



Assembly Book

Revised February 6, 2026



Handcrafted Homestead No Loft - 12' x 20'

Manufactured by RBS Holdings, LLC
205 Arlington Drive Greenville, PA 16125

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IMPORTANT INFORMATION ABOUT YOUR KIT

Thank you for purchasing our kit. Please read the following information before beginning construction. Always check with your local HOA or building code office for any requirements or restrictions.

Floor: Wood flooring is sold optionally. You may choose to build your own or pour a cement pad.

Always wear safety glasses when cutting or nailing!

Tools Required: Hand or Circular Saw
Cordless Drill
Hammer
Pencil

Level
Measuring Tape
6'-8' Ladder(s)

Safety Glasses
Dust Mask
Phillips Screwdriver
Framing Square

Additional Materials - **Not included in kit:**

Windows are purchased separately

Required: Shingles or metal roofing, Drip Edge, Roofing Nails or Screws, Paint

Optional: Caulk, Ridge Vent

Terminology:

Square - Confirm corners are at 90 degrees

Plumb - Confirm walls and trusses are straight vertically

Wall Plate - Top and bottom 2x4s used to frame walls

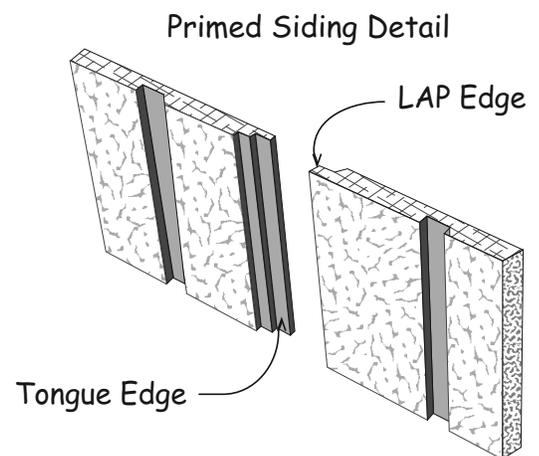
Tie Plate - 2x4s connecting wall sections together

Header - Spans top of door opening

OSB - Oriented Strand Board

LAP - Edge of siding that overlaps

Tongue - Edge of siding that is overlapped



Organize:

Unpack all items & organize according to size and type. This will make items easier to find when instructed.

Review the parts list on the back page. Should there be missing items or sub-par material contact Best Barns Customer Service.

DO NOT discard any material including the pallet until your project is complete.

Assembly:

Review all instructions before you begin. Please follow steps carefully and in sequence for successful results.

If you have any questions we are happy to assist you. Please contact us at:

800-245-1577 - Mon - Fri 8AM - 5PM EST

724-866-4357 - After hours and weekends

Email - questions@barnkits.com

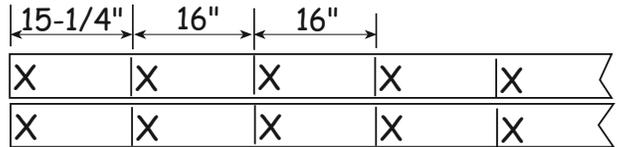
Constructing Details for Deluxe Floor System

Floor System is optionally purchased

Foundation size is 12'-0" x 20'-0". Check local building codes in your area, the construction may have to change. For a concrete slab, install sill sealer as a moisture barrier between the concrete and the wall plates. Foam sill sealer can be purchased at home centers in rolls 3-1/2" or wider.

1. Stagger the 4x4 timbers as shown below. Cut (2) two 2x4- 8' boards into 2' long blocks to secure the 4x4s where they butt together.

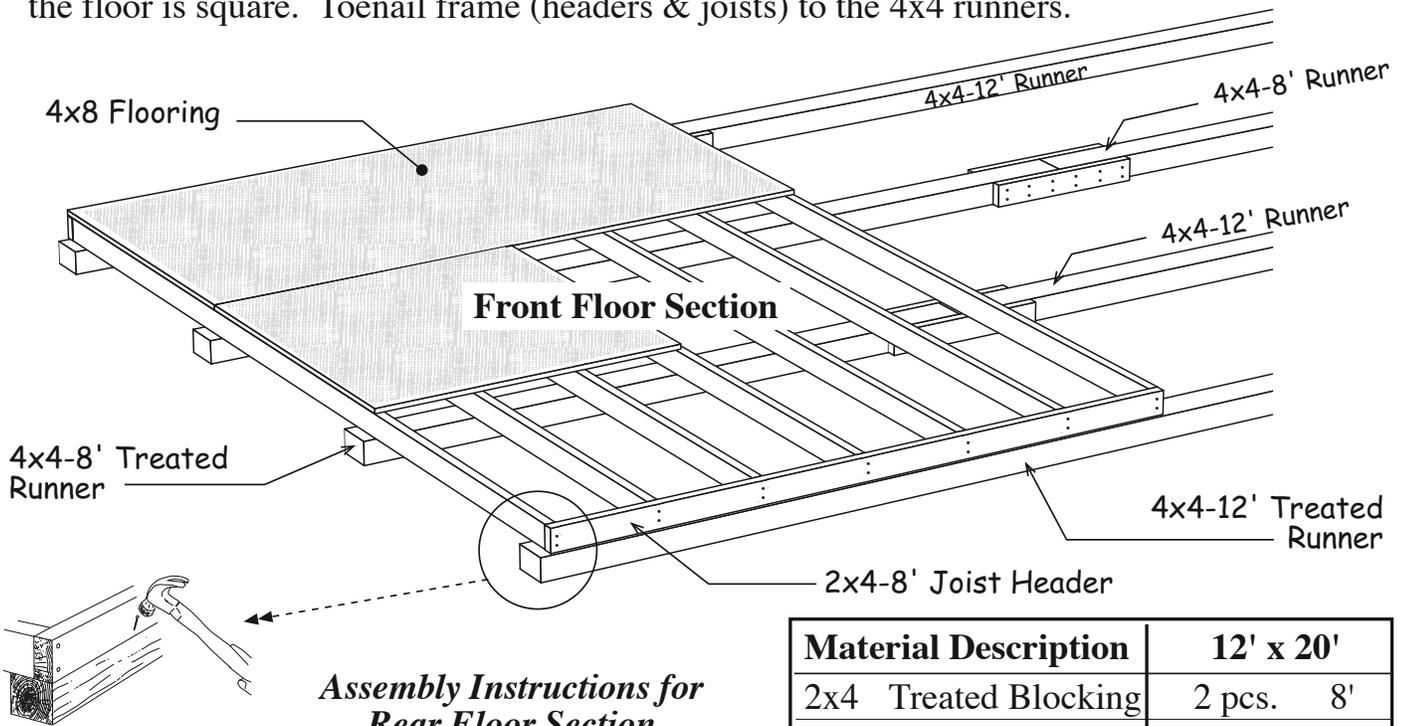
2. Cut (2) two 2x4-8' to a length of 8' -0". They will be used for the joist headers. Layout, from left, for 16" on center joist spacing. 'X' marks where floor joist will be placed.



3. Cut (17) seventeen 2x4-12' treated boards to 11' -9". These will be the floor joists. *Treated lumber may be thicker than 1-1/2"*. Take this into account when cutting the length of floor joists. Shorten joist measurements if necessary to obtain 12'-0" building width.

