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Deck Canopy

Until we built this canopy, we could not use most of our deck during the heat of the day. Now we can enjoy the outdoor space all day. The canvas panels shade the entire deck or can be pulled back if you want to feel more of the warmth of the sun.



***Notes on Construction and Materials**

We suggest that, before starting this project, you consult local building codes. We also suggest obtaining the appropriate construction permits before you begin, since this project will be attached to your home. Because every house is different, make certain that the chosen height and distance from the house will work with your structure. Also, the pitch of your roof may make a difference in how some of the project pieces are attached.

This project will require a professional to cut the pipe to length and thread the ends. Most home centers will do this for a minimal charge.

Materials

- 32 linear feet of 4 x 4 pressure-treated pine

- 2 50-pound bags of concrete
- 65 linear feet of 2 x 6 pine
- 4, 6' lengths of 3/4"-diameter galvanized pipe, threaded on both ends*
- 8, 1" lengths of 3/4"-diameter galvanized pipe, threaded on both ends*
- 8 galvanized pipe flanges to fit 3/4"-diameter pipe
- 8 90-degree pipe angles to fit 3/4"-diameter pipe
- 2 canvas panels, each 54" x 72", hemmed on all four sides, with grommets inserted every foot along the 72" lengths

Hardware

- 10, 2-1/2" wood screws
- 4 3-1/2" lag bolts
- 6 galvanized metal tie-down braces
- 40, 1-1/4" wood screws
- 32 metal shower curtain rings

Special Tools and Techniques

- Miter (optional)

Cutting List

Code	Description	Qty.	Materials	Dimensions
A	Post	2	4 x 4 pine	16' long
B	Roof Supports	2	2 x 6 pine	143" long
C	Tops	3	2 x 6 pine	144" long

Building the Frame

1. Dig two holes approximately 116 inches apart from the center of the hole and 118 inches away from your house to the depth of about 3 feet or to the depth your local building code specifies.
2. Cut two Posts (A) from 4 x 4 pressure-treated pine, each measuring 16 feet. Place one Post (A) in each hole and set in place, using a bag of mixed concrete for each Post (A). Make sure that both posts are plumb. Secure Posts (A) temporarily by using a bracing board on two sides of the posts. Let cement set up overnight.
3. Cut 2 Roof Supports (B) from 2 x 6 pine, each measuring 143 inches long. For a decorative (but optional) touch, miter both ends of the Roof Supports (B) at opposing 30-degree angles, as shown in *Figure 1*.

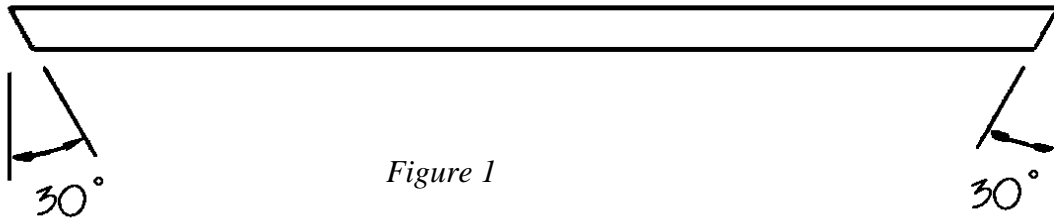


Figure 1

4. This step requires the use of two ladders or two really tall people. Mark the distance to the required height to match the shingled edge of your roof from the ground or deck. Place one roof support (B) over one side of the Posts (A), as shown in *Figure 2*. Screw through the Roof Support (B) into the Posts (A). Temporarily hold the pieces together with two 2-1/2" wood screws in each post. Then install one 3-1/2" lag bolt on each Post (A).
5. Repeat Step 4 to attach the remaining Roof support (B) to the other side of the Posts (A). This will sandwich the two Posts (A) between the two Roof Supports (B).

