ShedPlans®
.org

12'x16' Garage 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	33
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	✗	✓

BUY NOW

12' x 16' Garage 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

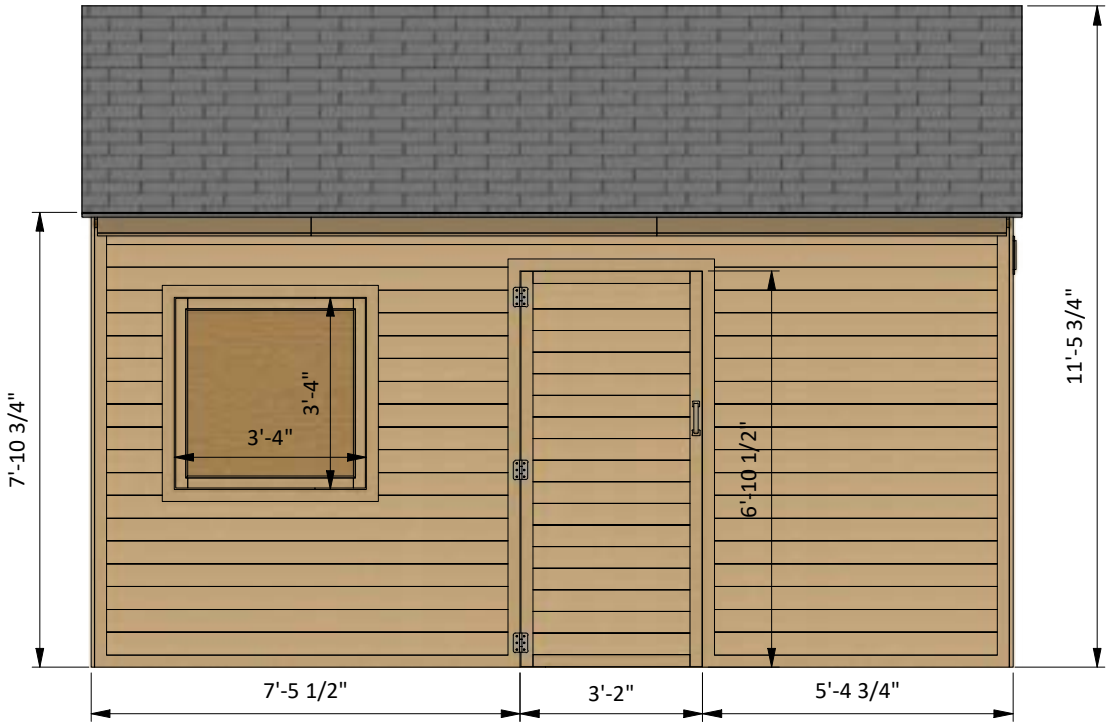
- Door hinges
- Door pulls
- Surface bolt
- Window lock
- Wood square louver gable vent
- Galvanized nails
- Wood screws

Shed's Window

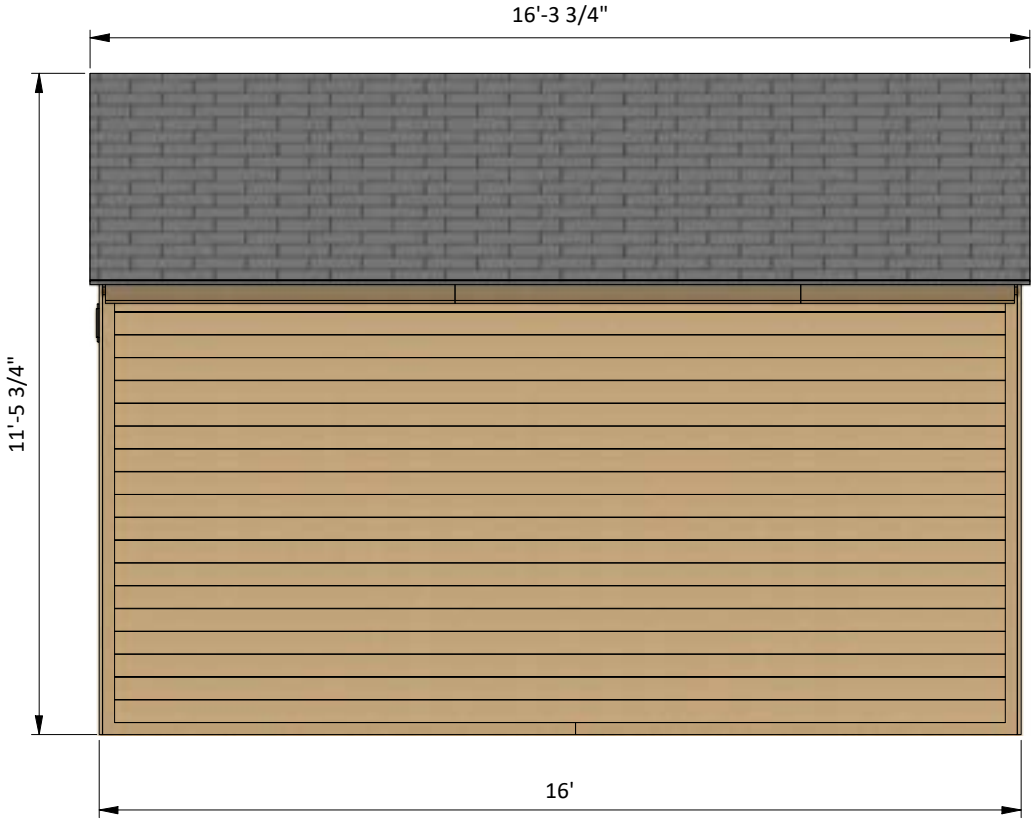
- Pressure-Treated Lumber
- Window beading
- Glass

