ShedPlans®
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Free 24'x24' Garage 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	11	18
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	✗	✓

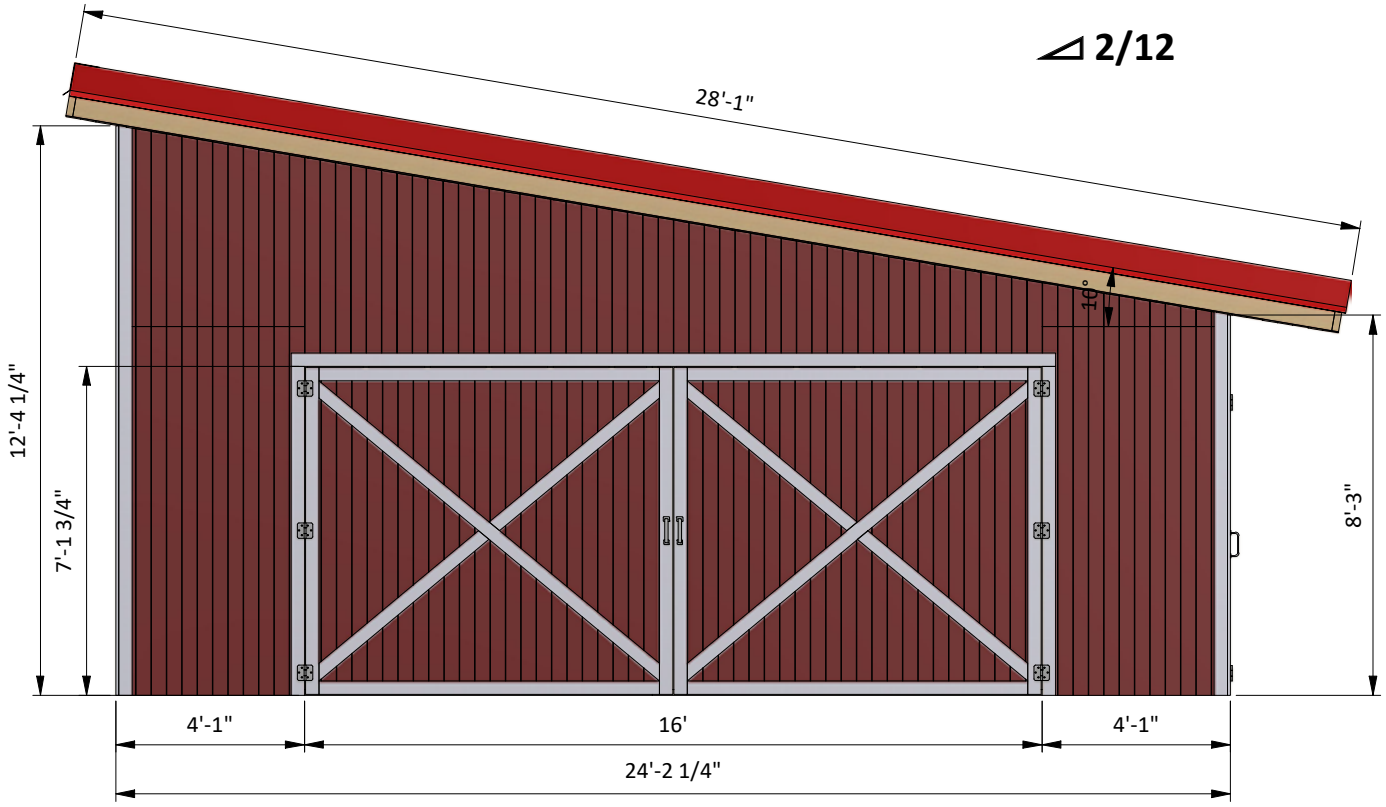
BUY NOW

24'x24' Garage shopping list

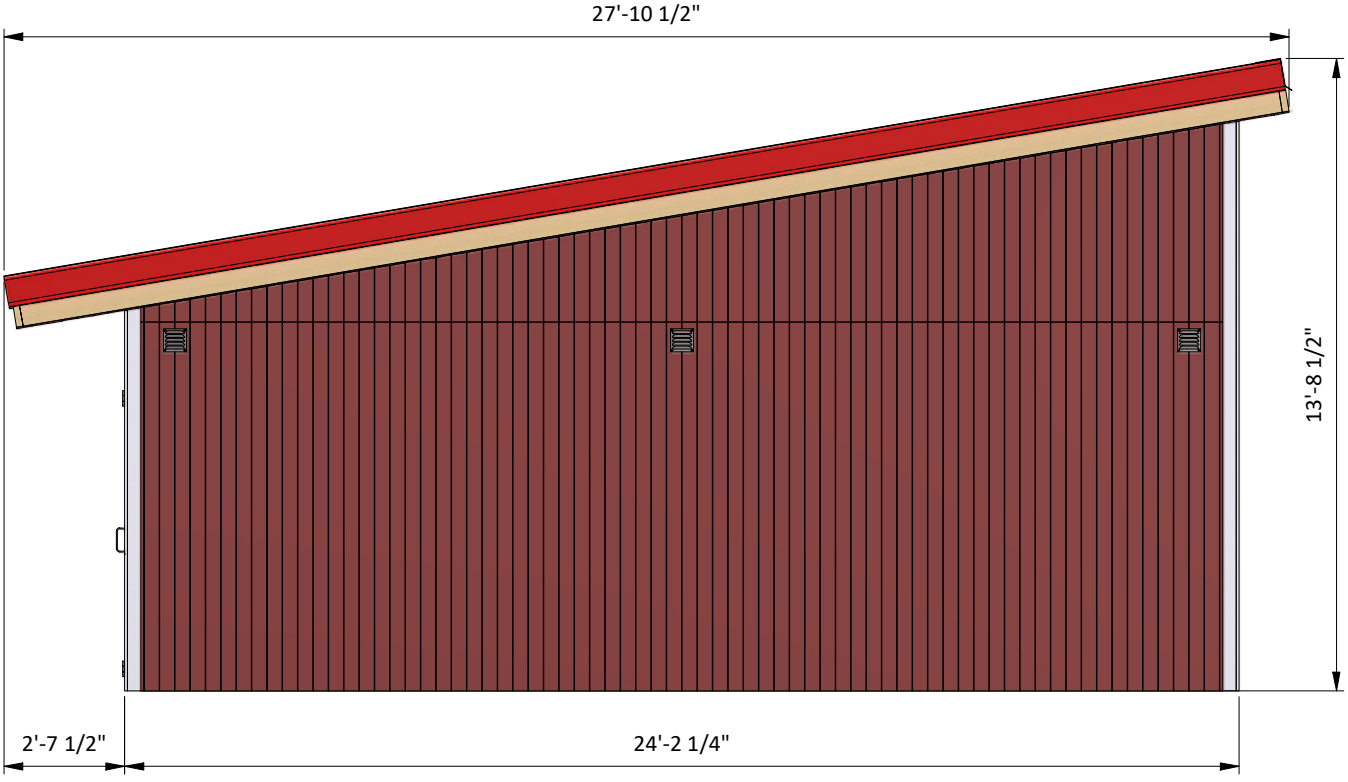
Item	Unit	Qty	Size
Lumber (1 x 4)	pcs	33	8'
Lumber (1 x 4)	pcs	2	10'
Lumber (2 x 2)	pcs	2	6'
Lumber (2 x 4)	pcs	4	8'
Lumber (2 x 6)	pcs	110	8'
Lumber (2 x 6)	pcs	4	10'
Lumber (2 x 6)	pcs	33	12'