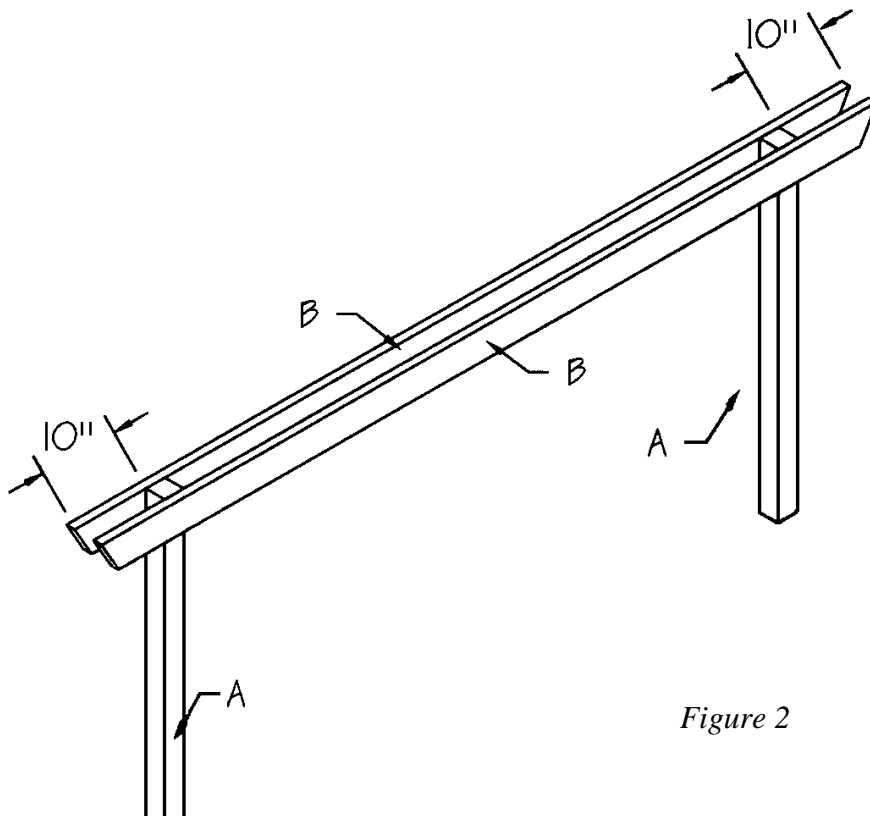


Figure 2

Adding the Tops

1. Cut three Tops (C) from 2 x 6 pine, each measuring 14 inches long. If desired, use a miter to make a 30-degree cut on one end of each of the Tops (C).
2. Place the three Tops (C) on edge over the roof supports (B), with the mitered end away from the house, as shown in *Figure 3*. Attach the Tops (C) to the Roof Supports (B) with metal tie-down braces. Make sure that the Tops (C) are level before installing the braces.