Size & Dimensions

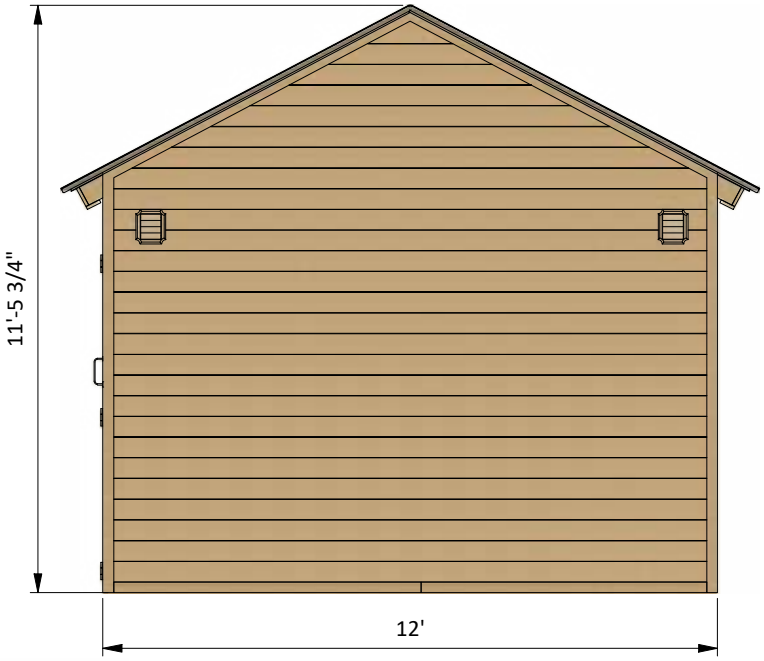
front



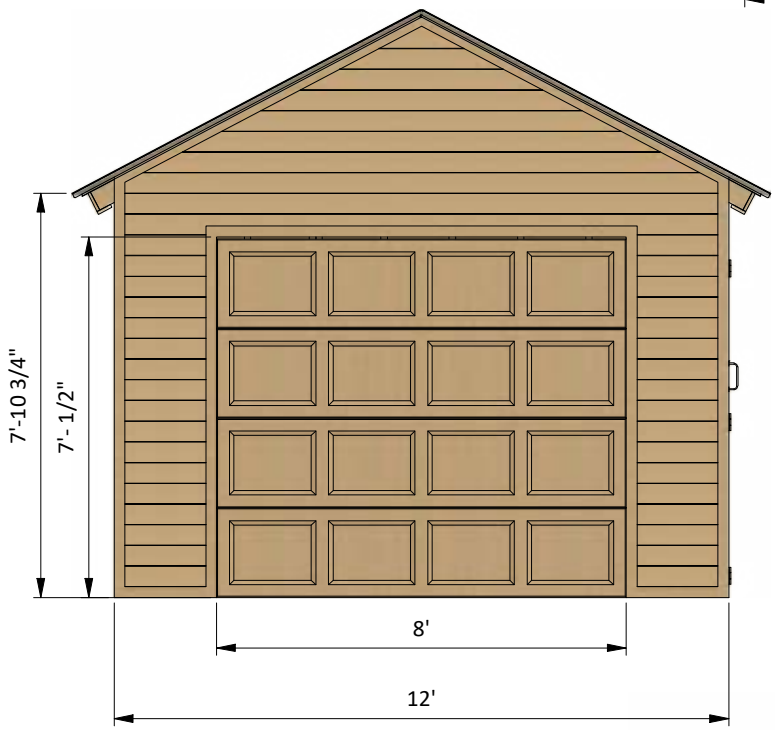
back



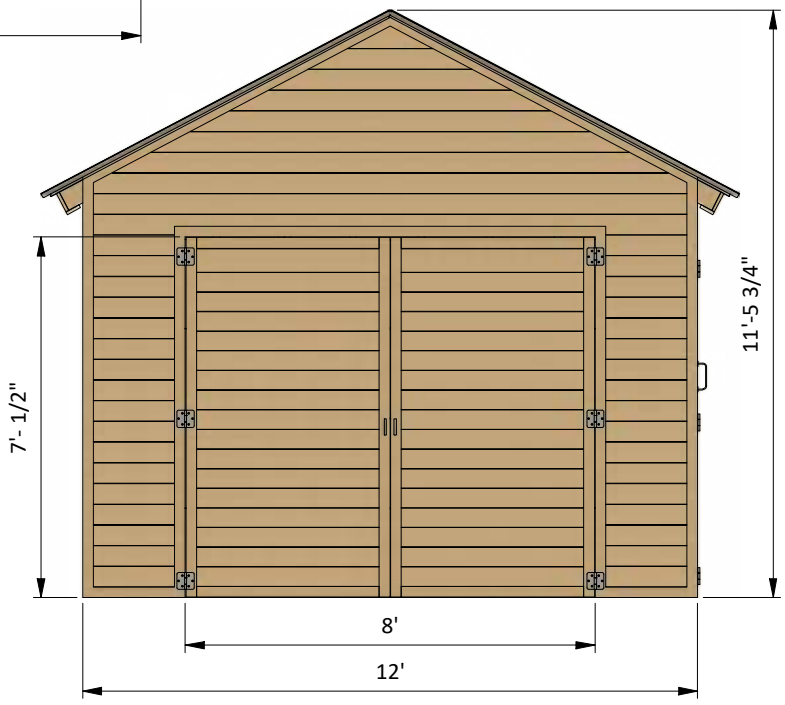
right



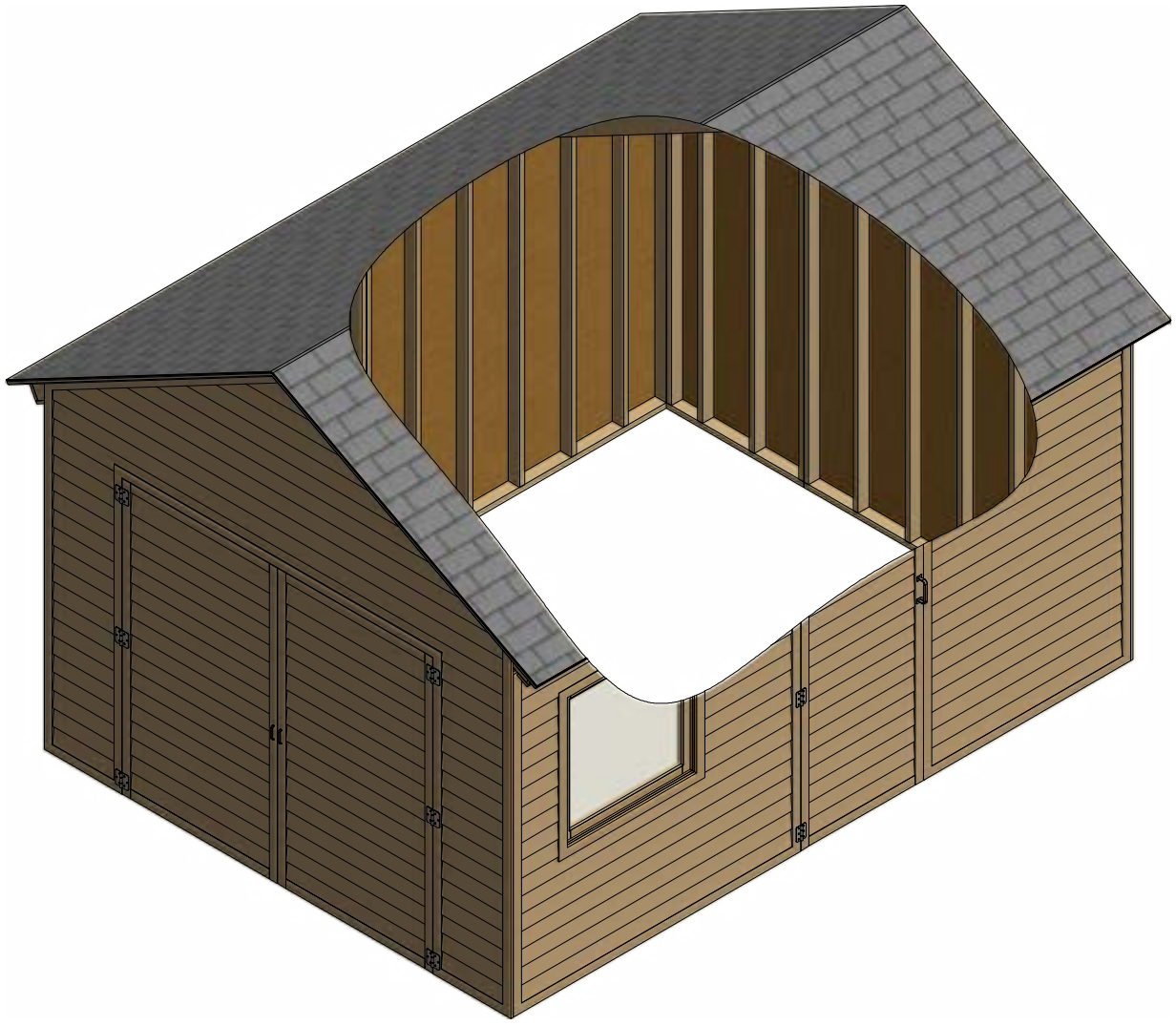
left