4. Install the floor joists cut above between the 8' joist headers. Secure with 16d galv. deck nails.

5. Place floor assembly over the 4x4s. Square floor assembly. Measure the floor diagonally (corner to corner) and then the opposite corners; these measurements will be the same when the floor is square. Toenail frame (headers & joists) to the 4x4 runners.



Material Description	12' x 20'
2x4 Treated Blocking	2 pcs. 8'
2x4 PT Joist Headers	2 pcs. 8'
2x4 PT Joist Headers	2 pcs. 12'
2x4 PT Floor Joist	17 pcs. 12'
4x4 Treated Runners	4 pcs. 8'
4x4 Treated Runners	4 pcs. 12'
Flooring 5/8" or 3/4"	8 pcs. 4x8
Galv Spiral Floor Nails	3 lb. 8d
Galvanized Deck Nails	5 lb. 16d

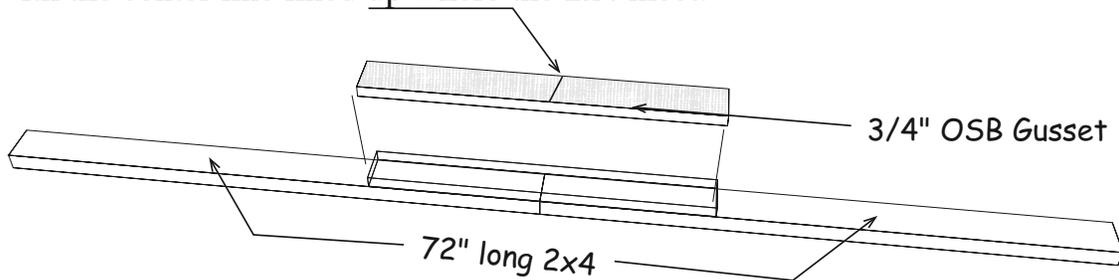
6. Cut (2) two 2x4-12' to a length of 12' -0". Layout for 16" joist spacing, *See above*.

7. Install floor joists between the joist headers. Square the floor section and install against the section assembled above. Toenail to the 4x4s runners.

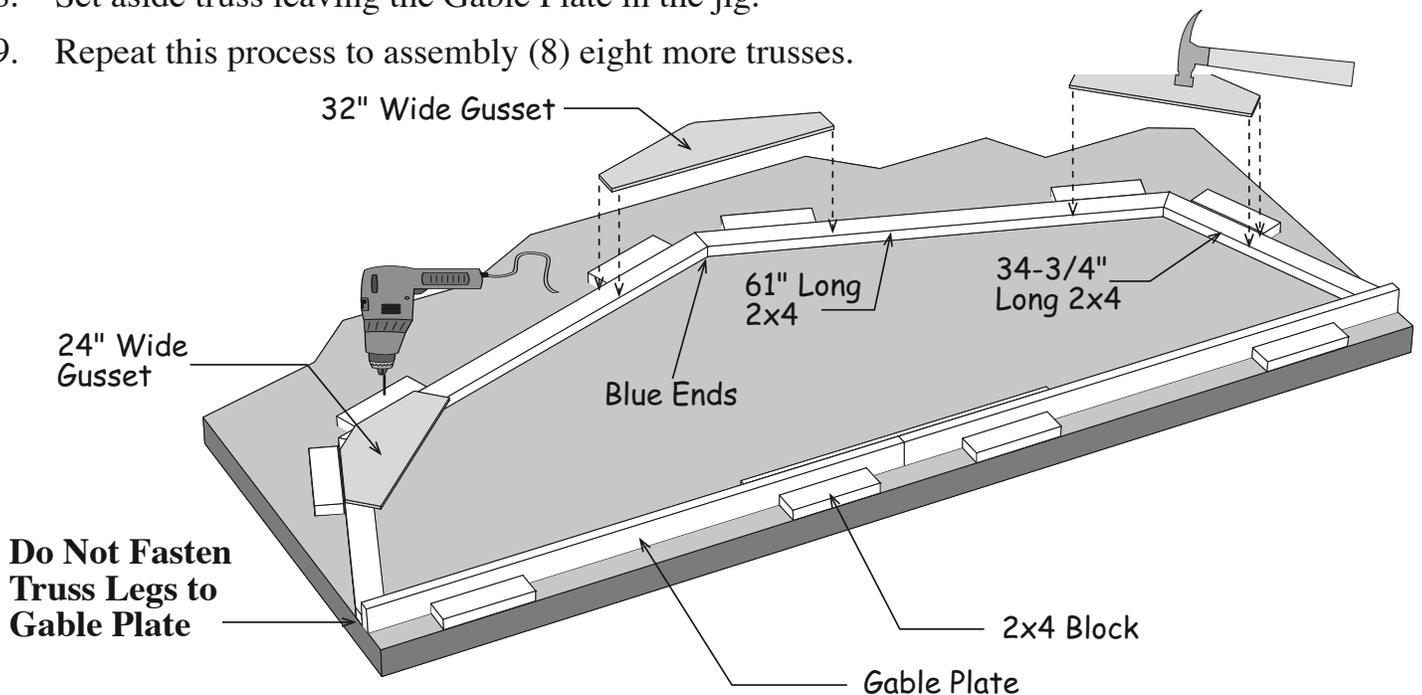
8. Install 4x8 flooring over the 2x4s. Use 8d galv. spiral nails spaced 8" apart.

Step 1 Assemble Trusses

1. Butt (2) two 72" long 2x4s together and secure them by nailing a 3-1/2" x 42-3/4" long OSB gusset across the top where they butt together. Use 6d common nails. Install the gusset with the center line lined up where the 2x4 meet.



