



## 8'x12 Garden Shed Plan

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# 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	15	29
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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# 8'x12' Garden Shed Material List

## Site Preparation

- Concrete
- Bricks

## Bottom Frame

- Pressure-Treated Lumber
- Plywood

## Wall Frames

- Pressure-Treated Lumber

## Shed's Roof

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

## Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

## Shed's Door

- Pressure-Treated Lumber
- Wood siding boards
- Plywood

## Walls Exterior Siding

- Pressure-Treated Lumber
- Wood siding boards

## Top Frame

- Pressure-Treated Lumber

## Fasteners & Hardware

- Door hinges
- Door pulls
- Surface bolt
- Window lock
- Wood square louver gable vent
- Galvanized nails
- Wood screws

## Drainage System

- Pressure-Treated Lumber
- Half round gutter
- End pieces with outlet
- 45° elbow
- Drainage pipe
- Joint connector
- End cap
- Round hunger
- Wall fastener

## **Shed's Window Shutter**

- Pressure-Treated Lumber

## **Door Ramp**

- Pressure-Treated Lumber
- Plywood

## **Shed's Pergola**

- Pressure-Treated Lumber

## **Wall Sheathing**

- Plywood

## STEP 1

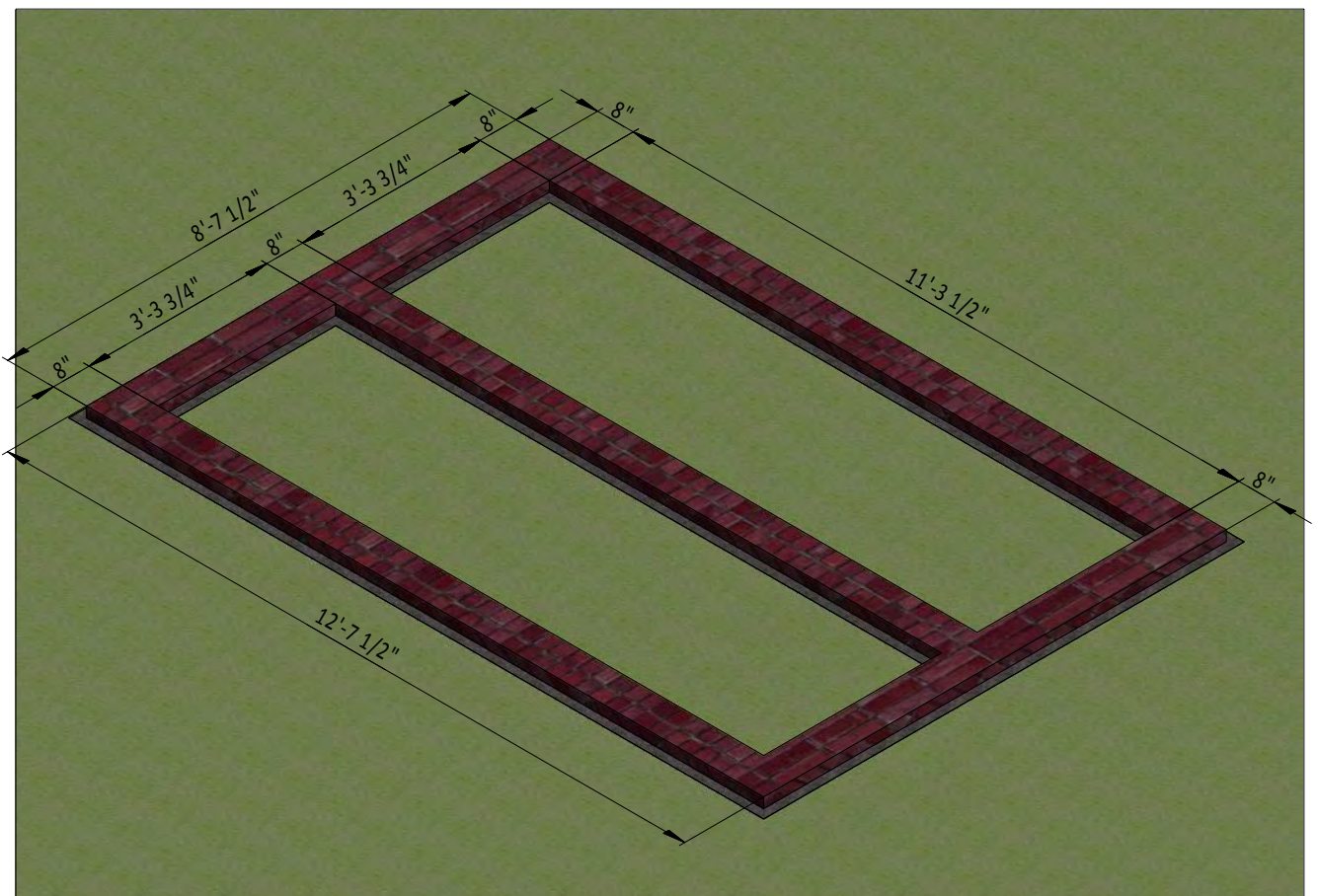
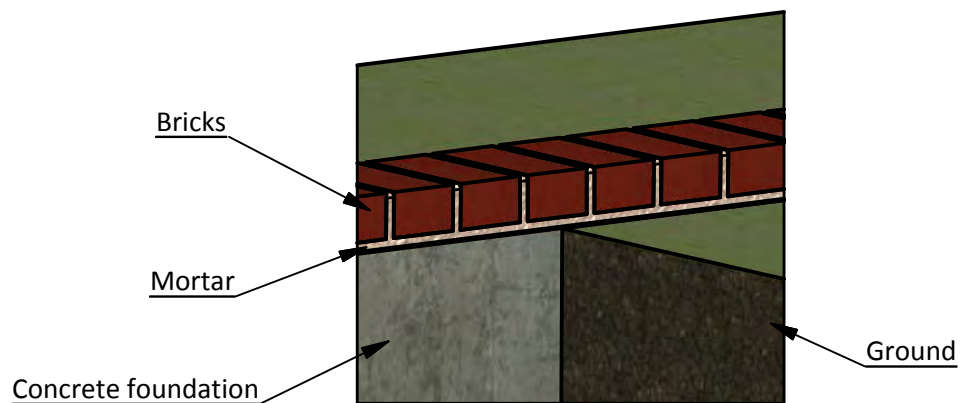
# Foundation Preparation

