



12'x16' Storage Shed Plan

Compare our Free vs. Premium plan

This perfectly designed plan will guide you through the entire process of building your very own shed for any backyard or garden.



Check out the benefits you would get with our **premium edition**:

Features	Free plan	Premium edition
Steps count	10	21
Illustrations for Each Step	✓	✓
Print Ready	✓	✓
Step By Step Instructions	✓	✓
Full Materials and Cuttings List	✗	✓
Additional Illustrations	✗	✓
Additional Blueprints	✗	✓
Tools List	✗	✓
Fastening Elements List	✗	✓
Technical Support	✗	✓

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12'x16' Lean-to Storage Shed Material List

Site Preparation

- Concrete
- Bricks

Bottom Frame

- Pressure-Treated Lumber
- Plywood

Front/Back/Side Wall Frames

- Pressure-Treated Lumber

Shed's Roof

- Pressure-Treated Lumber
- Pressure-Treated Board
- Plywood
- Building paper
- Asphalt shingles
- Metal drip edge

Door Ramp

- Pressure-Treated Lumber
- Plywood

Shed's Door

- Pressure-Treated Lumber
- Plywood

Front/Back/Side Wall Exterior Siding

- Pressure-Treated Lumber
- Wood siding boards

Top Frame

- Pressure-Treated Lumber

Fasteners & Hardware

- Door hinges
- Door pulls
- Surface bolt
- Corner braces
- Wood square louver gable vent
- Galvanized nails
- Wood screws

STEP 1

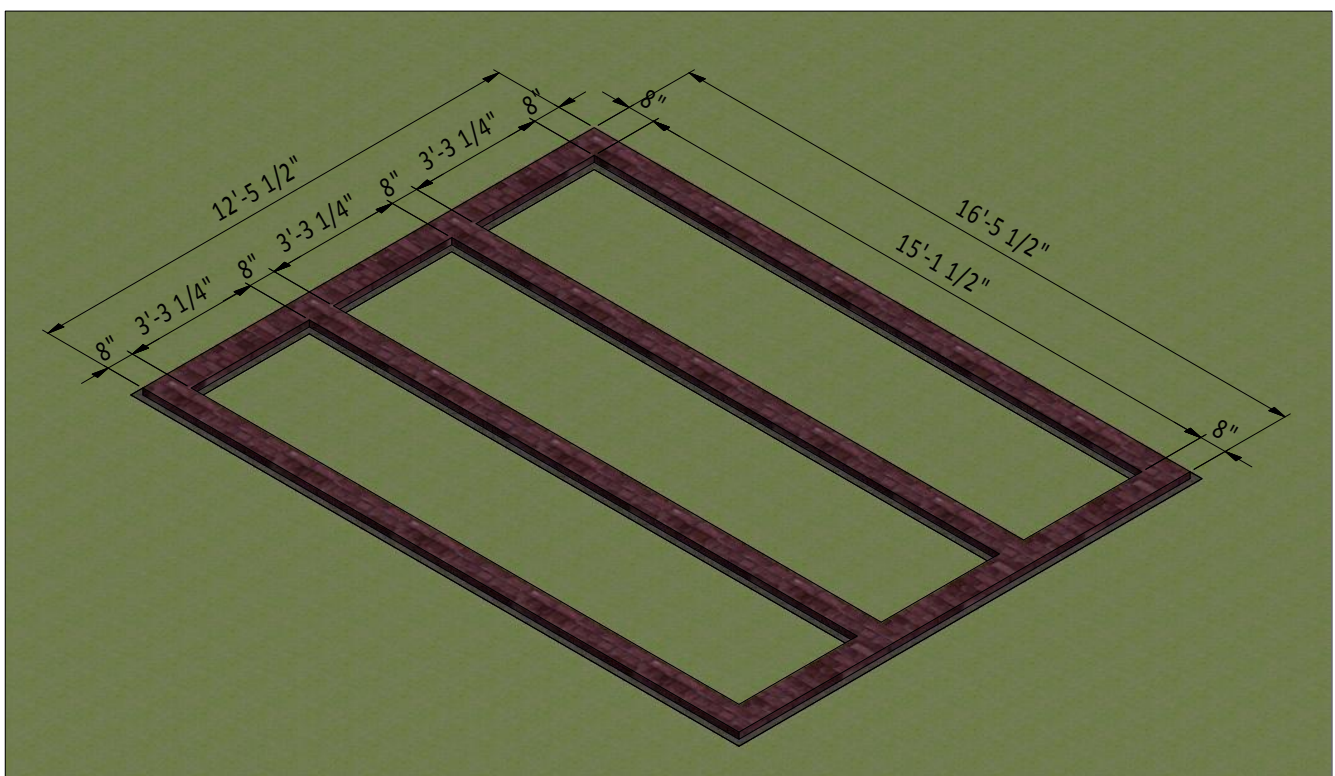
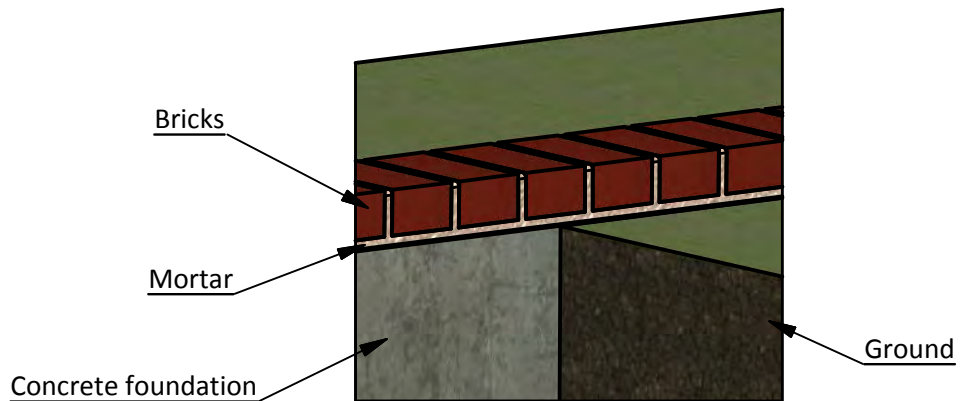
Foundation Preparation

