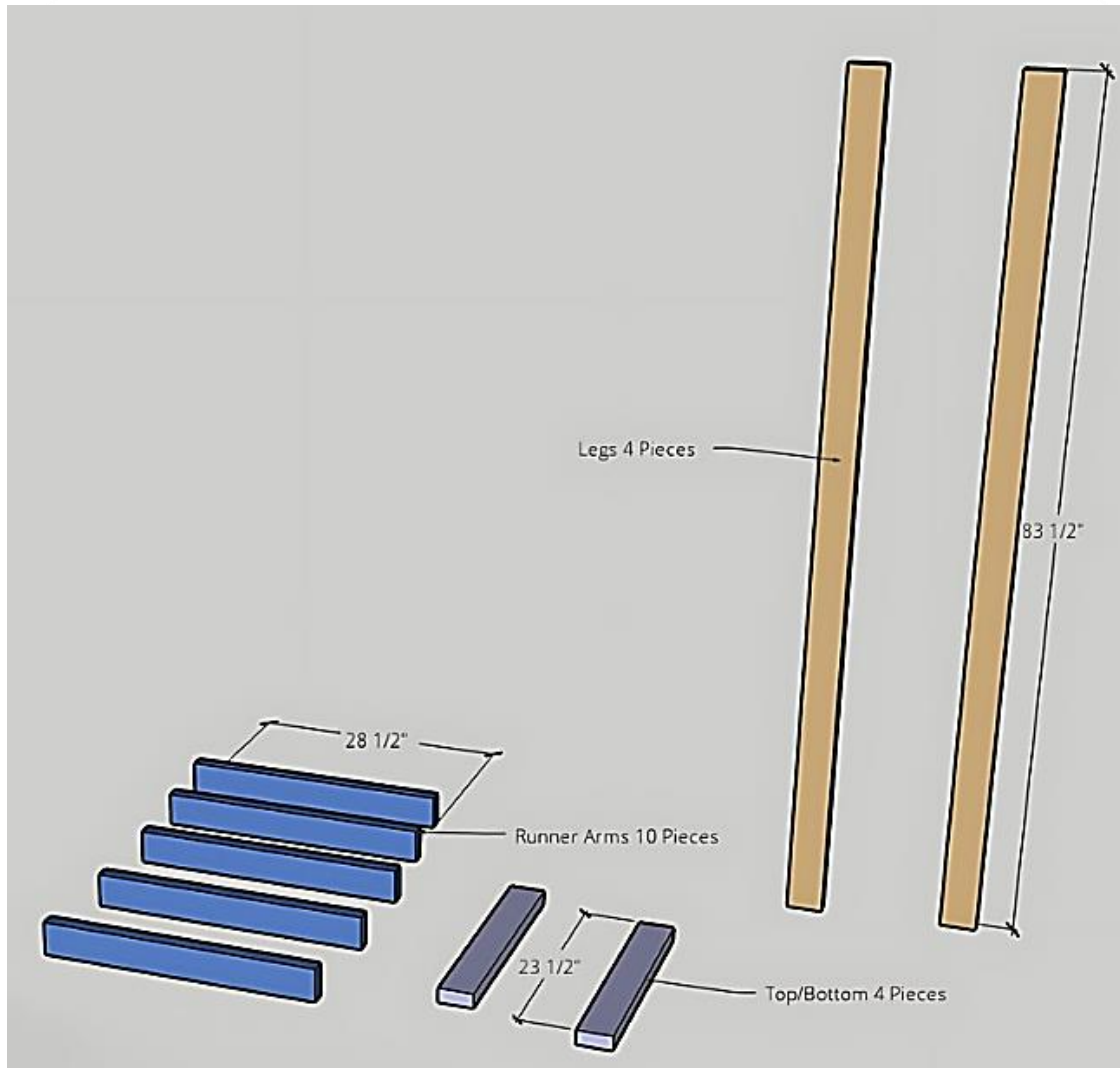
Material	Part	Length	Qty
2x4	Legs	83½"	4
2x4	Top & Bottom	23½"	4
2x4	Runner Arms	28½"	10
2x4	Spacer Blocks	13"	2