**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 135 bricks for this step.



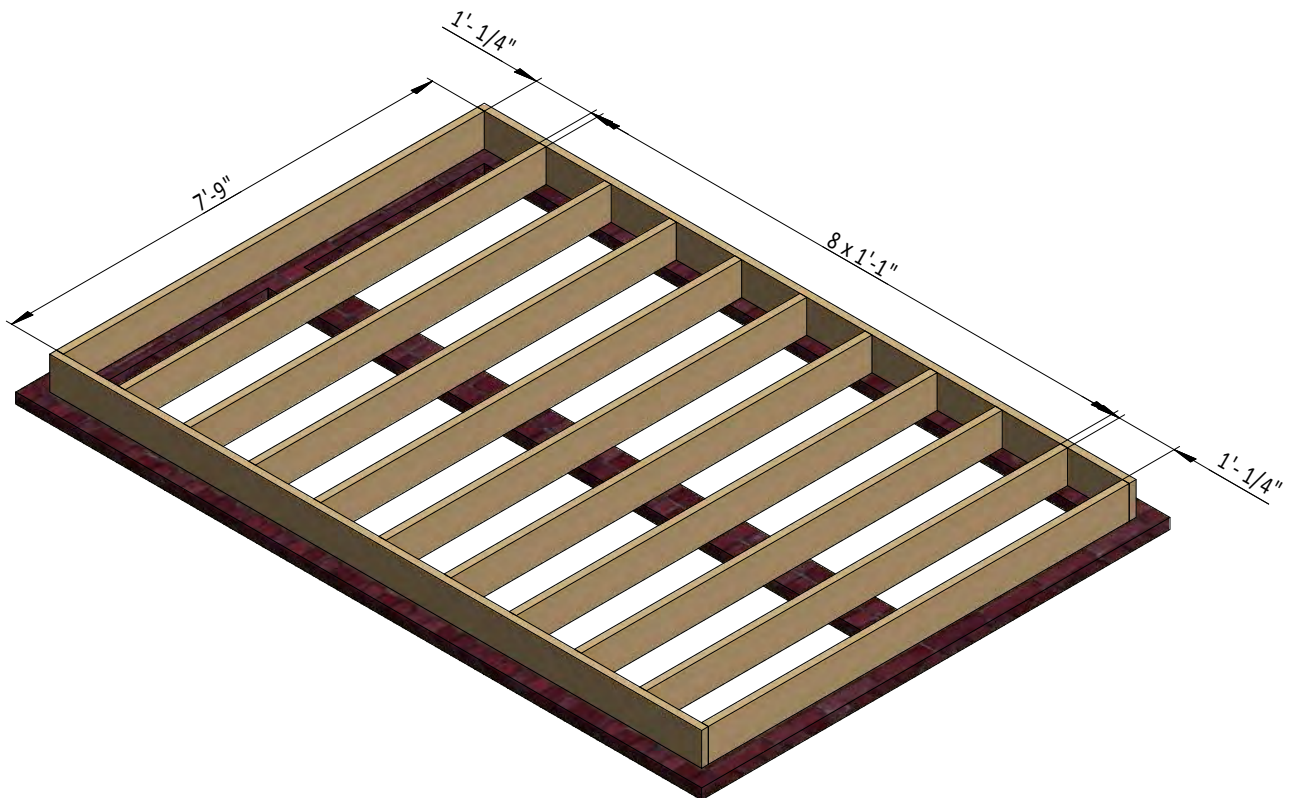
## STEP 2

### Framing the Floor

**2.1** Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need nine boards cut to 7'-9" for the floor joists.

**2.2** Secure the beams with 8x5" flat head Phillips wood screws.

**2.3** Using the square of your choice, check the corners to make sure they are 90°.



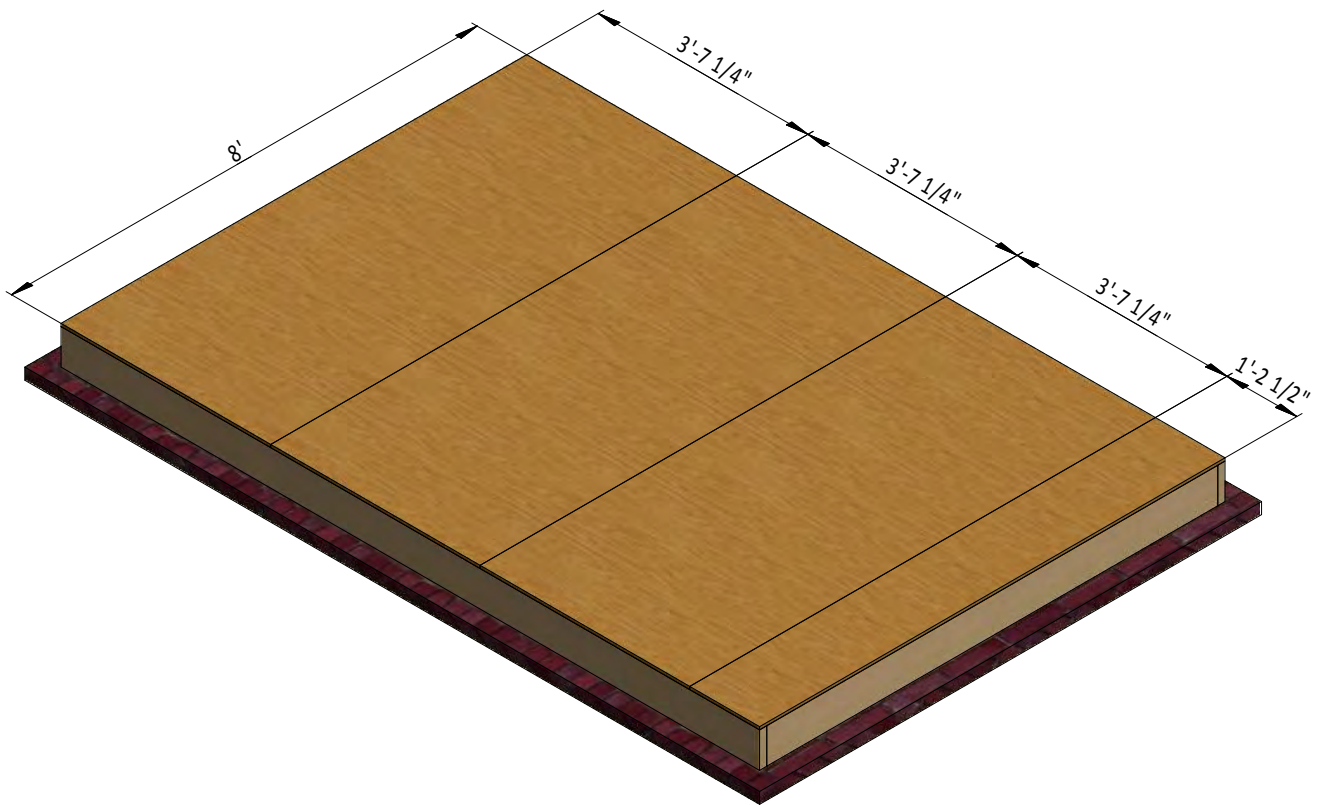


## STEP 3

### Install the Plywood Floor

**3.1** Cut the sheets for the floor using 9/16" plywood according to the drawing. You will need three 3'-7 1/4" x 8' sheets and one 1'-2 1/2" x 8' sheet.

