ShedPlans®
.org

10'x20' Garden 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	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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10'x20' Garden Shed Material List

Site Preparation

- Concrete
- Bricks

Bottom Frame

- Pressure-Treated Lumber
- Plywood

Walls 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 Window Shutter

- Pressure-Treated Lumber

Shed's Pergola

- Pressure-Treated Lumber

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

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

Door Ramp

- Pressure-Treated Lumber
- Plywood

STEP 1

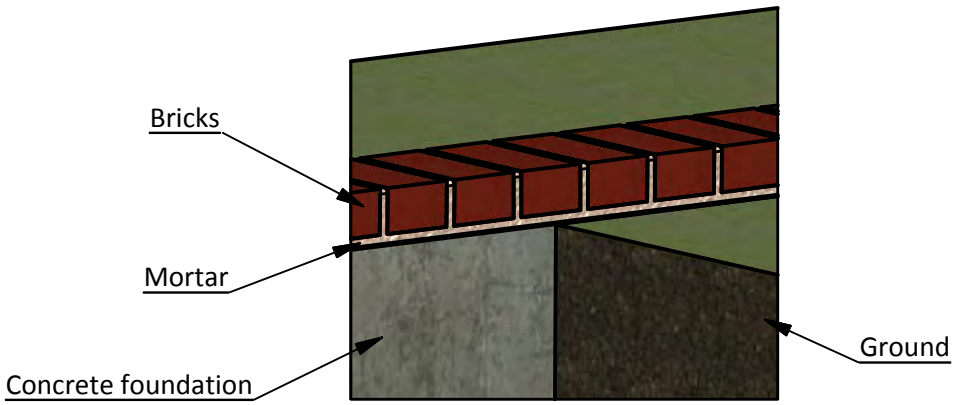
Foundation Preparation

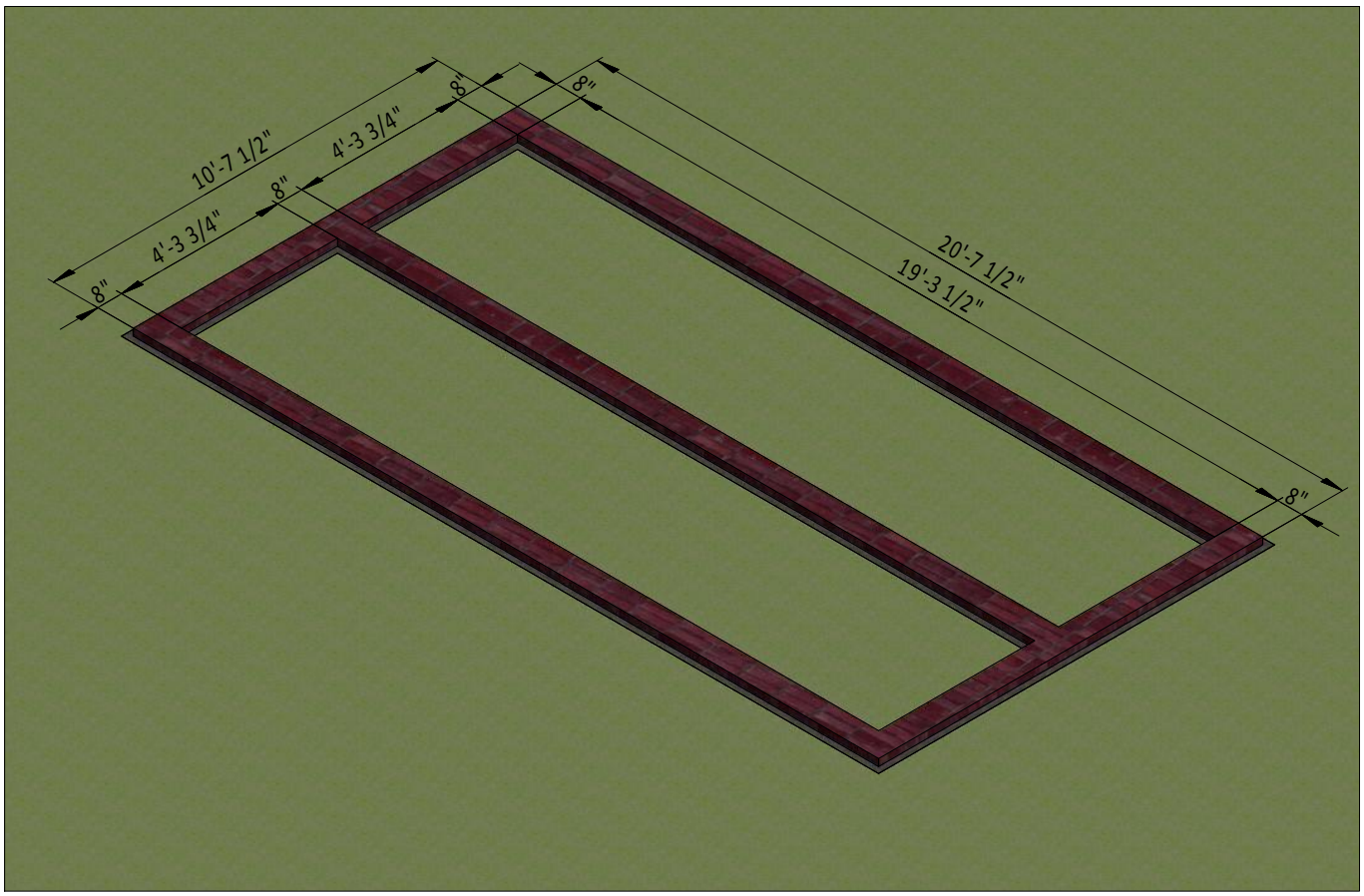
1.1 Clear the area where you want to build the shed and layout for the foundation. Use the below illustration as a guide.

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 250 bricks for this step.