Size & Dimensions

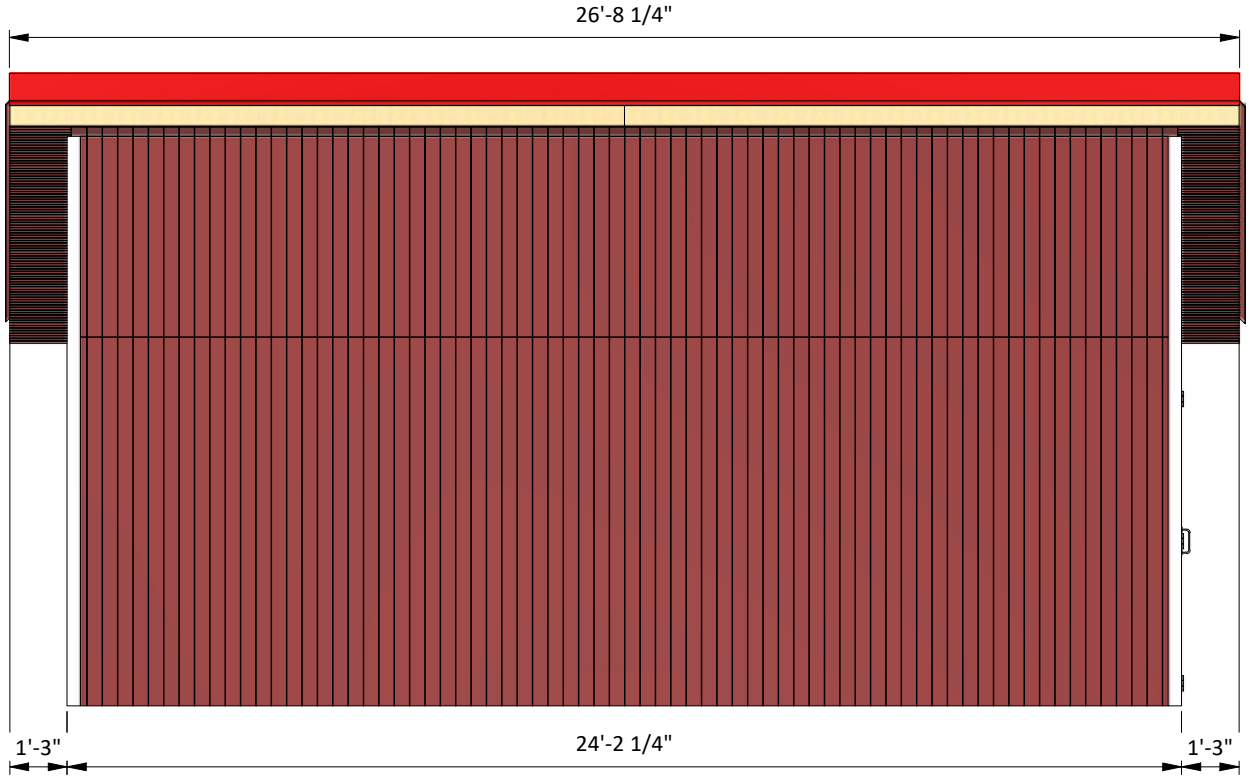
front



back



right



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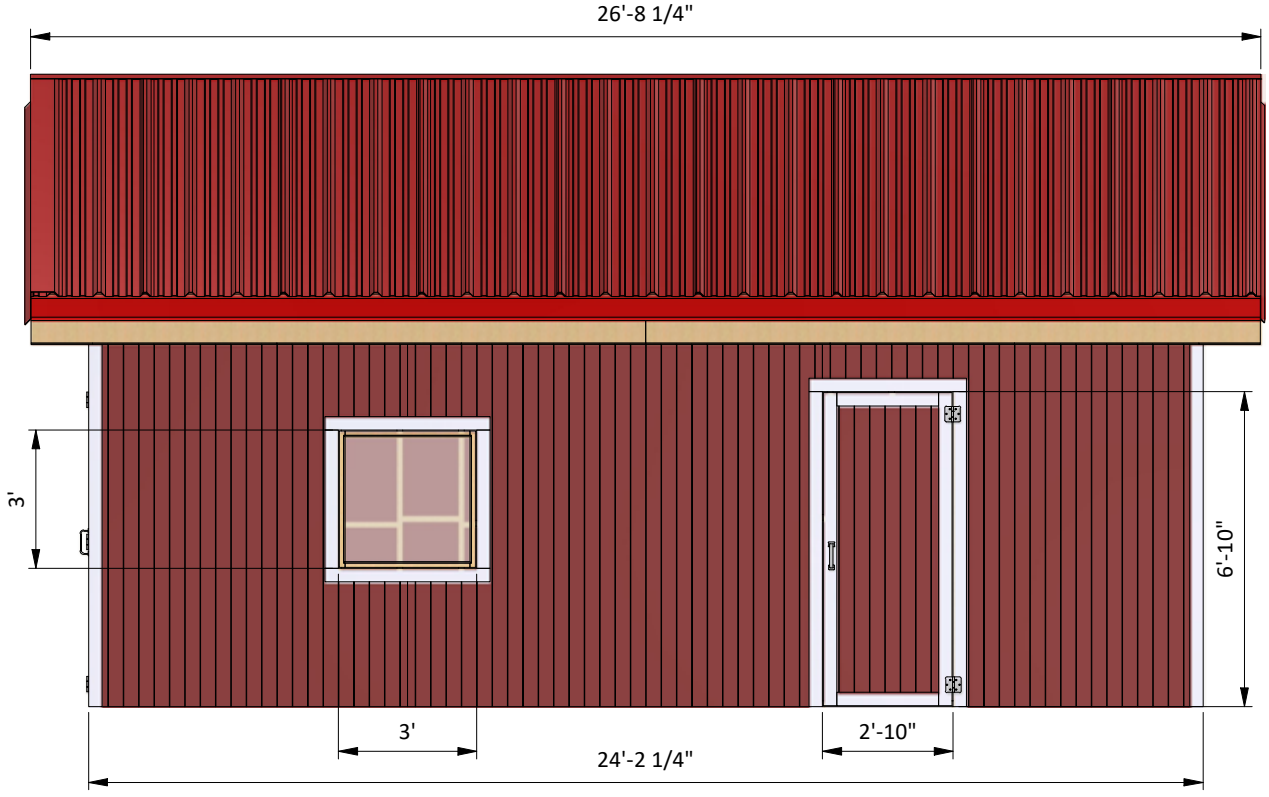