1.1 Clear the area where you want to build the shed and layout for the foundation. Use the below illustration as a guide.

1.2 For the foundation, dig the trenches at least 1' wide and 1' deep.

1.3 Fill the trenches to ground level with concrete and let cure, or harden. Since curing times vary between brands, read the packaging for recommended curing times.

1.4 Once the concrete has cured, use standard-sized bricks and lay them across the foundation. You will need roughly 225 bricks for this step.



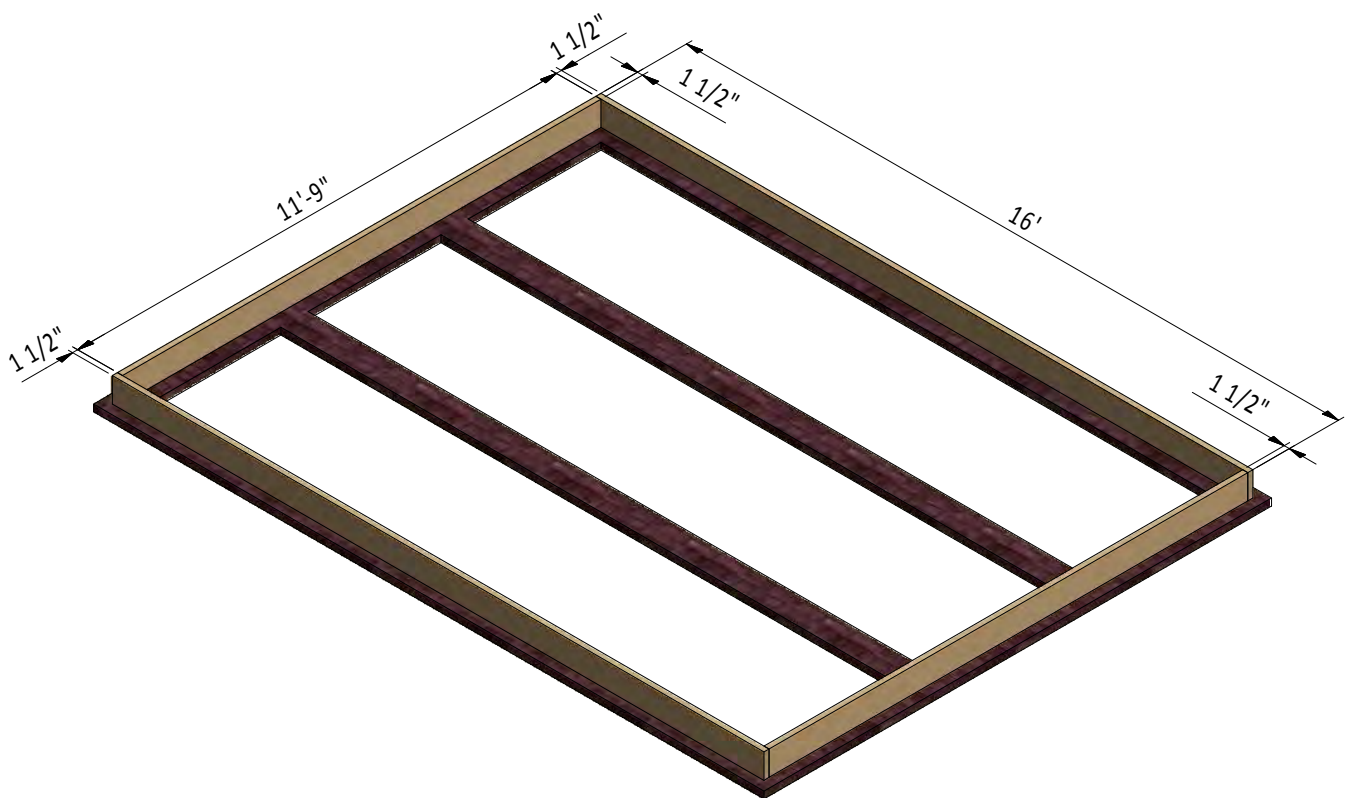
STEP 2

Framing the Floor

2.1 Assemble the frame using $1\frac{1}{2}$ " x $7\frac{1}{4}$ " pressure-treated lumber. You will need two boards cut to 16' that will be the rim joist and two boards cut to 11'-9" that will be the joist.