**3.2** Attach the plywood to the joists with 2" Phillips flat head wood screws.



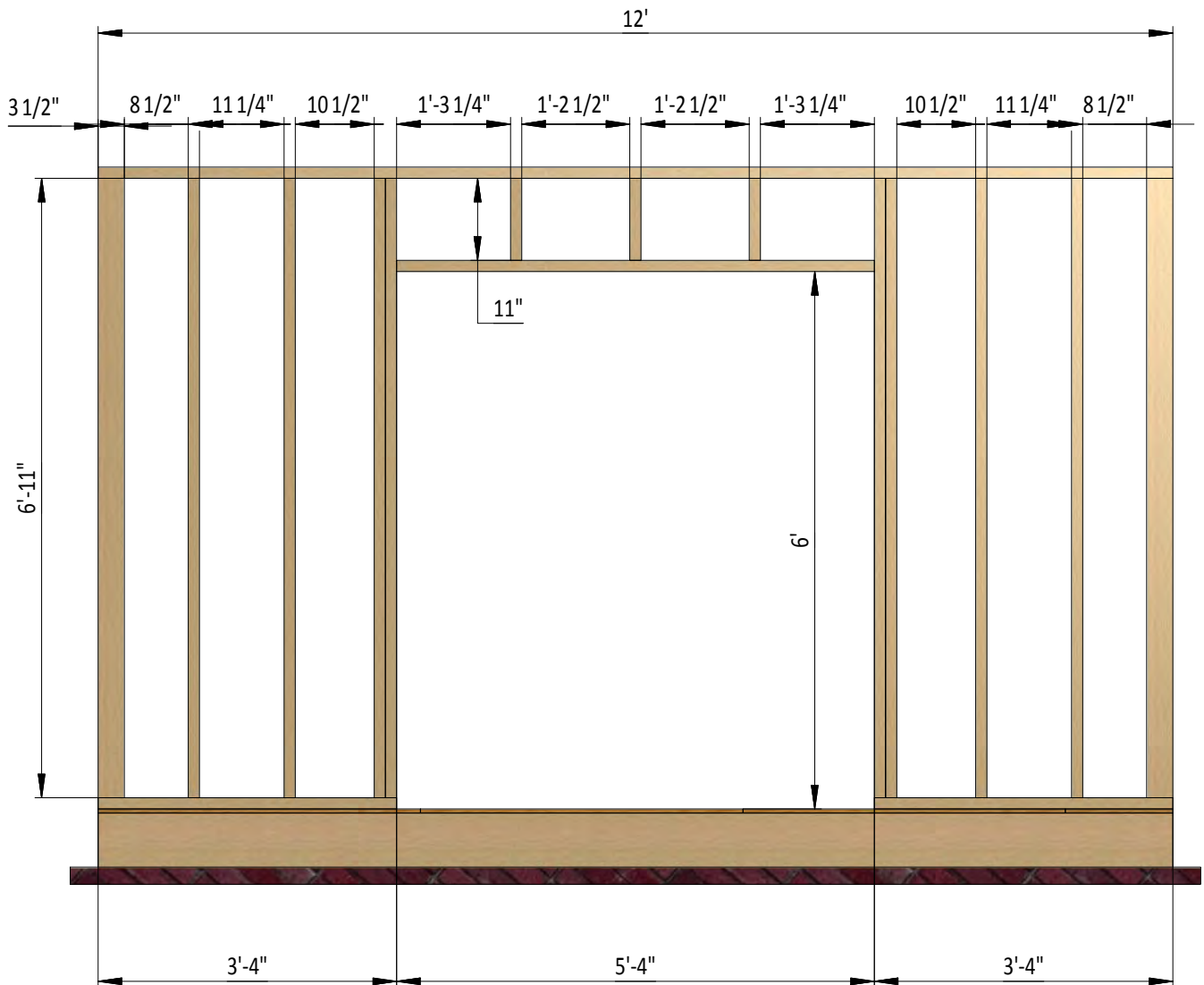
## STEP 4

### Assemble Front Wall Frame

**4.1** 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 three boards cut to 11" that will be the cripple studs, one board cut to 5'-4" that will be the door header, ten boards cut to 6'-11" that will be the studs, two boards cut to 3'-4" that will be the bottom plates and one board cut to 12' that will be the top plate.

**4.2** Connect the beams with 2x4" wood screws.

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





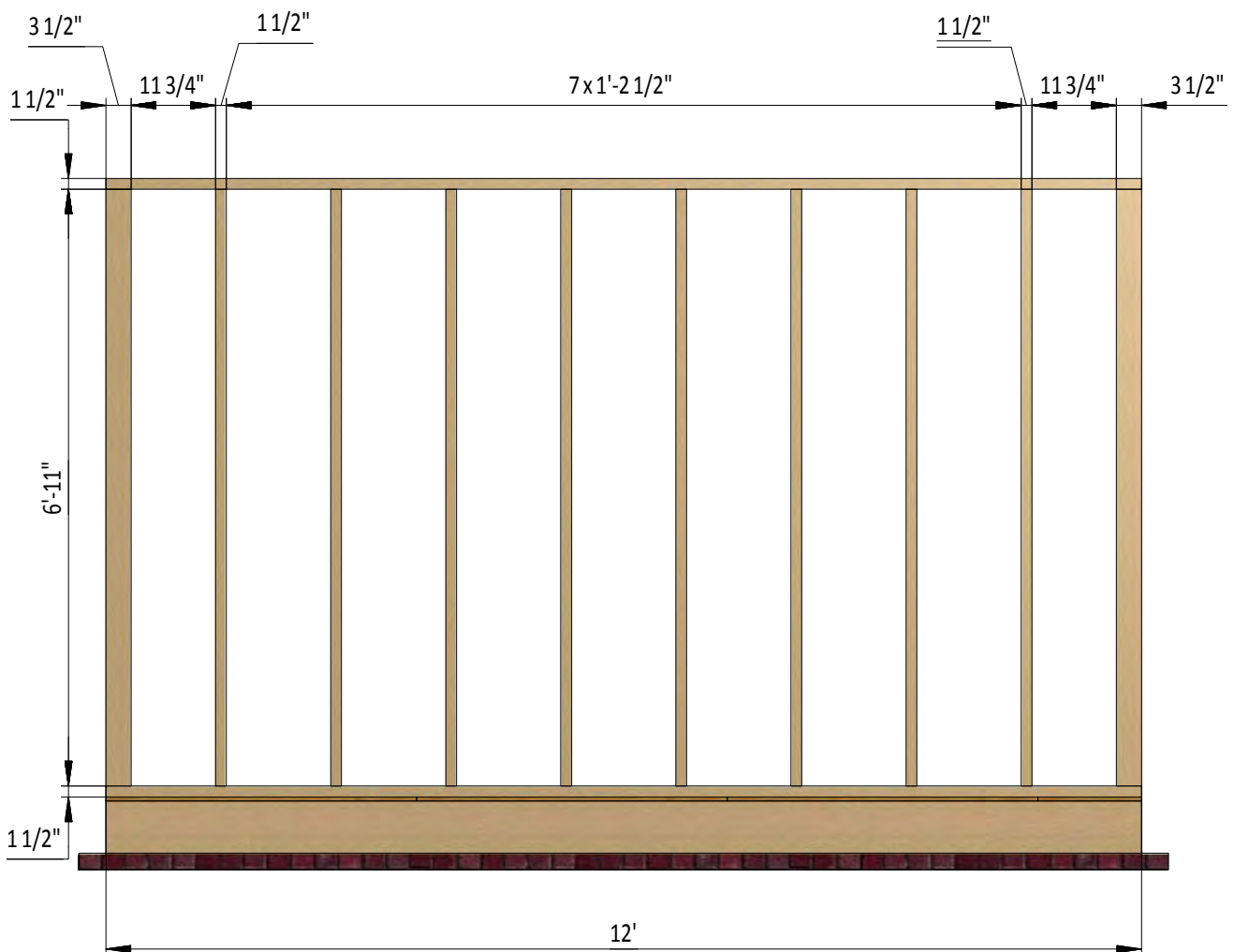
## STEP 5

### Assemble Back Wall Frame

**5.1** Build the back wall frame using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" treated lumber, using the drawing below as a reference. You will need ten boards cut to 6'-11" for the studs and two boards cut to 12' for the top and bottom plates.