Exterior view

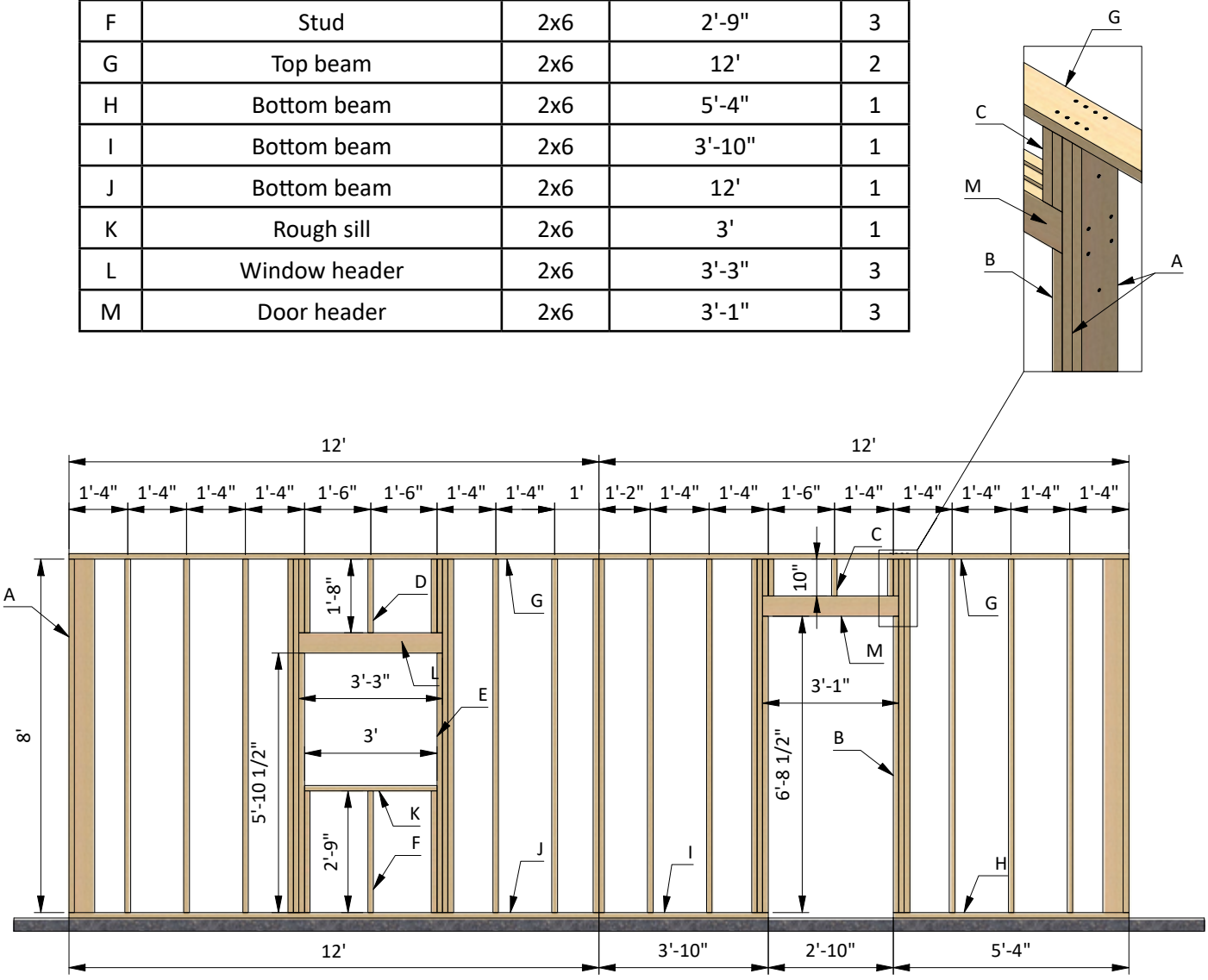
STEP 1

Assemble Right Wall Frame

1.1 Using 2x6 lumber, construct right wall frame using the drawing below as a reference.
It is divided into two parts for easy assembly. You will need to prepare beams in necessary quantity according to the cutting list below.

1.2 Connect the beams with 3" wood screws.

Pos	Description	Material	Dimension	Qty
A	Stud	2x6	8'	24
B	Stud	2x6	6'-8 1/2"	2
C	Cripple stud	2x6	10"	3
D	Cripple stud	2x6	1'-8"	5
E	Stud	2x6	5'-10 1/2"	2
F	Stud	2x6	2'-9"	3
G	Top beam	2x6	12'	2
H	Bottom beam	2x6	5'-4"	1
I	Bottom beam	2x6	3'-10"	1
J	Bottom beam	2x6	12'	1
K	Rough sill	2x6	3'	1
L	Window header	2x6	3'-3"	3
M	Door header	2x6	3'-1"	3



STEP 2

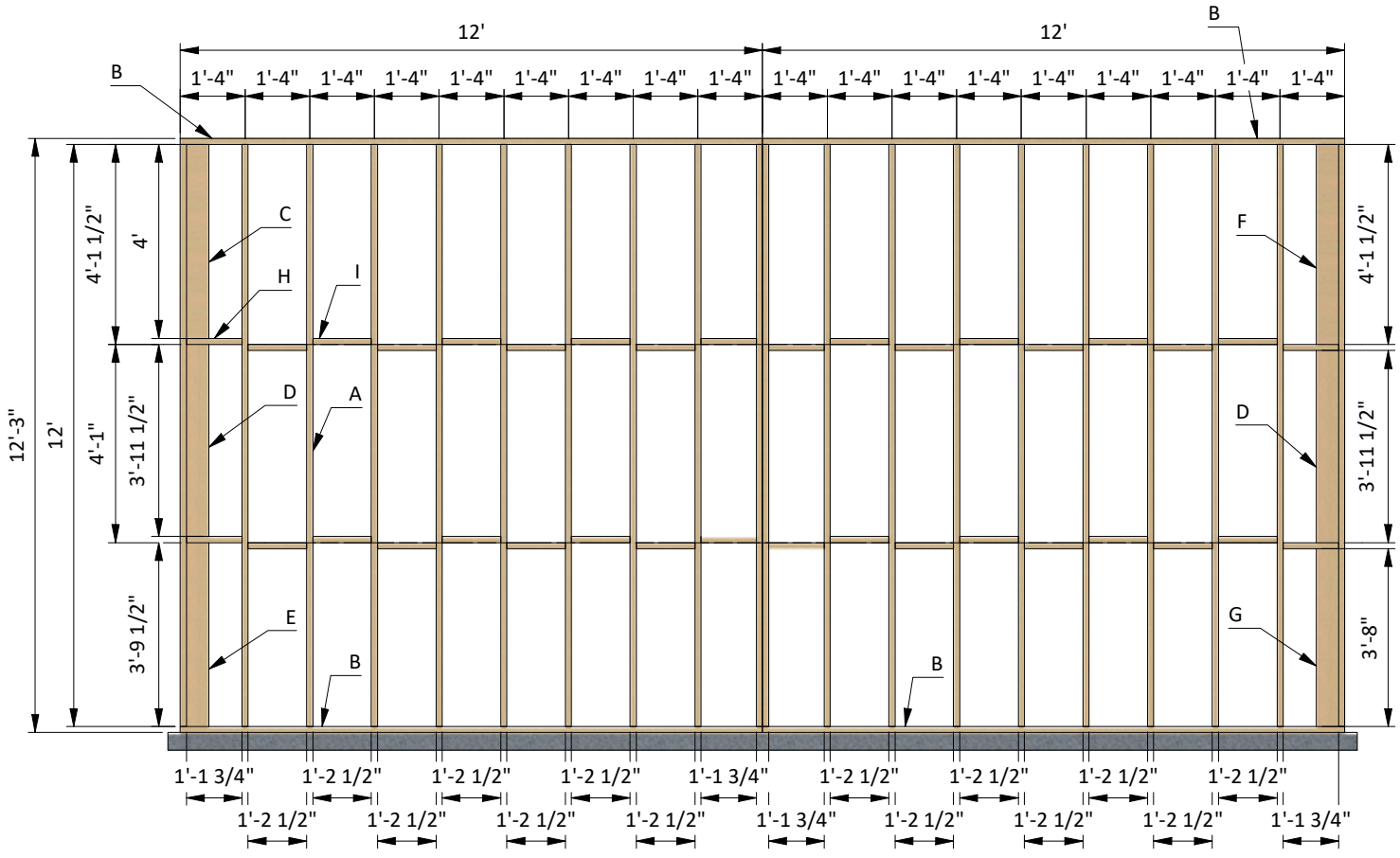
Assemble Left Wall Frame

2.1 Using 2x6 lumber, construct left wall frame using the drawing below as a reference. You will need to prepare beams in necessary quantity according to the cutting list below.