2.2 Secure the beams with 8x5" wood screws.

2.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



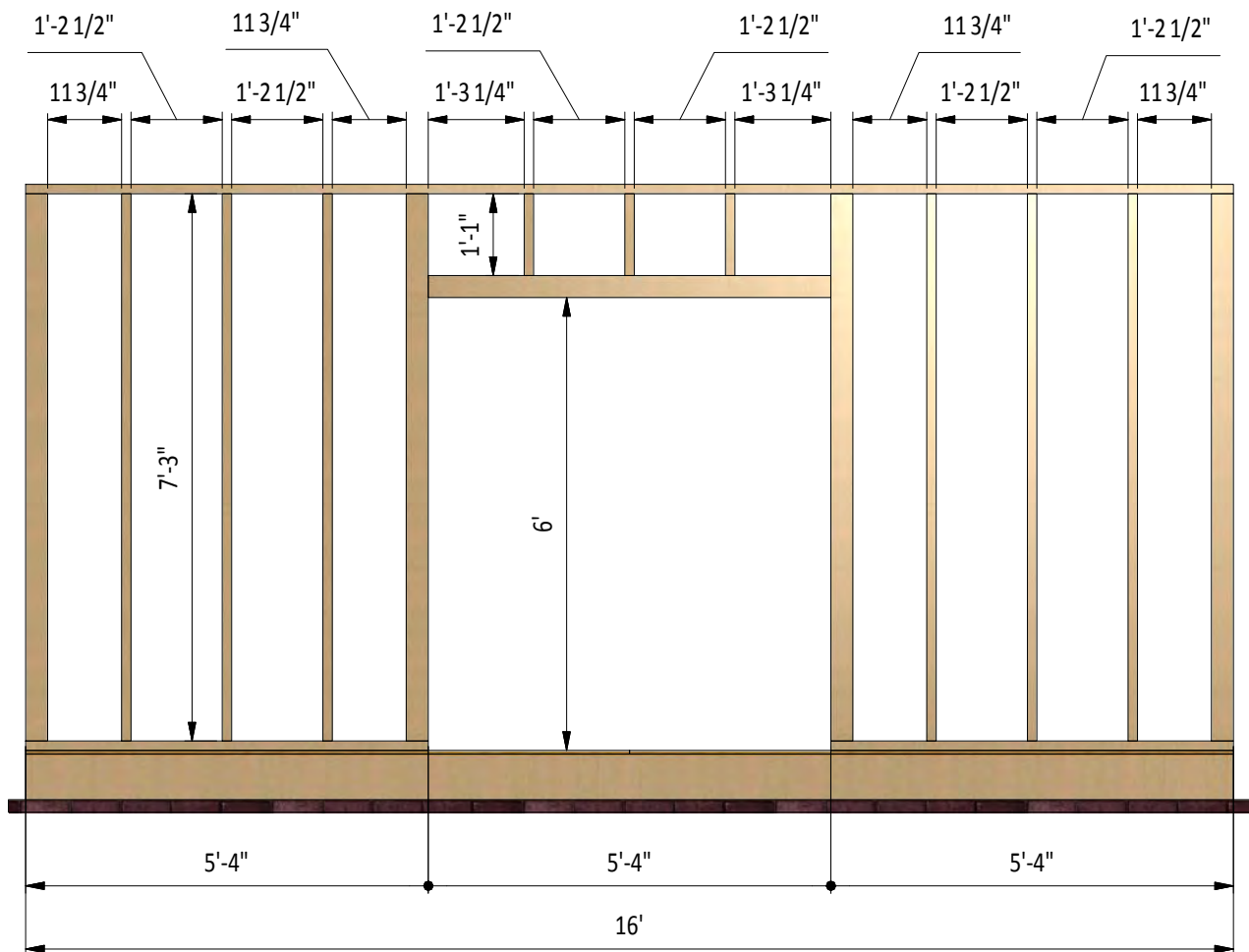
STEP 3

Assemble Front Wall Frame

3.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need ten boards cut to 7'-3" that will be studs, two boards cut to 5'-4" that will be the bottom plates, one board cut to 16' that will be the top plate, one board cut to 5'-4" that will be the door header, three boards cut to 1'-1" that will be cripple studs.