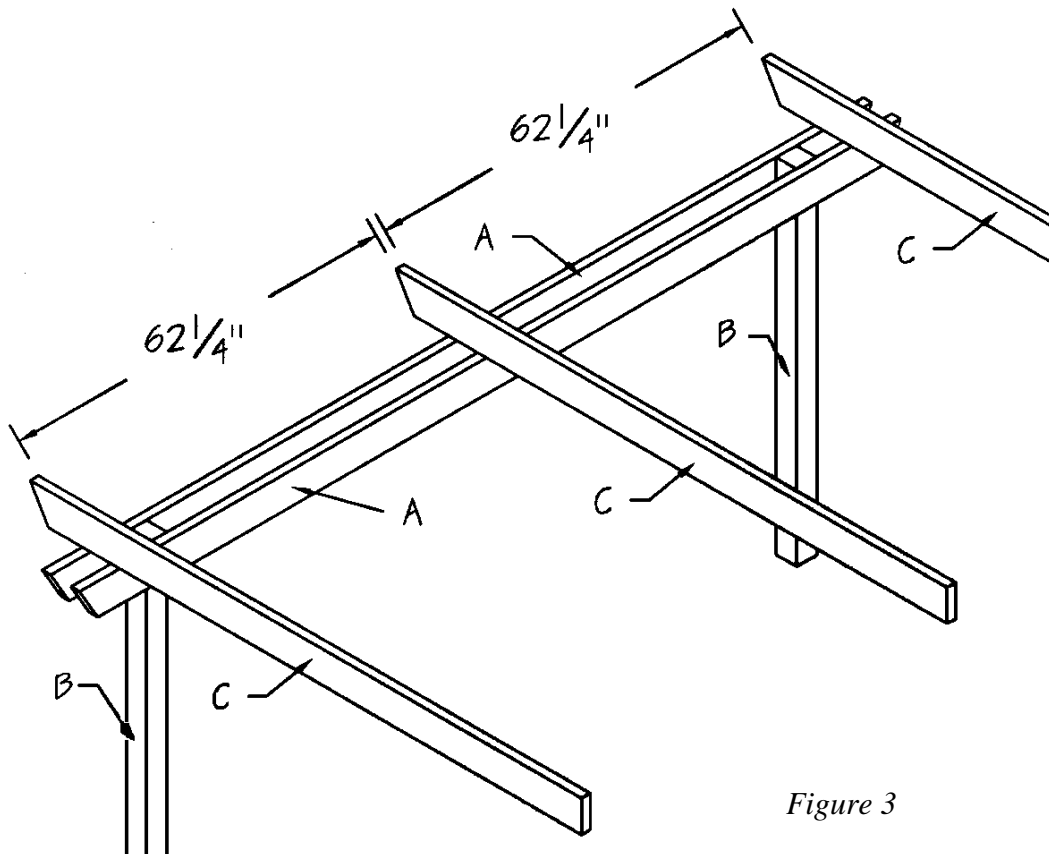


Figure 3

3. Attach the ends of the Tops (C) on top of the roof in the same manner, making sure that any relevant code requirements are followed explicitly. Use the same braces as used to connect the Tops (C) to the Roof support (B).

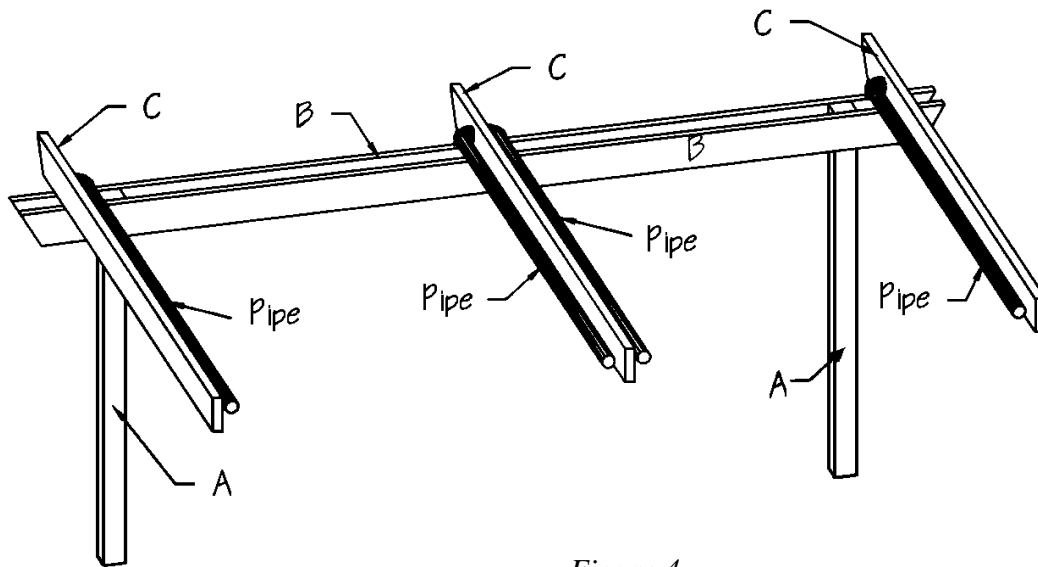


Figure 4

Adding the Pipe

1. Attach, in the following order, the 90-degree pipe corner to the long pipe, then the 1-inch-long pipe to the other side of the 90-degree corner, then the flange to the 1-inch-long pipe, which will allow you to screw the flange to the Top (C).
2. Repeat Step 2 with the opposite end and the remaining pipes.

Installation

1. Install the pipes 10 inches away from the end of the Tops (C), as shown in *Figure 4*.
2. Attach the canvas to the pipes, using shower curtain rings.



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