2.2 Connect the beams with 3" wood screws.

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

Pos	Description	Material	Dimension	Qty
A	Stud	2x6	12'	20
B	Top/bottom beam	2x6	12'	4
C	Stud	2x6	4'	1
D	Stud	2x6	3'-11 1/2"	2
E	Stud	2x6	3'-9 1/2"	1
F	Stud	2x6	4'-1 1/2"	1
G	Stud	2x6	3'-8"	1
H	Blocking	2x6	1'-1 3/4"	8
I	Blocking	2x6	1'-2 1/2"	28



STEP 3

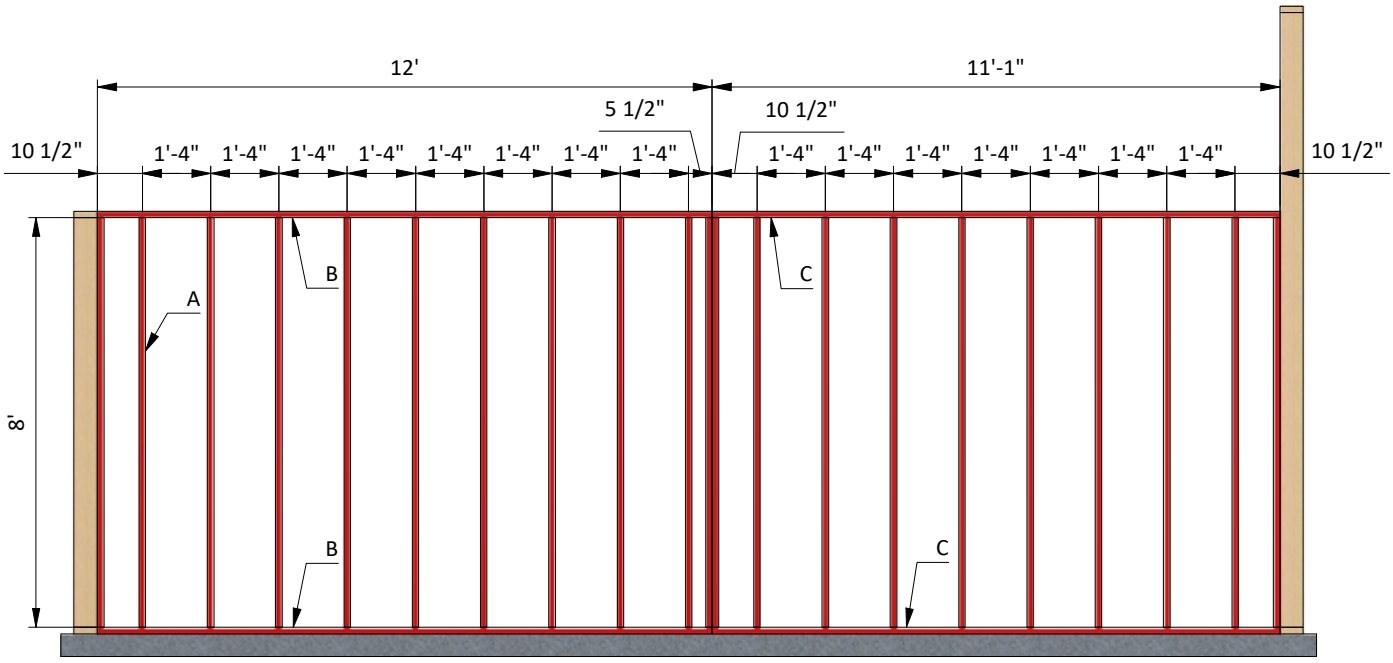
Assemble Back Wall Frame

3.1 Using 2x6 lumber, construct back wall frame using the drawing below as a reference. You will need to prepare beams in necessary quantity according to the cutting list below.

3.2 Connect the beams with 3" wood screws.

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

Pos	Description	Material	Dimension	Qty
A	Stud	2x6	8'	21
B	Top/bottom beam	2x6	12'	2
C	Top/bottom beam	2x6	11'-1"	2



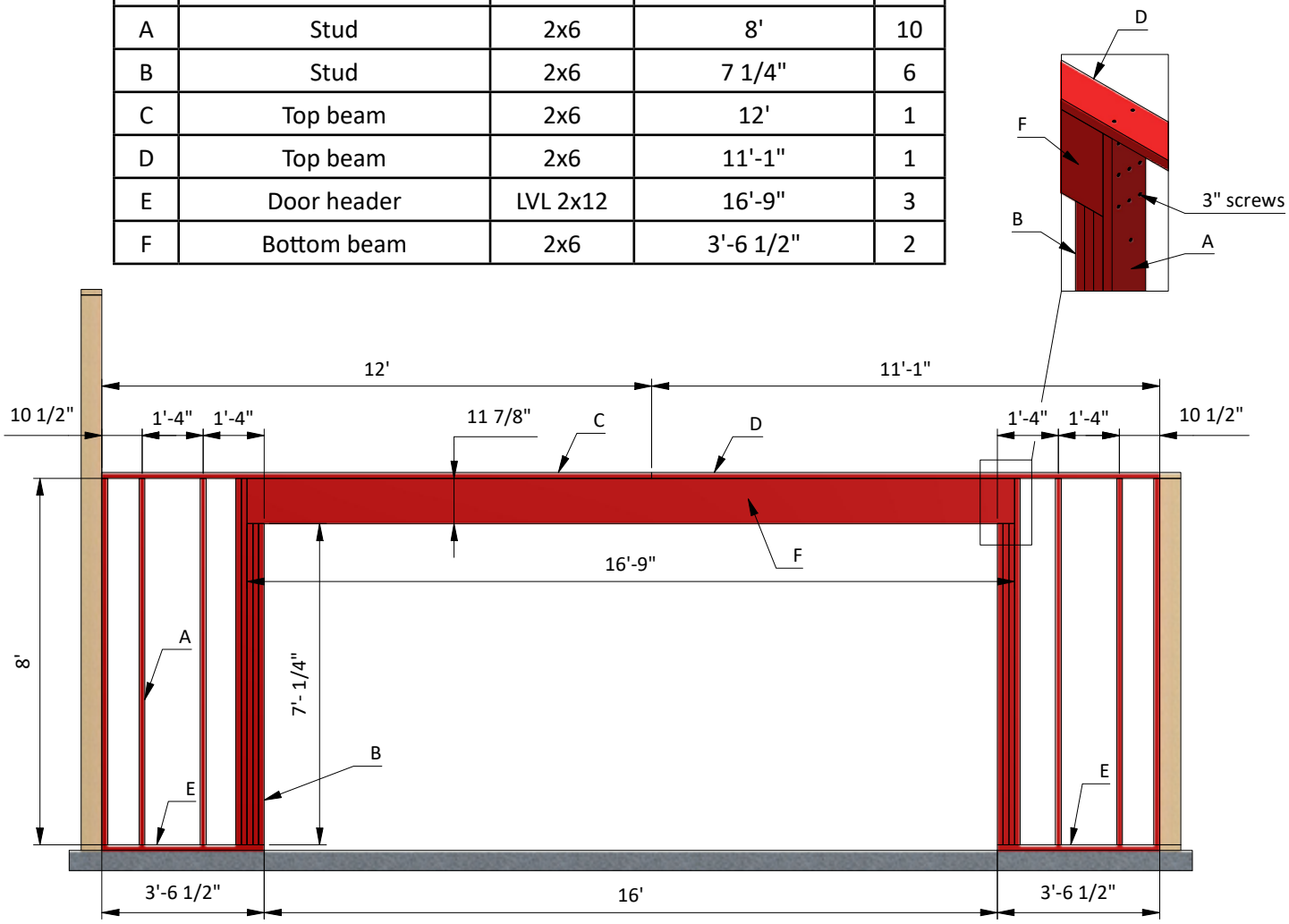
STEP 4

Assemble Front Wall Frame

4.1 Using LVL 2x12 and 2x6 lumber, construct front wall frame using the drawing below as a reference. You will need to prepare beams in necessary quantity according to the cutting list below.