**5.2** Connect the beams with 2x4" flat head Phillips wood screws.

**5.3** Be sure that the corners are 90°.



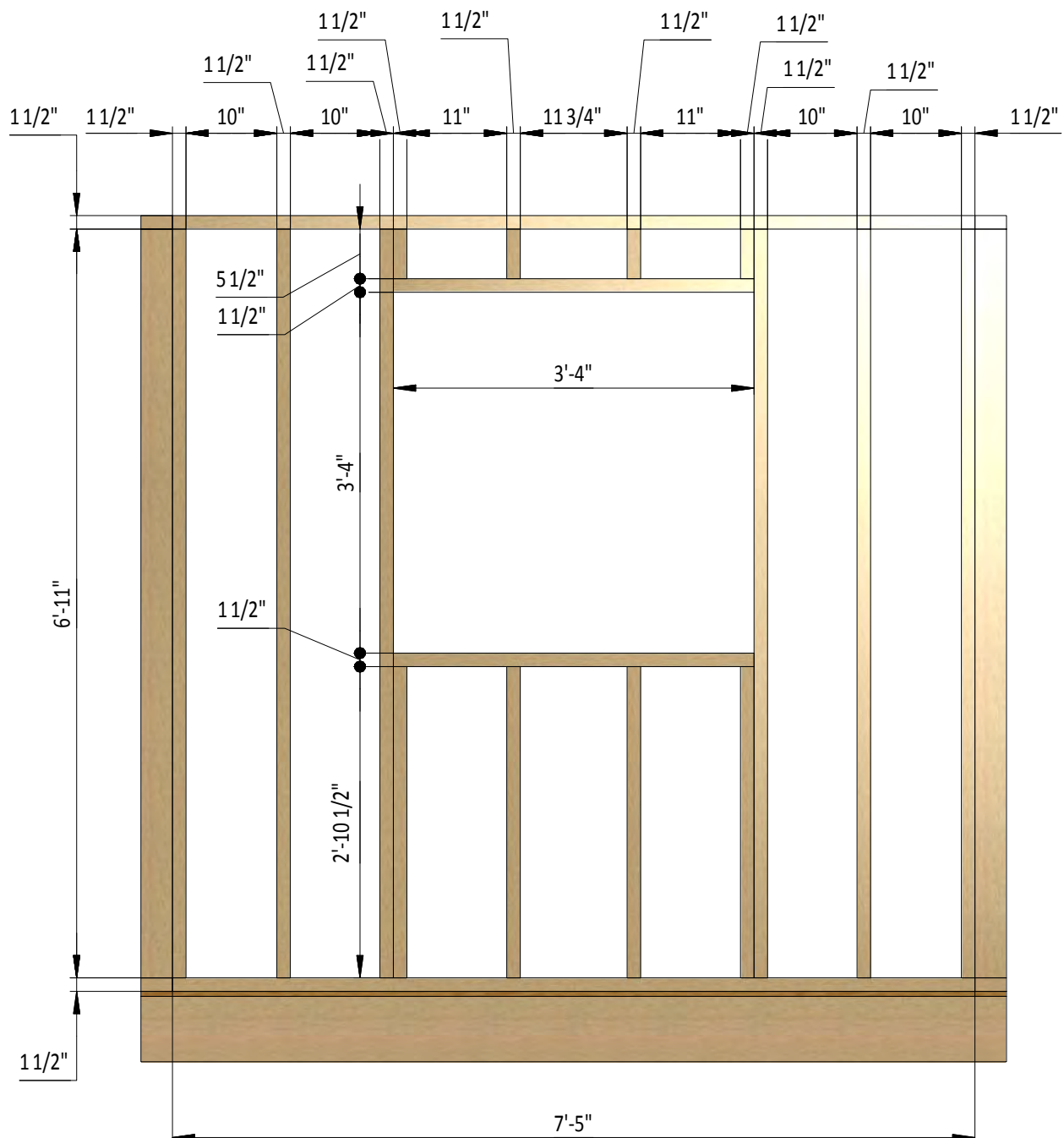
## STEP 6

## Assemble Left and Right Wall Frames

**6.1** Construct the side wall frames using the drawing below as a reference and using 1 1/2" x 3 1/2" pressure-treated lumber. You will need four boards cut to 5 1/2" to use as the cripple studs, four boards cut to 2'-10 1/2" that will be the wall studs, two boards cut to 3'-4" for the window header and rough sill, six boards cut to 6'-11" to use as the studs and two boards cut to 7'-5" that will be the top and bottom plates.