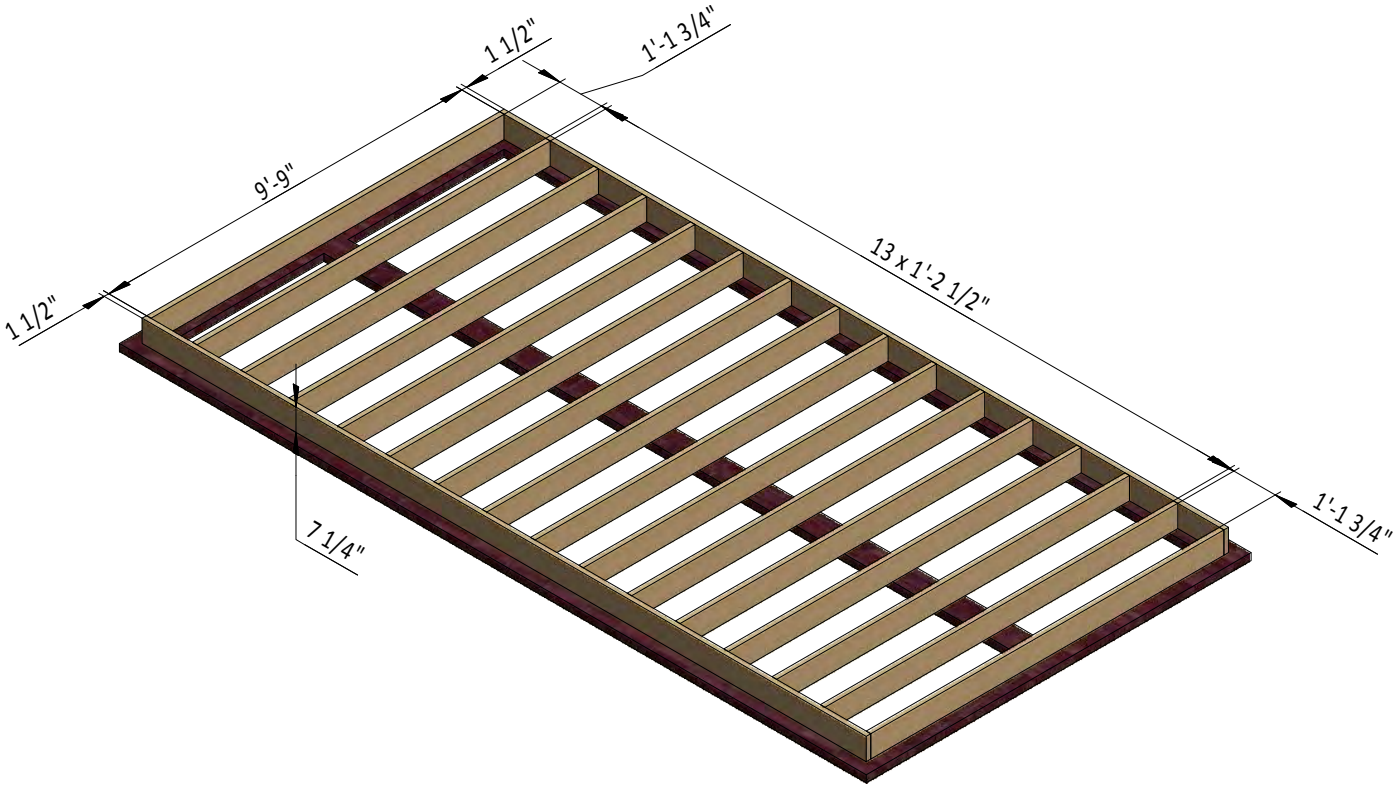
STEP 2

Framing the Floor

2.1 Make the frame using 1 1/2” x 7 1/4” pressure-treated lumber. You will need fourteen boards cut to 9'-9” for the floor joists.

2.2 Use 8x5" Phillips flat head wood screws to attach the beams together.

2.3 Measure the corners to make sure they are 90° for the garden shed.

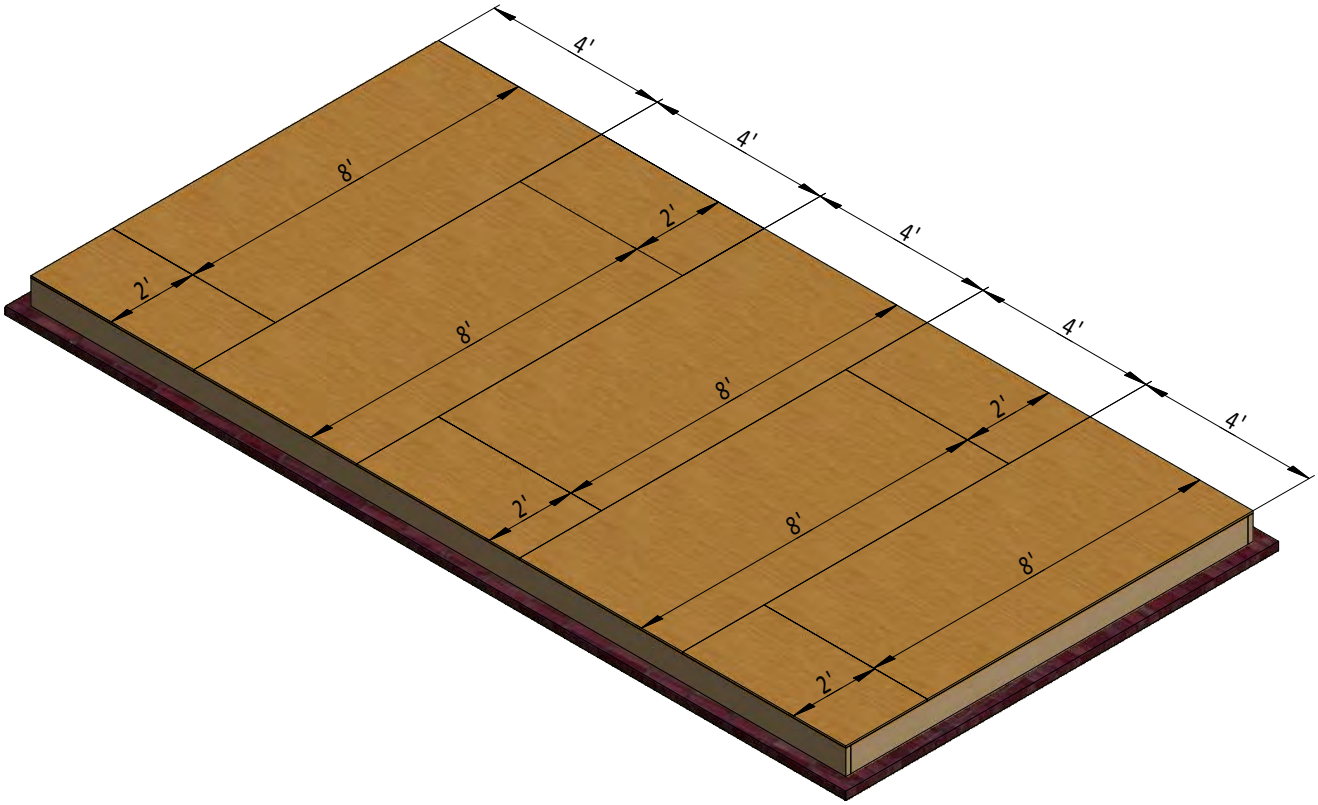


STEP 3

Install the Plywood Floor

3.1 Cut the 9/16" plywood to make the floor using the layout prescribed in the drawing. You will need five 4' x 8' sheets and five 4' x 2' sheets.