3.2 Connect the beams with 2x3" and 2x5" wood screws.

3.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



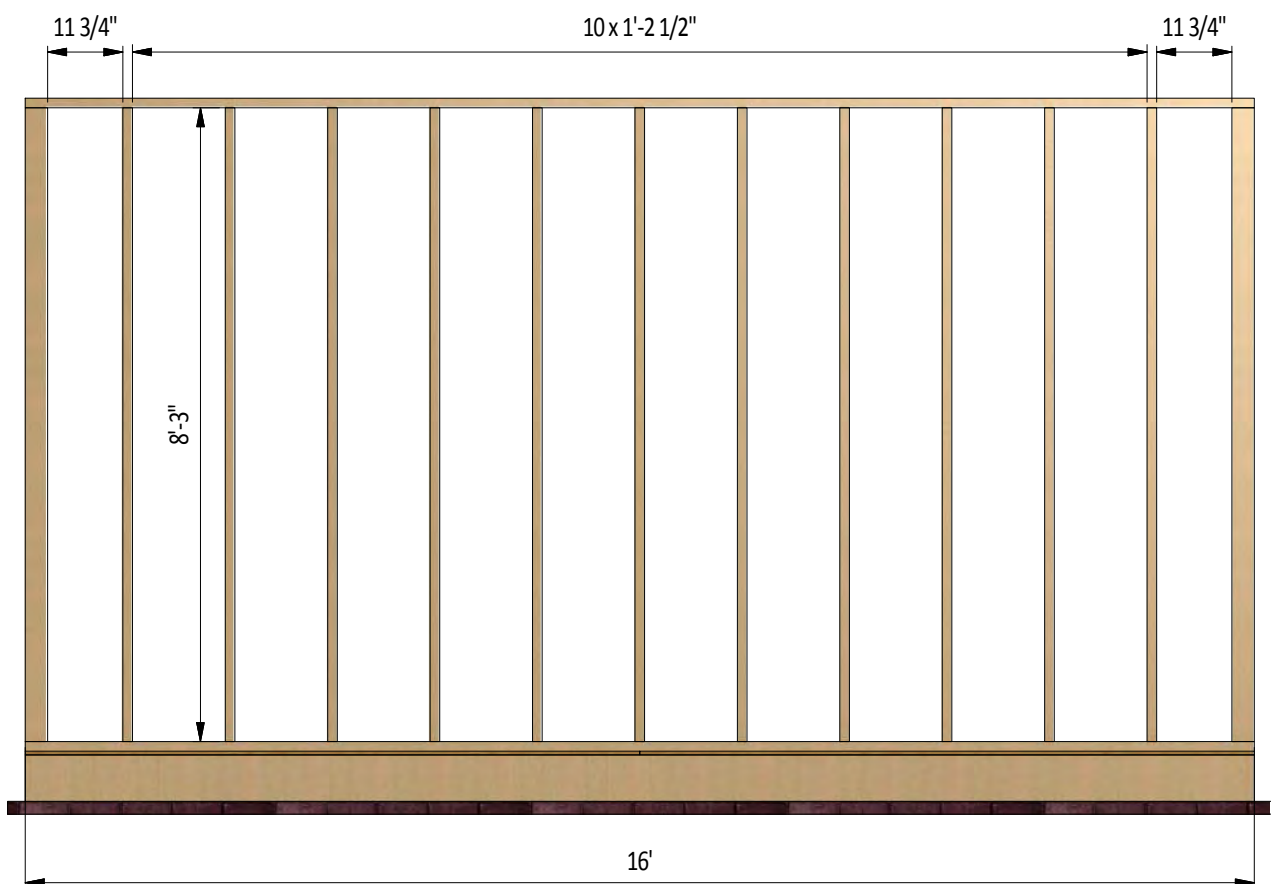
STEP 4

Assemble Back Wall Frame

4.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct back wall frame using the drawing below as a reference. You will need thirteen boards cut to 8'-3" that will be the studs and two boards cut to 16' that will be the top and bottom plates.

