



12'x20' 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	12	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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12' x 20' Storage 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 Door

- Pressure-Treated Lumber
- Wood siding boards
- Plywood

Fasteners & Hardware

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

Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

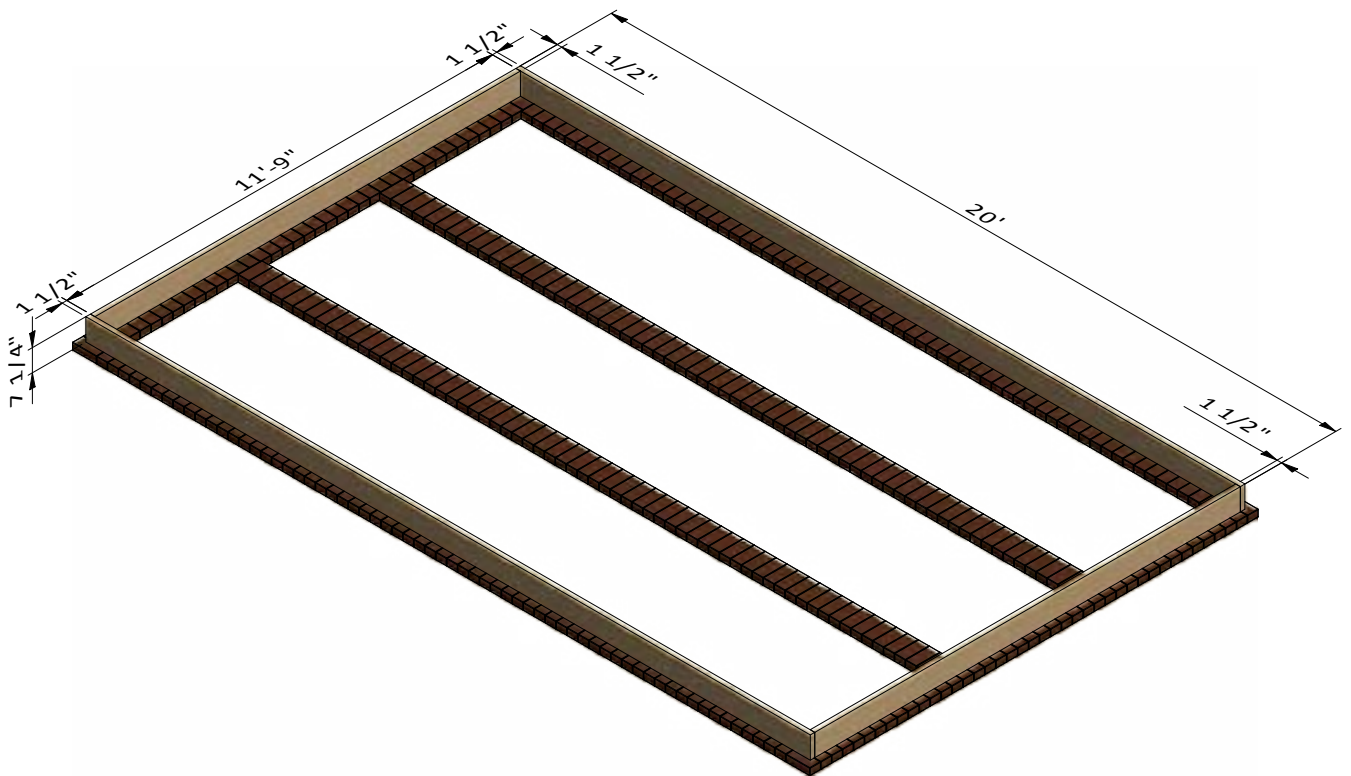
STEP 1

Framing the Floor

1.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need two boards cut to 20' that will be the rim joist and two boards cut to 11'-9" that will be the joist.