Alternative view of left side



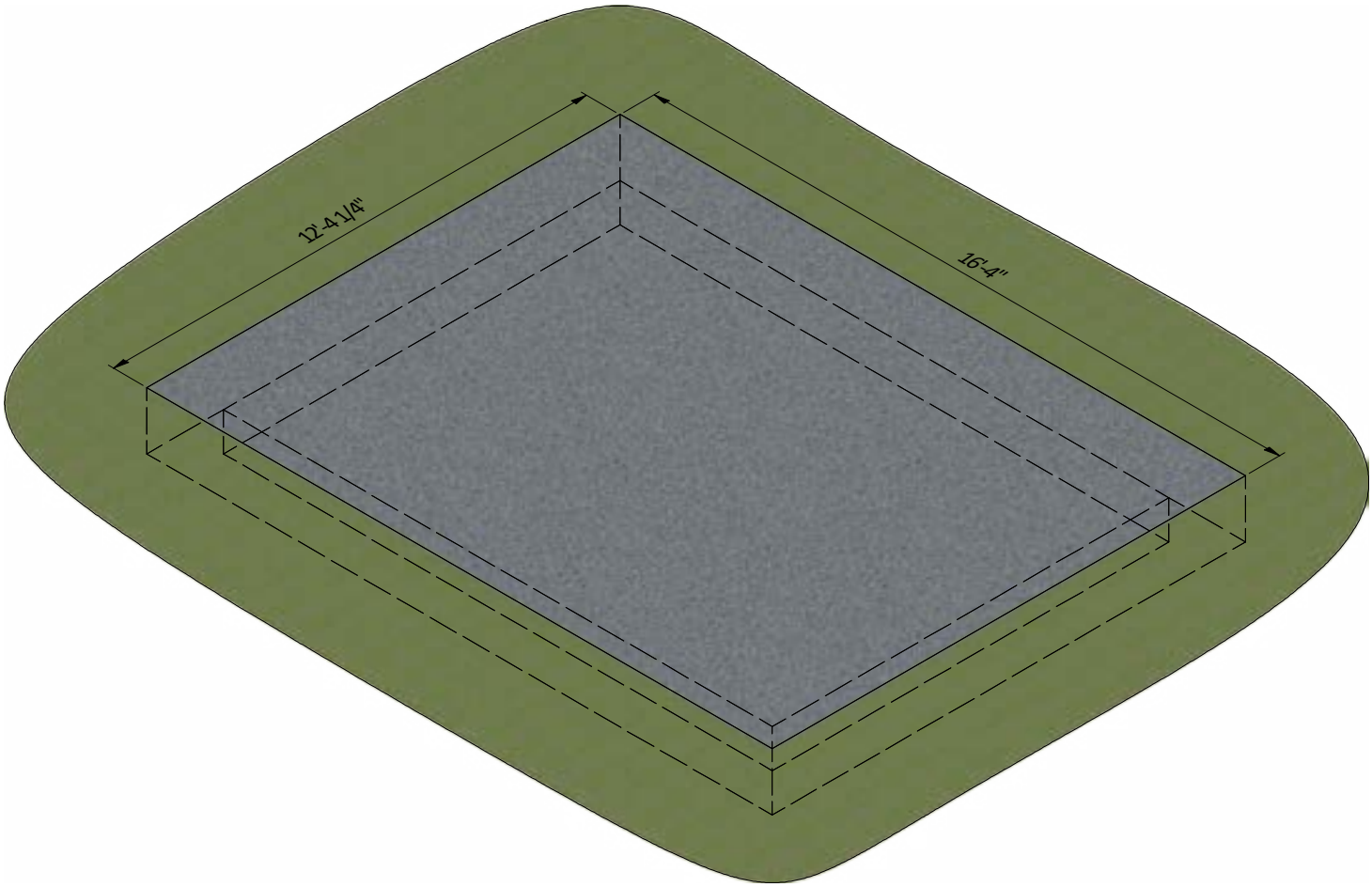
Interior view

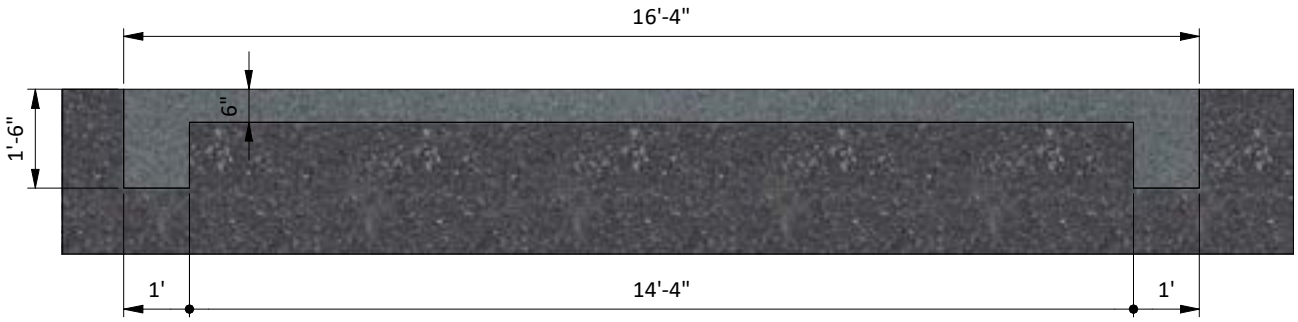


STEP 1

Foundation Preparation

1.1 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.