**6.2** Join the beams with 2x4" flat head Phillips wood screws.

**6.3** Check the corners to make sure that each one is  $90^\circ$ .



## STEP 7

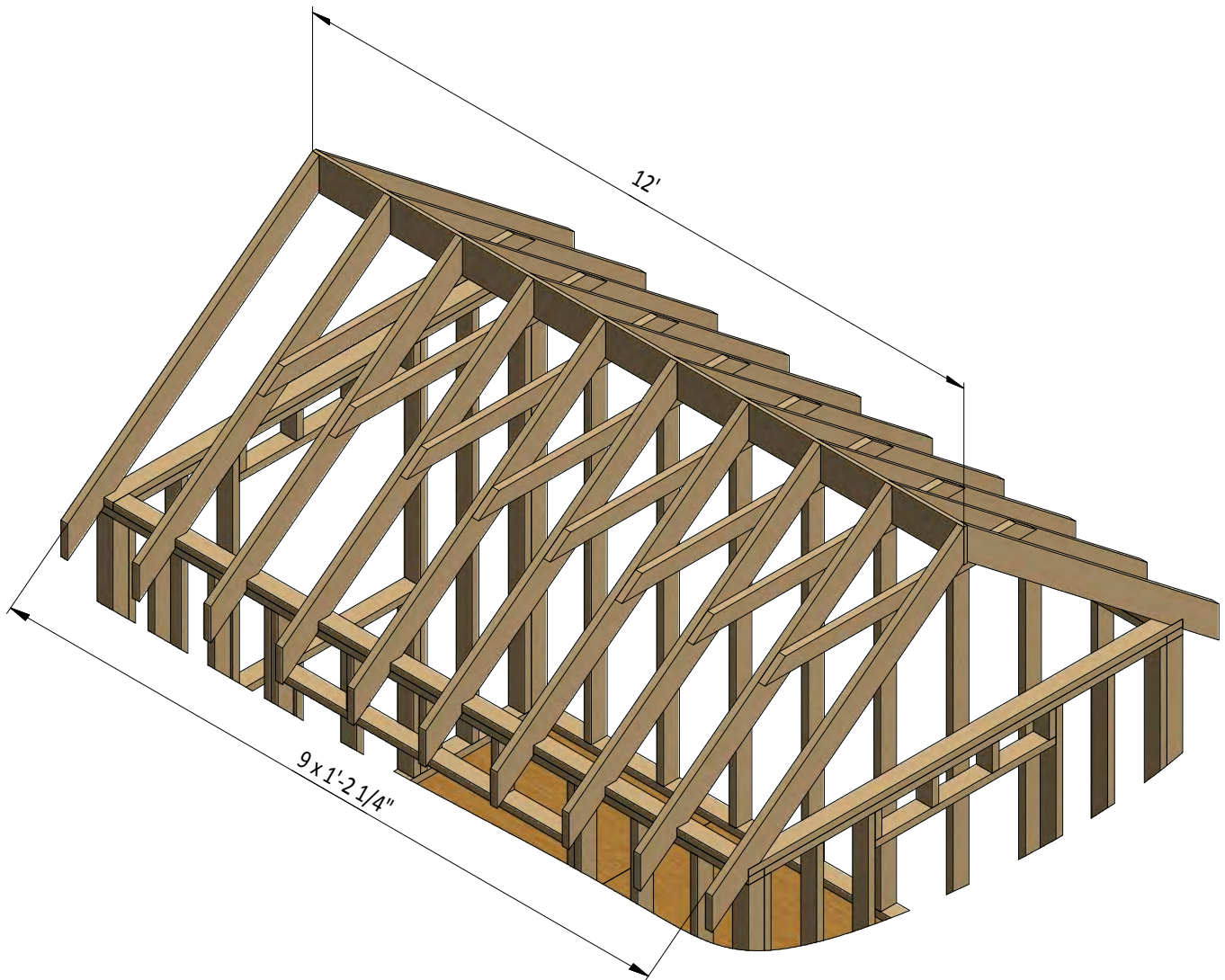
### Assemble the Roof Frame

**7.1** Cut twenty rafters 5'-10 1/4" long using 1 1/2 " x 5 1/2 " treated lumber, according to the dimensions.

**7.2** Use 1 1/2 " x 3 1/2 " treated lumber to cut eight collar ties 5'-11 3/4" long according to the dimensions.

**7.3** Cut the ridge board 12' long using 3/4 " x 7 1/4 " pressure-treated board, according to the illustration below.

**7.4** Attach the beams to each other with 2x3" Phillips flat head wood screws.



## STEP 8

### Assemble and Install Shed Doors

**8.1** 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" for the vertical girts and two boards cut to 2'-3/4" for the horizontal girts.

**8.2** Cut two doors out of the 9/16" plywood sheet to 2'-7 3/4" x 5'-11 3/4" by using the layout shown below.

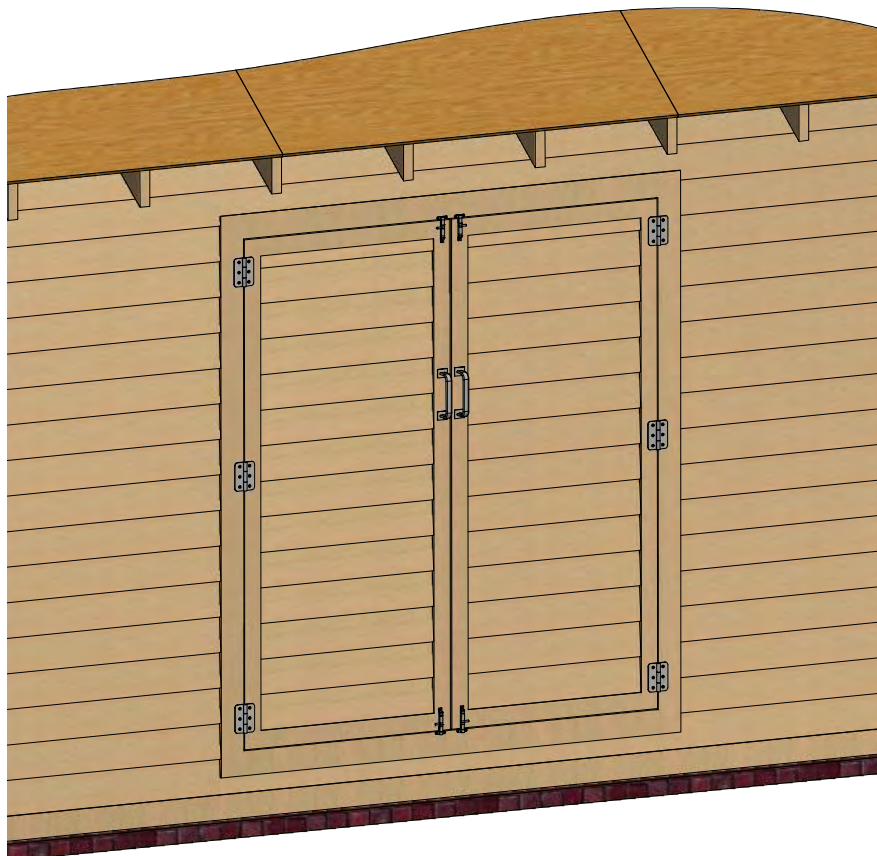
**8.3** Use 2 1/2 " x 3/4 " treated lumber for the door trim and fasten with 2" Phillips flat head wood screws. You will need two boards cut to 2'-2 3/4" and two boards cut to 5'-11 3/4".

