

12' x 16' Greenhouse Plan

Free vs. Premium Plan: What's the Difference?

We offer both free and premium versions of our detailed shed plans, designed to fit your needs and budget. Check out the table below to see the key differences and choose the plan that's right for you:

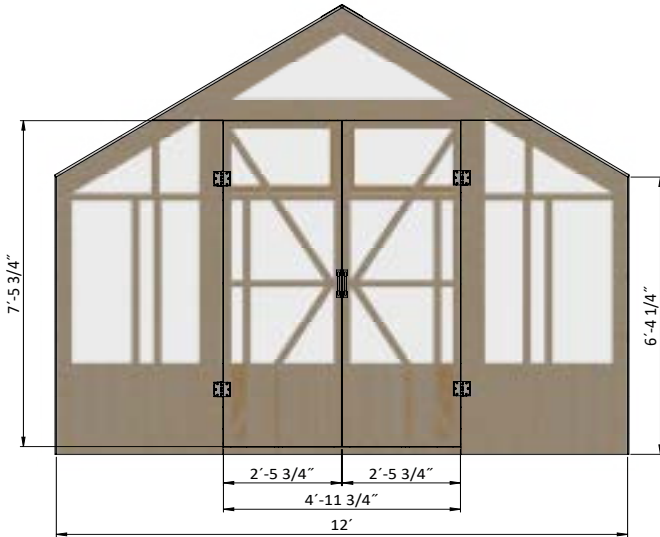
Features	Free Plan	Premium Plan
Steps Count	10	20
Illustrations per Step	Limited	Every Step
Print Ready Format	X	✓
Step-by-Step Instructions	Basic	Comprehensive
Full Materials & Cutting List	X	✓
Additional Illustrations	X	✓
Additional Blueprints	X	✓
Tools List	X	✓
Fastening Elements List	X	✓
Technical Support	X	✓

Try Premium Risk-Free

30-day refund policy with no questions asked.