STEP 2

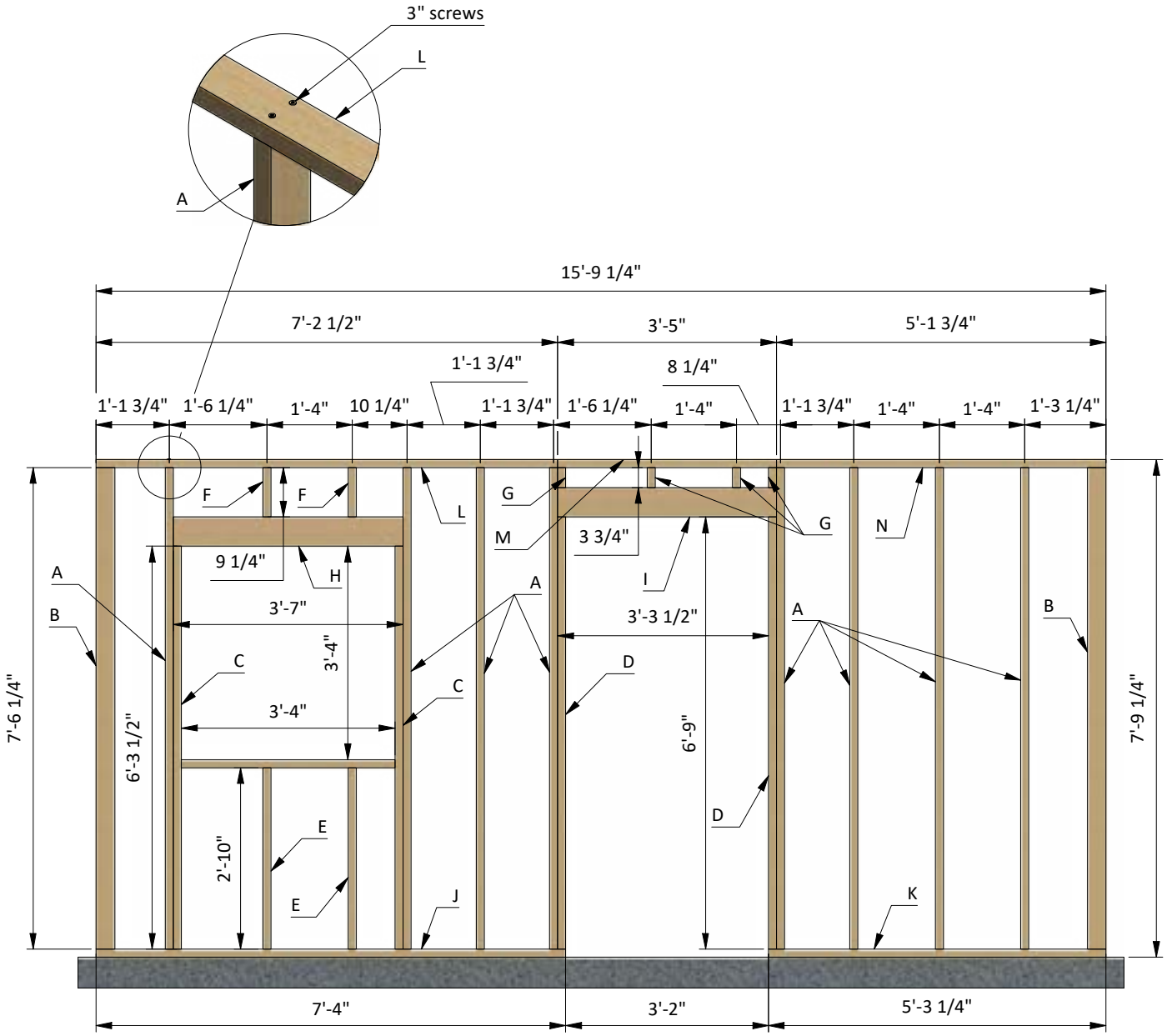
Assemble Front Wall Frame

2.1 Using 2 x 4, 2 x 6 and 4 x 4 pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need ten boards cut to 7'-6 1/4", two boards cut to 6'-3 1/2", two boards cut to 6'-9" and two boards cut to 2'-10" that will be studs, two boards cut to 9 1/4" and four boards cut to 3 3/4" that will be cripple studs, two boards cut to 3'-7" that will be window header, two boards cut to 3'-3 1/2" that will be door header, one board cut to 7'-4" and one board cut to 5'-3 1/4" that will be the bottom beams, one board cut to 7'-2 1/2", one board cut to 3'-5" and one board cut to 5'-1 3/4" that will be the top beams.

2.2 Connect the beams with 2x3" wood screws. Using a speed square or carpenter's square, check the corners to make sure they are 90°.

Pos	Description	Material	Dimension	Qty
A	Stud	2x4	7'-6 1/4"	8
B	Stud	4x4	7'-6 1/4"	2
C	Stud	2x4	6'-3 1/2"	2
D	Stud	2x4	6'-9"	2
E	Stud	2x4	2'-10"	2
F	Cripple stud	2x4	9 1/4"	2
G	Cripple stud	2x4	3 3/4"	4
H	Window header	2x6	3'-7"	2
I	Door header	2x6	3'-3 1/2"	2
J	Bottom beam	2x4	7'-4"	1
K	Bottom beam	2x4	5'-3 1/4"	1
L	Top beam	2x4	7'-2 1/2"	1
M	Top beam	2x4	3'-5"	1
N	Top beam	2x4	5'-1 3/4"	1

STEP 3


3" screws
L
A
15'-9 1/4"
7'-2 1/2"
3'-5"
5'-1 3/4"
1'-1 3/4"
8 1/4"
1'-1 3/4"
1'-6 1/4"
1'-4"
10 1/4"
1'-1 3/4"
1'-6 1/4"
1'-4"
1'-1 3/4"
1'-4"
1'-4"
1'-3 1/4"
F
F
L
G
M
3 3/4"
I
G
N
9 1/4"
H
A
B
3'-7"
C
3'-4"
3'-4"
C
A
3'-3 1/2"
D
A
B
7'-6 1/4"
6'-3 1/2"
6'-9"
7'-9 1/4"
D
E
2'-10"
E
J
K
7'-4"
3'-2"
5'-3 1/4"