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Instructions

Step 1 – making the Cuts

Cut the boards according to the cut list above

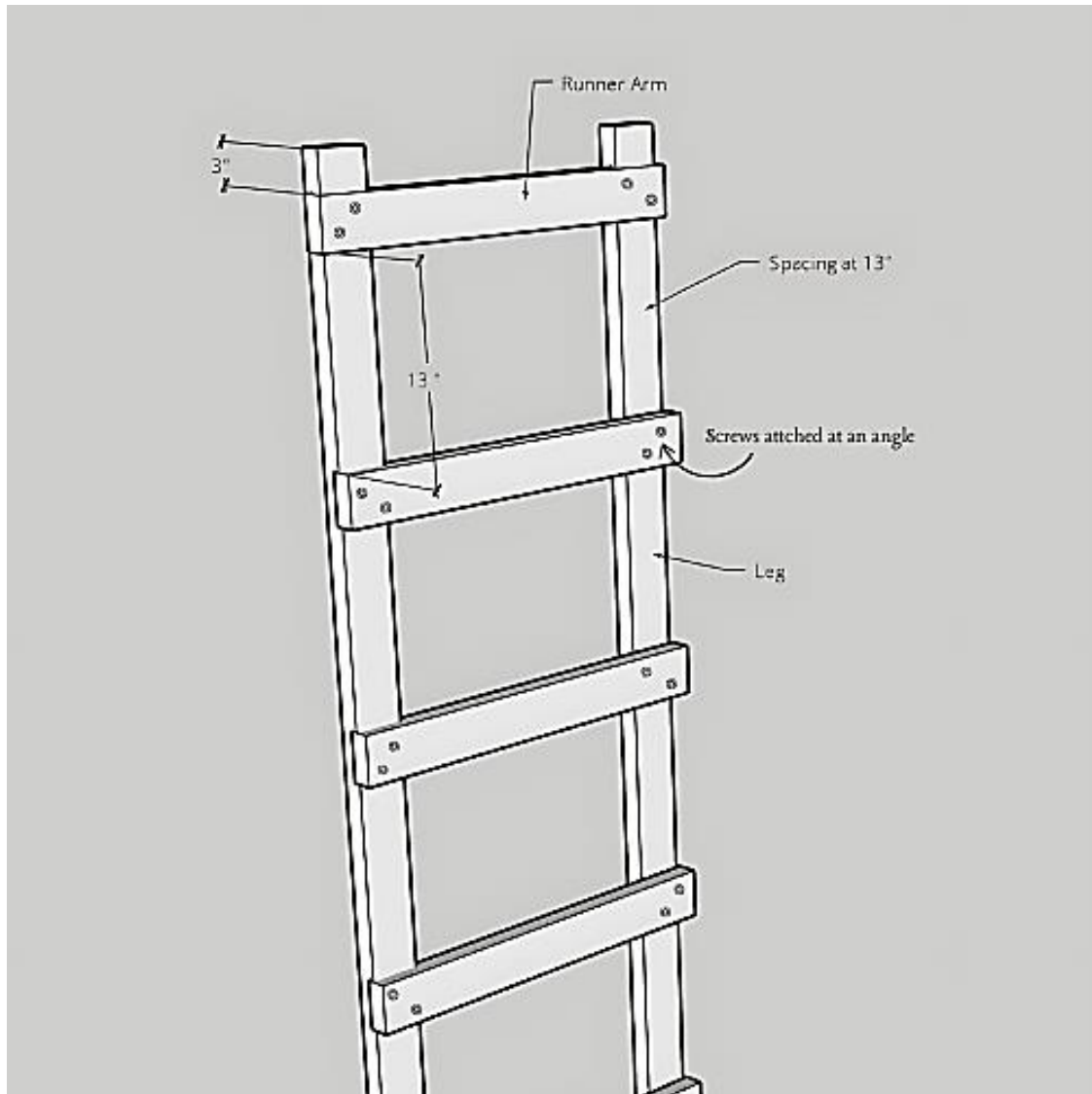


Step 2 – Assembly

Use a speed square to mark one side of the legs down from the top at 3" from the edge. Attach one runner arm to the legs with two screws per joint, making sure the legs remain parallel and the distance at the base is the same as the distance at the top.