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

Pos	Description	Material	Dimension	Qty
A	Stud	2x6	8'	10
B	Stud	2x6	7 1/4"	6
C	Top beam	2x6	12'	1
D	Top beam	2x6	11'-1"	1
E	Door header	LVL 2x12	16'-9"	3
F	Bottom beam	2x6	3'-6 1/2"	2



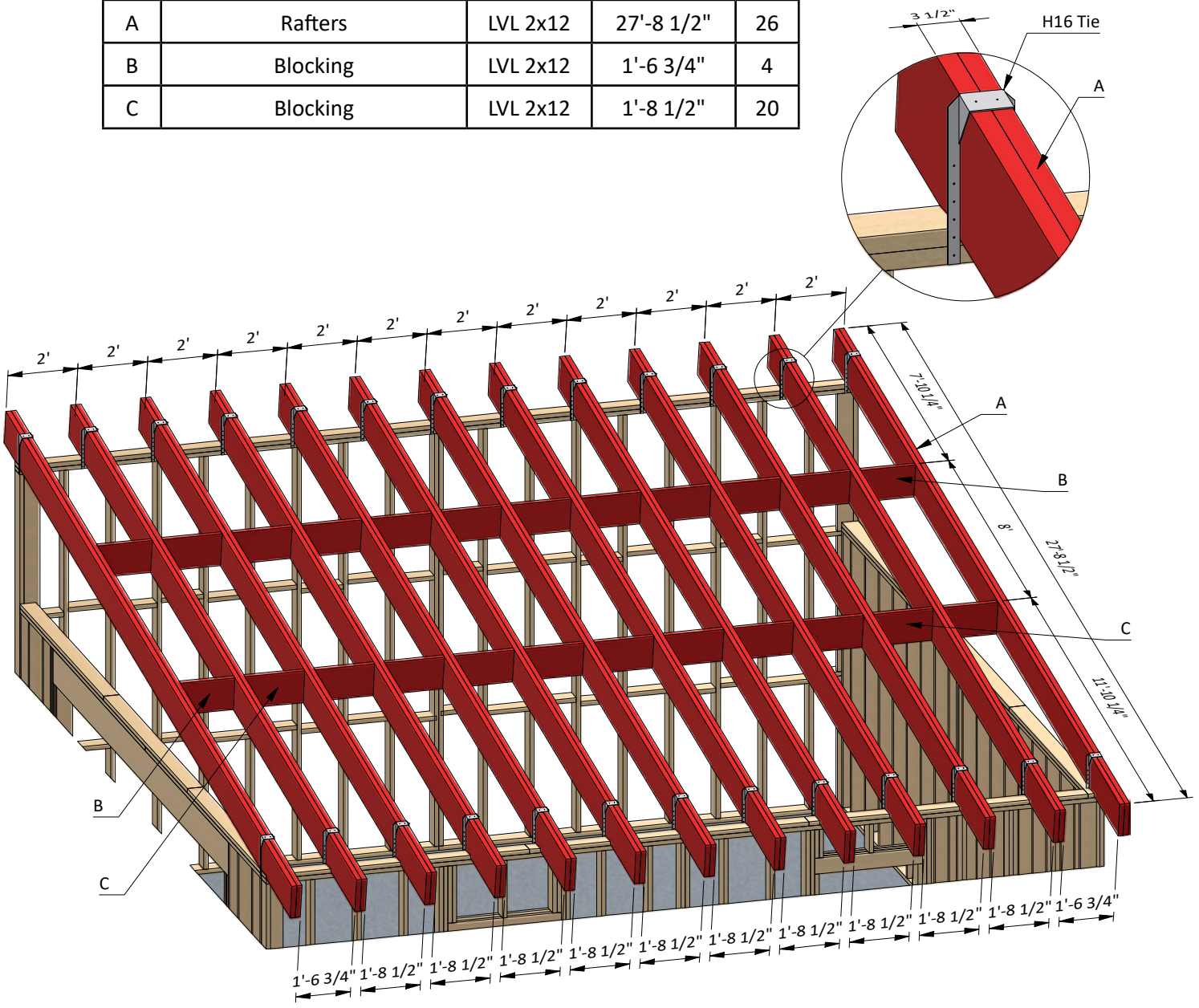
STEP 5

Assemble the Roof Frame

5.1 Using LVL 2x12 beams prepare rafters according to the drawing and cutting list below. Connect rafters with blocking boards.

5.2 Fix the rafters to the top beams with H16 Tie.

Pos	Description	Material	Dimension	Qty
A	Rafters	LVL 2x12	27'-8 1/2"	26
B	Blocking	LVL 2x12	1'-6 3/4"	4
C	Blocking	LVL 2x12	1'-8 1/2"	20