1.2 Secure the beams with 8x3" wood screws.

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



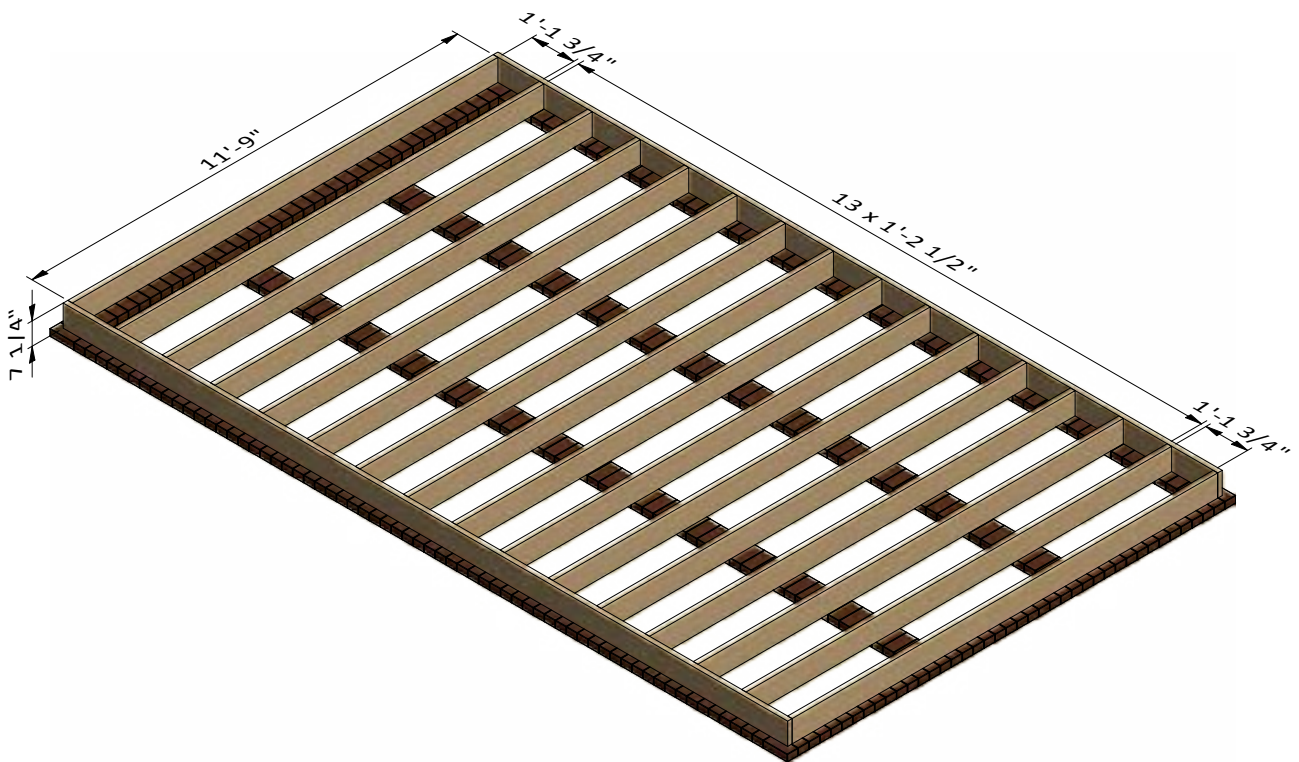
STEP 2

Framing the Floor

2.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need fourteen boards cut to 11'-9" that will be the joist.

2.2 Secure the beams with 8x3" wood screws.

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



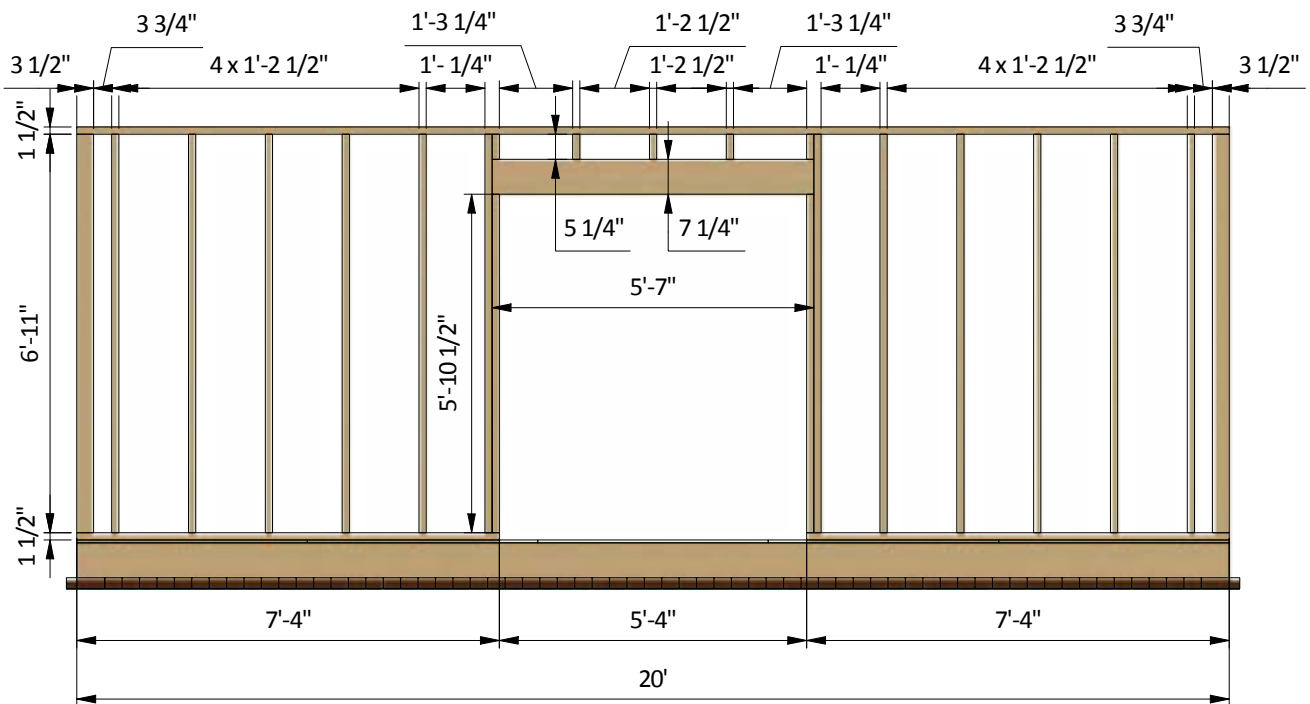
STEP 3

Assemble Front Wall Frame

3.1 Using 1 1/2" x 3 1/2", 1 1/2" x 7 1/4" 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 fourteen boards cut to 6'-11", two boards cut to 5'-10 1/2" that will be studs, two boards cut to 7'-4" that will be the bottom plates, one board cut to 20' that will be the top plate, two boards cut to 5'-7" that will be the door header and five boards cut to 5 1/4" 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°.