STEP 4

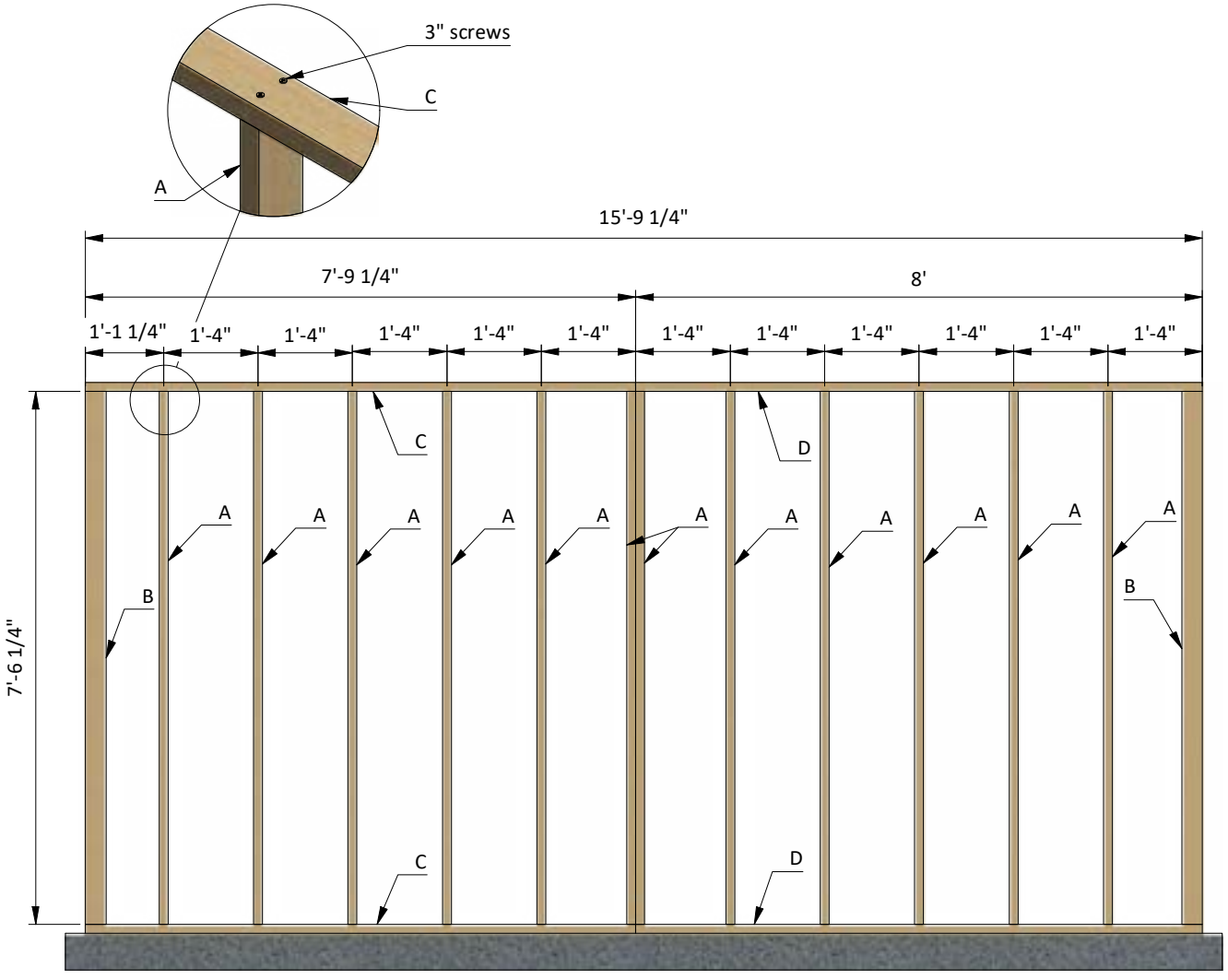
Assemble Back Wall Frame

4.1 Using 2 x 4 and 4 x 4 pressure-treated lumber, construct back wall frame using the drawing below as a reference. You will need fourteen boards cut to 7'-6 1/4" that will be the studs, two boards cut to 7'-9 1/4" and two boards cut to 8' that will be the top and bottom beams.

4.2 Connect the beams with 3" wood screws.

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

Pos	Description	Material	Dimension	Qty
A	Stud	2x4	7'-6 1/4"	12
B	Stud	4x4	7'-6 1/4"	2
C	Top/bottom beam	2x4	7'-9 1/4"	2
D	Top/bottom beam	2x4	8'	2



STEP 5

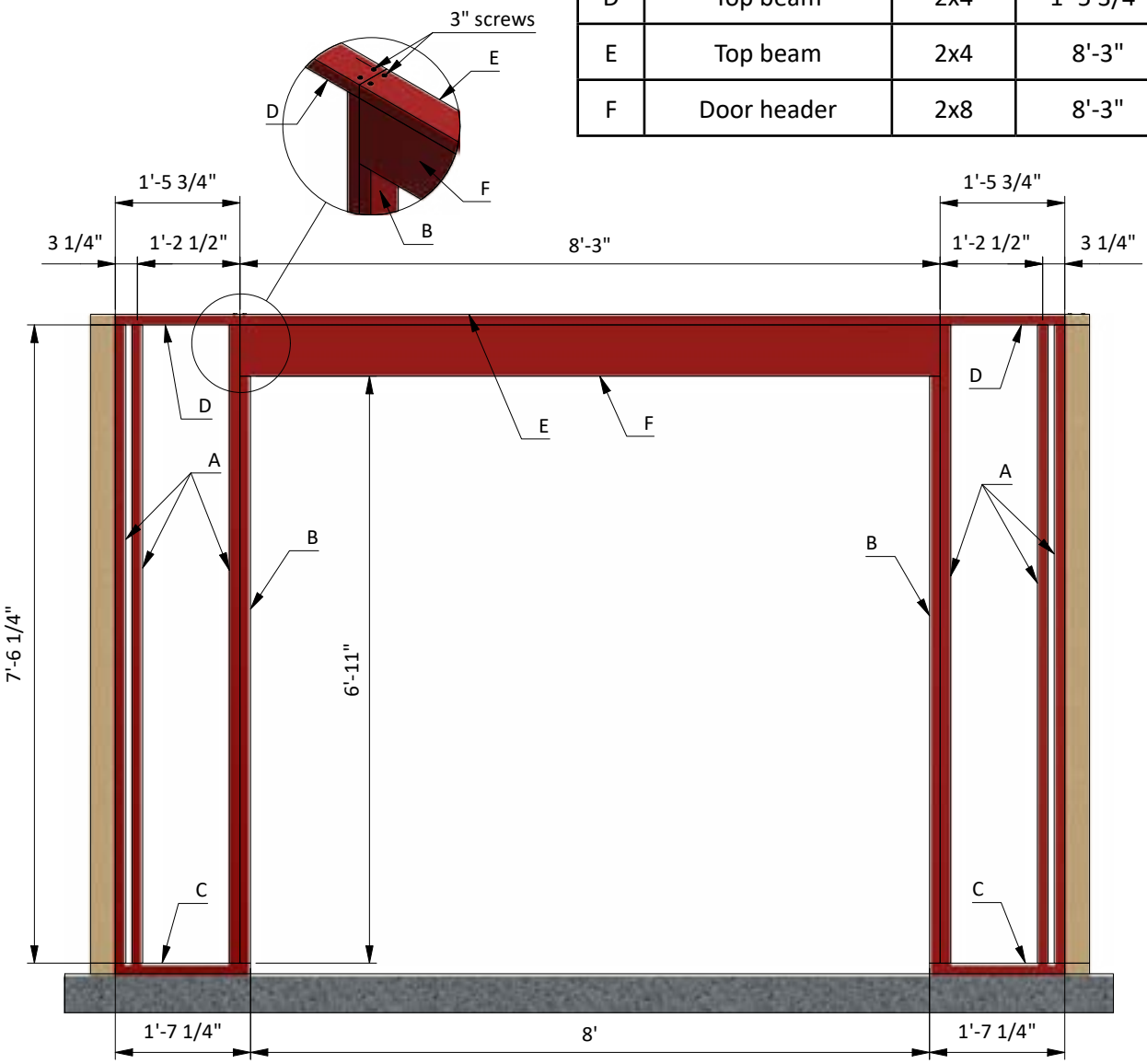
Assemble Left Wall Frame

5.1 Using 2 x 4 and 2 x 8 pressure-treated lumber, construct left wall frame using the drawing below as a reference. You will need six boards cut to 7'-6 1/4" and two boards cut to 6'-11" that will be the studs, two boards cut to 1'-7 1/4" that will be bottom beams, two boards cut to 1'-5 3/4" and one board cut to 8'-3" that will be top beams and two boards cut to 8'-3" that will be door header.

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°.