STEP 6

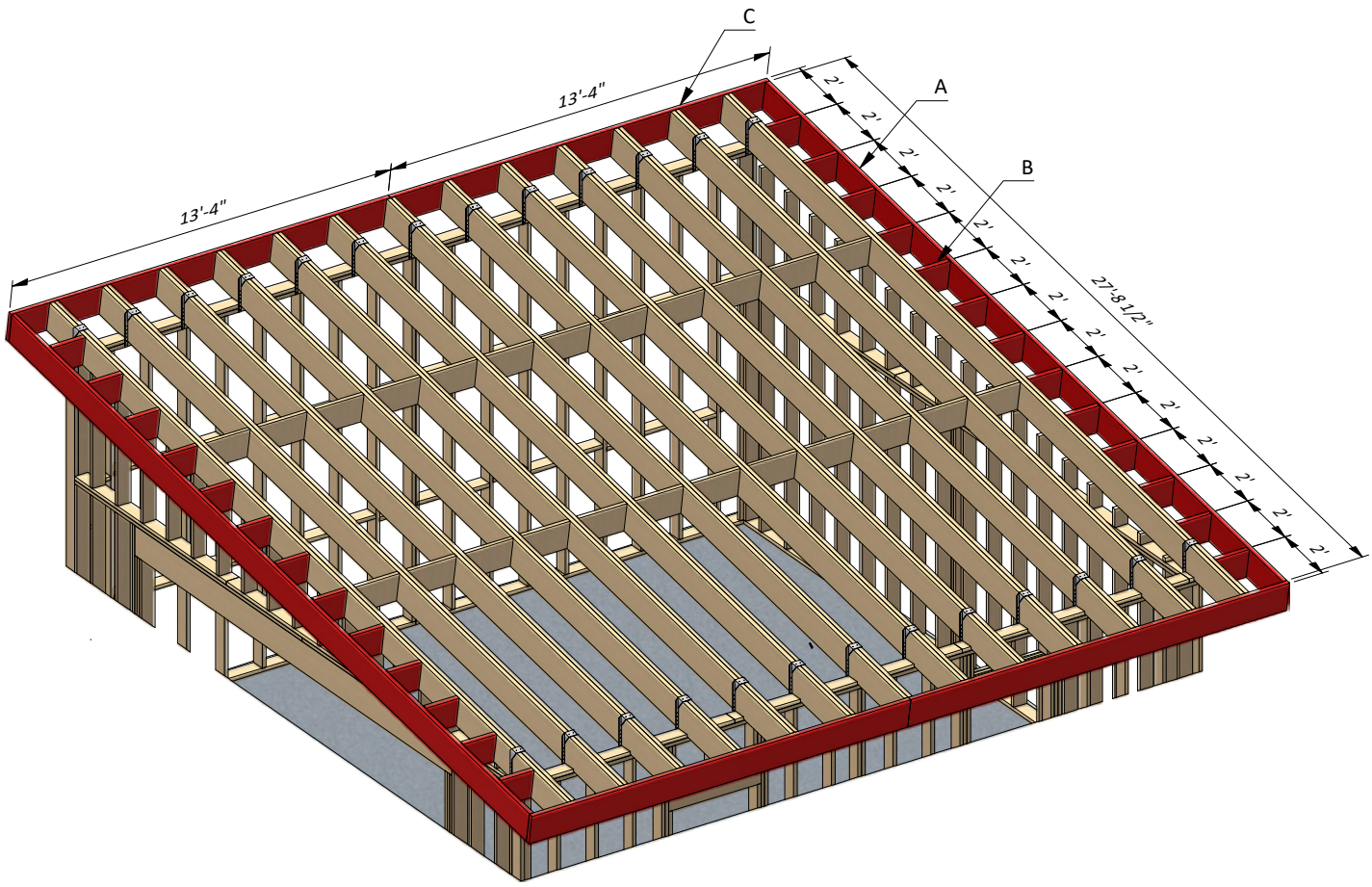
Assemble the Roof Overhang

You will need to assemble overhangs for the front and back walls

6.1 Using LVL 2x12 beams, prepare gable overhang rafters, lookouts for the front and rear walls.
Fix them to the walls with the help of 3" and 5" screws.

6.2 Using LVL 2x12 beams, prepare fascias for left and right walls.
Fix them to the rafters with the help of 3" screws.

Pos	Description	Material	Dimension	Qty
A	Overhang rafters	LVL 2x12	27'-8 1/2"	2
B	Lookout	LVL 2x12	1'-2 1/4"	26
C	Fascia	LVL 2x12	13'-4"	4



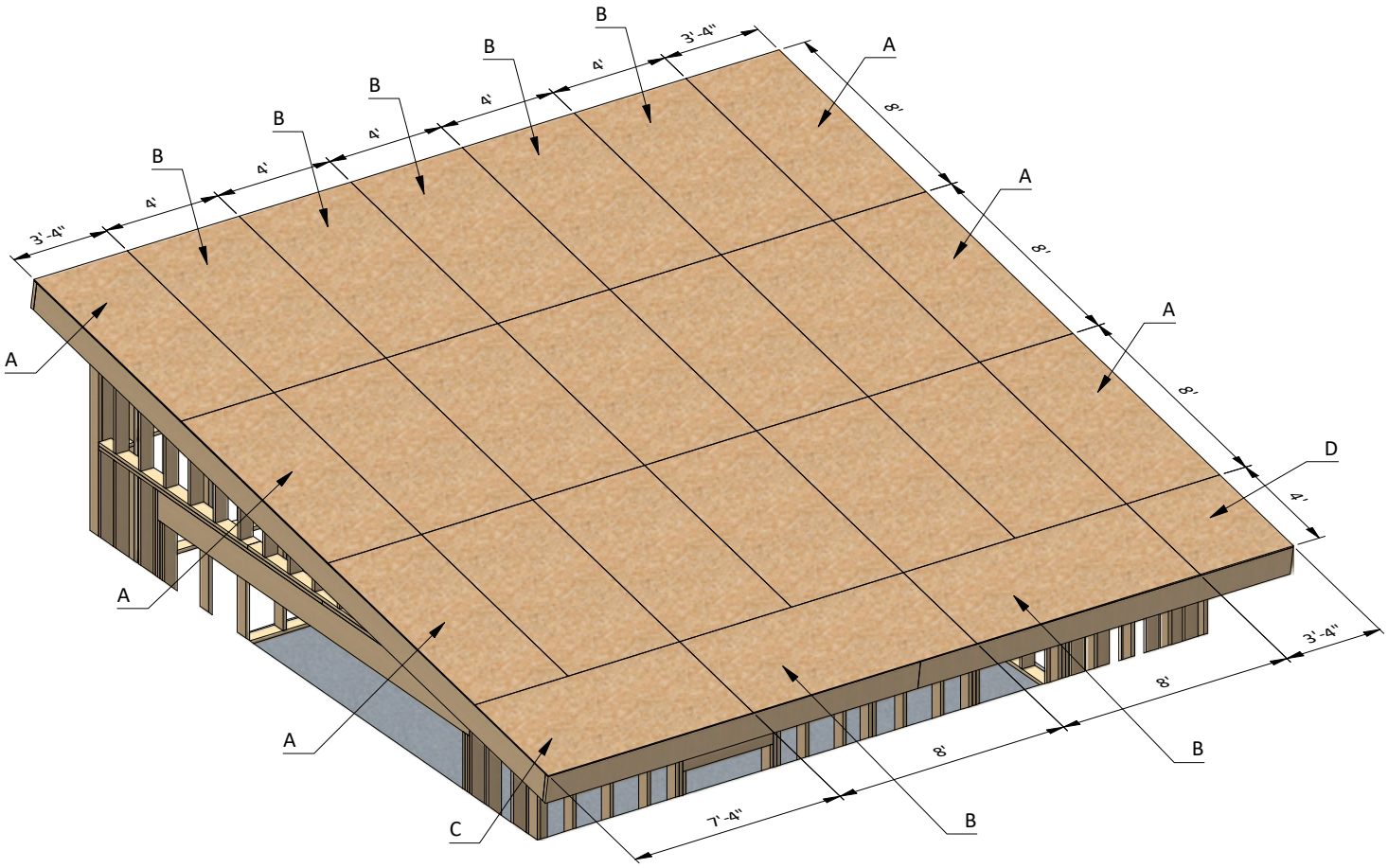
STEP 7

Install OSB for the Roof

7.1 Cut sheets of 1/2" OSB for the roof sheathing using the drawing below as a guide. You will need to prepare sheets in necessary quantity according to the cutting list below.

7.2 Secure the OSB with 2" wood screws.

Pos	Description	Material	Dimension	Qty
A	Roof sheathing	1/2" OSB	3'-4" x 8'	6
B	Roof sheathing	1/2" OSB	4' x 8'	17
C	Roof sheathing	1/2" OSB	4' x 7'-4"	1
D	Roof sheathing	1/2" OSB	3'-4" x 4'	1



STEP 8

Assemble and Install Garage Front Door

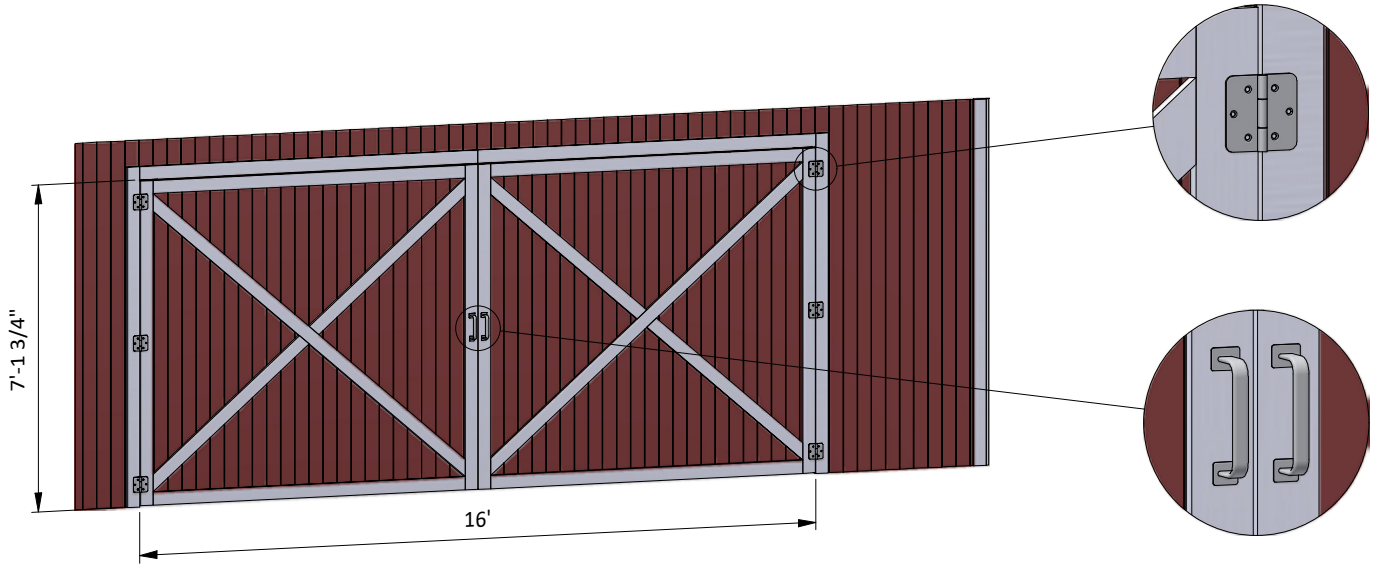
8.1 Build the door frame using 2x6 lumber. For each half-gate you will need two boards cut to 7'-1 1/4" that will be the vertical girts, two boards cut to 7'-11 3/4" that will be the horizontal girts and two boards cut to 9'-4 1/4" that will be the cross braces.