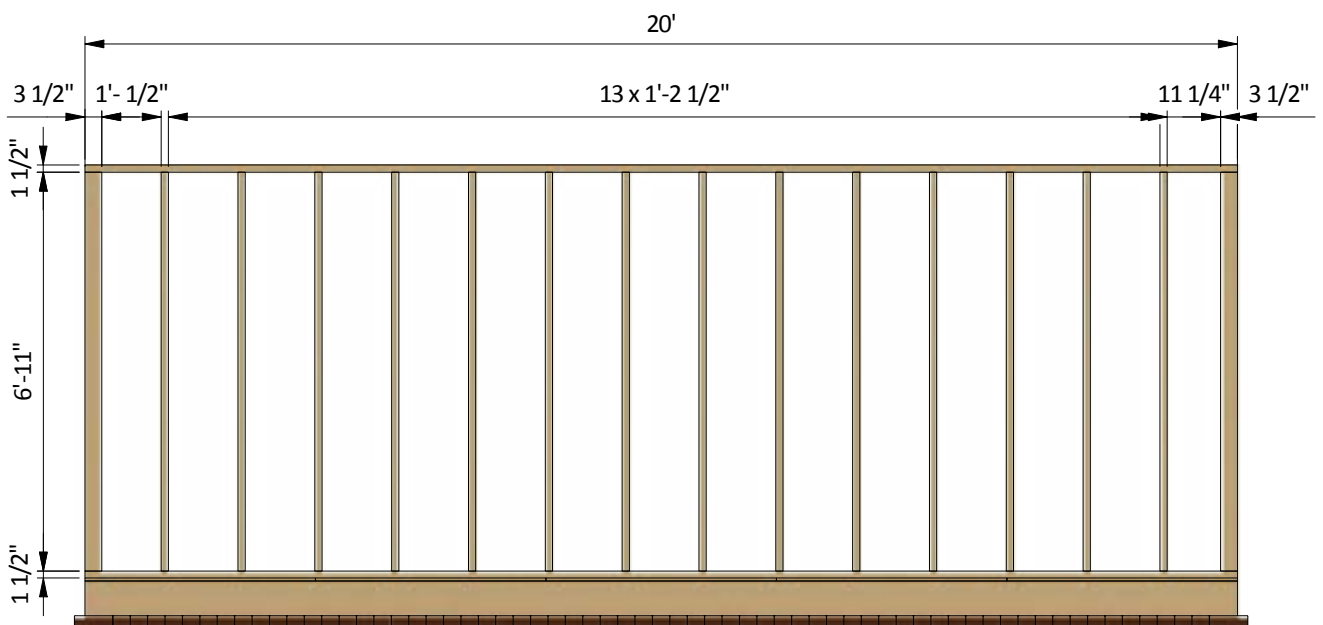
STEP 4

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 sixteen boards cut to 6'-11" that will be the studs and two boards cut to 20' 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°.