3.2 Attach the plywood with 2" flat head Phillips wood decking screws.



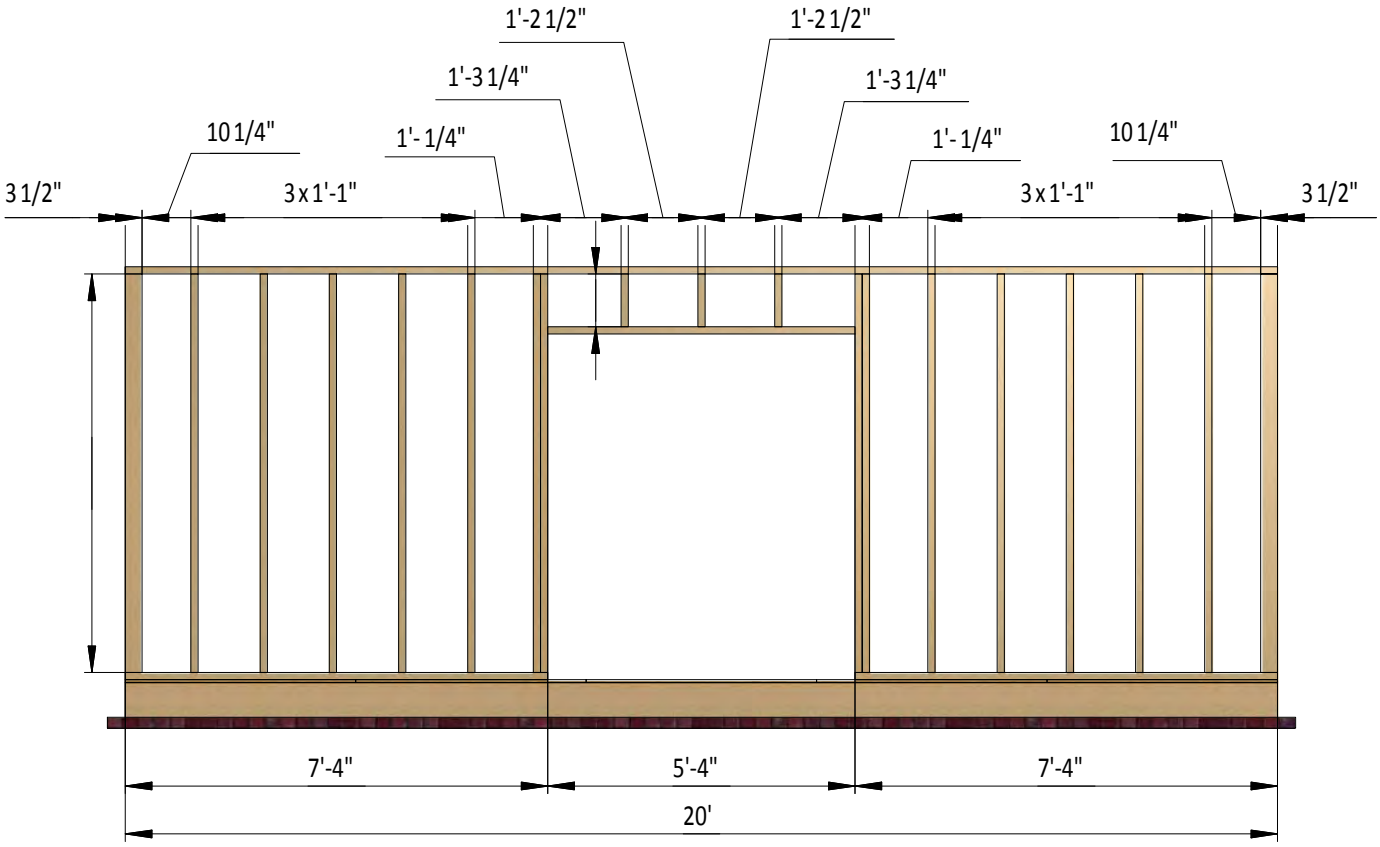
STEP 4

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 the front wall frame using the drawing below. You will need three boards cut to 11" for the cripple studs; one board cut to 5'-4" to use as the door header; 16 boards cut to 6'-11" for the wall studs; two boards cut to 7'-4" for the bottom plates; and one board cut to 20' that will be the top plate for this garden shed.

4.2 Connect all the beams with 2x4" flat head Phillips wood screws.

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



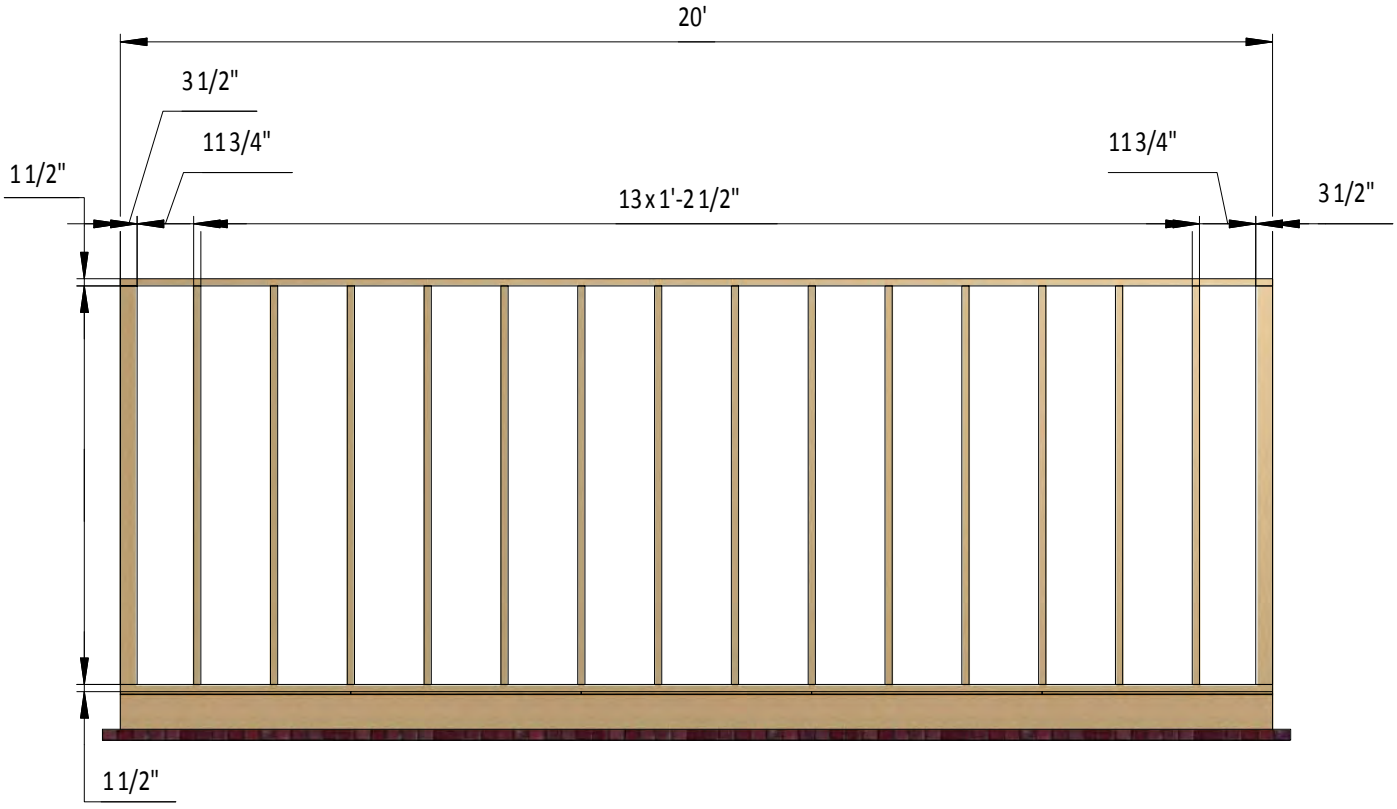
STEP 5

Assemble Back Wall Frame

5.1 Using 1 1/2“ x 3 1/2“ and 3 1/2“ x 3 1/2“ treated lumber, construct the back wall frame using the drawing below to guide you. You will need 16 boards cut to 6'-11" for the wall studs and two boards cut to 20' that will be the top and bottom plates.