Pos	Description	Material	Dimension	Qty
A	Stud	2x4	7'-6 1/4"	6
B	Stud	2x4	6'-11"	2
C	Bottom beam	2x4	1'-7 1/4"	2
D	Top beam	2x4	1'-5 3/4"	2
E	Top beam	2x4	8'-3"	1
F	Door header	2x8	8'-3"	2



STEP 6

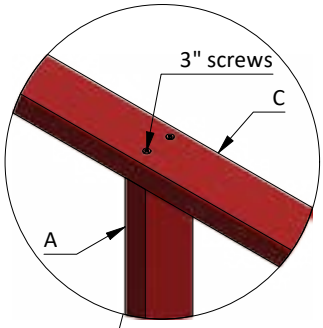
Assemble Right Wall Frame

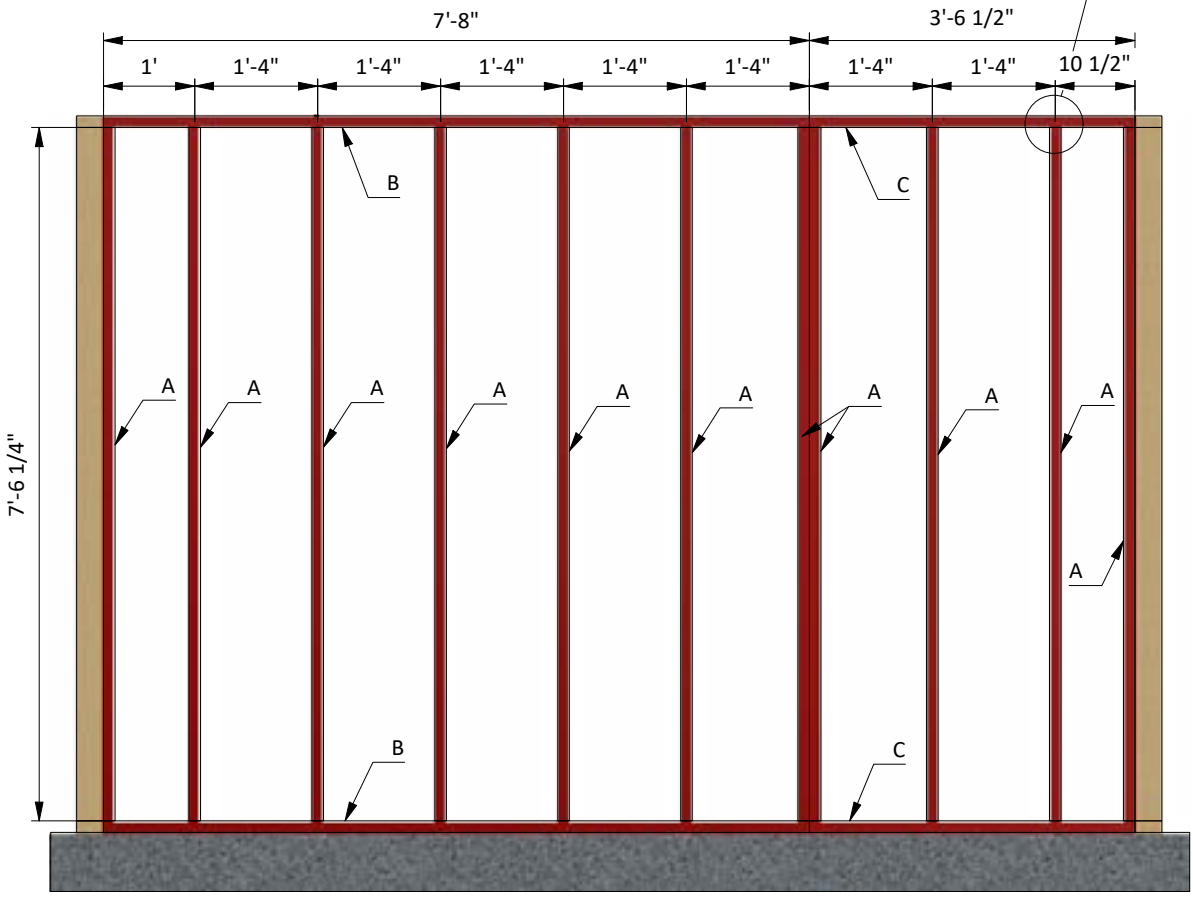
6.1 Using 2 x 4 pressure-treated lumber, construct right wall frame using the drawing below as a reference. You will need eleven boards cut to 7'-6 1/4" that will be the studs, two boards cut to 7'-8" and two boards cut to 3'-6 1/2" that will be the top and bottom beams.

6.2 Connect the beams with 3" wood screws.

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

Pos	Description	Material	Dimension	Qty
A	Stud	2x4	7'-6 1/4"	11
B	Top/bottom beam	2x4	7'-8"	2
C	Top/bottom beam	2x4	3'-6 1/2"	2





STEP 7

Assemble the Roof Frame

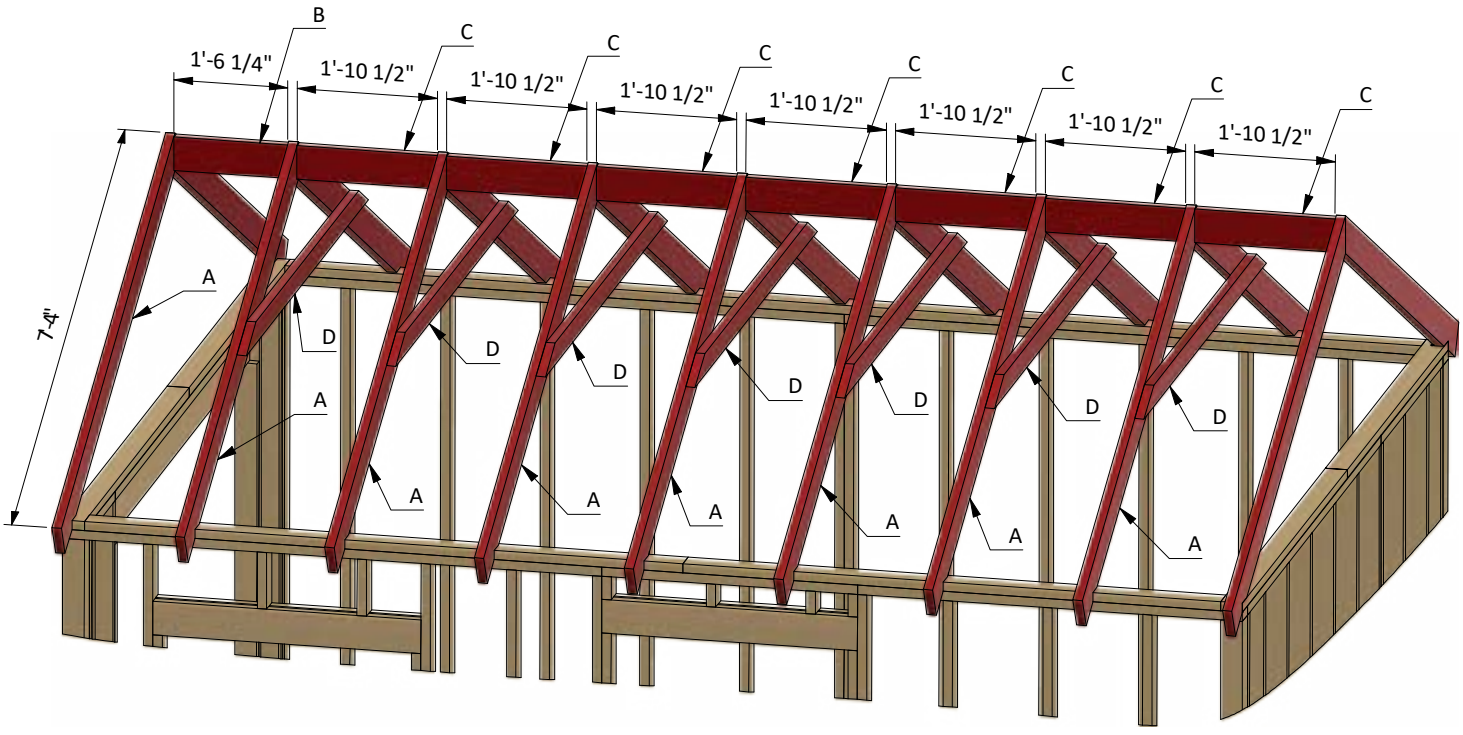
7.1 Using 2 x 6 pressure-treated lumber, cut eighteen rafters 7'-4" long according to the dimensions in drawings below.