Size & Dimensions

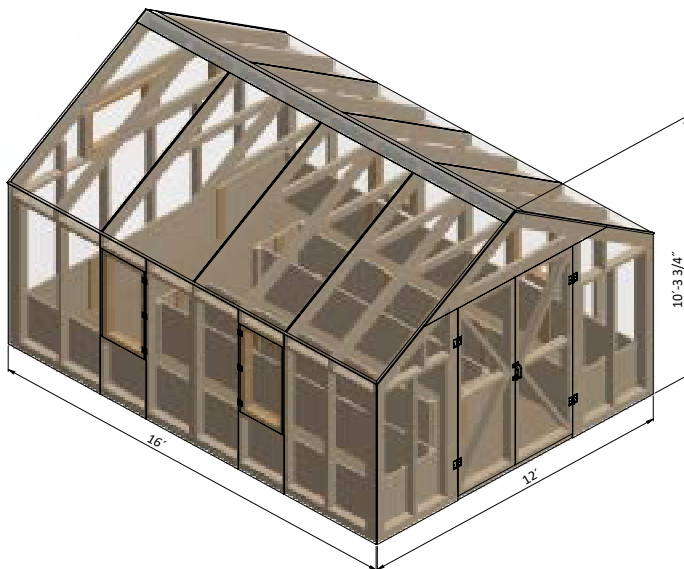
front



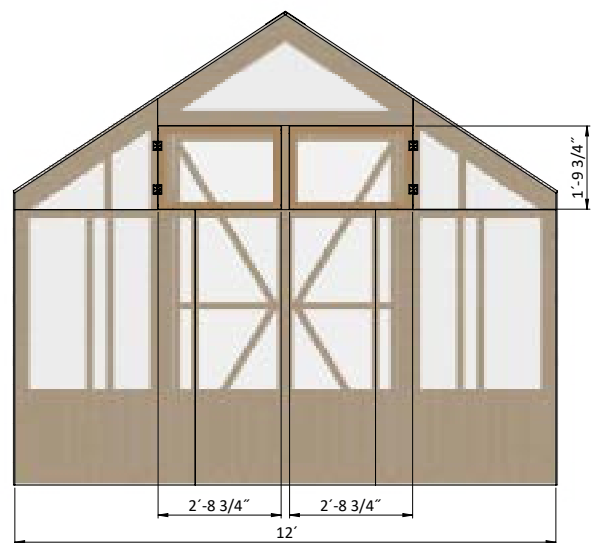
side



3D



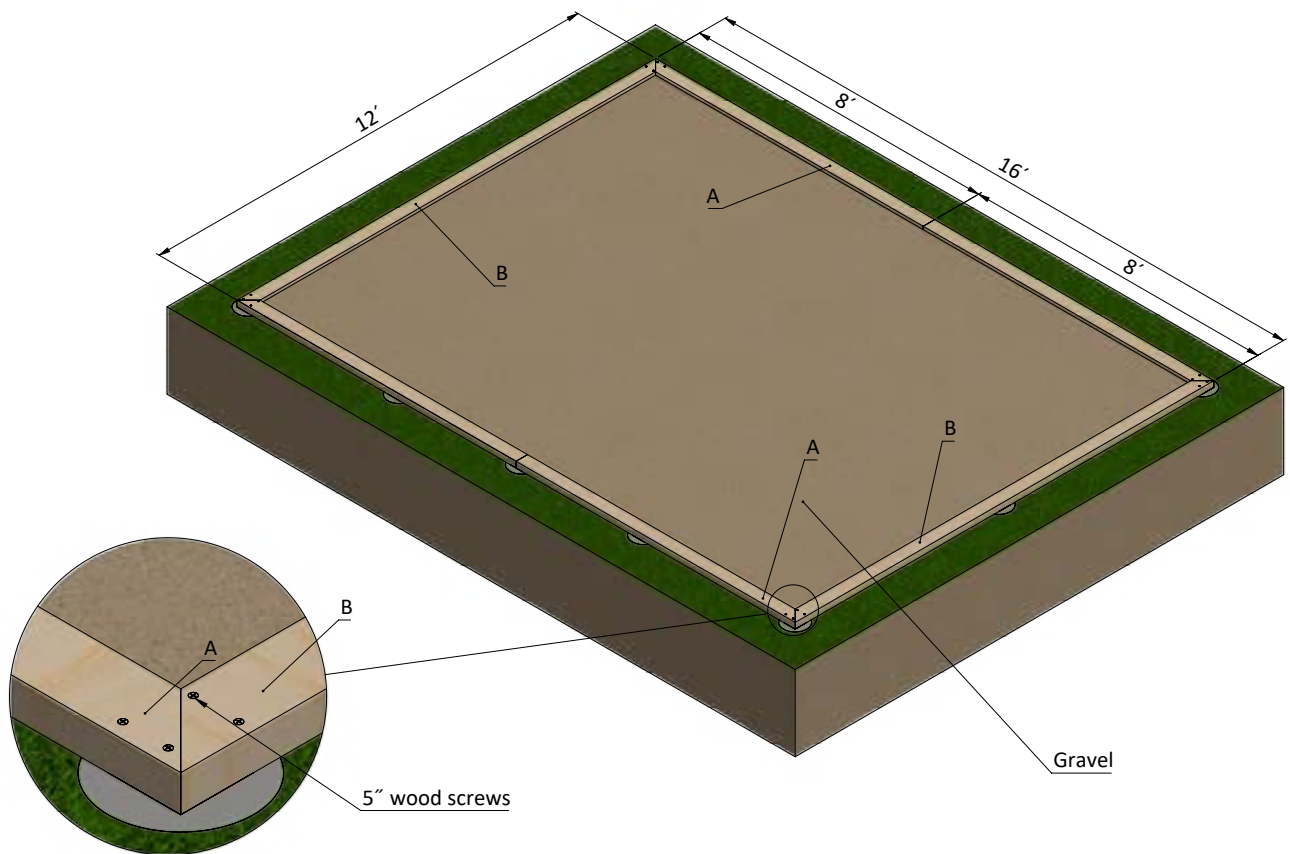
back



STEP 1

Foundation Preparation

- 1.1. Assemble the foundation using 2" x 4" pressure-treated lumber. You will need two boards cut to 12' that will be the rim joists and four boards cut to 8' that will be the joists.
- 1.2. You will need to cut edges of the joists before fastening it.
- 1.3. Connect the joists to the foundation posts in concrete with 5" wood screws.
- 1.4. Inside the foundation, gravel goes on the ground. You will need 32 cub.ft. or 3356lb of gravel.
- 1.5. Using a speed square or carpenter's square, check the corners to make sure they are 90°.



Pos	Description	Material	Dimension	Qty
A	Joists	2" x 4"	8'	4
B	Rim Joists	2" x 4"	12'	2