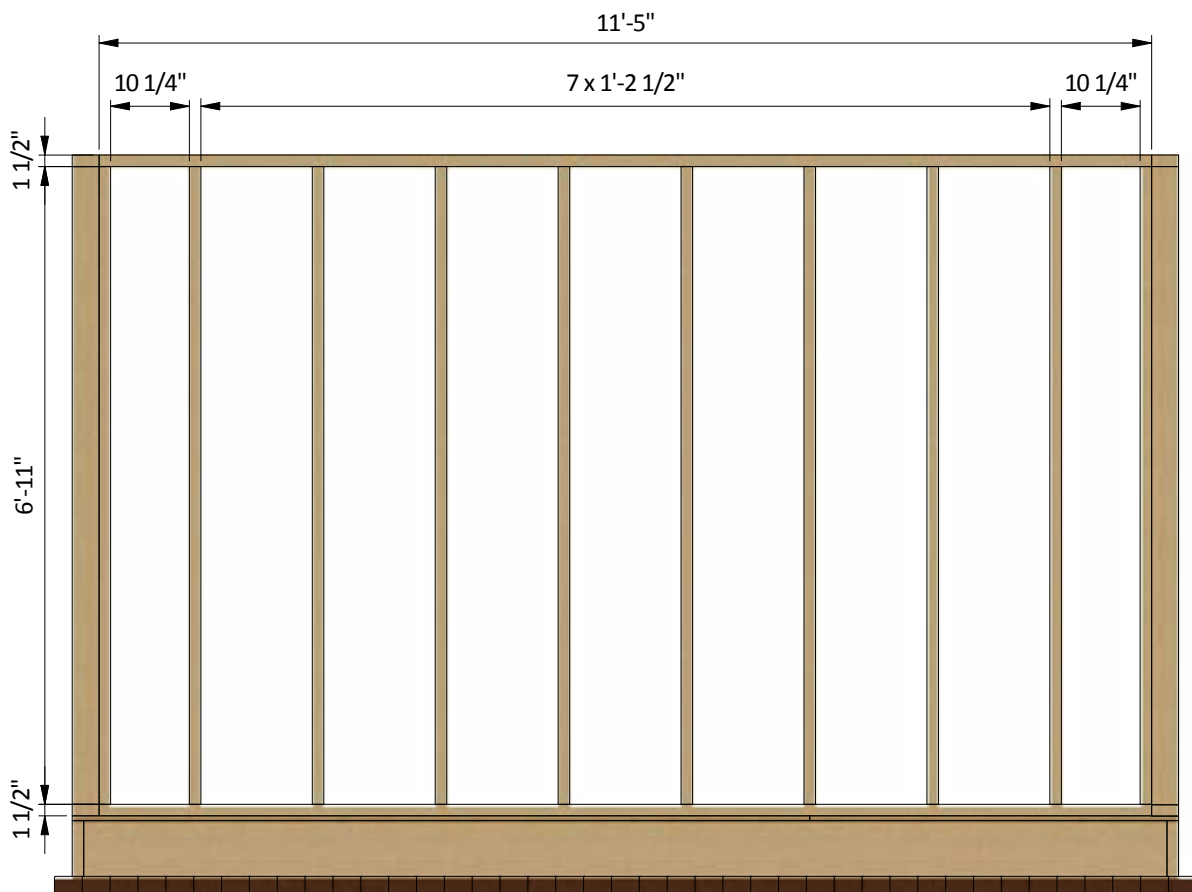
STEP 5

Assemble Side Wall Frames

5.1 Using 1 1/2" x 3 1/2" pressure-treated lumber, construct side wall frames using the drawing below as a reference. For each side wall you will need ten boards cut to 6'-11" 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