7.2 Using 2 x 4 pressure-treated lumber, cut seven collar ties 7' long according to the dimensions in drawings below.

7.3 Using 2 x 6 pressure-treated board, cut one board 1'-6 1/4" long and seven boards cut to 1'-10 1/2" long that will be ridge boards according the illustration below.

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

Pos	Description	Material	Dimension	Qty
A	Rafters	2x6	7'-4"	18
B	Ridge board	2x6	1'-6 1/4"	1
C	Ridge board	2x6	1'-10 1/2"	7
D	Collar tie	2x4	7'	7



STEP 8

Roof Sheathing Installation

8.1 Prepare metal drip edge with 6" width. You will need 66' to cover all the perimeter.

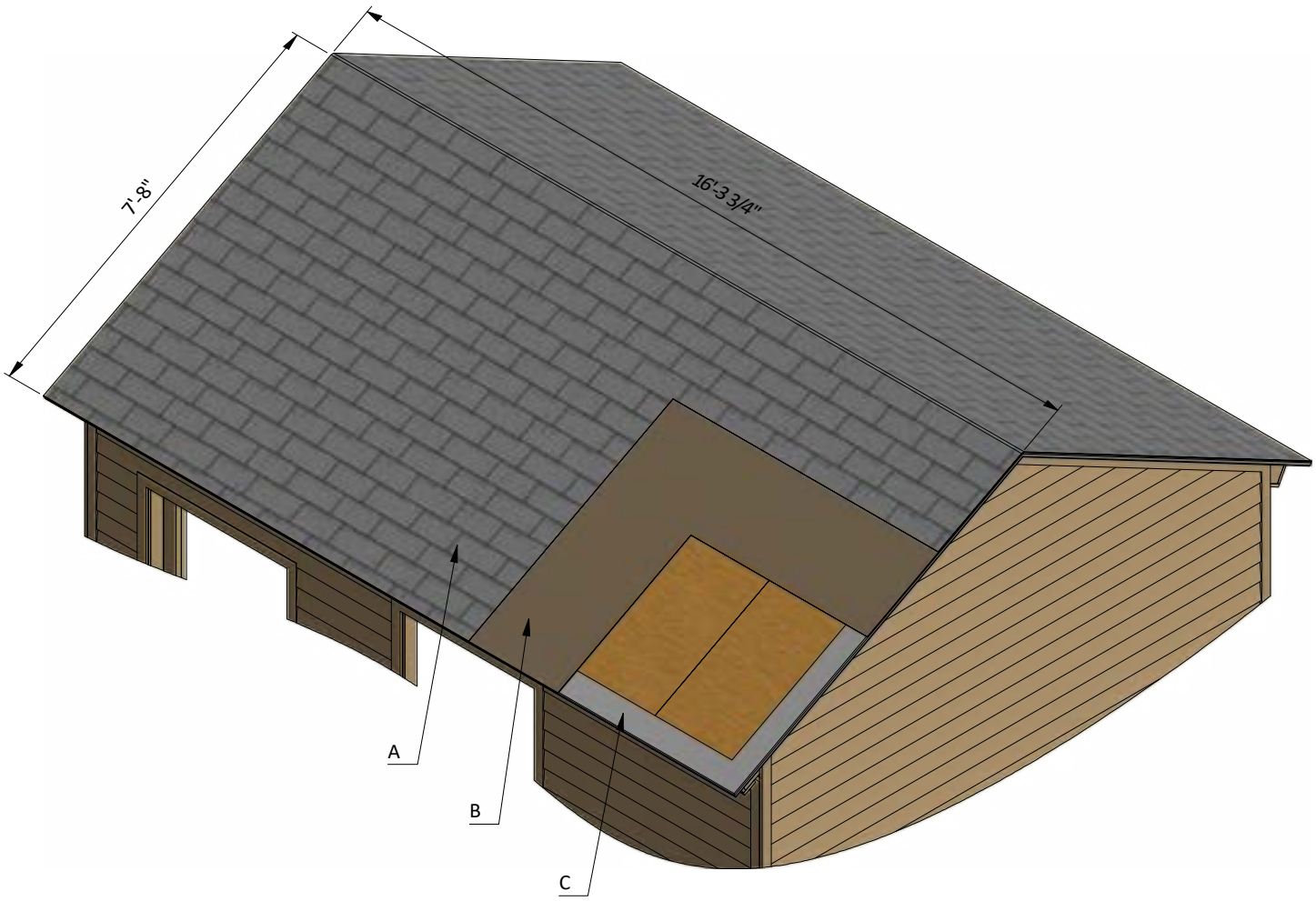
8.2 Place the drip edge down, aligning it to the plywood edge. Use 2" nails to secure the first drip edge. When you place the next drip edge piece, it should overlap the first by an inch.

8.3 You will need 252 Sq Ft of building paper and asphalt shingle roofing.

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

8.5 Install asphalt shingle roofing using an industrial stapler.

Pos	Description	Material	Dimension	Qty
A	Asphalt shingle	-	-	252 sq.ft
B	Building paper	-	-	252 sq.ft
C	Metal drip edge	6"	-	66 ft