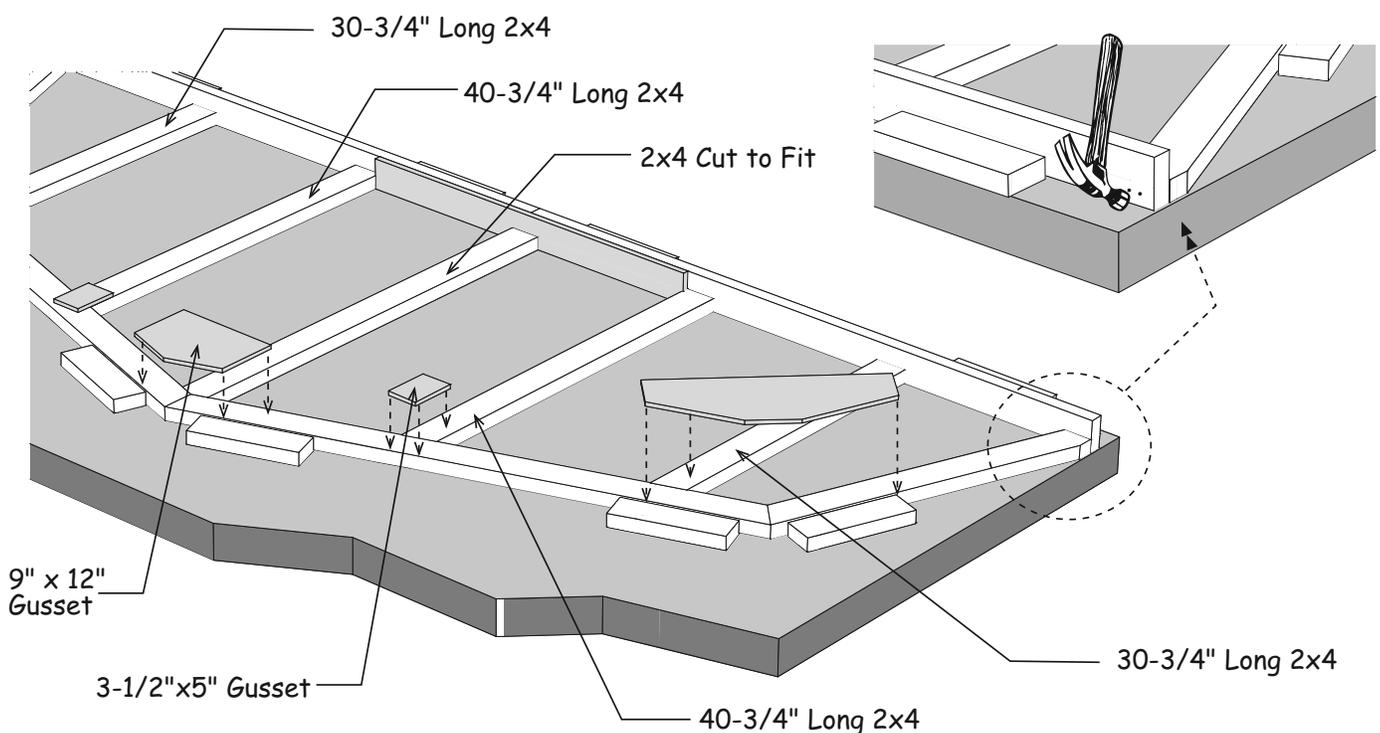
2. Repeat to assemble another Gable Plate.
3. Position a Gable Plate on the floor with the narrow edge side down. **DO NOT** attach this plate to the rafters in the next step. It is temporarily used to hold the rafters in place.
4. Gather (2) two 61" and (2) two 34-3/4" long 2x4 rafters and arrange as shown below. The 61" long rafters will have a blue end which butt together at the peak. Measure diagonally from where the 61" and 34-3/4" boards meet to the opposite end of the Gable Plate. Repeat on the other side. The measurement should be the same or within 3/8". Adjust position of the boards if necessary.
5. Temporarily screw short 2x4s that may have angle cuts around the truss. These will insure the remaining trusses are built identically.
6. Secure rafters together with (2) two 24" wide gussets and a 32" wide gusset at the peak. Use (25) twenty-five 6d common nails spaced evenly on each gusset.
7. Turn truss over and secure gussets to other side.
8. Set aside truss leaving the Gable Plate in the jig.
9. Repeat this process to assembly (8) eight more trusses.



Step 2 Assemble Roof Gables

1. Place (2) two 61" and (2) two 34-3/4" long 2x4 rafters in jig as done for trusses.
2. Place (2) two 40-3/4" long 2x4s with angle cut on one end. Secure the bottom to the 2x4 Gable Plate by nailing through plate with (2) two 10d sinkers. Secure the top with 3-1/2"x5" gussets using (4) four 6d common nails.
3. Place (2) two 30-3/4" long 2x4s with an angle cut on one end. Nail through Gable Plate. Secure 61" and 34-3/4" long rafters and top of 30-3/4" long 2x4 with 24" wide gussets
4. Cut a 50" long 2x4 with angles on one end to fit between Gable Plate and under center of truss peak. Nail through Gable Plate and OSB gusset with (2) two 10d sinkers. Secure the top with a 9"x12" gusset.
5. Nail truss leg to 12' Gable Plate with 10d sinkers.
6. Repeat steps to assemble another roof gable.

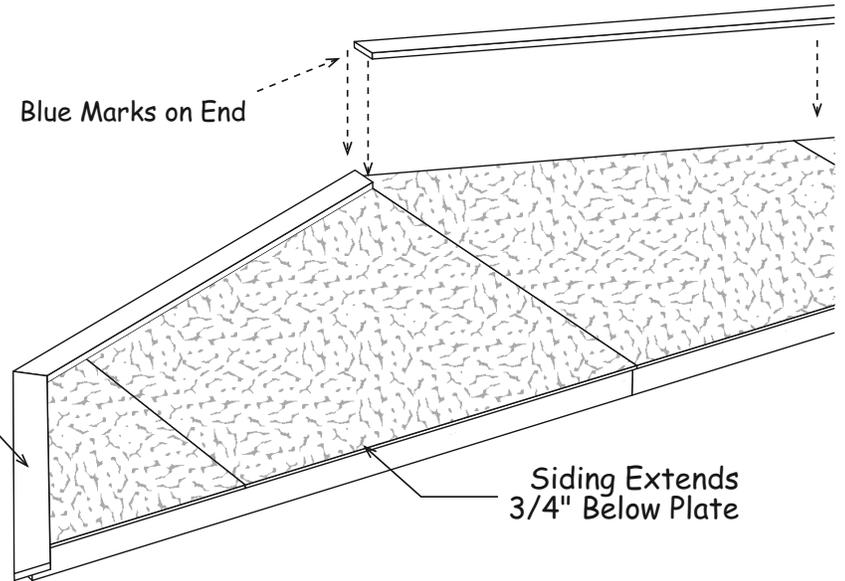
 Remove short 2x4 blocks.



Step 3 Apply Siding and Trim to Roof Gables

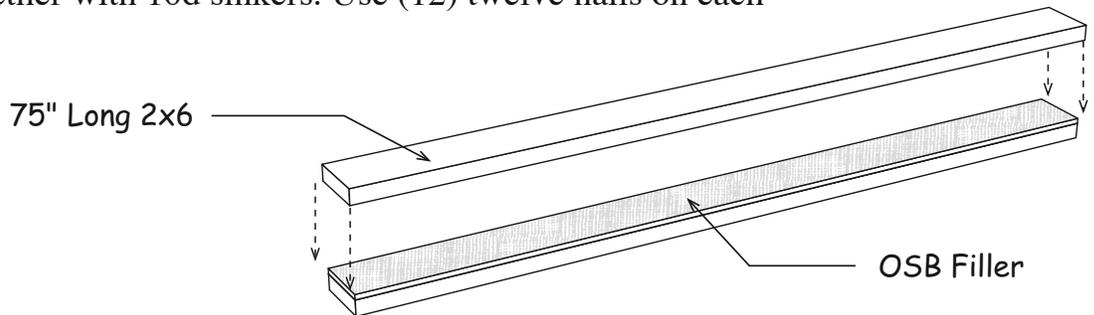
 **Note:** Gable siding will be applied from left to right on rear gable and right to left on front gable. 'LAP' edge will overlap 'Tongue' edge.

1. Turn the gable frame over. Position the Gable Plate over edge of floor so gable lays flat.
2. Install pre-cut siding on rear gable. Bottom of siding extends 3/4" below the gable plate. Use 6d galv. nails spaced 8" apart.
3. Install (2) two 61" long 1x4 gable trim flush with the top edge of the gable. Install the ends with blue marks together. Install trim with 6d galv. nails.
4. Install (2) two 42-1/2" long 1x4 gable trim flush with the side edge of the gable. Trim will extend below Gable Plate.
5. Install siding and trim on the front gable.