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Tip: Use the spacer to lay out all the runner arms and then attach the last one at the bottom of the legs. This will ensure that the legs are parallel top to bottom. Also, attach the screws at an angle -see image below

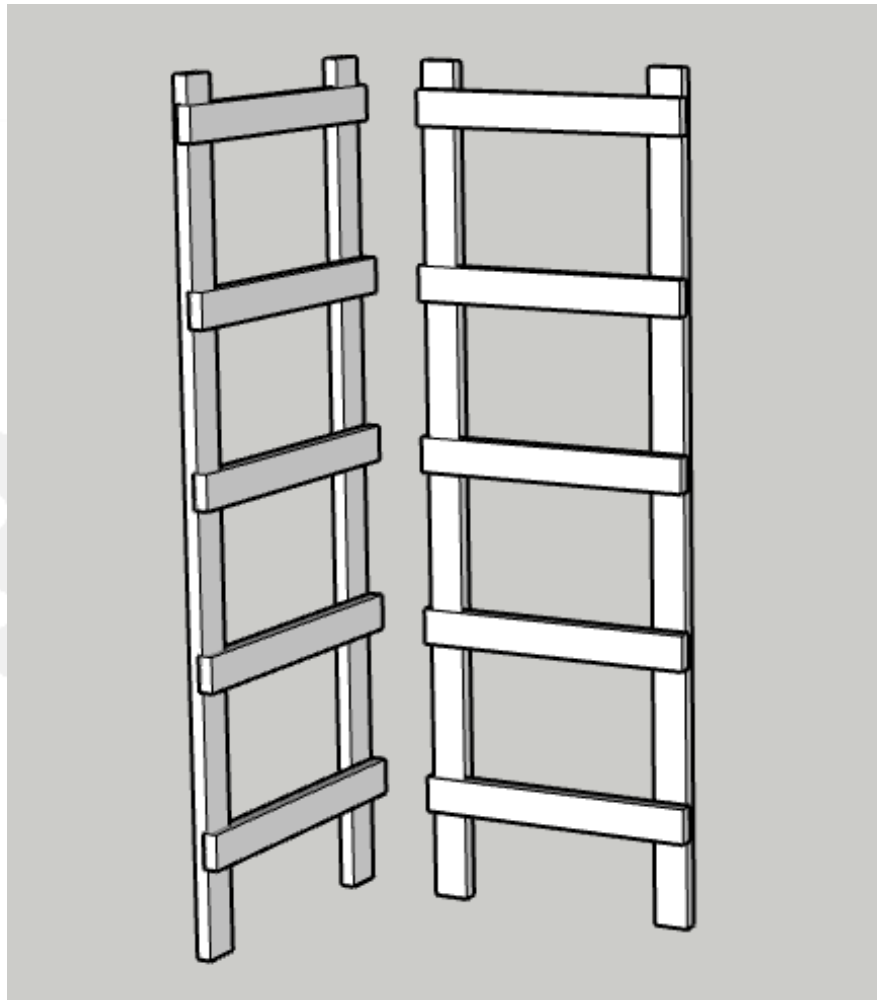


Each row requires one runner arm; hence, a 5-storage rack needs 5 runner arms.