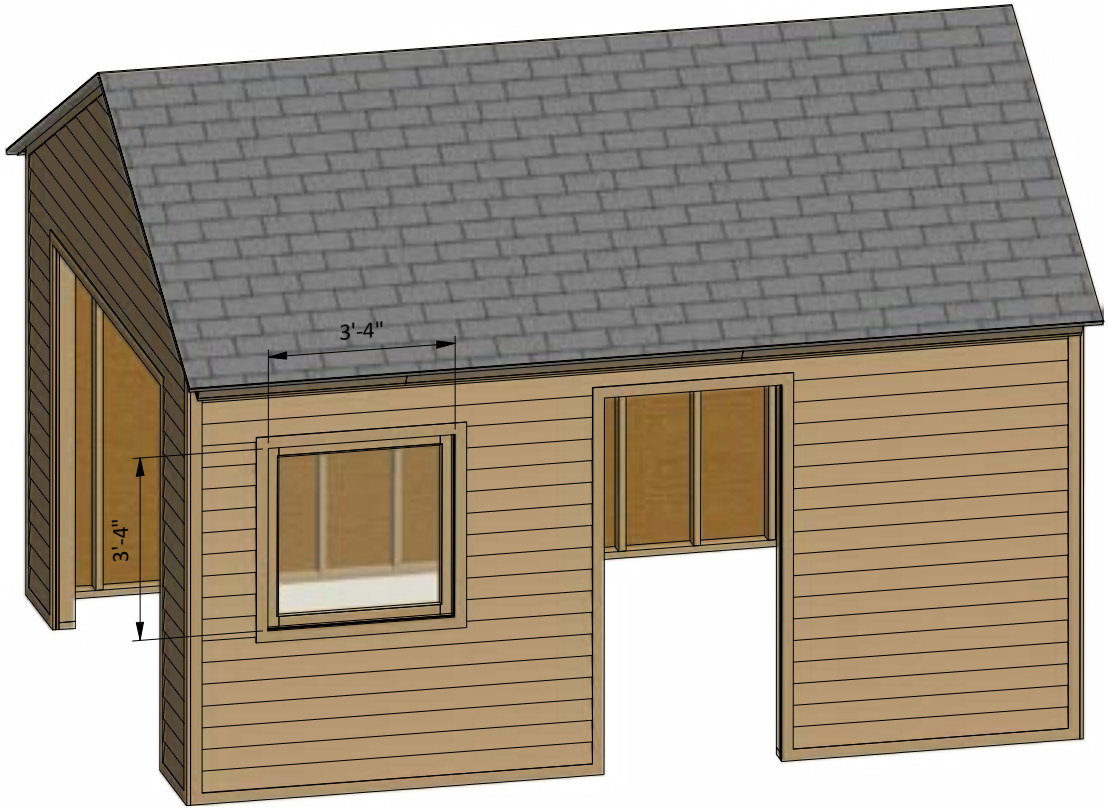
STEP 9

Window Installation for the Front Wall

9.1 Using 2 x 3 pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need four boards cut to 3'-3 1/2" that will be the vertical and horizontal girts. Cut the recesses in each beam for splicing connection and mill a recess for the glass.

9.2 Prepare and install 2'-11 1/4" x 2'-11 1/4" glass into inner frame groove and fasten it by window beading from four sides. Use 1/2" galvanized nails.

9.3 Insert window into side wall openings and connect them with 3" wood screws to the wall beams.



STEP 10

Assemble and Install Shed Door

10.1 Build the door frame for the shed using 2 x 4 pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 6'-10 1/4" that will be the vertical girts, two boards cut to 3'-1 3/4" and one board cut to 2'-6 3/4" that will be the horizontal girts and two boards cut to 3'-11" that will be cross braces.

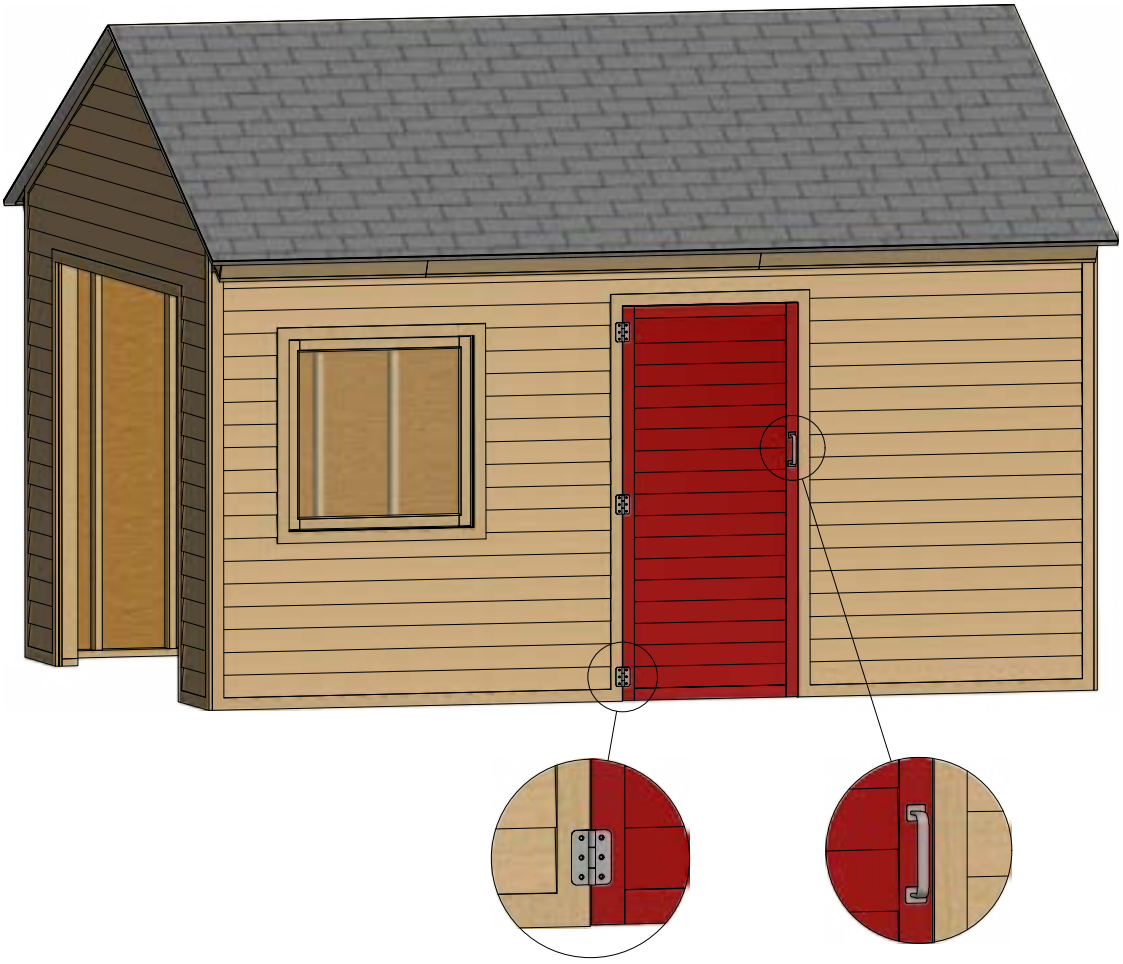
10.2 Prepare the 5/8" plywood sheet with dimensions 3'-1 3/4" x 6'-10 1/4" for the door according to the drawing.

10.3 Use 1 x 3 pressure-treated lumber for the door trim and fasten with 2" wood screws.
You will need two boards cut to 6'-10 1/4" and two boards cut to 2'-8 3/4".

10.4 To prepare starter course, cut one 3/4" wide strip 2'-8 3/4" long from the top edge of the siding board. Install it according to the node D on page 31 to hold the bottom of the first siding board away from the wall.

10.5 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.

10.6 Install three 4" door hinges using 6x1" wood screws.
Finish the doors installation by attaching 6" door pull.



STEP 11

Assemble and Install Lifting Garage Door

11.1 As an alternative to a simple swing gate, you can install a lifting garage door. Before ordering, make sure that the width of the opening corresponds to the width of the gate

11.2 Install all elements of the gate according to the instructions with self-tapping screws to the beams of the walls and roof.

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	33
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	✗	✓

BUY NOW

For more great **HOW-TO** plans please visit: **https://shedplans.org**