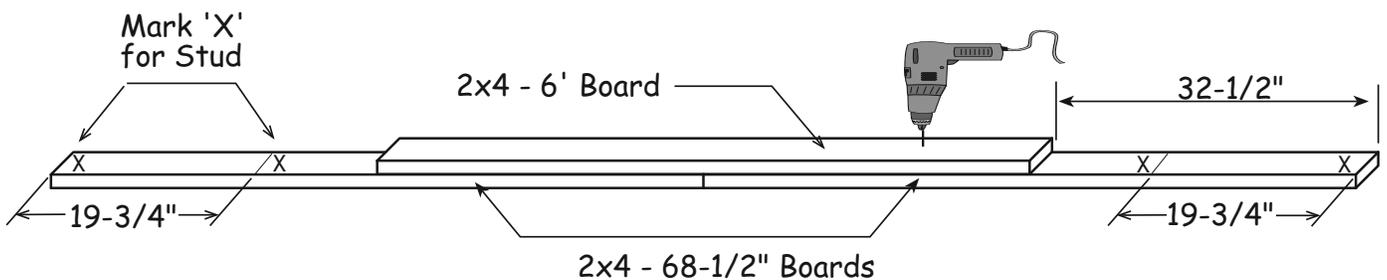


Step 4 Assemble Door Header & Bottom Wall Plate

Assemble door header using (2) two 75" long 2x6 boards and a 75" OSB filler panel. Nail header together with 10d sinkers. Use (12) twelve nails on each side.



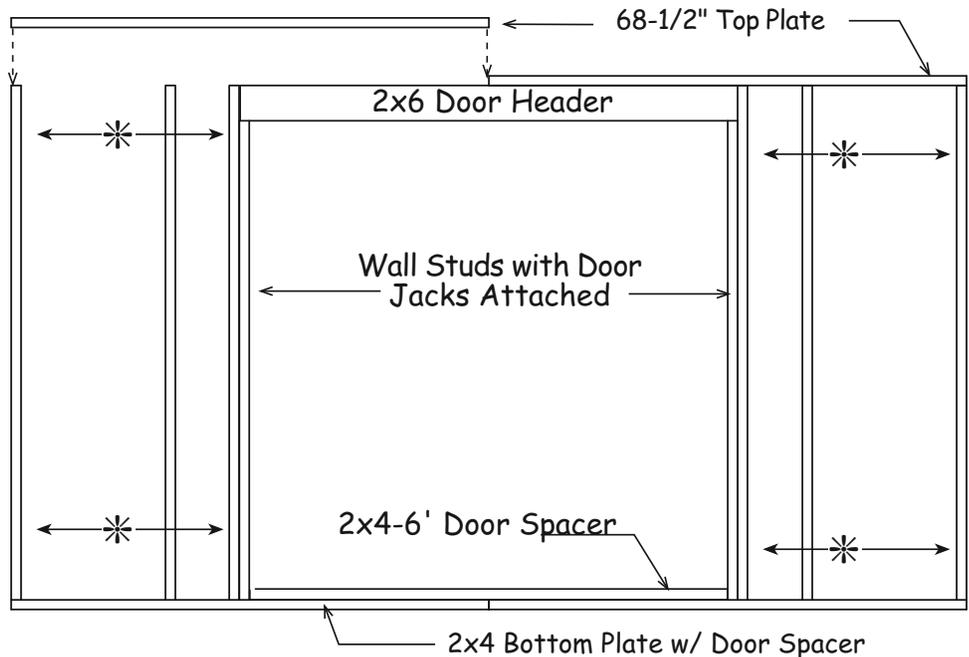
Butt (2) two 68-1/2" boards together. Center a 2x4-6' board (used as door spacer) on top and temporarily screw the boards together using (4) four 2-1/2" wood screws. Mark stud spacing as shown below.



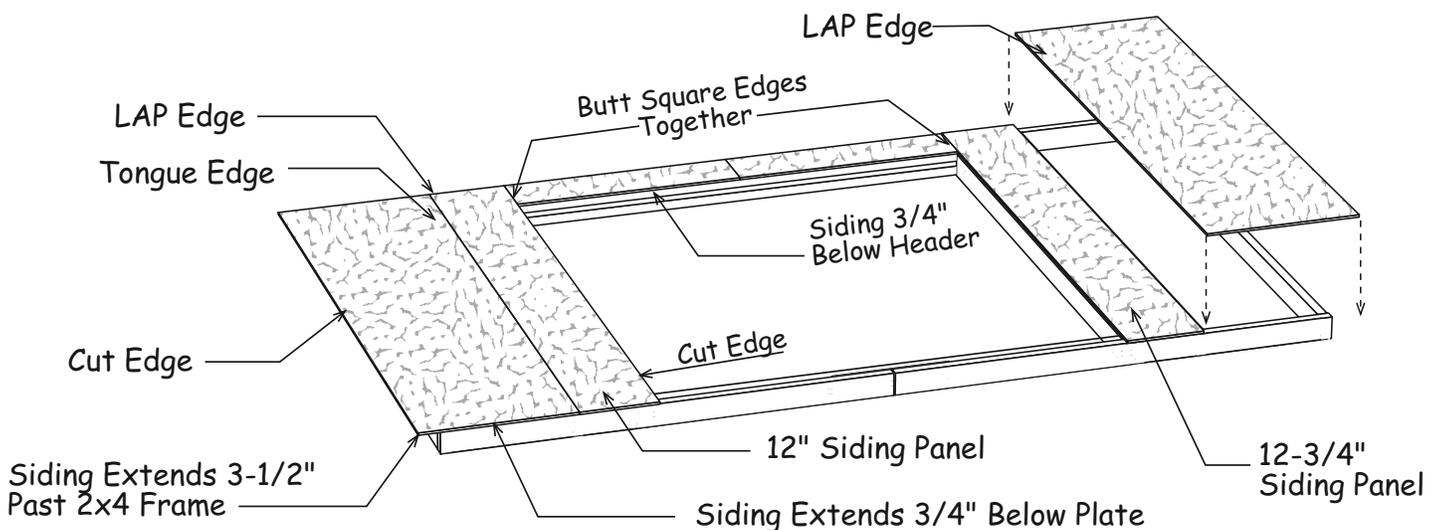
Step 5 Assemble Front Wall

1. Gather the material listed below to assemble the door wall.
2. Install (4) four 80-1/4" wall studs over the 'X' marks. Use (2) two 10d sinkers on each end.
3. Install pre-built studs with the door jacks attached to either side of the door spacer.
4. Install door header on the door jacks. Use 10d sinkers.

Material List	
2	68-1/2" Wall Plates
4	80-1/4" Wall Studs
2	80-1/4" Wall Studs w/ door jacks attached
1	Door Header from Step 4
1	Bottom Plate from Step 4