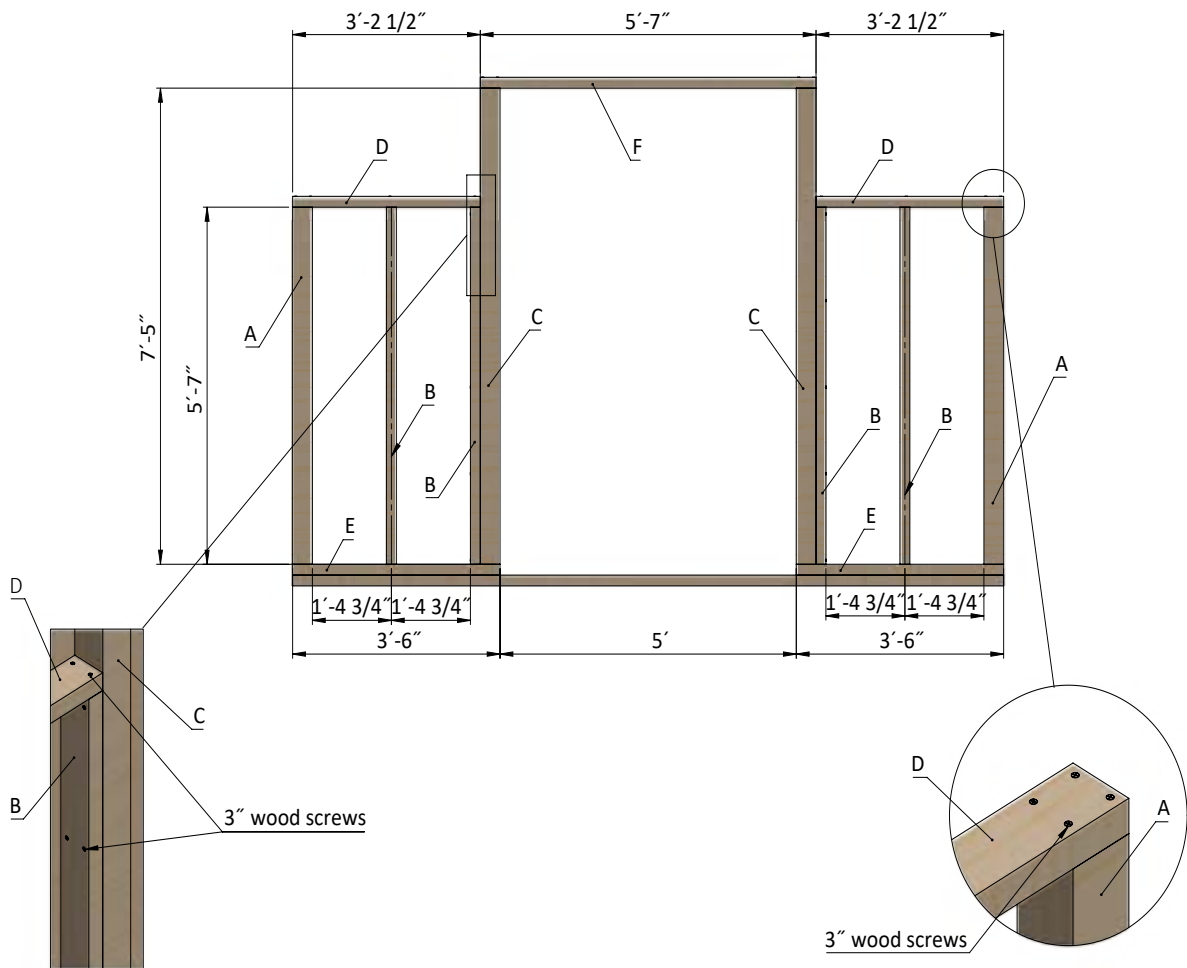
STEP 2

Assemble the Front Wall

2.1. Using 2" x 4" and 4" x 4" pressure-treated lumber, construct front wall frame using drawing below as a reference. You will need six boards cut to 5'-7" and two boards cut to 7'-5" that will be the studs, two boards cut to 3'-6" that will be the bottom plates, one board cut to 5'-7" and two boards cut to 3'-2 1/2" that will be the top plates.

2.2. Connect the beams with 3" wood screws.

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



Pos	Description	Material	Dimension	Qty
A	Studs	4" x 4"	5'-7"	2
B	Studs	2" x 4"	5'-7"	4
C	Studs	4" x 4"	7'-5"	2
D	Top plates	2" x 4"	3'-2 1/2"	2
E	Bottom plates	2" x 4"	3'-6"	2
F	Top plate	2" x 4"	5'-7"	1

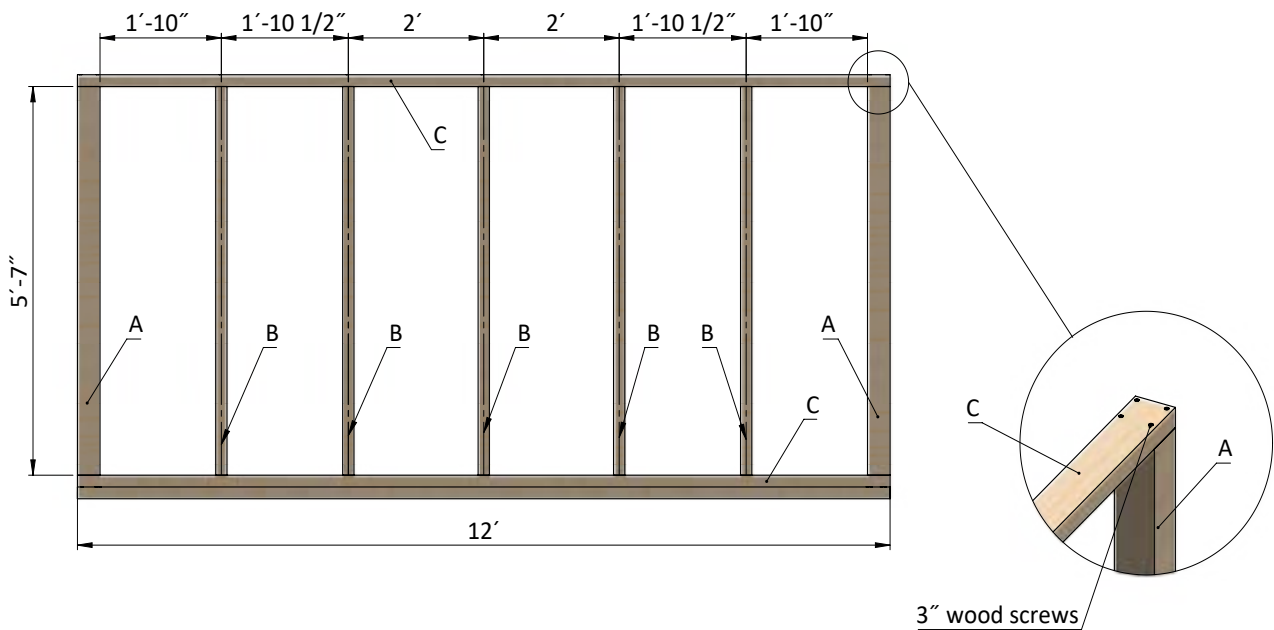
STEP 3

Assemble the Back Wall

3.1. Using 2" x 4" and 4" x 4" pressure-treated lumber, construct back wall frame using drawing below as a reference. You will need seven boards cut to 5'-7" that will be the studs, one board cut to 12' that will be the bottom plate and one board cut to 12' that will be the top plate.