5.2 Join the beams for the garden shed with 2x4" wood screws.

5.3 Using a square, check the corners to make sure they are 90°.



STEP 6

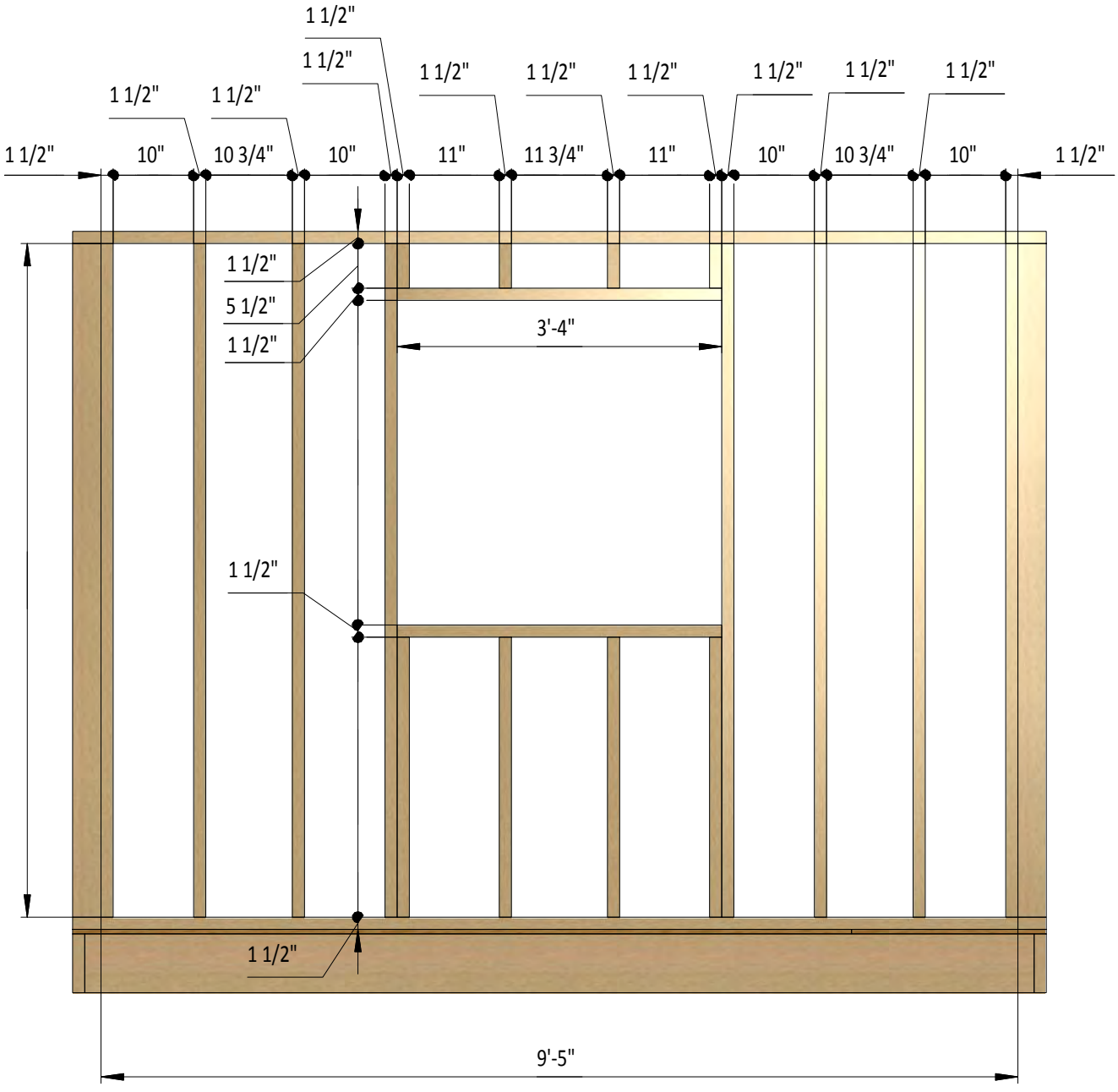
Assemble Left and Right Wall Frames

6.1 Using 1 1/2“ x 3 1/2“ treated lumber, make the side wall frames using the drawing below as a visual tool.

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 studs, two boards cut to 3'-4" that will be the window header and rough sill; eight boards cut to 6'-11" that will be the wall studs; and two boards cut to 9'-5" that will be the top and bottom plates.