4.2 Connect the beams with 2x3" wood screws.

4.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



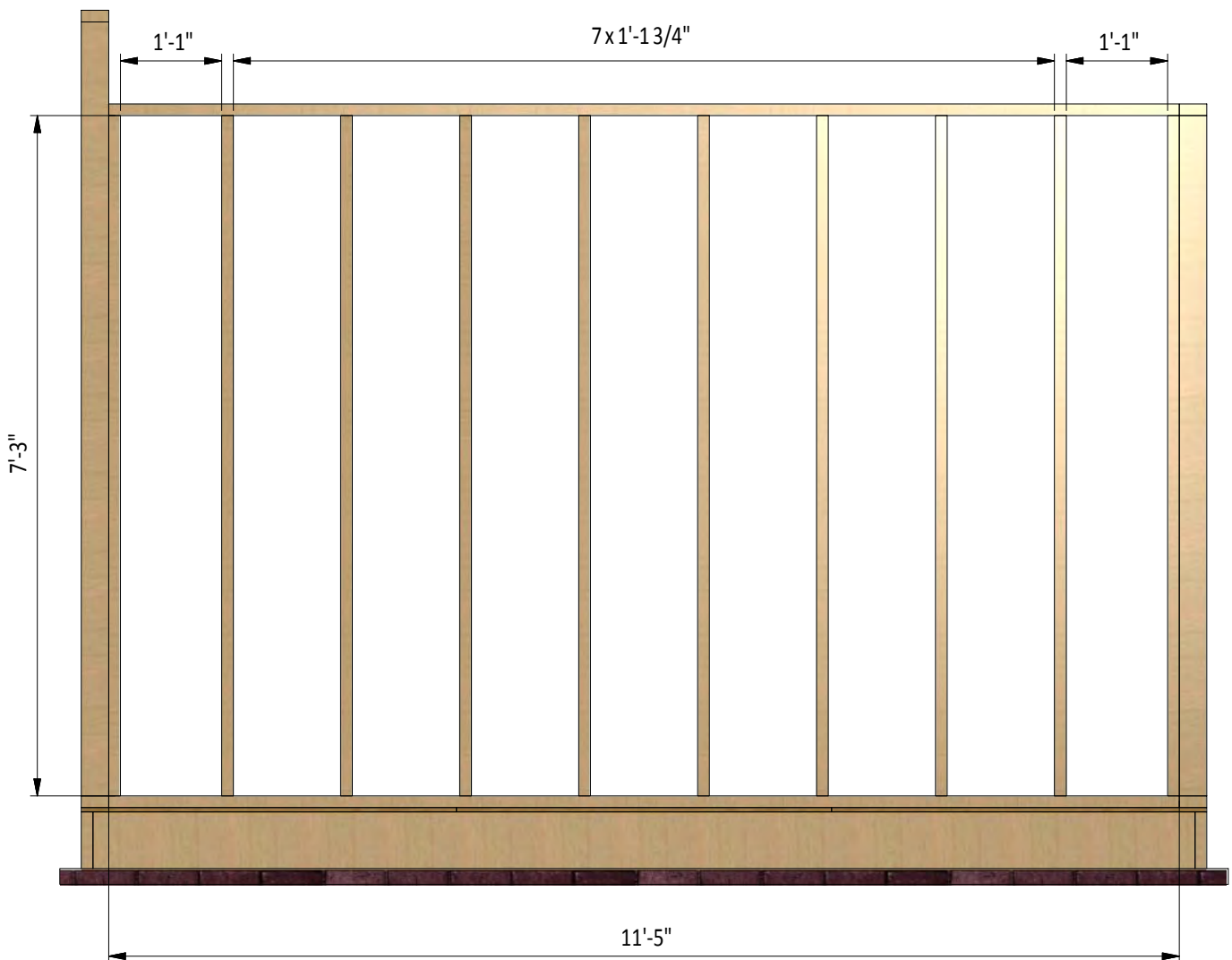
STEP 5

Assemble Right and Left Wall Frames

5.1 Using 1 1/2" x 3 1/2" pressure-treated lumber, construct side wall frame using the drawing below as a reference. You will need ten boards cut to 7'-3" that will be the studs and two boards cut to 11'-5" that will be the top and bottom plates.

5.2 Connect the beams with 2x3" wood screws.

5.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.