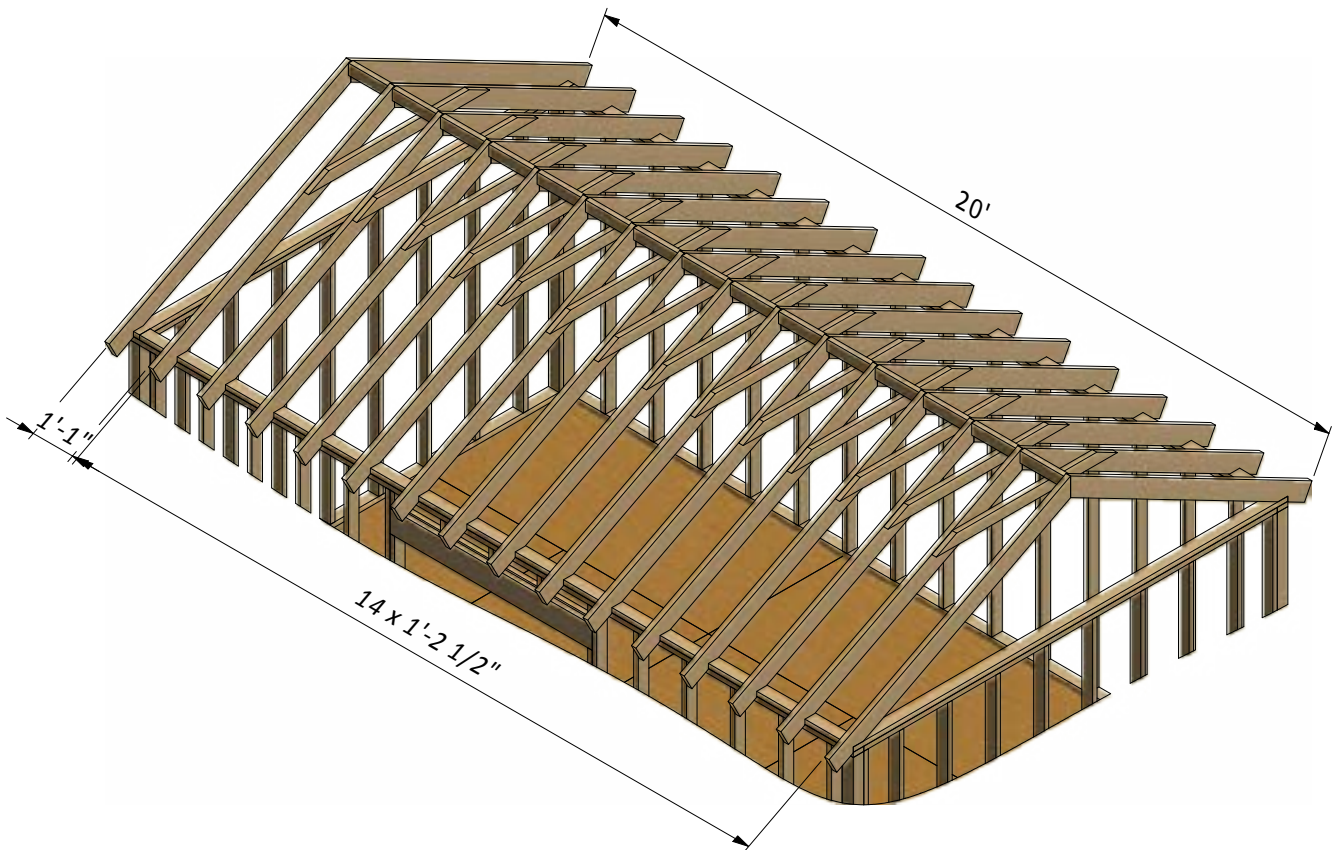
Assemble the Roof Frame

6.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut thirty two rafters 7'-6" long according to the dimensions in drawings below.

6.2 Using 1 1/2" x 3 1/2" pressure-treated lumber, cut fourteen collar ties 5' long according to the dimensions in drawings below.

6.3 Using 1 1/2" x 3 1/2" pressure-treated board, cut one board 1'-1" long and fourteen boards cut to 1'-2 1/2" long that will be ridge boards according the illustration below.

6.4 Connect the beams with 3" and 5" wood screws.

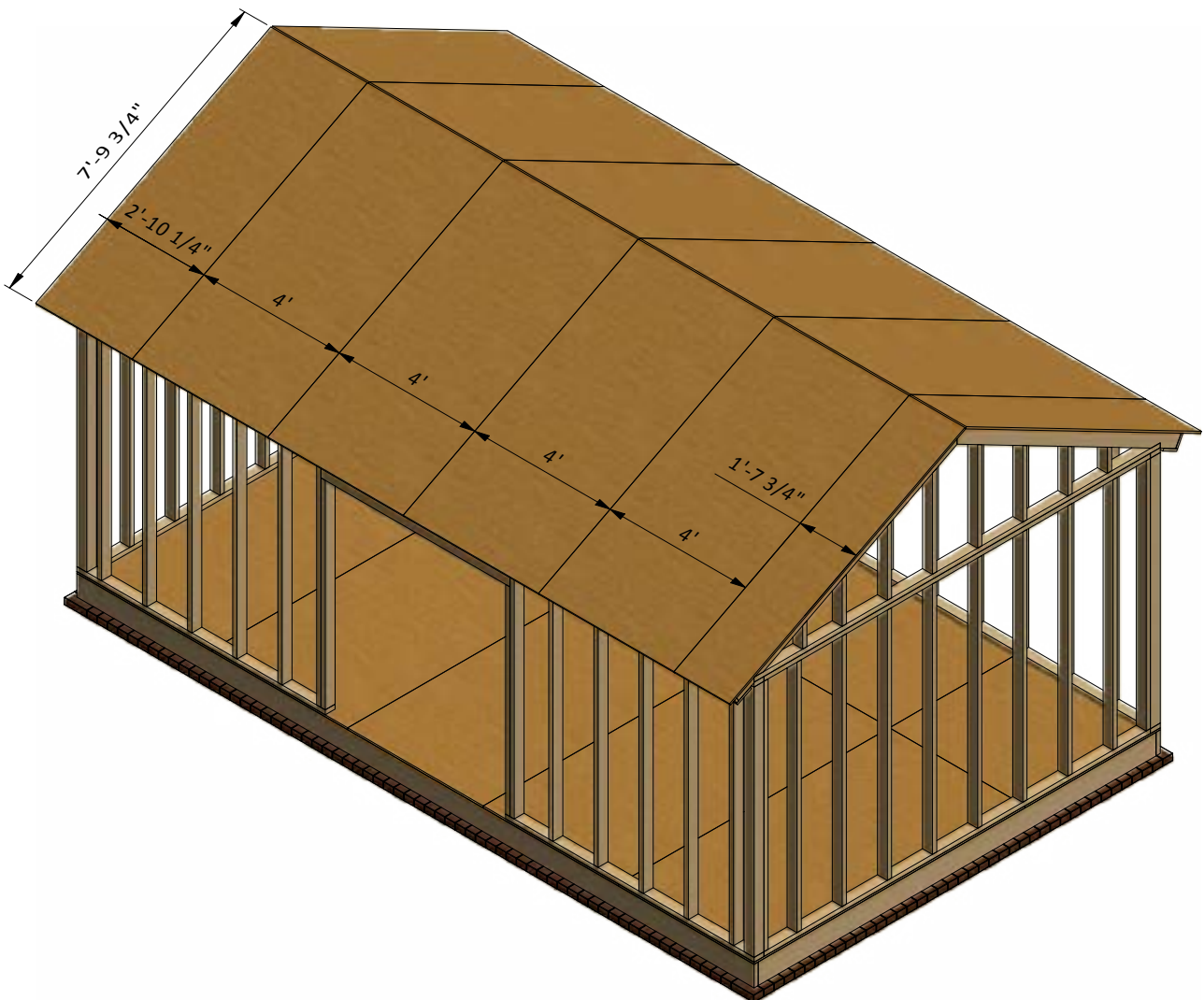


STEP 7

Install Plywood for the Roof

7.1 Cut sheets of 5/8" plywood for the roof sheathing using the drawing below as a guide. You will need two 2'-10 1/4" x 7'-9 3/4" sheets, eight 4' x 7'-9 3/4" sheets and two 1'-7 3/4" x 7'-9 3/4" sheets.