6.2 Assemble the parts with 2x4" Phillips flat head wood screws.

6.3 Verify that the corners are 90°.



STEP 7

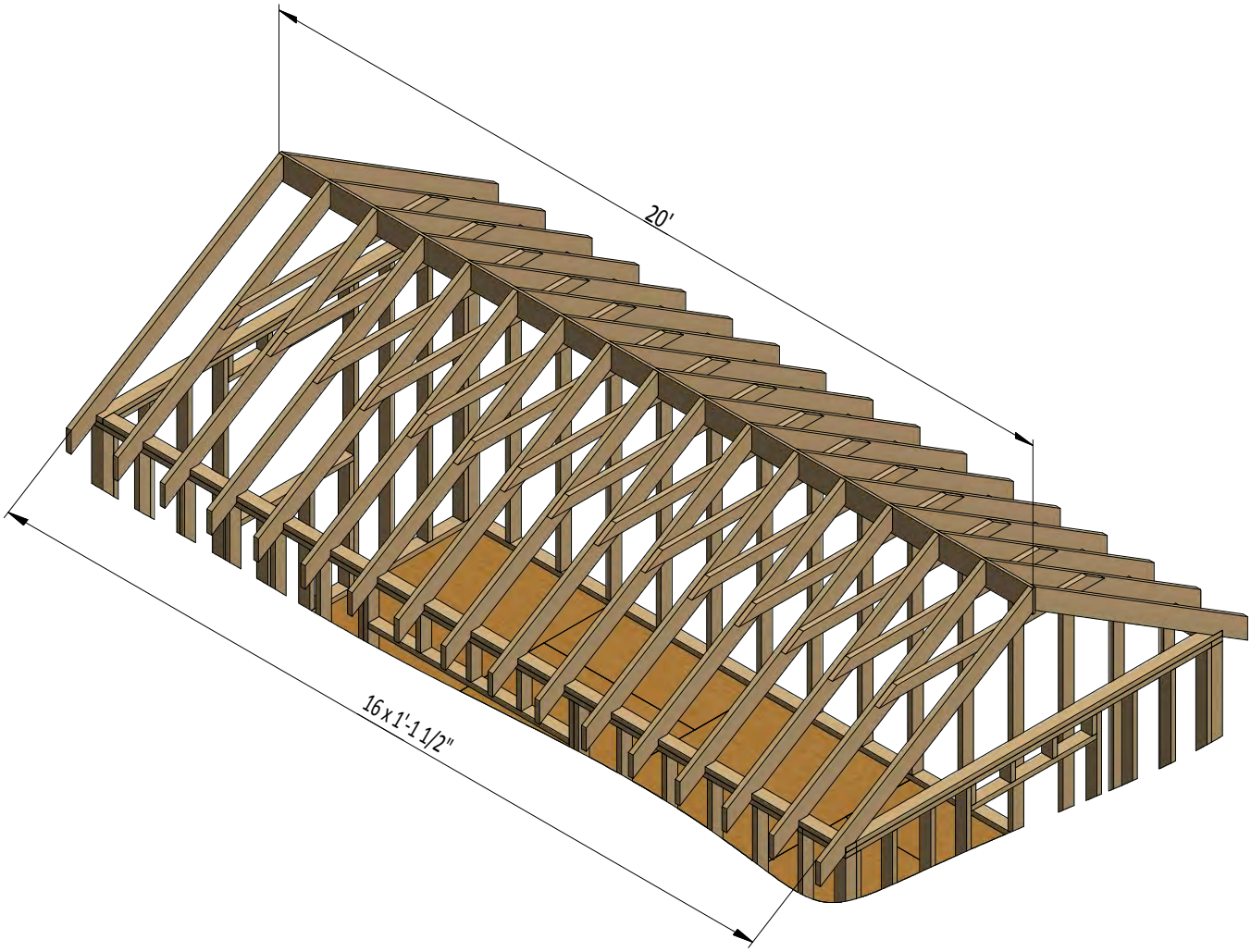
Assemble the Roof Frame

7.1 Using 1 1/2 “ x 5 1/2 “ pressure-treated lumber, cut 34 pieces to 6'-11" long that will form the rafters according to the dimensions.

7.2 Using 1 1/2 “ x 3 1/2 “ pressure-treated lumber, cut fifteen collar ties 5'-11 3/4" long according to the dimensions.

7.3 Using a 3/4 “ x 7 1/4 “ treated lumber, cut the ridge board to 20' long according to the illustration below.

7.4 Connect the beams with 2x3" Phillips 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 " treated lumber and secure with 5" flat head Phillips wood screws. You will need two boards cut to 5'-11 3/4" that will be the vertical grits and two boards cut to 2'-3/4" that will be the horizontal girts.

8.2 Cut the 9/16" plywood sheet into two pieces measuring 2'-7 3/4" x 5'-11 3/4" for the doors according to the drawing.

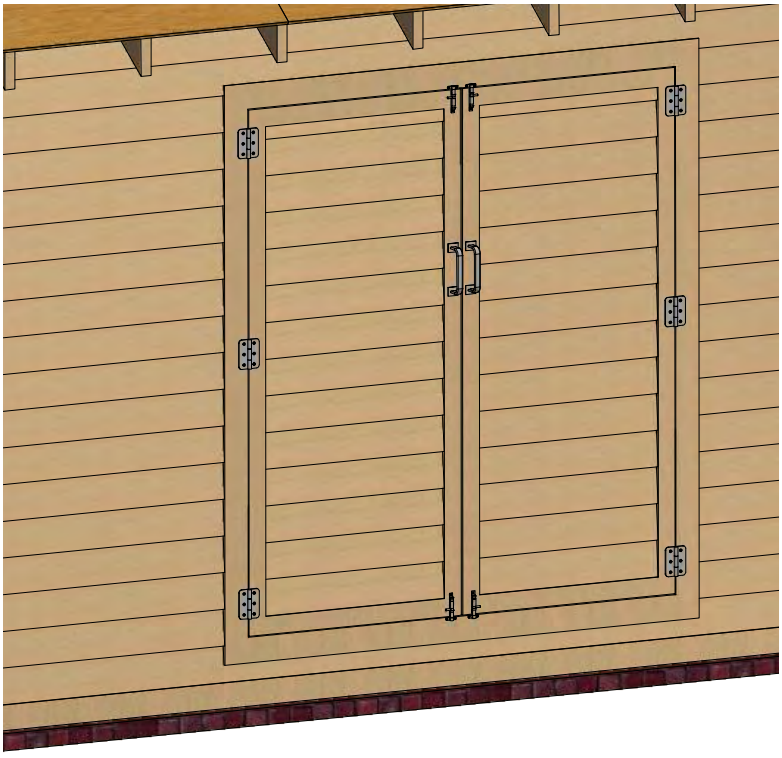
8.3 Use 2 1/2 " x 3/4 " treated lumber for the door trim and fasten with 2" Phillips flat head wood screws. You will need two pieces cut to 2'-2 3/4" and two cut to 5'-11 3/4".

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

8.5 Use 1/2 " x 6" wood siding boards to cover the door and the illustration on this page as a reference.

8.6 Assemble siding shields with 2" galvanized nails.

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



STEP 9

Window Installation for Left and Right Walls

This garden shed uses 2 windows built onsite.

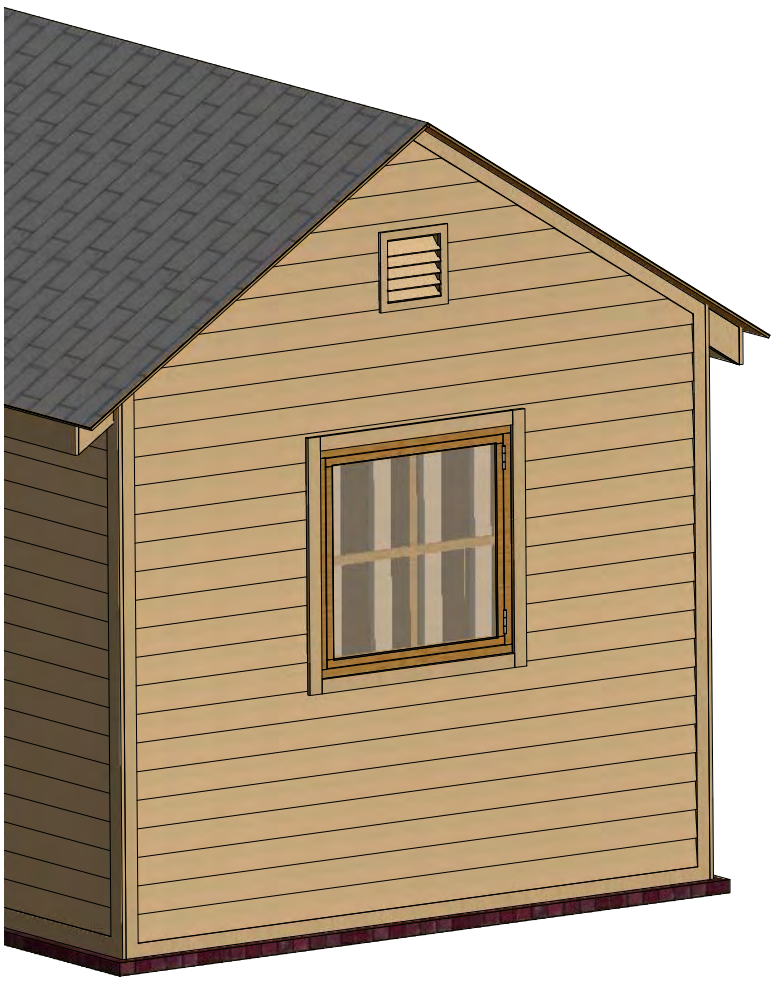
9.1 Using 1 1/2 " x 2 1/2 " pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need two boards cut to 3'-1" for the vertical girts and two boards cut to 3'-4" for be horizontal girts. You will also need vertical 2'-11 1/2" long and horizontal 3'-1" long supports using 3/4" x 1" lumber and to cut the indentations for the window hinges.