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

**8.5** Use 1/2 " x 6" wood siding boards for the exterior siding on the doors, and the illustration below as a tool.

**8.6** Assemble siding shields with 2" galvanized nails.

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



## STEP 9

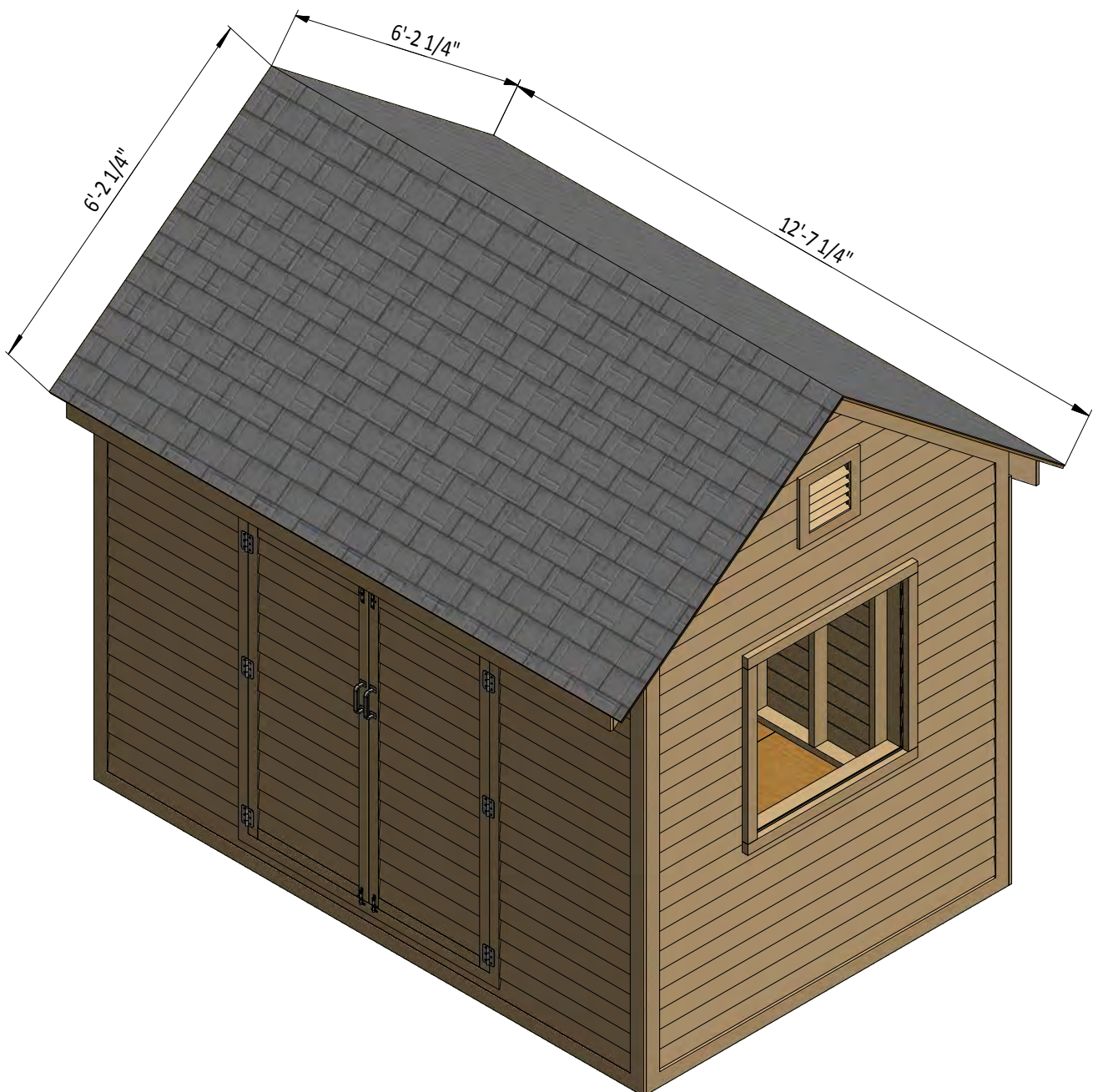
### Roof Sheathing Installation

**9.1** This garden shed requires 160 square feet of asphalt shingle roofing.

**9.2** Add the metal drip edge to the fascias.

**9.3** Cover the plywood sheathing with roofing felt or building paper.

**9.4** Install asphalt shingle roofing using an industrial stapler or hammer and roofing nails.





## STEP 10

# Window Installation for Left and Right Walls

This garden shed has two windows.

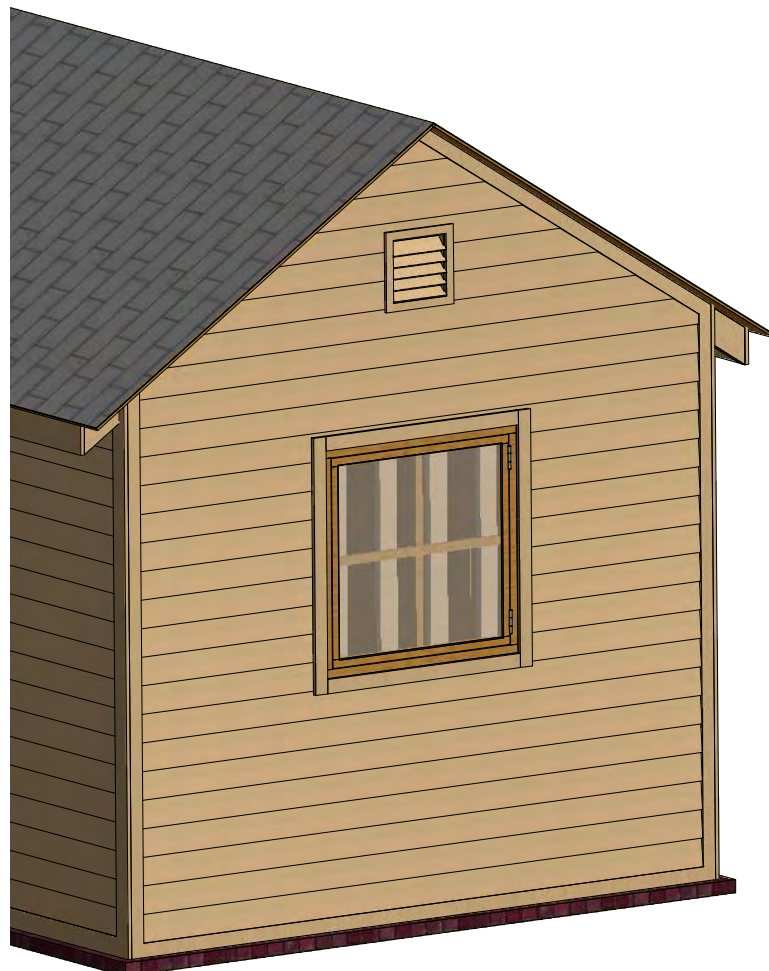
**10.1** Using 1 1/2 " x 2 1/2 " treated lumber, make the outer frame for the window as shown below. You will need two boards cut to 3'-1" for the vertical girts and two boards cut to 3'-4" for the horizontal girts. Additionally, add vertical 2'-11 1/2" long and horizontal 3'-1" long supports using 3/4" x 1" lumber and carve out the recesses for the window hinges.

**10.2** Use 1 1/2 " x 1 1/2 " treated wood to make the inner frame and secure with 3" flat head wood screws. You will need two boards cut to 2'-9 3/4" for the vertical girts and two boards cut to 3'-3/4" for the horizontal girts. Mill a recess for the glass panes and for the hinges.

**10.3** Use 1 1/4 " x 1 1/2 " treated wood to make the inner frame supports and secure with 3" flat head wood screws. You will need two boards cut to 2'-9 3/4" and a recess milled for interconnection.

**10.4** Install glass into the inner frame groove and fasten it with window beading on all sides. Secure with 1/2" brads.

**10.5** Install two hinges (3") with 6x1" wood screws and assemble the window. Install a lock on the inner side of the window.





## STEP 11

# Assemble and Install Window Shutters

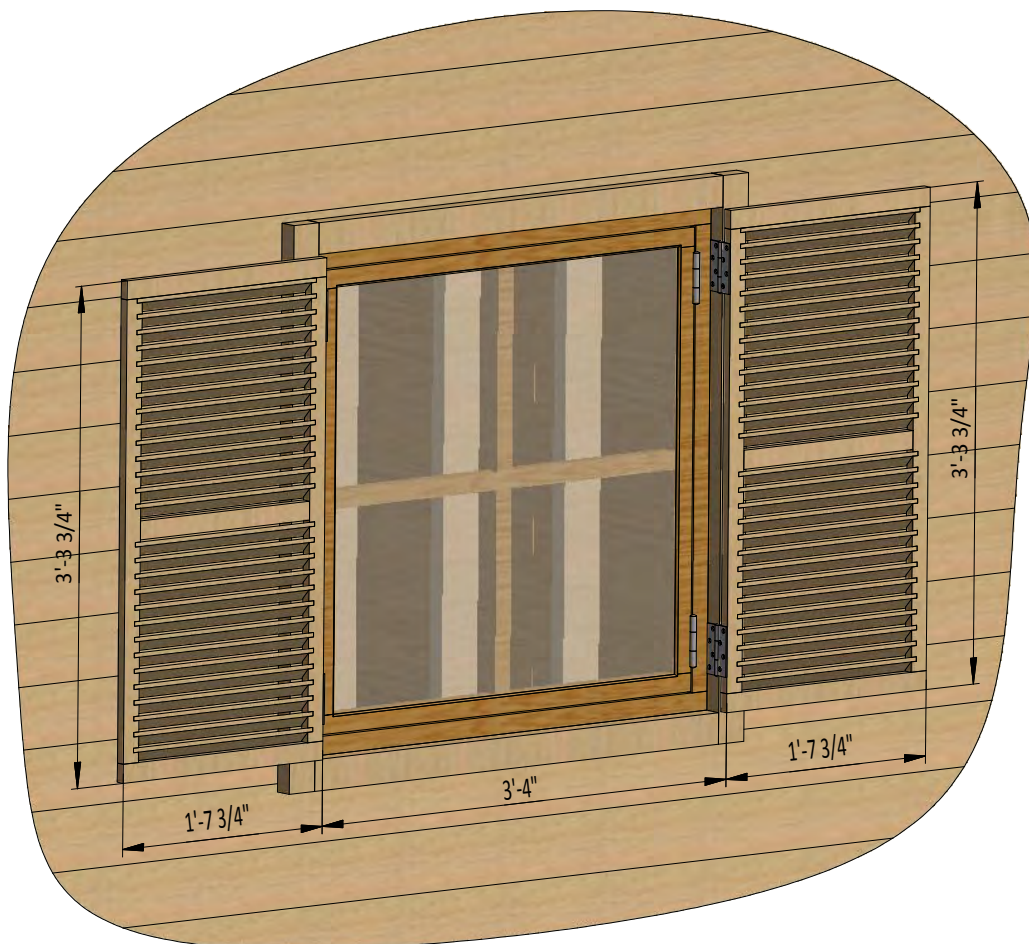
This plan requires four window shutters.