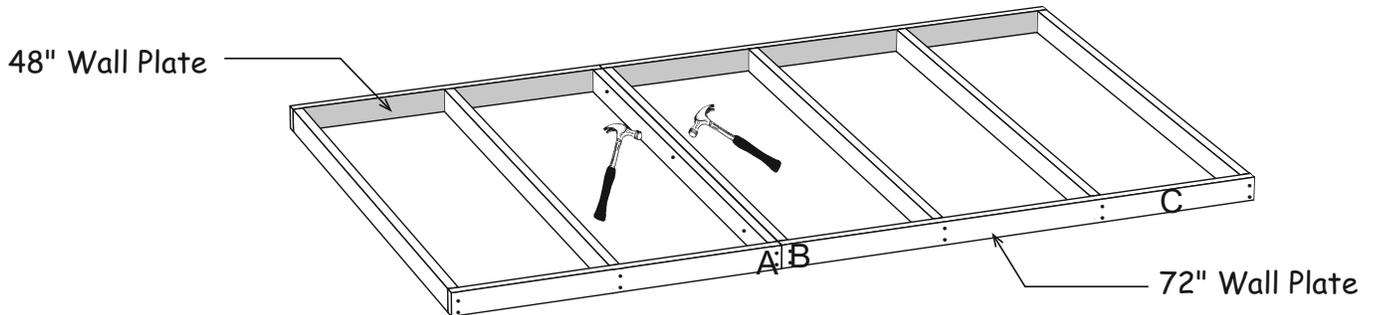
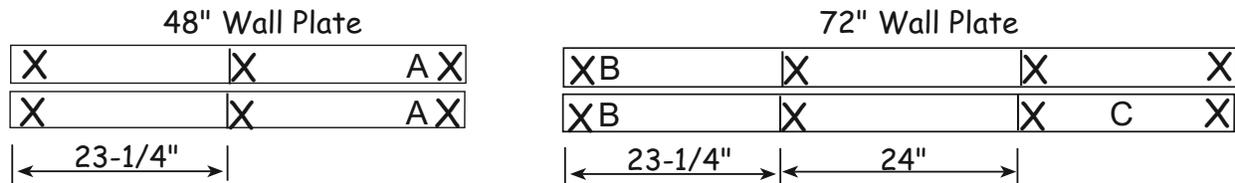


5. Square wall frame. *Measure diagonally (corner to corner). The measurements will be the same when the wall is square.*
6. Locate a 12" siding panel, *with a 'LAP edge'*. Position the 'cut' edge flush with the left side of the door opening. **Do not** nail the 'LAP' edge until the other siding is applied. Siding should extend 3/4" below the bottom plate. Use 6d galv. nails spaced 8" apart.
7. Select a 24" wide siding panel, *with a 'tongue edge'*, and install this siding panel at the left end of the wall frame as shown below. Siding should extend 3-1/2" past frame.
8. Install (2) two 7-3/4" pre-cut siding panels over the door opening, flush with the top plate.
9. Install a 12-34" siding panel with the 'cut' edge flush with the side of the door opening.
10. Install a 24" wide siding panel, *with a 'LAP edge'*. It will extend 3-1/2" beyond the 2x4 wall frame.



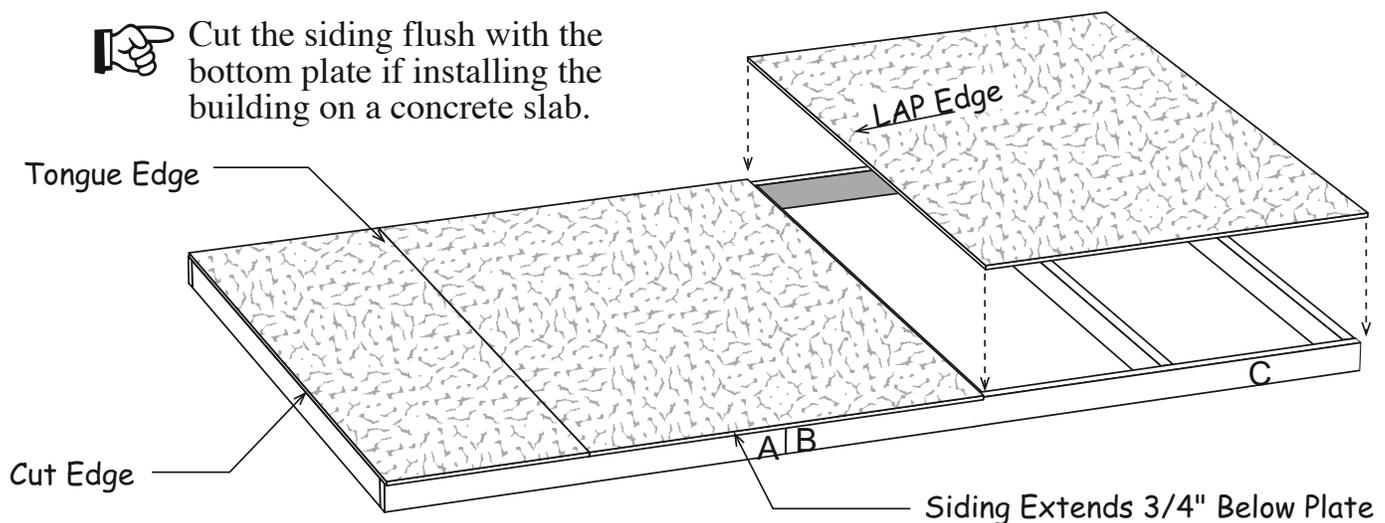
Step 6A Assemble 10' Side Walls

1. Position (2) two 2x4-48" boards and (2) two 2x4-72" boards together and indicate with 'X' marks where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'. Mark right side end with a 'C'. This will be referenced in a latter step.



2. Install (7) seven 80-1/4" long wall studs between the wall plates. Use (2) two 10d sinkers at each end of stud. Nail the frames together with (4) four 10d sinkers on each side.
3. Repeat to assemble (3) three more 10' long side wall frames. **You will need to cut (2) two 64" long 2x4s to a length of 48" to assemble the last 48" wall frame.**
4. Square wall frame. *Measure diagonally (corner to corner); the measurements will be the same when the wall is square.*
5. Select a 24" wide siding panel, with a 'tongue edge', and install this panel with the 'cut' edge flush with the end of the wall and extending 3/4" below the bottom plate. Use 6d galvanized nails spaced 8" apart. LAP edge panel will be used in next step.
6. Install (2) two more siding panels. Do not nail last panel along end of frame. This will be done later.