9.2 Use 1 1/2 " x 1 1/2 " pressure-treated material to make the inner frame and secure with 3" wood screws. You will need two boards cut to 2'-9 3/4" that 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 .

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

9.4 Prepare and install glass into inner frame groove and fasten it with window beading from four sides. Use 1/2" galvanized nails.

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



STEP 10

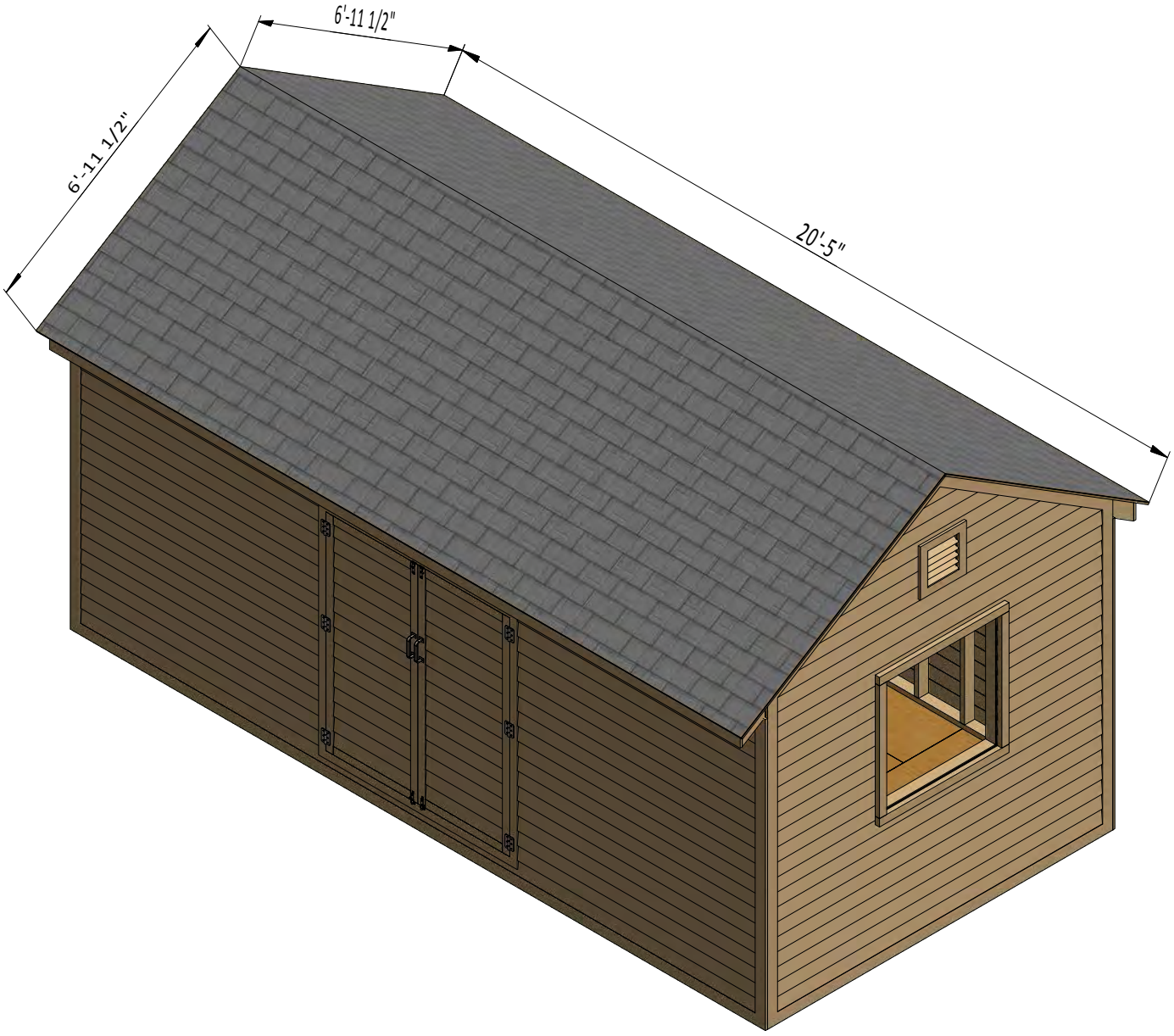
Roof Sheathing Installation

10.1 You will need 300 square feet of the asphalt shingle roofing of your choice.

10.2 Add the metal drip edge to the fascias.

10.3 Cover the plywood with roofing felt or building paper.

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



STEP 11

Assemble and Install Window Shutters

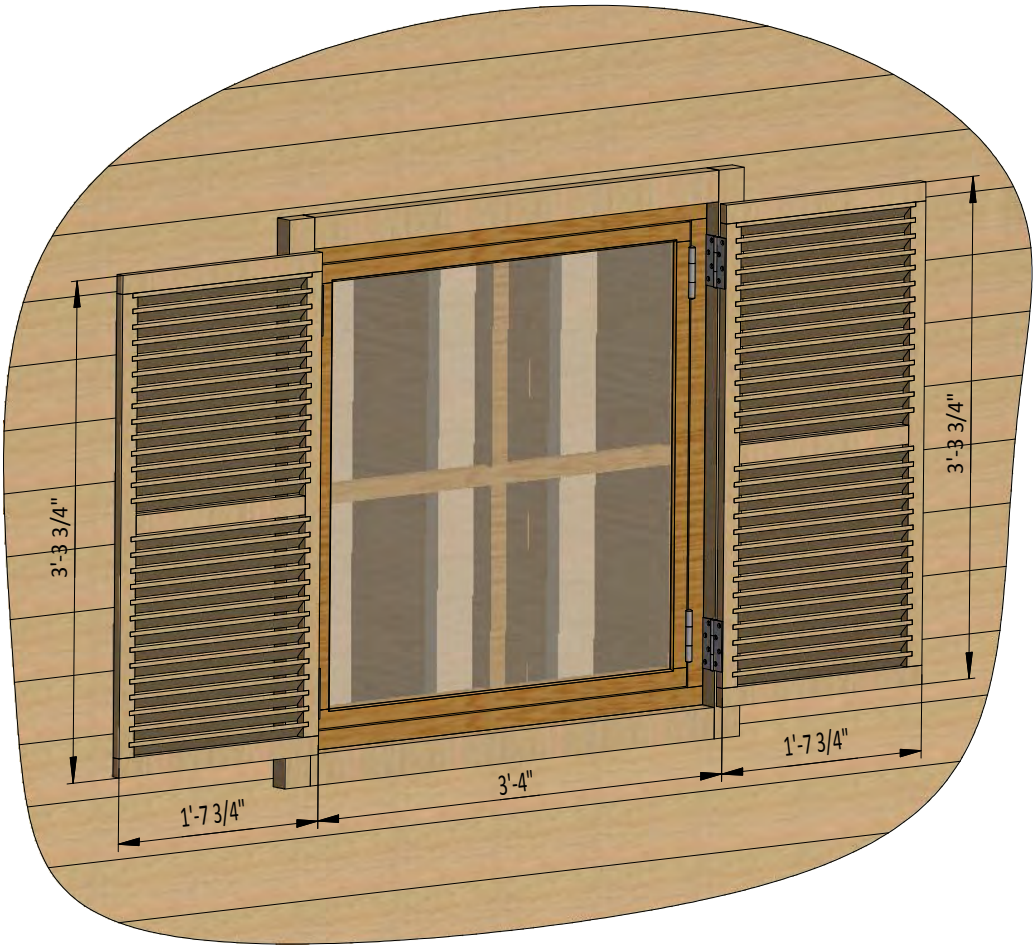
This plan requires four handmade window shutters.