**11.1** Make the shutter frames using  $\frac{3}{4}$ " x  $1\frac{1}{2}$ " treated lumber and attach with 3" wood screws. You will need one board cut to  $1'-4\frac{3}{4}"$ , two boards cut to  $3'-3\frac{3}{4}"$  for the vertical girts and two boards cut to  $1'-7\frac{3}{4}"$  for the horizontal girts.

**11.2** Mill a recess along the vertical girts for the slats, using Section L-L on page 34 as a reference.

**11.3** Use  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " treated lumber for the slats. You will need 22 boards cut to  $1'-5\frac{3}{4}"$ .

**11.4** Install two 3" door hinges using 6x1" flat head wood screws.



## STEP 12

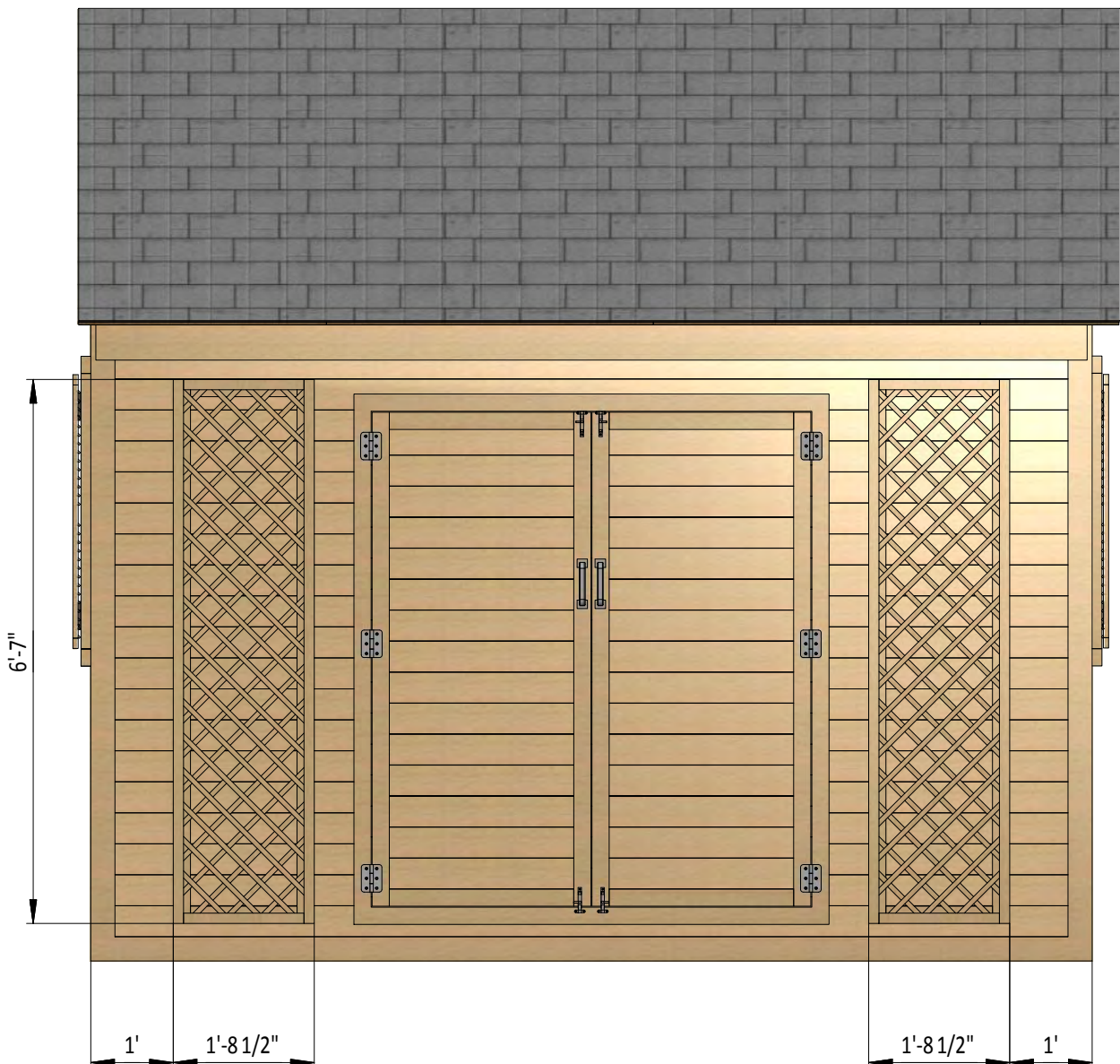
# Assemble and Install Pergolas

This shed requires two pergolas.

**12.1** Construct the front frame using 1 1/2 " x 1 1/2 " treated lumber and secure with 3" flat head wood screws. You will need two boards cut to 6'-7" as the vertical girts and two boards cut to 1'-5 1/2" to use as the horizontal girts.

**12.2** Assemble the back frame using 3/4" x 2 1/2 " treated lumber and secure with 5" wood screws. You will need two boards cut to 6'-7" to use for the vertical girts and two boards cut to 1'-3 1/2" for the horizontal girts.

**12.3** Use 3/4 " x 3/4 " treated lumber for the lattice. You will need 36 boards cut to 6'-7". Assemble according to the drawing.