7.2 Secure the plywood with 2" 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'-4 3/4" that will be the vertical girts, two boards cut to 2'-7 3/4" that will be the horizontal girts, two boards cut to 3'-3 1/4" that will be cross braces and one board cut to 2'-3/4" that will be middle girt.

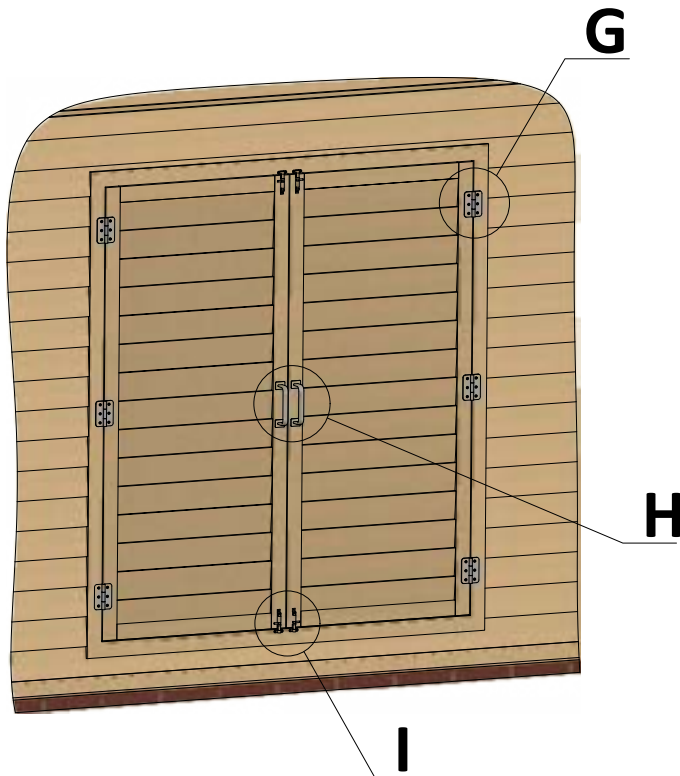
8.2 Prepare the 5/8" plywood sheet with dimensions 5'-11 3/4" x 2'-7 3/4" for the doors according to the drawing.

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

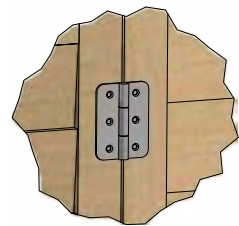
8.4 Using 1/4" x 3/4" pressure-treated lumber, cut and install a starter course 2'-2 3/4" long.

8.5 For the exterior siding on the door, use 1/2" x 6" wood siding boards and the illustration below as a reference. Assemble siding shields with 2" galvanized nails.

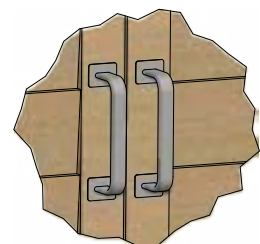
8.6 Install three 4" door hinges using 6x1" wood screws. Finish the doors installation by attaching 4" surface bolts and 6" door pulls (see nodes E, F, G).



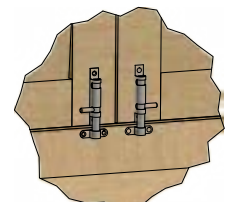
G (1 : 10)



H (1 : 10)



I (1 : 10)