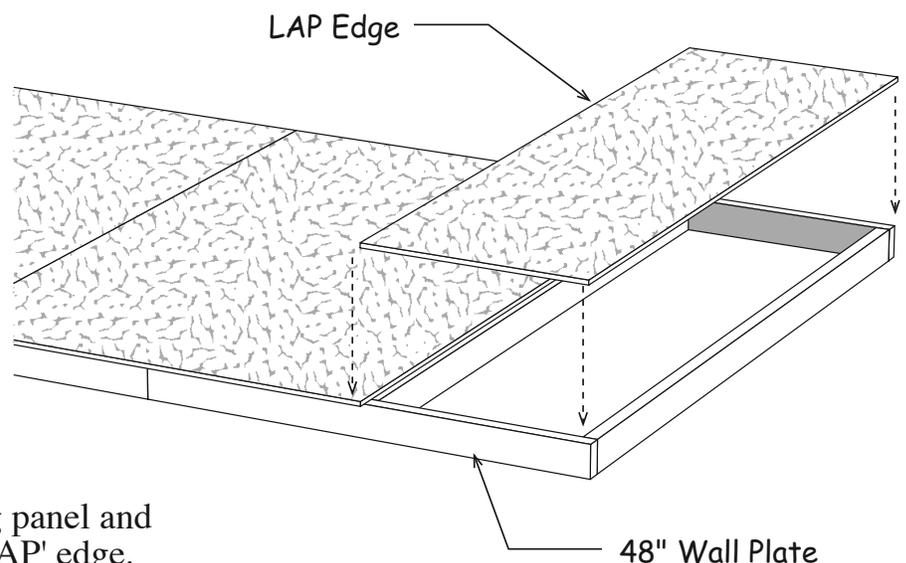
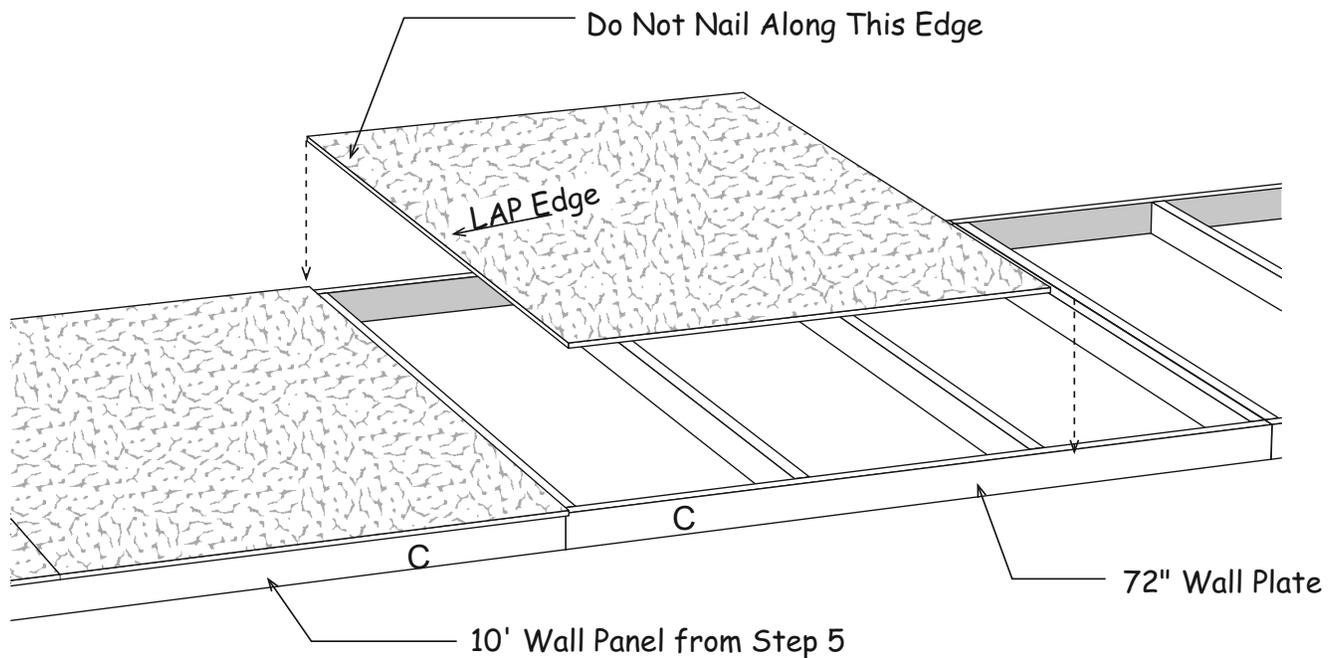
 Cut the siding flush with the bottom plate if installing the building on a concrete slab.



7. Select (1) one of the 10' wall frames and repeat steps 4-6 to apply siding.

Step 6B Assemble Side Walls for 20' Building Length

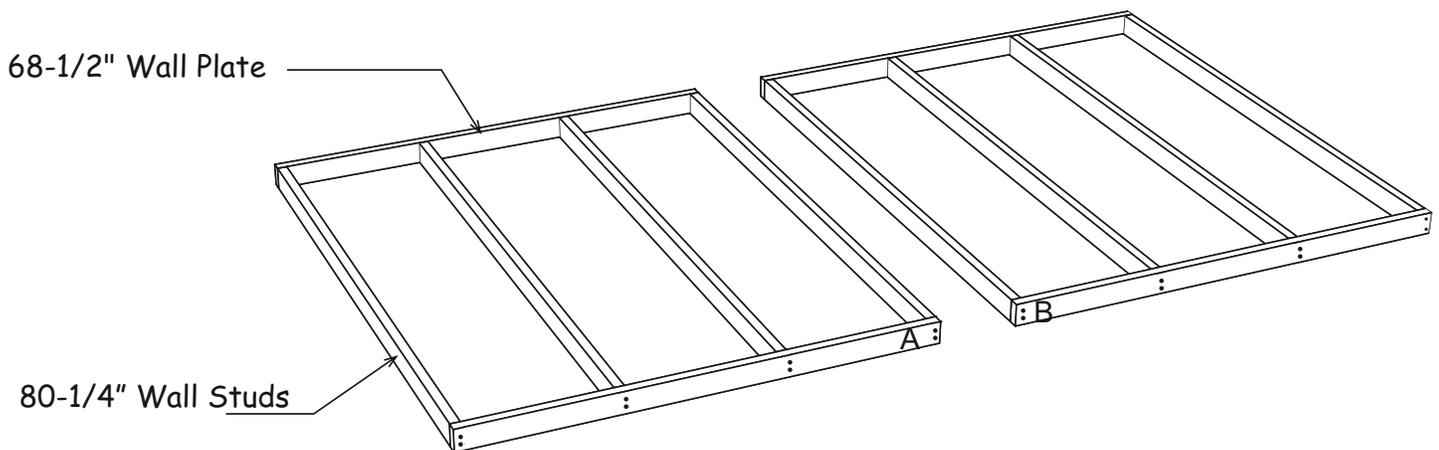
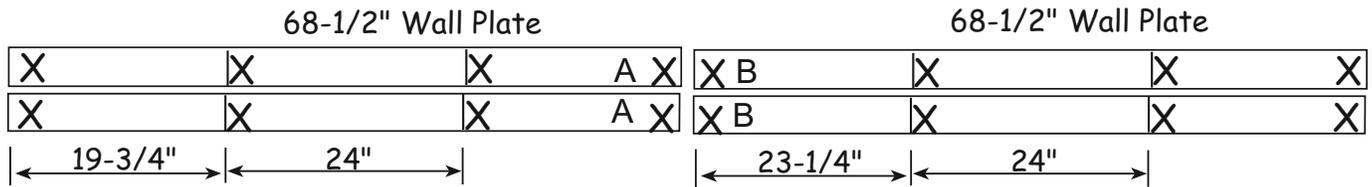
1. Select one of the 10' side walls with siding. Butt a 10' wall frame against this wall with the 'C' marks together. **Do Not** nail these frames together so they can be separated later.
2. Square the wall frame. Install a full width siding panel using 6d galvanized box nails spaced 8" apart. **Do Not** nail along the long edge that overlaps the sided wall frame. You can nail this edge after the wall panels are installed. This will enable you to separate the wall panels making them easier to handle.