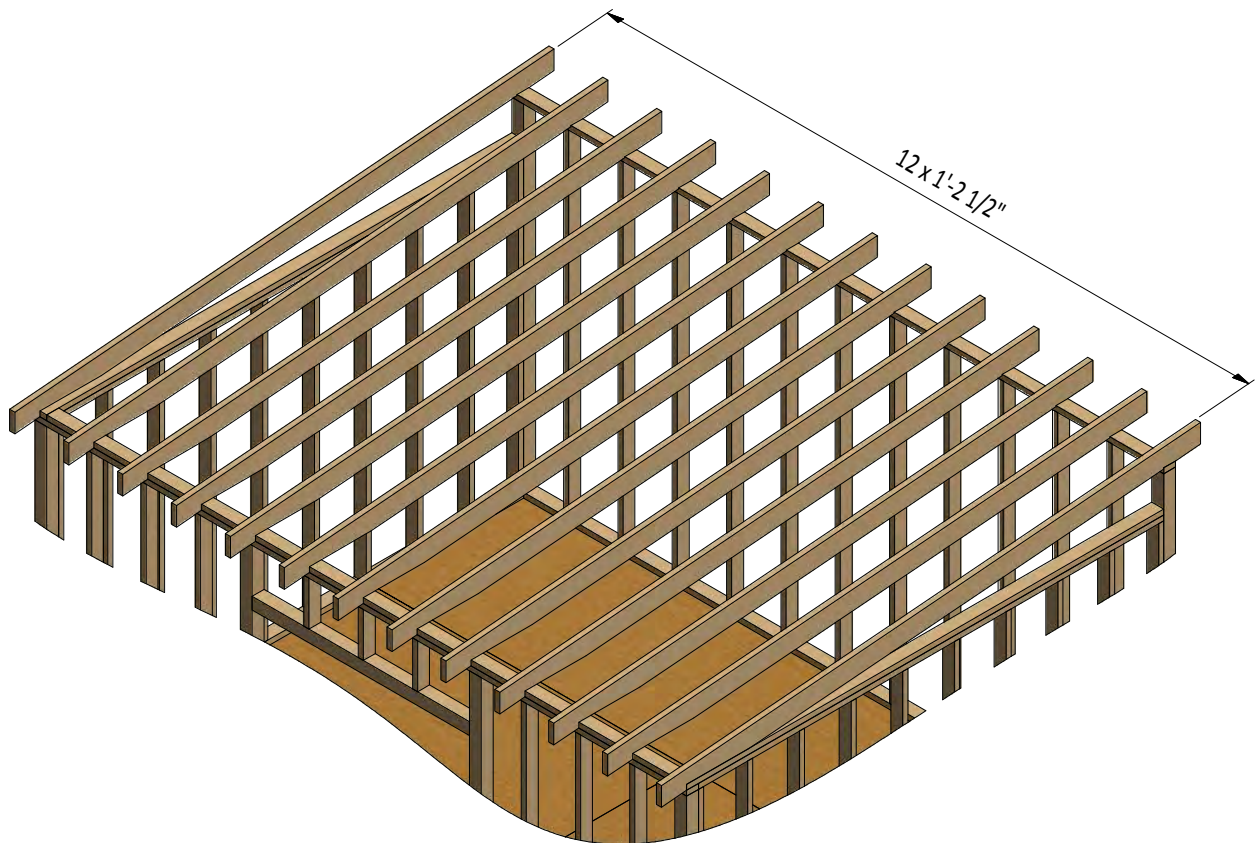


STEP 6

Assemble The Roof Frame

6.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut thirteen rafters 13'-3 1/4" long according to the dimensions in drawing below. Cut the recesses in each beam for splicing connection with wall frames.

6.2 Connect the beams with a top frame with the help of 3" wood screws.



STEP 7

Assemble and Install Shed Doors

7.1 Build the door frames for the shed using 1 1/2" x 3 1/2" pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 5'-11 3/4" that will be the vertical girts and two boards cut to 2'-3/4" that will be the horizontal girts.