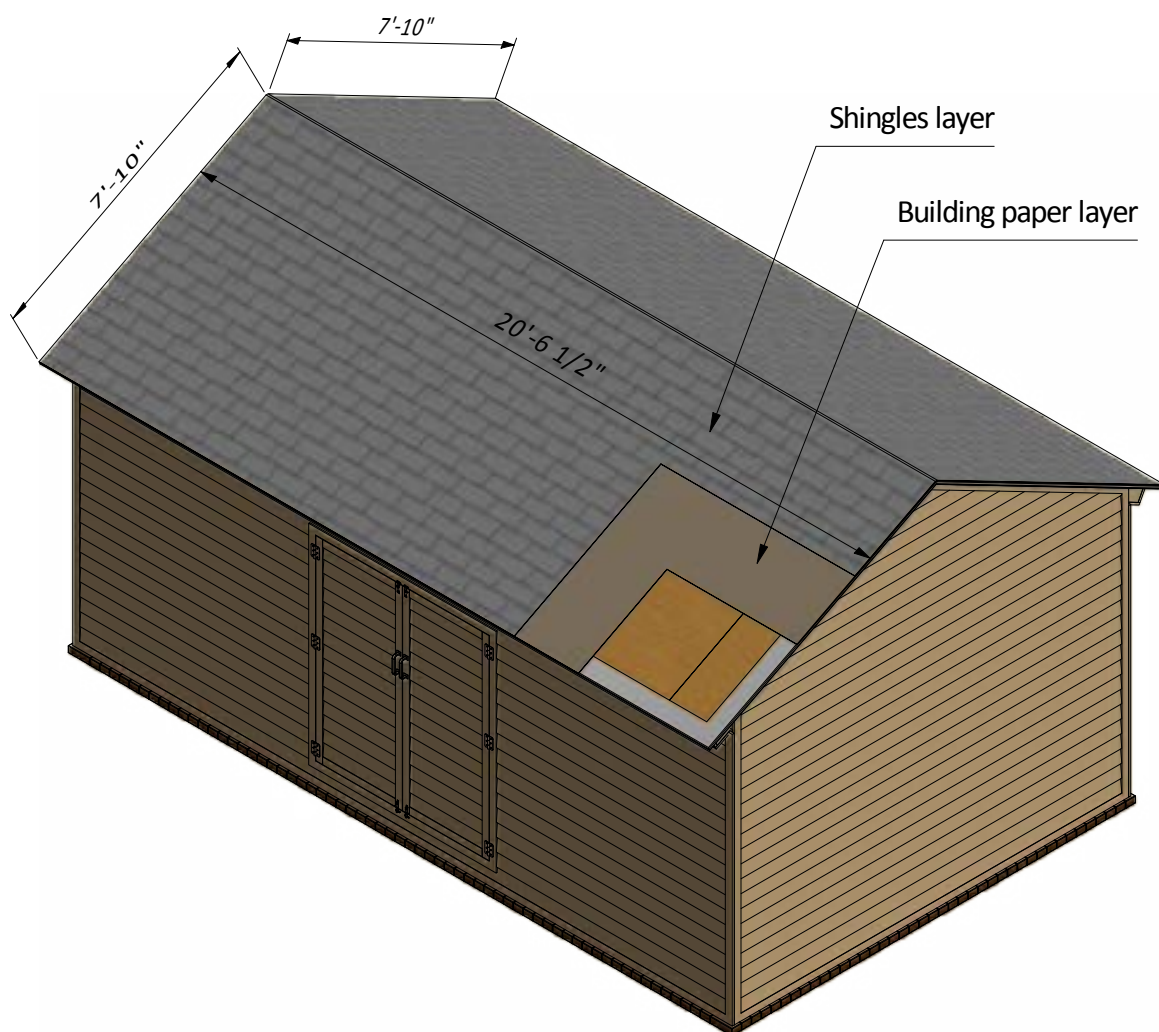
STEP 9

Roof Sheathing Installation

9.1 You will need 322 Sq Ft of building paper and asphalt shingle roofing.

9.2 Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

9.3 Install asphalt shingle roofing using an industrial stapler.

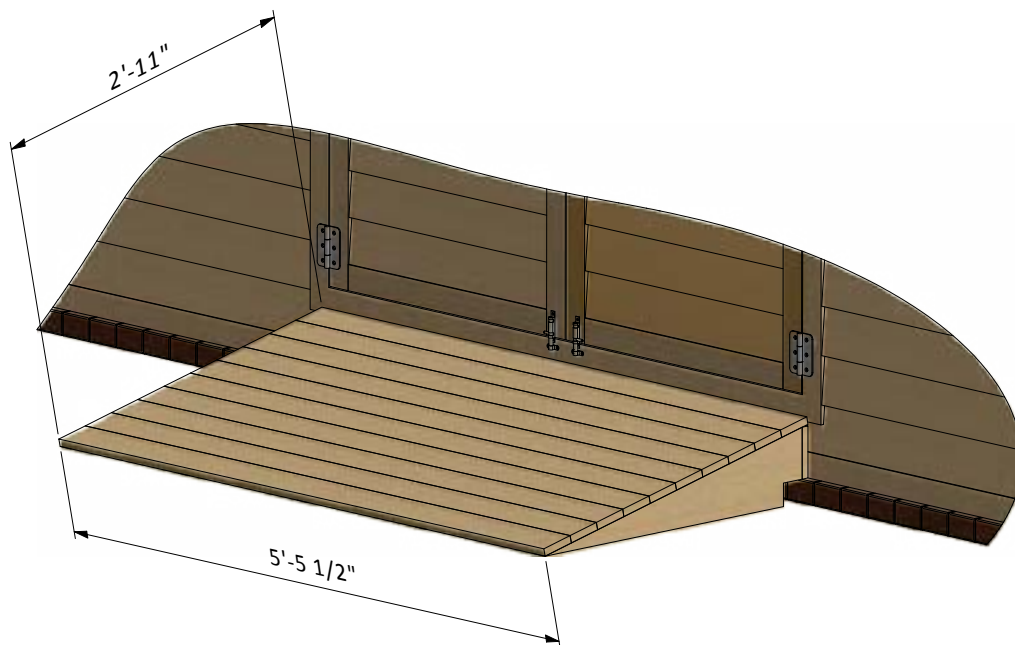


STEP 10

Assemble and Install Door Ramp

10.1 Using $\frac{3}{4}$ " x $3\frac{1}{2}$ ", $\frac{3}{4}$ " x 5" and $1\frac{1}{2}$ " x $7\frac{1}{4}$ " pressure-treated lumber, construct door ramp using the drawing below as a reference. You will need five boards cut to $2'-9\frac{1}{2}$ " that will be support girts, four boards cut to $1'-2\frac{1}{2}$ " that will be joists (cut the top edge to fit the angle of support girts), one board cut to $5'-5\frac{1}{2}$ " that will be rim joist and ten boards cut to $5'-5\frac{1}{2}$ " that will be top sheathing.