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Step 3

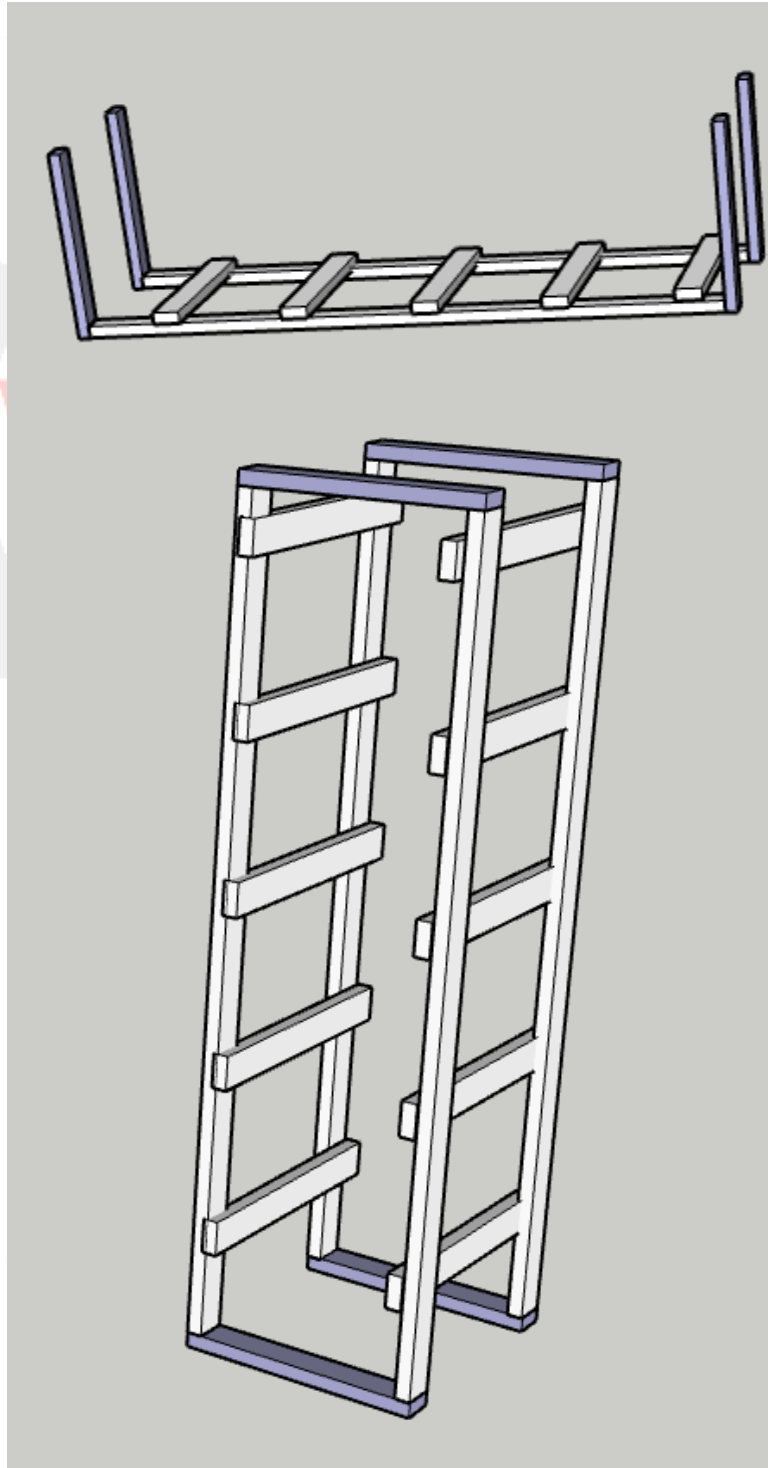
Repeat the same steps for the other legs



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Step 4

Secure the upper and lower pieces to assemble the leg and form the frame.



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Tips

- Make sure the blade on the saw that you are using is not dull. This will ensure clean cuts on the lumber.
- Use the spacer to lay out all the runner arms and then attach the last one at the bottom of the legs. This will ensure that the legs are parallel top to bottom. For the spacers, you can use scrap wood you may have handy. It does not need to be 2x4; a 1x4 or leftover plywood you can cut to $\frac{3}{4}$ " x $3\frac{1}{2}$ " x 13" will work just fine.
- Attach the screws at an angle -see image in Step 2, Page 2.
- When attaching the top and bottom pieces, install the screws at about a 35-degree angle instead of straight in for a stronger fastening.
- Secure the rack to the wall using a 1x4 or 2x4 based on the distance. Attach the board to the back of the rack and screw it into wall studs to prevent tipping.
- Finishing with stain or paint is optional, but you can definitely sand off any visible splinters or rough spots, since that will make for smoother and safer handling.
- For more tips. Check out the full video for free here - <https://youtu.be/oA41UPISMtY>



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