7.2 Prepare the 9/16" plywood sheet with dimensions 2'-7 3/4" x 5'-11 3/4" for the doors according to the drawing.

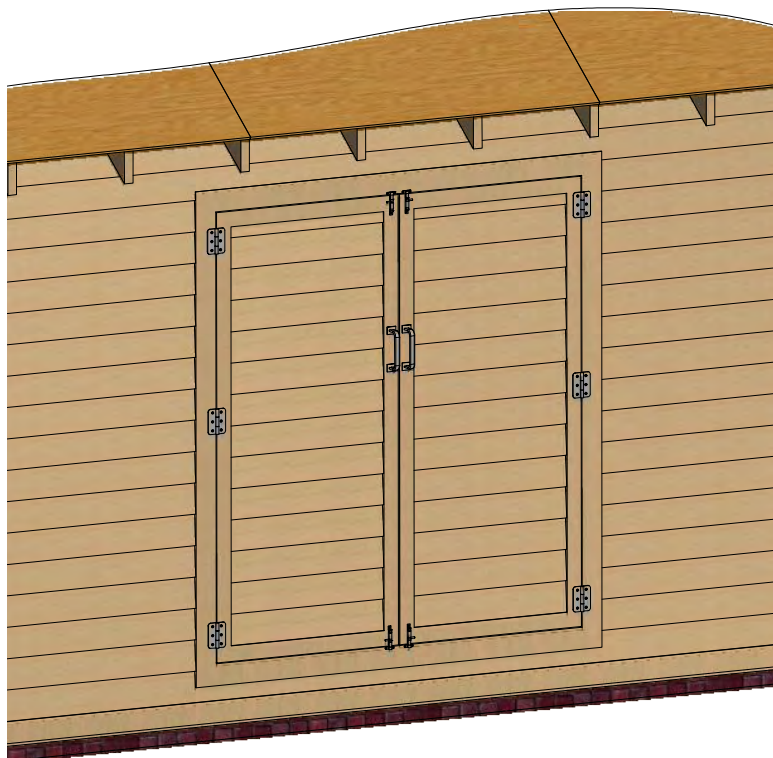
7.3 Use 2 1/2" x 3/4" pressure-treated lumber for the door trim and fasten with 2" wood screws. You will need two boards cut to 2'-2 3/4" and two boards cut to 5'-11 3/4".

7.4 Using 1/4" x 3/4" pressure-treated lumber, cut and install a starter course 2'-2 3/4" long.

7.5 For the exterior siding on the door, use 1/2" x 6" wood siding boards and the illustration below as a reference.

7.6 Assemble siding shields with 2" galvanized nails.

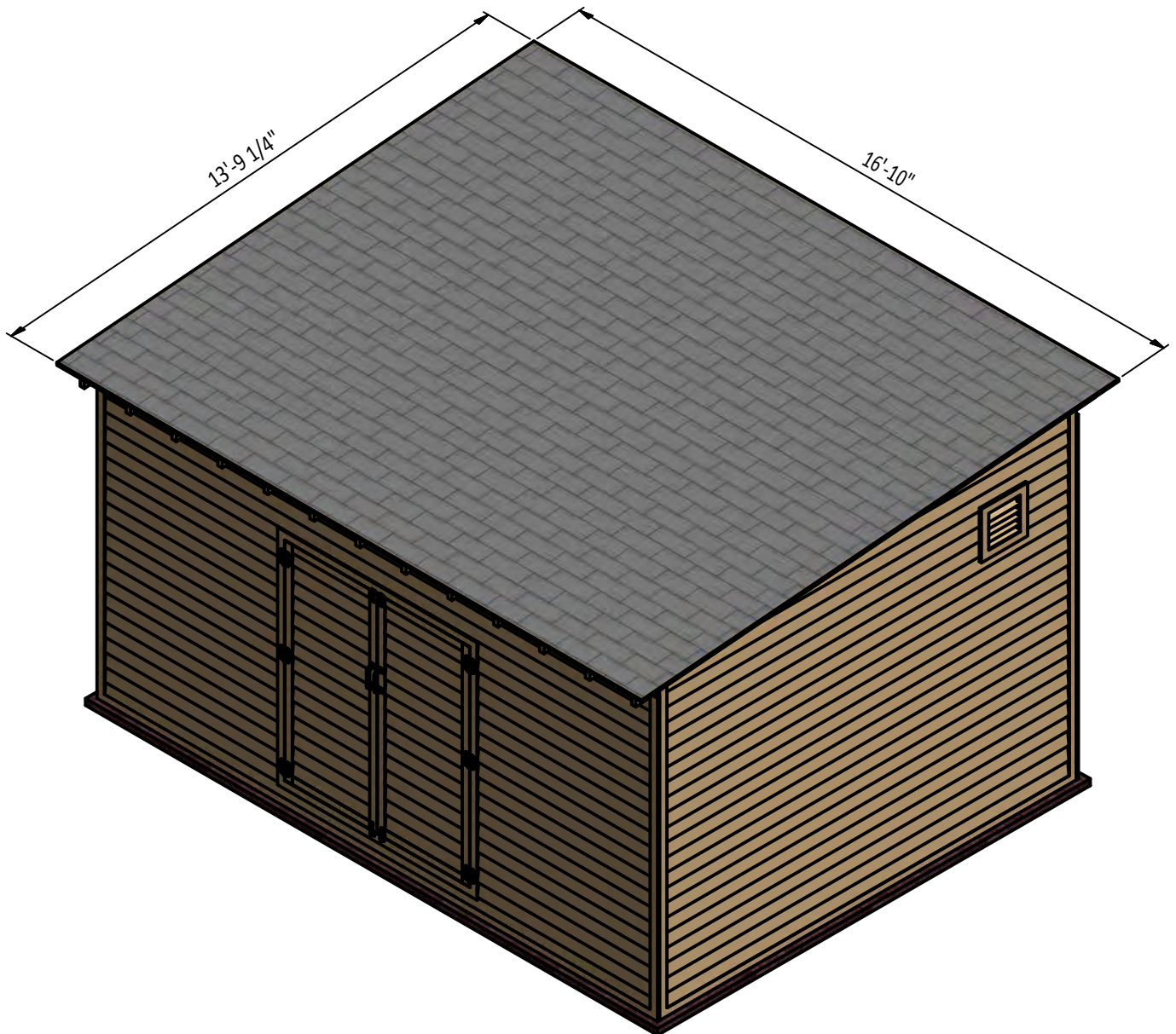
7.7 Install three 3" door hinges using 6x1" wood screws. Finish the doors installation by attaching 4" surface bolts and 6" door pulls.