10.2 Assemble siding shields with 2" and 3" galvanized nails.



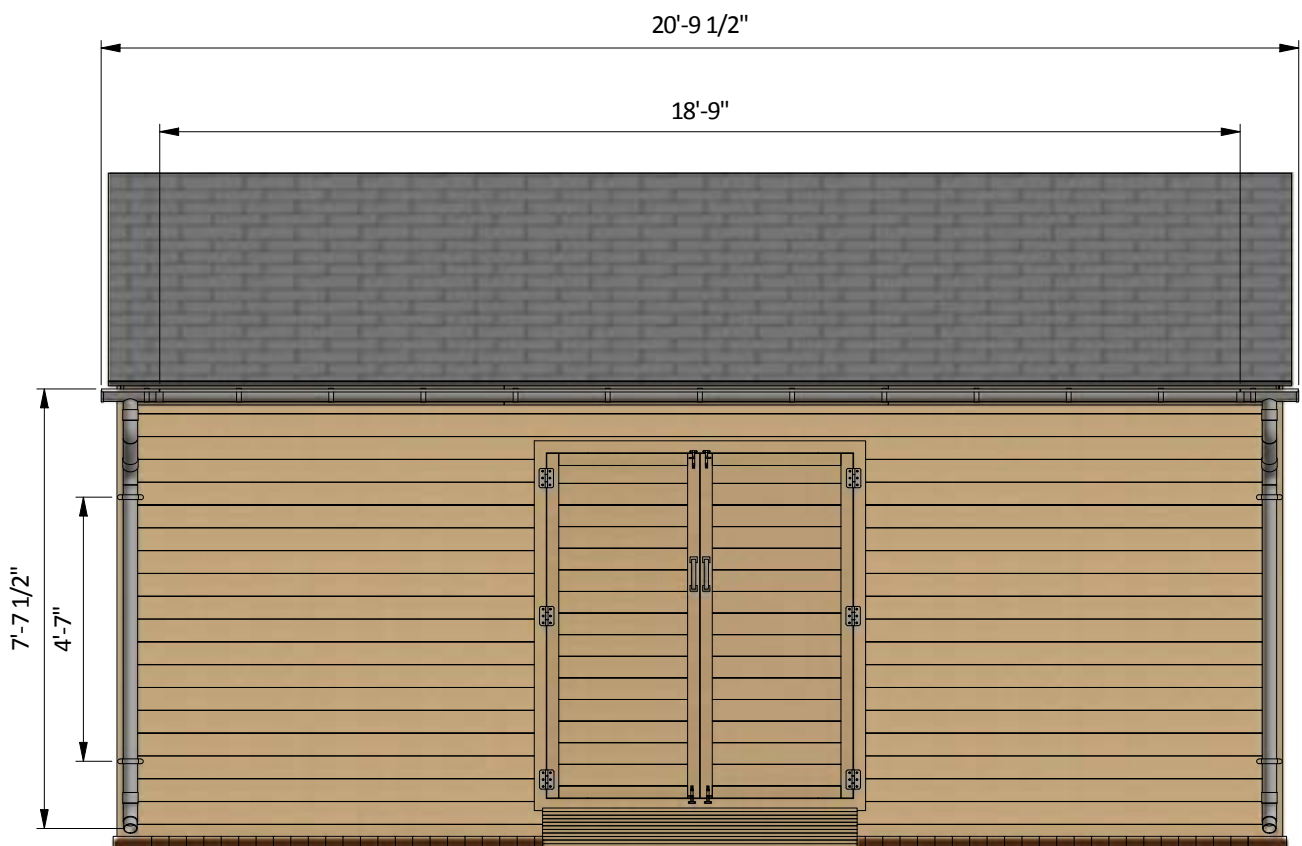
STEP 11

Assemble and Install Roof Drainage System

11.1 Assemble roof drainage system on the front fascia board. You will need 5" half round gutter 18'-9" long, two end pieces with the outlet, six 45° elbows, two 3" pipe 6' long, two joint connectors and two end caps.

11.2 Fasten the round gutter to the fascia with the seven round hangers.

11.3 Fasten the vertical pipe section with the two wall fasteners for each side.



STEP 12

Thank You

Now that your shed 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	12	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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