3.2. Connect the beams with 3" wood screws.

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



Pos	Description	Material	Dimension	Qty
A	Studs	4" x 4"	5'-7"	2
B	Studs	2" x 4"	5'-7"	5
C	Top plate, Bottom plate	2" x 4"	12'	2

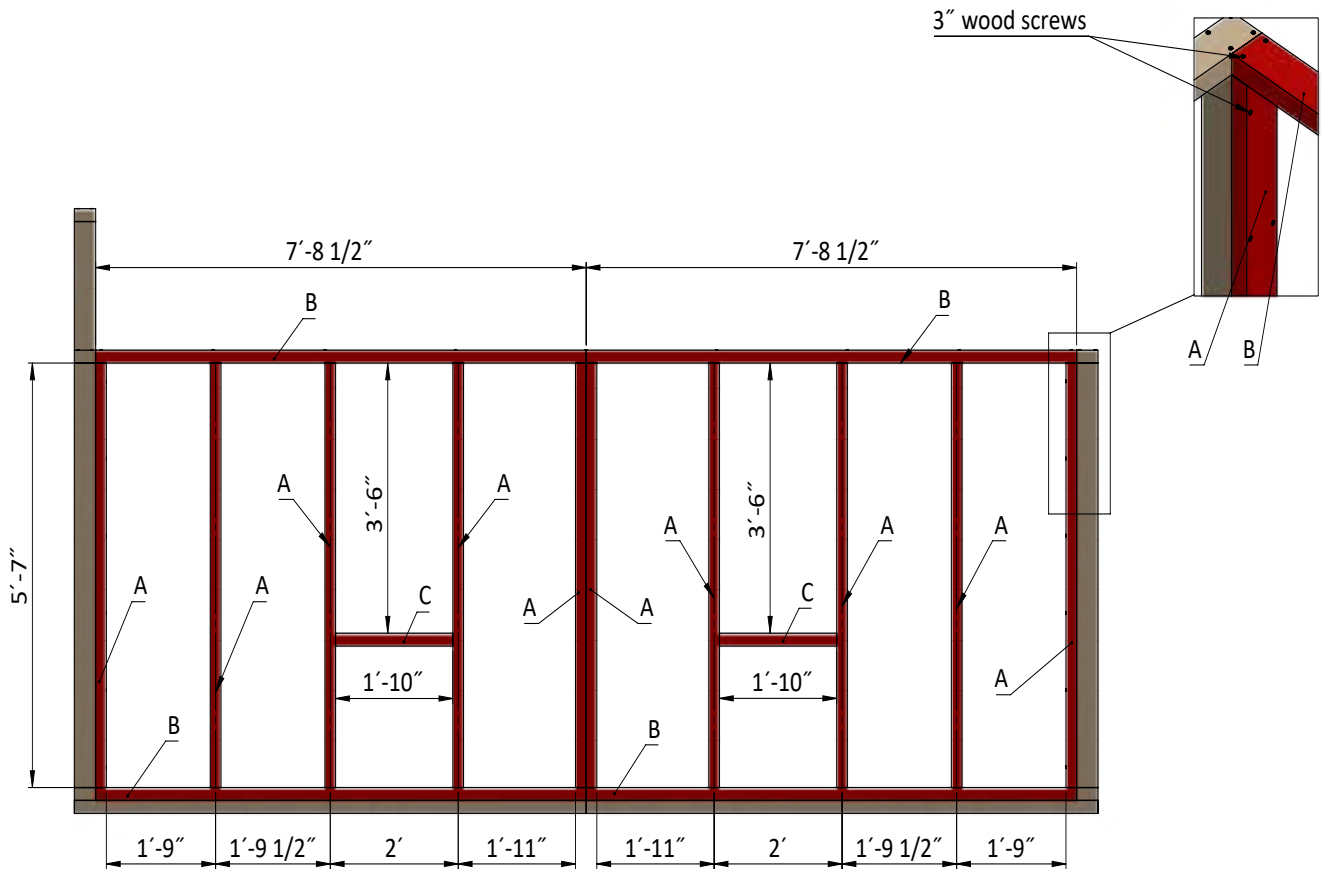
STEP 4

Assemble the Right Wall

4.1. Using 2" x 4" pressure-treated lumber, construct right wall frame using drawing below as a reference. You will need ten boards cut to 5'-7" that will be the studs, two boards cut to 7'-8 1/2" that will be the bottom plates, two boards cut to 7'-8 1/2" that will be the top plates and two boards cut to 1'-10" that will be the rough sill.

4.2. Connect the beams with 3" wood screws.

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



Pos	Description	Material	Dimension	Qty
A	Studs	2" x 4"	5'-7"	10
B	Top plates, Bottom plates	2" x 4"	7'-8 1/2"	4
C	Rough sill	2" x 4"	1'-10"	2