8.2 Prepare the 11/32" plywood siding for outer sheathing. You will need to cut one 3'-11 3/4" x 7'-1 1/4" sheet and one 4' x 7'-1 1/4" for the door according to the drawing.

8.3 Using 1x4 lumber, prepare trims and install with 2" wood screws to the walls.
You will need to prepare boards in necessary quantity according to the cutting list below.

8.4 Install six 4" door hinges using 1" wood screws .
Finish the door installation by attaching two 6" door pulls.

Pos	Description	Material	Dimension	Qty
A	Girt	2x6	7'-1 1/4"	4
B	Girt	2x6	7'-11 3/4"	4
C	Cross brace	2x6	9'-4 1/4"	4
D	Door sheathing	11/32" plywood	3'-11 3/4" x 7'-1 1/4"	2
E	Door sheathing	11/32" plywood	4' x 7'-1 1/4"	2
F	Door trim	1x4	7'-1 1/4"	4
G	Door trim	1x4	7'-4 3/4"	4
H	Door trim	1x4	9'-10"	2
I	Door trim	1x4	4'-9 1/2"	4



STEP 9

Assemble and Install Garage Side Door

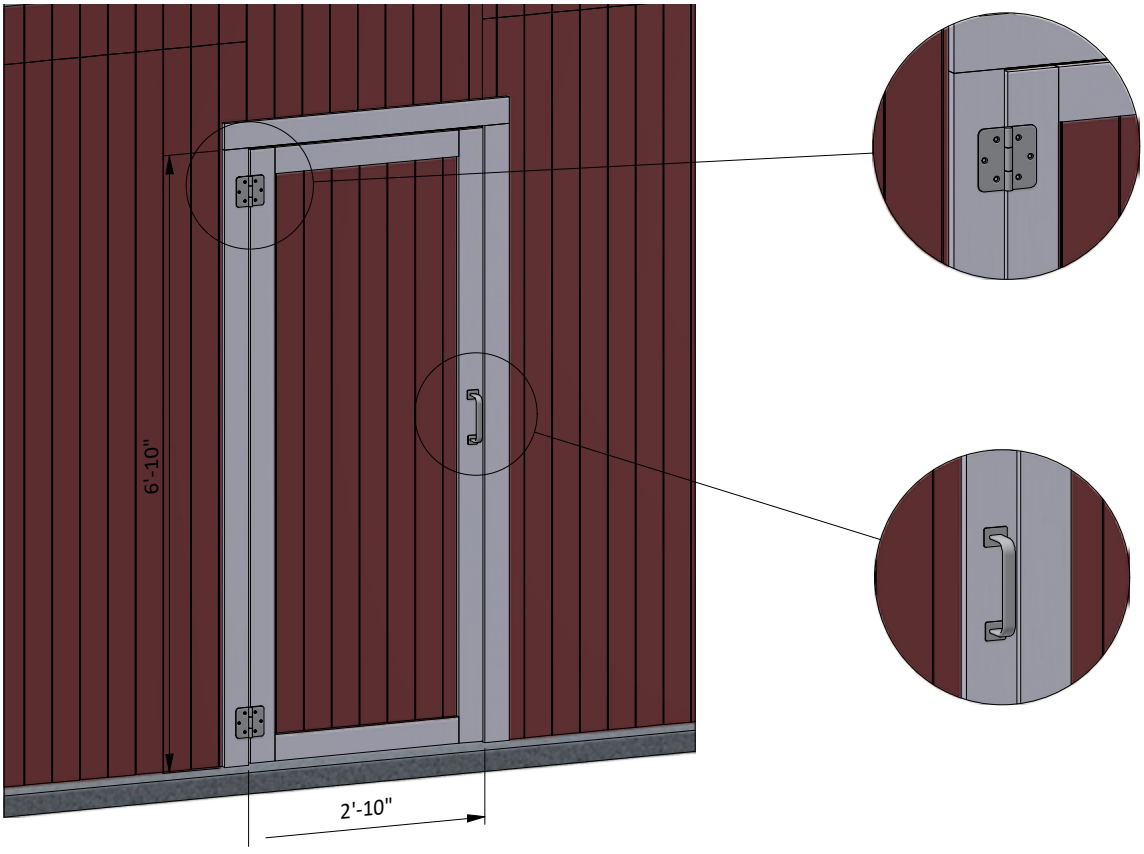
9.1 Build the door frame using 2x4 lumber. You will need two boards cut to 6'-9 1/2" that will be the vertical girts, two boards cut to 2'-2 1/2" that will be the horizontal girts and one board cut to 6'-7" that will be the cross brace.

9.2 Prepare the 11/32" plywood siding for outer sheathing.
You will need to cut one 2'-9 1/2" x 6'-9 1/2" sheet for the door according to the drawing.

9.3 Using 1x4 lumber, prepare trims and install with 2" wood screws to the walls.
You will need to prepare boards in necessary quantity according to the cutting list below

9.4 Install two 4" door hinges using 1" wood screws.
Finish the door installation by attaching two 6" door pull.

Pos	Description	Material	Dimension	Qty
A	Girt	2x4	6'-9 1/2"	2
B	Girt	2x4	2'-2 1/2"	2
C	Cross brace	2x4	6'-7"	1
D	Door sheathing	11/32" plywood	2'-9 1/2" x 6'-9 1/2"	1
E	Door trim	1x4	2'-2 1/2"	2
F	Door trim	1x4	6'-9 1/2"	2