STEP 8

Roof Sheathing Installation

- 8.1 You will need 235 Sq Ft of asphalt shingle roofing.
- 8.2 Add the metal drip edge to the fascias.
- 8.3 Cover the plywood with building paper.
- 8.4 Install asphalt shingle roofing using an industrial stapler.



STEP 9

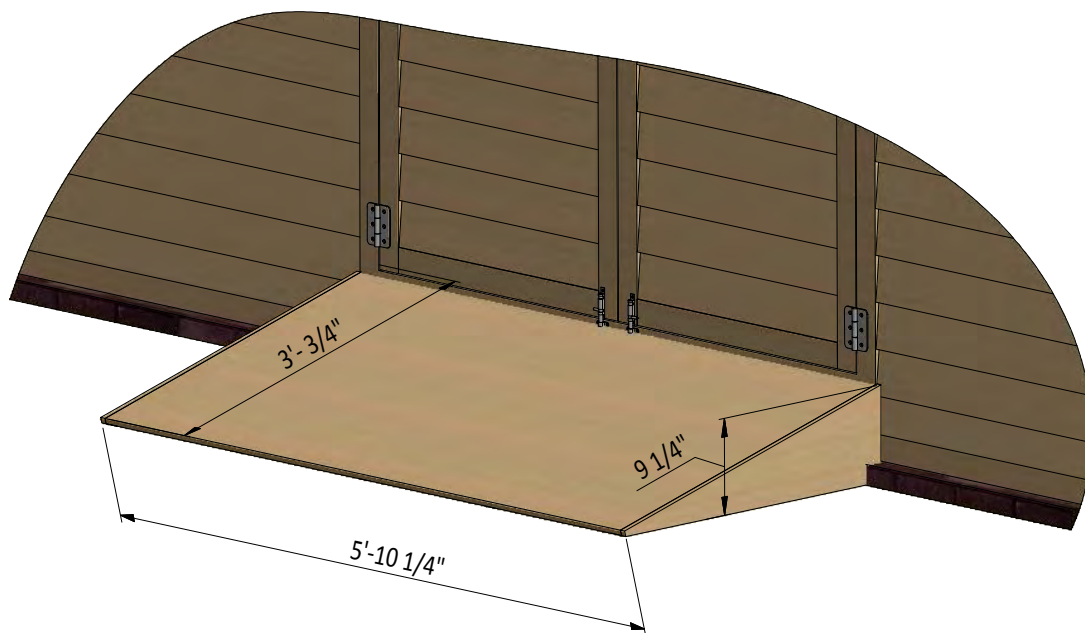
Assemble and Install Door Ramp

9.1 Assemble the five door ramp frames from pressure-treated lumber and secure with 3" and 5" wood screws (node **K** on page 28). For each frame you will need one 1 1/2" x 1 1/2" board cut to 1'-8"; one 1 1/2" x 2 1/2" board cut to 3'-3/4" and one 1 1/2" x 3 1/2" board cut to 6 1/4".

9.2 Connect and secure all frames using one 1 1/2" x 2 1/2" board 5'-9" long and 3" wood screws.

9.3 Cut the 9/16" plywood sheet with dimensions 3'-3/4" x 5'-9" for the top plane and two sheets with dimensions 9 1/4" x 2'-9 1/2" for the sides.

9.4 Assemble siding shields with 2" galvanized nails.



STEP 10

Shed Decoration

Now that your shed is all done, you are ready to decorate it any way you want using your favourite paint, stain, or preservative.



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