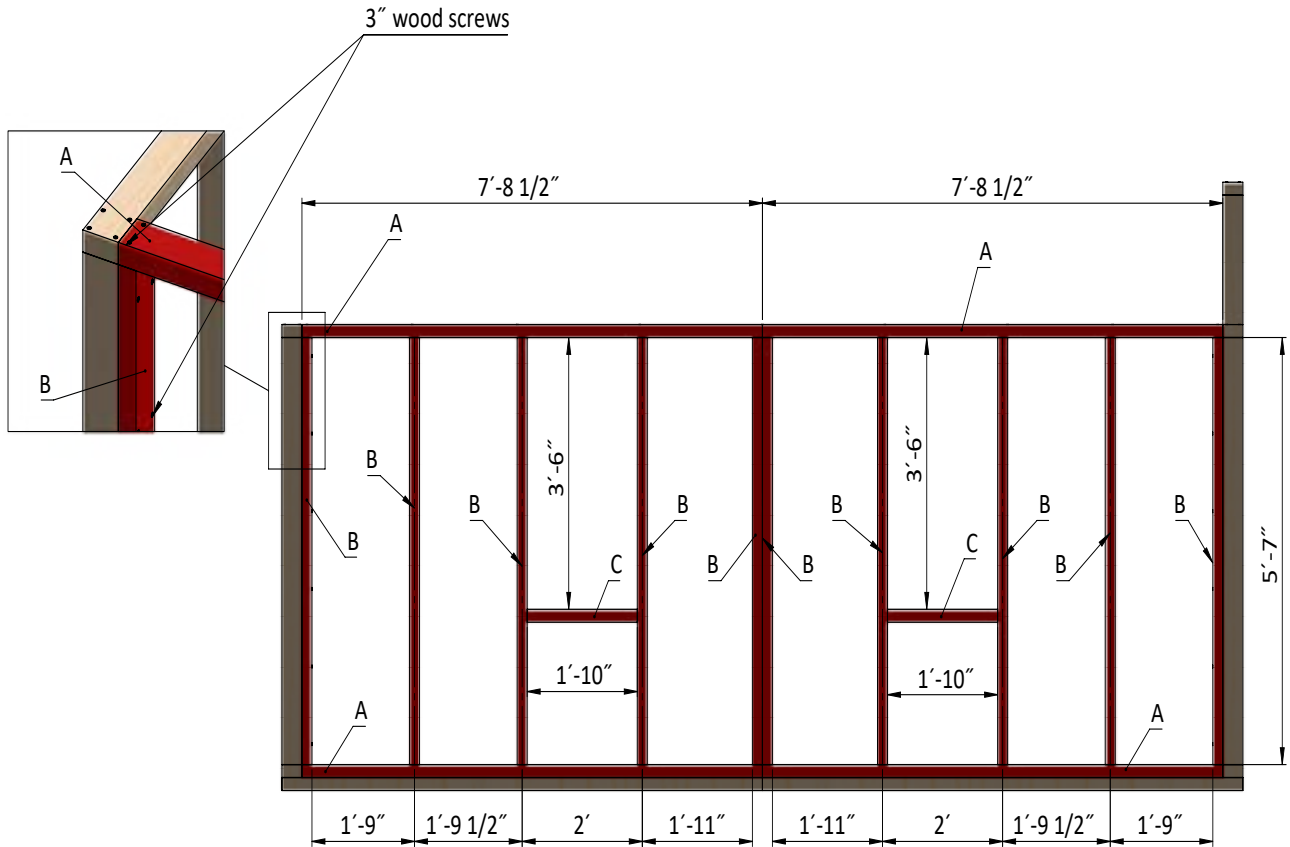
STEP 5

Assemble the Left Wall

5.1. Using 2" x 4" pressure-treated lumber, construct left wall frame using drawing below as a reference. You will need ten boards cut to 5'-7" that will be the studs, two boards cut to 7'-8 1/2" that will be the bottom plates, two boards cut to 7'-8 1/2" that will be the top plates and two boards cut to 1'-10" that will be the rough sill.

5.2. Connect the beams with 3" wood screws.

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



Pos	Description	Material	Dimension	Qty
A	Top plate, Bottom plate	2" x 4"	7'-8 1/2"	4
B	Studs	2" x 4"	5'-7"	10
C	Rough sill	2" x 4"	1'-10"	2