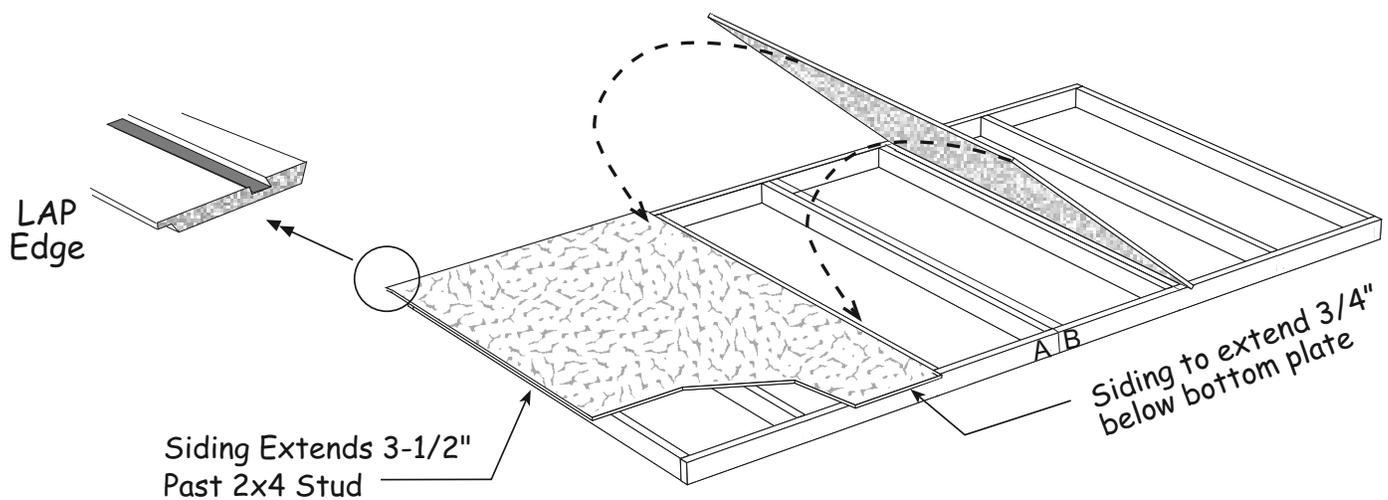
3. Install another full width siding panel and a 24" wide siding panel with 'LAP' edge.
4. Repeat to apply siding to the other 10' wall frame.

Step 7 Assemble Back Wall

1. Position (4) four 68-1/2" 2x4 boards together and indicate with 'X' marks where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'.
2. Install (8) eight 80-1/4" long wall studs, between the wall plates, over the 'X' marks and where the plates meet. Use (2) two 10d coated sinkers at each end of a stud. Nail wall sections together using (4) four 10d coated sinker nails, on each side of the studs.

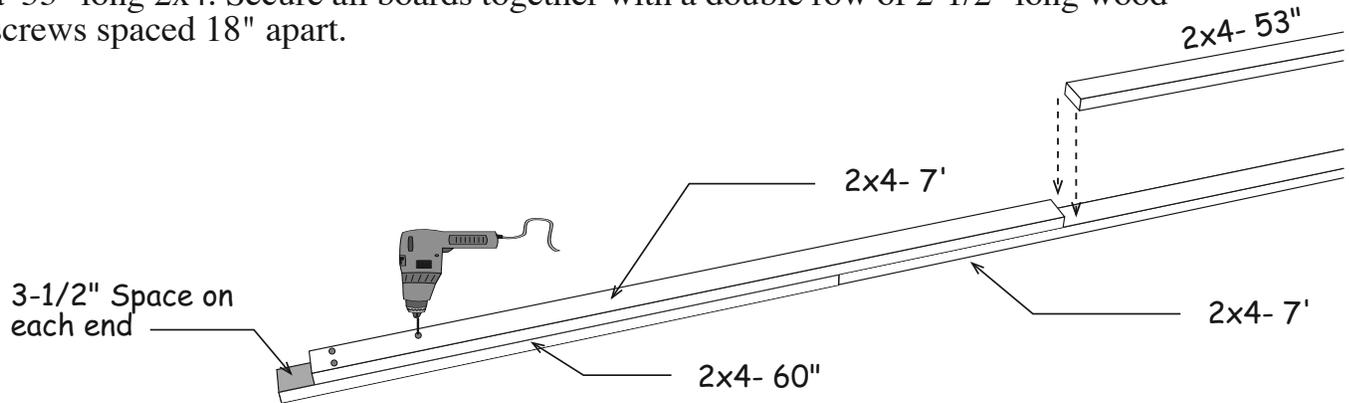


3. Square wall frame. *Measure diagonally (corner to corner); the measurements will be the same when the wall is square.*
4. Install the 1st siding panel with the 'LAP' edge extending 3-1/2" past the wall frame. Use 6d galvanized box nails spaced 8" apart. The bottom will extend 3/4" below the bottom plate.
5. Install (2) two more siding panels. Cut the last panel to extend 3-1/2" beyond the wall frame.

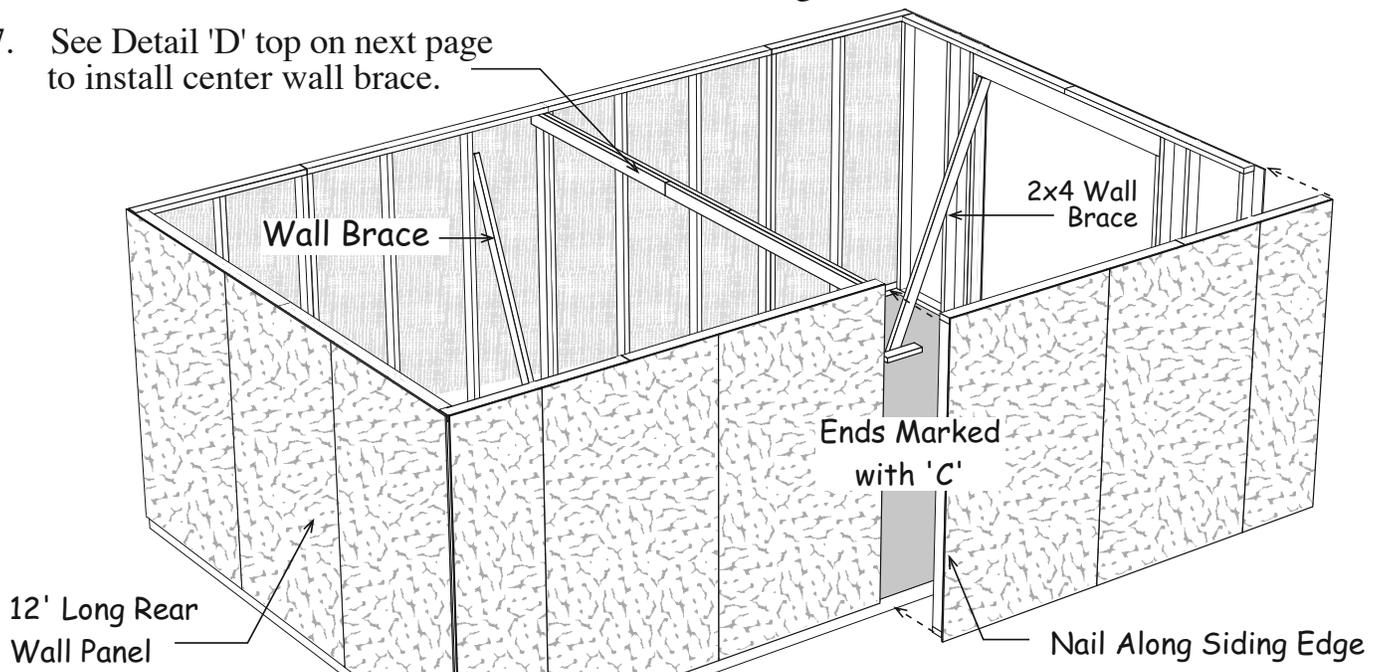


Step 8A Build Center Wall Brace & Set Walls

1. Butt together a 7' long and a 60" long 2x4 on a flat level surface.
2. Lay a 7' long 2x4 on top of the 60" long board 3-1/2" from end. Next to this butt a 53" long 2x4. Secure all boards together with a double row of 2-1/2" long wood screws spaced 18" apart.