## STEP 13

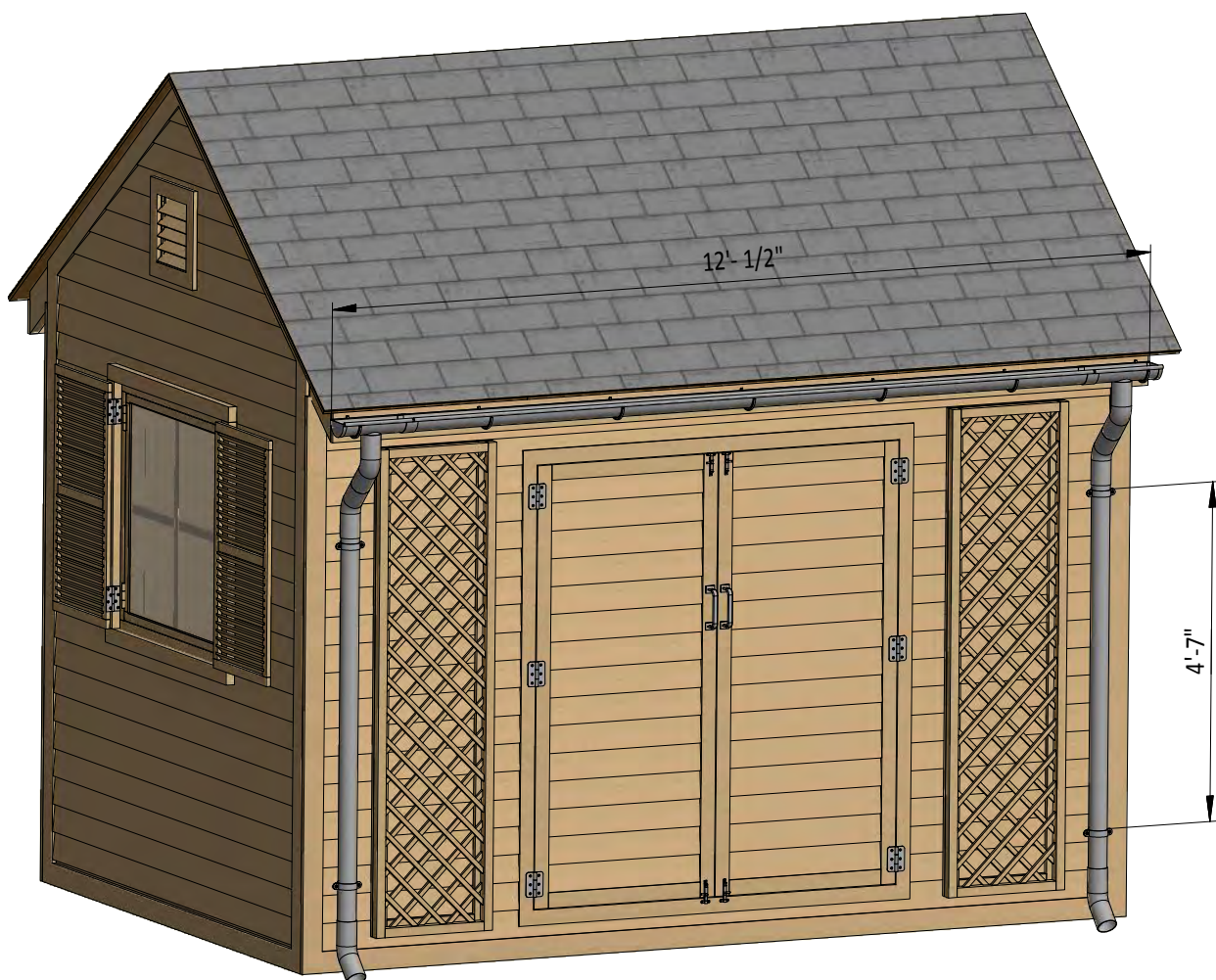
### Assemble and Install Roof Drainage System

**13.1** Put together the roof drainage system on the front fascia board.

You will need 5" half round gutter 10' long, two end pieces with the outlet, six 45° elbows, two 3" pipes 6' long, two joint connectors and two end caps.

**13.2** Fasten the round gutter to the fascia with the seven round hangers.

**13.3** Fasten the vertical pipe sections with the four wall fasteners by spacing them out evenly.





## STEP 14

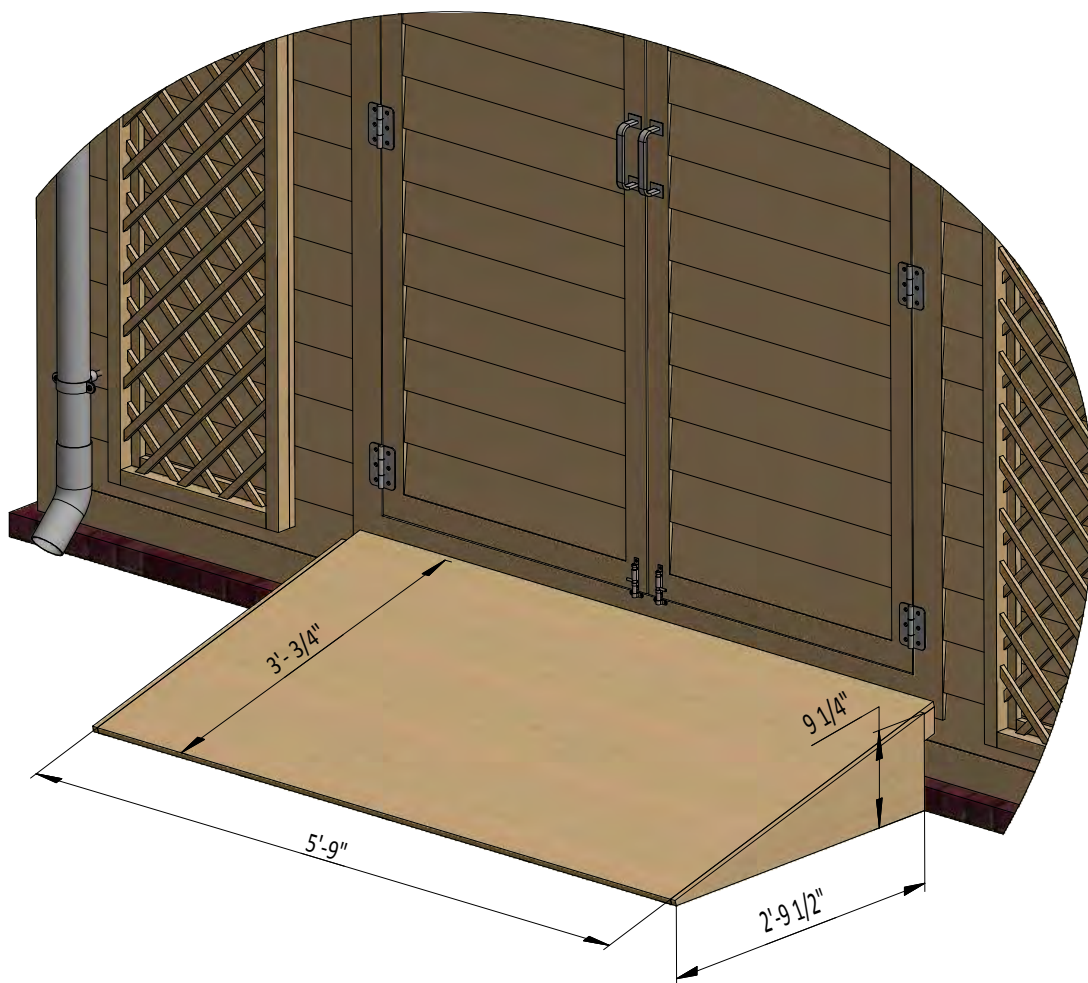
### Assemble and Install Door Ramp

**14.1** Assemble five door ramp frames from pressure-treated lumber and secure with 3" and 5" wood screws. 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".

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

**14.3** 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.

**14.4** Assemble siding shields with 2" galvanized nails.



## STEP 15

### Shed Decoration

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



# 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	15	29
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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