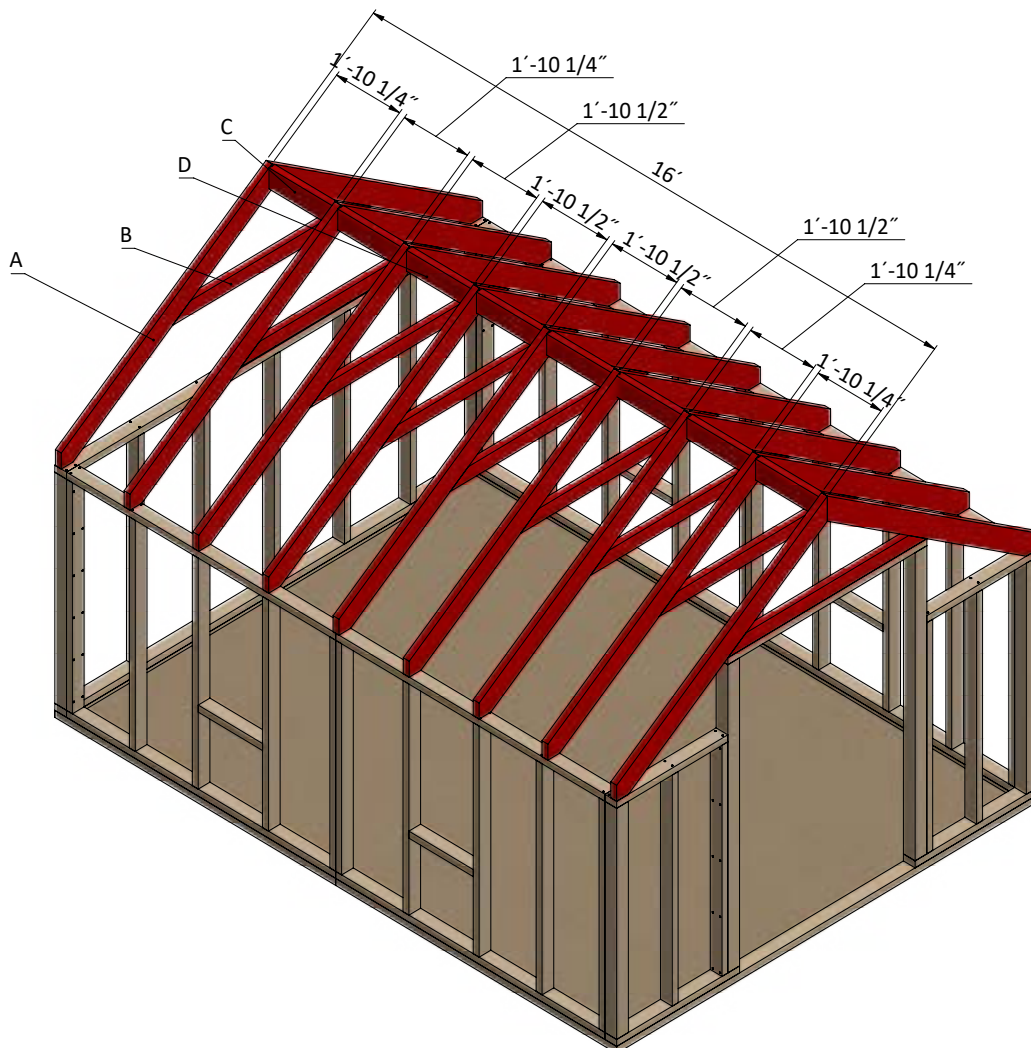
STEP 6

Assemble the Roof Frame

6.1. Using 2" x 4" and 2" x 6" pressure-treated lumber, construct roof frame using drawing below as a reference. You will need eighteen boards cut to 7'-4" that will be the rafters, nine boards cut to 5'-8" that will be the collar ties, four boards cut to 1'-10 1/4" and four boards cut to 1'-10 1/2" that will be the ridge boards.

6.2. Connect the roof with 5" wood screws.

6.3. For the construction of the roof, you will need to assemble each triangle on the ground and then fasten one by one to the greenhouse.



Pos	Description	Material	Dimension	Qty
A	Rafters	2" x 6"	7'-4"	18
B	Collar ties	2" x 4"	5'-8"	9
C	Ridge boards	2" x 6"	1'-10 1/4"	4
D	Ridge boards	2" x 6"	1'-10 1/2"	4