STEP 10

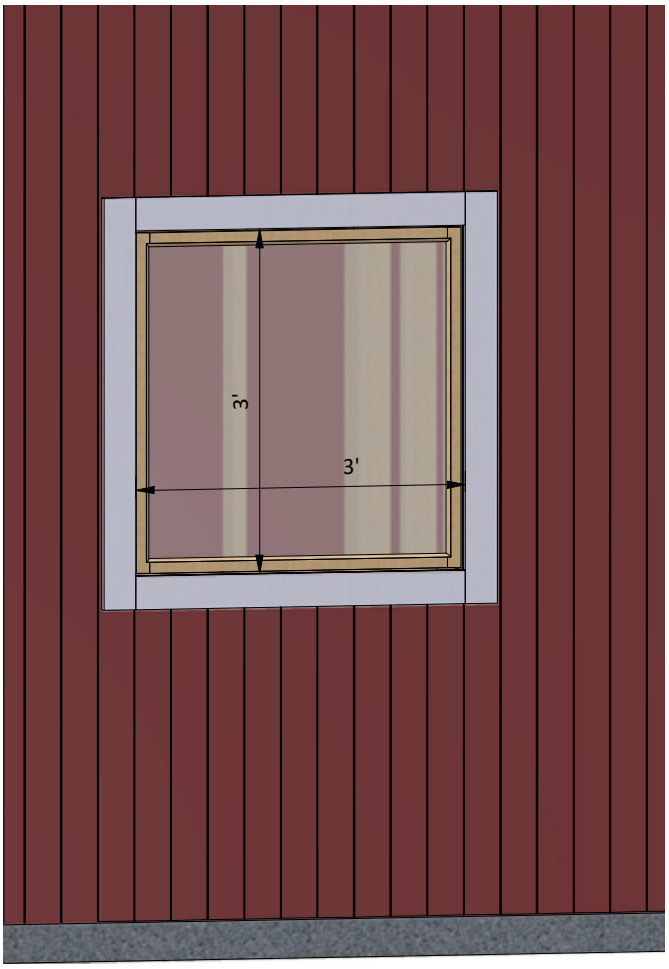
Window Installation for the Right Wall

10.1 Using 2x2 lumber, assemble the outer frame for the window as shown in the drawing below. You will need four boards cut to 2'-11 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.

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

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

Pos	Description	Material	Dimension	Qty
A	Vertical girts	2x2	2'-11 1/2"	2
B	Top/bottom beam	2x2	2'-11 1/2"	2
C	Glass	1/8"	2'-9 1/4" x 2'-9 1/4"	1
D	Window beading			12ft



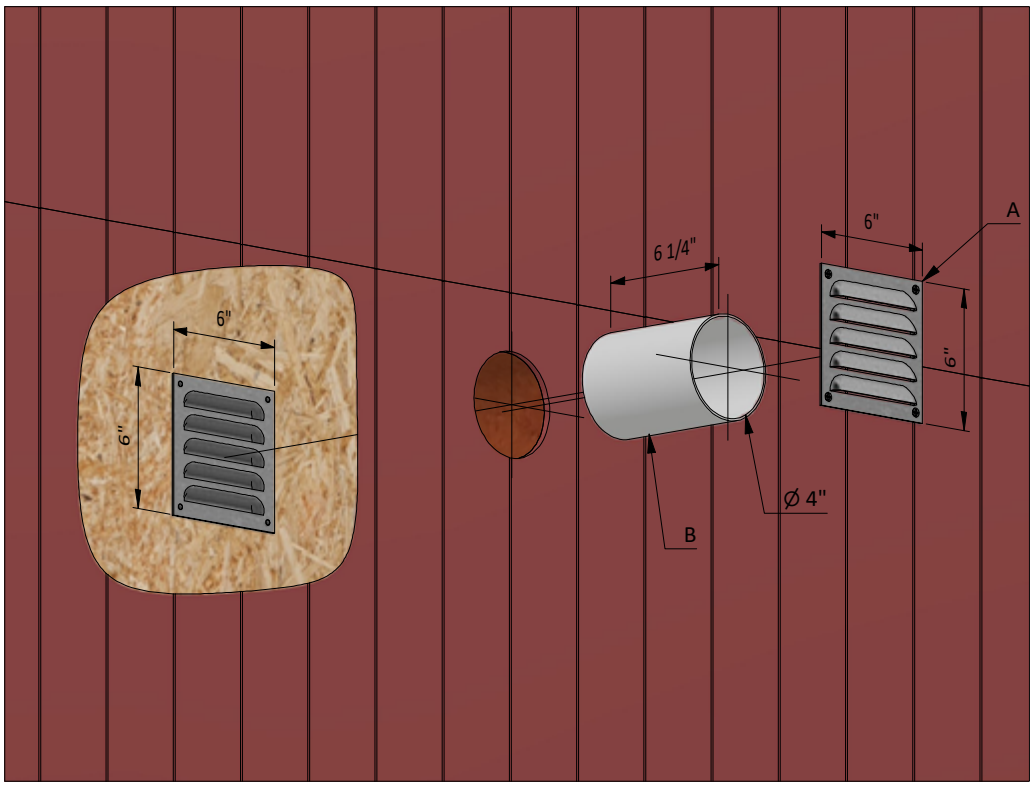
STEP 3A

Install the Ventilation Louver

3A.1 Insert the 4" ventilation pipe to isolate the inner space between walls.

3A.2 Fix the louvers to the outer and inner walls, completely overlaying the opening.

Pos	Description	Material	Dimension	Qty
A	Ventilation louver	26 Gauge galvanized steel	6" x 6"	6
B	Ventilation pipe	4" pipe	4 1/4"	3



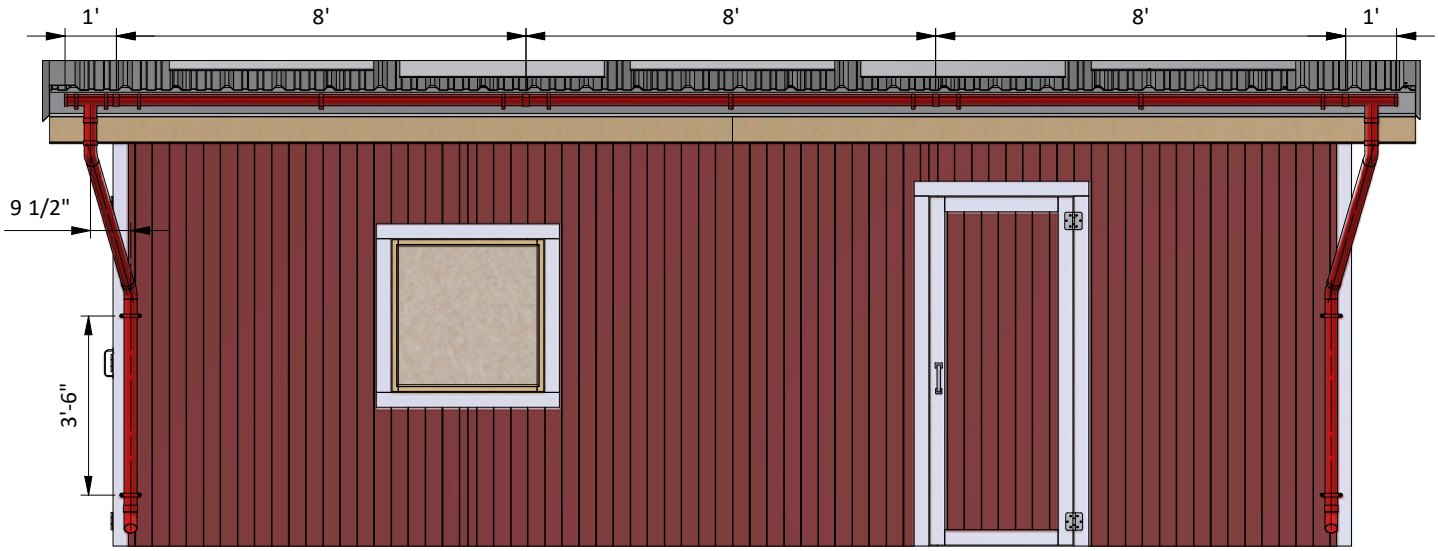
STEP 4A

Assemble and Install Roof Drainage System

4A.1 Assemble roof drainage system on the front fascia board. You will need three half round gutters, two end pieces with the outlet, six 45° elbows, two 3" pipes 6' long, four joint connectors and two end caps.

4A.2 Fasten the round gutter to the fascia with the round hungers.

4A.3 Fasten the vertical pipe section with the four wall fasteners.



STEP 11

Final Touches

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