11.1 Assemble frames using 3/4 “ x 1 1/2 “ treated lumber and secure with 3” flat head wood screws. You will need one board cut to 1'-4 3/4"; two boards cut to 3'-3/4" for the vertical girts and two boards cut to 1'-7 3/4" for the horizontal girts.

11.2 Mill a recess along the vertical girts for the slats.

11.3 Use 1/4 “ x 1 1/2 “ pressure-treated lumber for the 24 slats cut to 1'-5 3/4" The shutters add. architectural appeal to this garden shed.

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



STEP 12

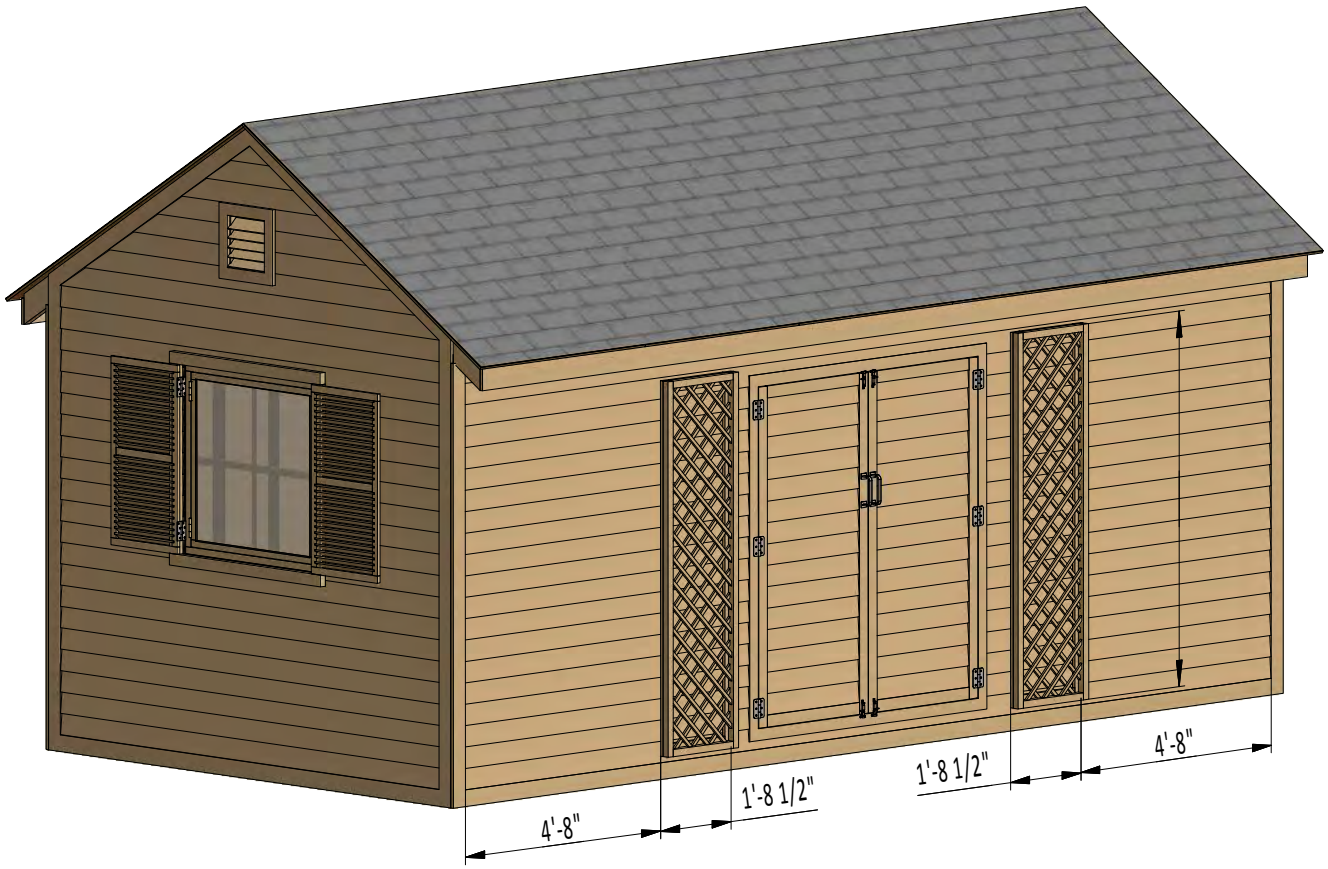
Assemble and Install Pergolas

This garden shed plan uses two pergolas to accent the front door.

12.1 Assemble 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" for the vertical girts and two boards cut to 1'-5 1/2" for the horizontal girts.

12.2 Assemble the back frame using 3/4“ x 2 1/2 “ treated lumber and secure with 5” Phillips wood screws. You will need two boards cut to 6'-7" 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 " pressure-treated lumber for the lattice. You will need thirty six boards cut to 2'-3/4".