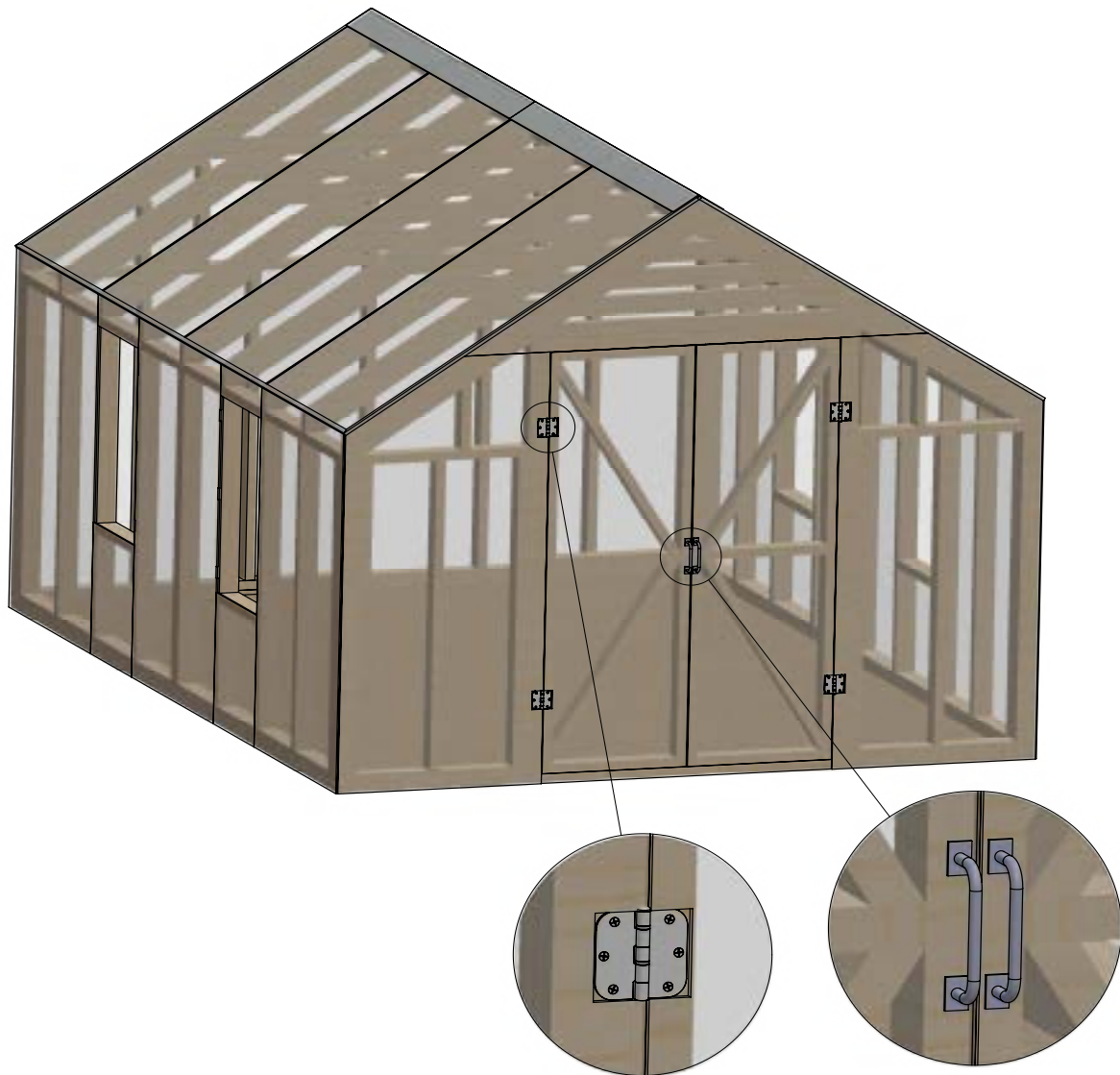
STEP 7

Assemble and Install Greenhouse Door

7.1. Build the door frame for the greenhouse using 2" x 4" pressure-treated lumber and secure with 3" wood screws. You will need six boards cut to 2'-2 3/4" that will be the horizontal girts, four boards cut to 7'-5 3/4" that will be vertical girts and four boards cut to 4'-1 1/2" that will be the angled girts. Prepare the two 0.314" polycarbonate sheets with dimension 2'-5 3/4" x 7'-5 3/4" for the doors according to the drawing.

7.2. You will need to cut holes for hinges on 0.314" polycarbonate sheet according to the drawing.

7.3. Secure the polycarbonate with 1" screws and washers.



STEP 8

Assemble and Install Greenhouse Ventilations

You will need six ventilations, for the right, left and back walls.

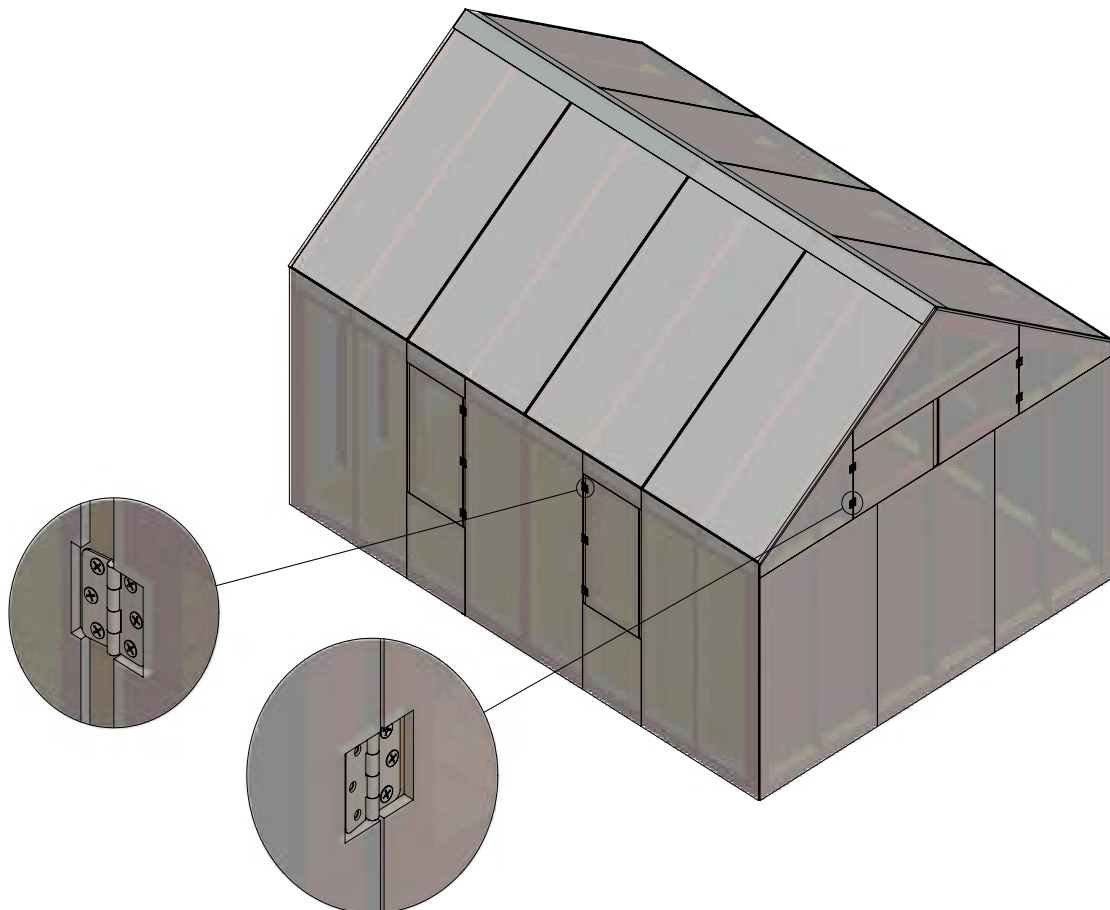
8.1. According to the Node A (page 28) build the ventilation frame for the greenhouse using 2" x 4" pressure-treated lumber and secure with 3" wood screws. For each ventilation you will need two boards cut to 1'-9 3/4" that will be the horizontal girts and two boards cut to 3'-2 3/4" that will be vertical girts. Prepare the 0.314" polycarbonate sheet with dimension 1'-9 3/4" x 3'-5 3/4" for the ventilation frame according to the drawing.