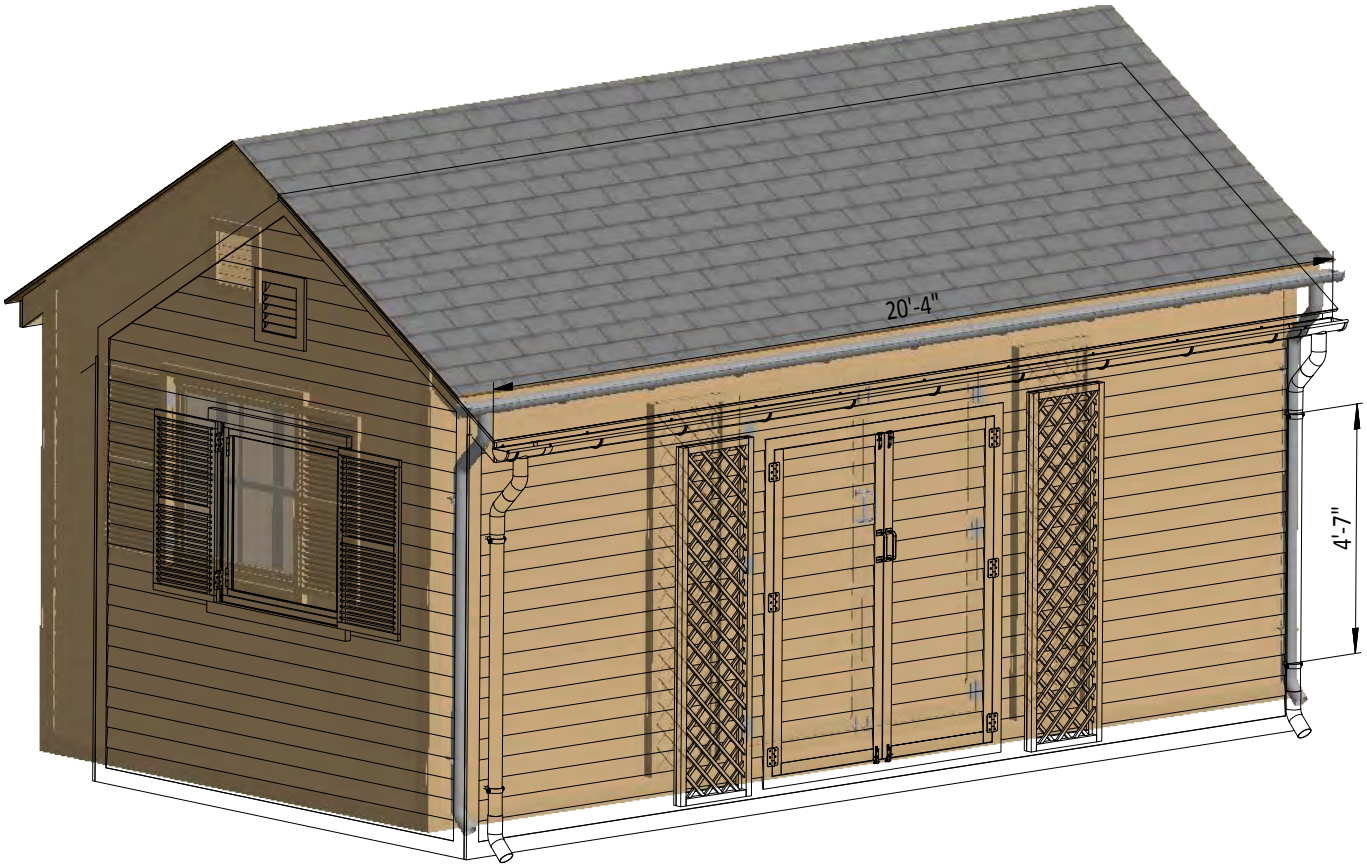
STEP 13

Assemble and Install Roof Drainage System

13.1 Assemble the roof's gutters on the front fascia board.
You will need 5" half round gutters 18'-3" 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 eleven round hangers.

13.3 Fasten the vertical pipe section with the four wall fasteners to the shed wall at even intervals.



STEP 14

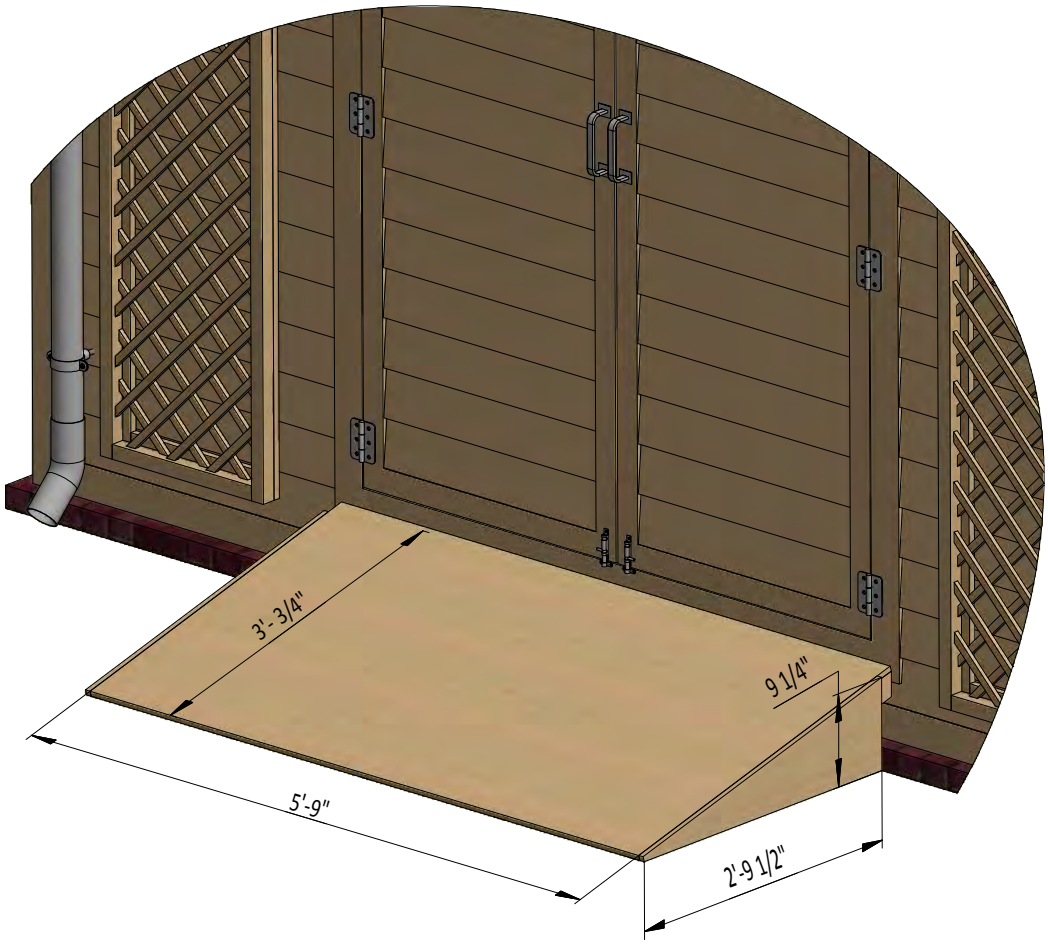
Assemble and Install Door Ramp

14.1 Assemble the five door ramp frames from treated lumber and secure with 3 x 5” Phillips 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 Secure all frames using one 1 1/2" x 2 1/2" board 5'-9" long and 3” flat head Phillip wood screws.

14.3 Cut the 9/16" plywood to 3'-3/4" x 5'-9" for the top and two sheets with to 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.

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