8.2. According to the Node B (page 28) build the ventilation frame for the greenhouse using 2" x 4" pressure-treated lumber and secure with 3" wood screws. For each ventilation you will need two boards cut to 2'-11" that will be the horizontal girts and two boards cut to 1'-9 3/4" that will be vertical girts. Prepare the 0.314" polycarbonate sheet with dimension 1'-9 3/4" x 3'-2" for the ventilation frame according to the drawing.

8.3. You will need to cut holes for hinges on 0.314" polycarbonate sheet according to the drawing.

8.4. Secure the polycarbonate with 1" screws and washers.

8.5. According to the Node C (page 29), build locking mechanism for ventilation openings. You will need six hook and eye (6" assembles).



STEP 9

Assemble and Install Greenhouse Interior

9.1. Build the garden bed for the greenhouse interior. Step by step construction of the garden bed is explained in next steps.

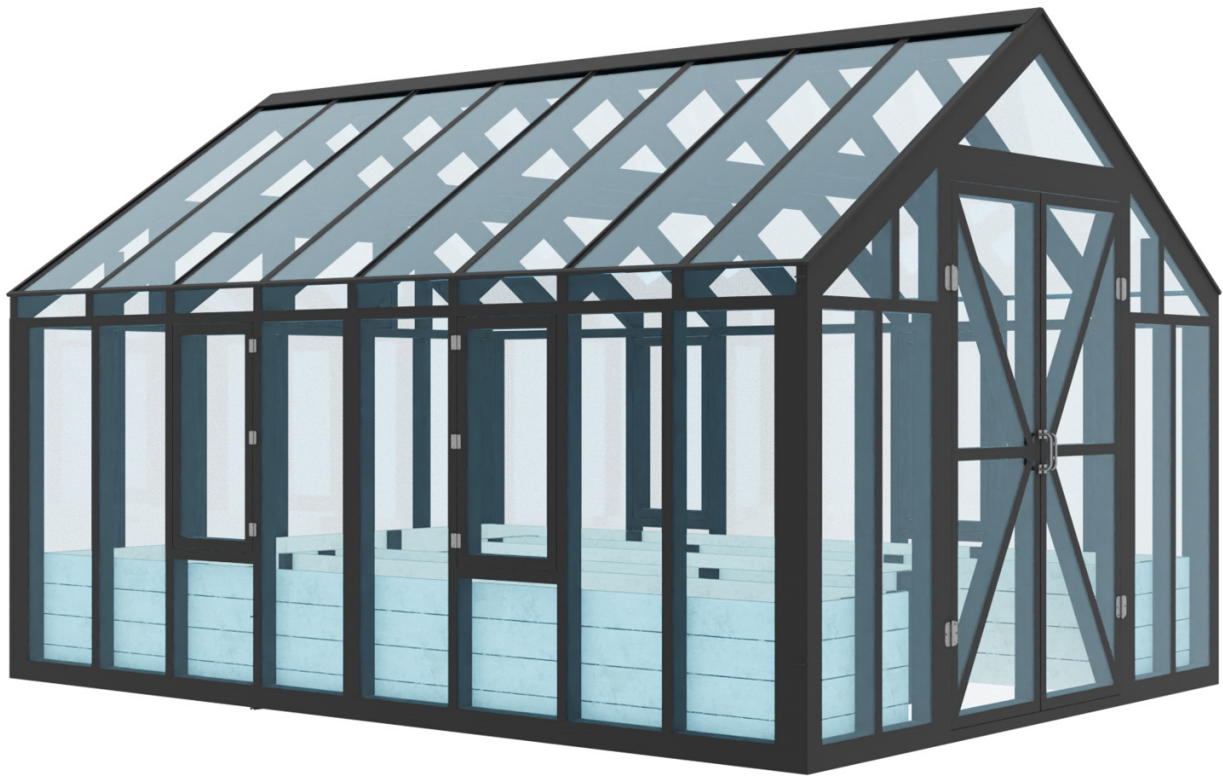
9.2. For the interior of the greenhouse you will need one garden bed.



STEP 10

Final touches

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



Get Support

If you have any questions or want to share the feedback, please do not hesitate contacting us:<https://craft.camp/support/>

Free vs. Premium Plan: What's the Difference?

We offer both free and premium versions of our detailed shed plans, designed to fit your needs and budget. Check out the table below to see the key differences and choose the plan that's right for you:

Features	Free Plan	Premium Plan
Steps Count	10	20
Illustrations per Step	Limited	Every Step
Print Ready Format	X	✓
Step-by-Step Instructions	Basic	Comprehensive
Full Materials & Cutting List	X	✓
Additional Illustrations	X	✓
Additional Blueprints	X	✓
Tools List	X	✓
Fastening Elements List	X	✓
Technical Support	X	✓

Try Premium Risk-Free

30-day refund policy with no questions asked.



For more great **HOW-TO** plans please visit: <https://craft.camp>

Copyright

The text and illustrations that appear here are the exclusive property of craft.camp and are protected by federal copyright laws. The duplication, sale or distribution of any portion of these plans without prior written consent from the original designer will be subject to the appropriate penalties for copyright infringement. Sharing this plan on the web is only permitted with an indicated original source: <https://craft.camp>