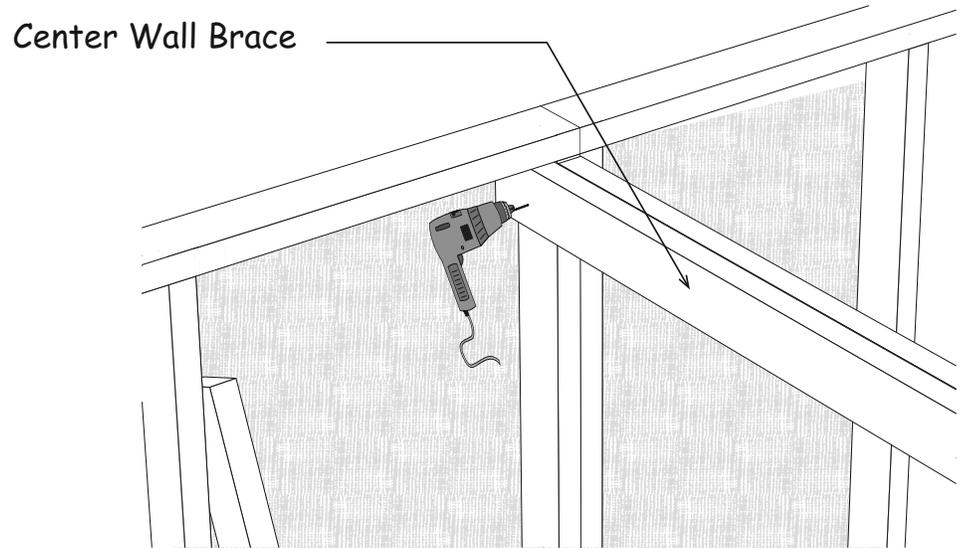
3. Set the back wall panel between (2) two 10' long side walls. Position the 'C' mark toward front of building. Secure wall panels together at the corners using (4) four 10d sinkers per corner. Nail siding on back wall to side walls.
4. Install the next (2) two side walls with the 'C' mark towards back of building. Nail with 10d sinkers. Nail siding edge where panels overlap.
5. Temporarily install (2) two 2x4-72" boards to hold side walls straight. These boards will be used later for tie plates.
6. Install front wall between the side walls. Nail siding on front wall to side walls.
7. See Detail 'D' top on next page to install center wall brace.



8. Remove the 2x4 door spacer and install it in the door opening to brace the front wall.
9. Cut and remove the bottom 2x4s in the door opening. These will be used later. Secure walls to floor using 10d sinkers or concrete anchor bolts (not supplied) spaced 24" apart.

Step 8B Build Center Wall Brace & Set Walls

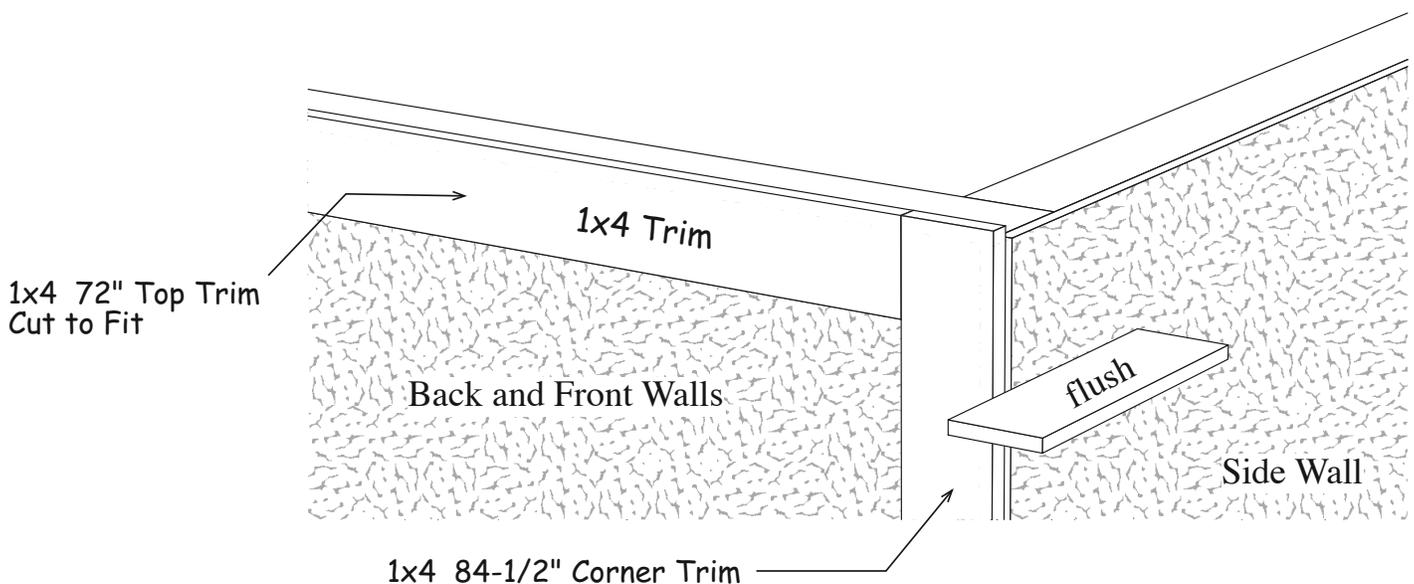
10. Install the center Wall Brace in the center of the building between the side walls. Make sure the side walls are plumb and square to each other. The shorter 2x4s will butt against a wall stud. Secure the longer 2x4 to the side of the stud with (2) two 3" long wood screws.



DETAIL 'D'

Step 9 Install 1x4 Trim

1. Install (2) two 84-1/2" long 1x4 corner trim on the back wall, flush with the siding on the side wall and the top 2x4 wall plate. Use 6d galv. nails.
2. Install (2) two 1x4-72" trim boards across the top of the back wall. Cut to fit. Install the 1x4 boards flush with the top of the 2x4 top plate. *See diagram below.*
3. Repeat steps for front wall trim.

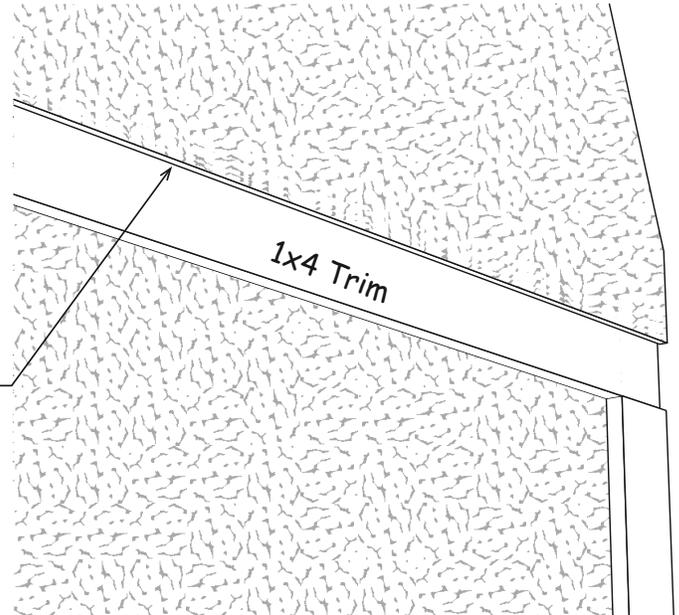


Step 10 Install Roof Gables

 **IMPORTANT:** Do Not set gables until all the siding and trim are installed on walls.

1. Install the rear gable on the rear wall. The siding on the gable must extend over the 1x4 trim board. See detail. Nail the gable to the 2x4 wall plate with 10d sinkers.
2. Install gable on front wall.

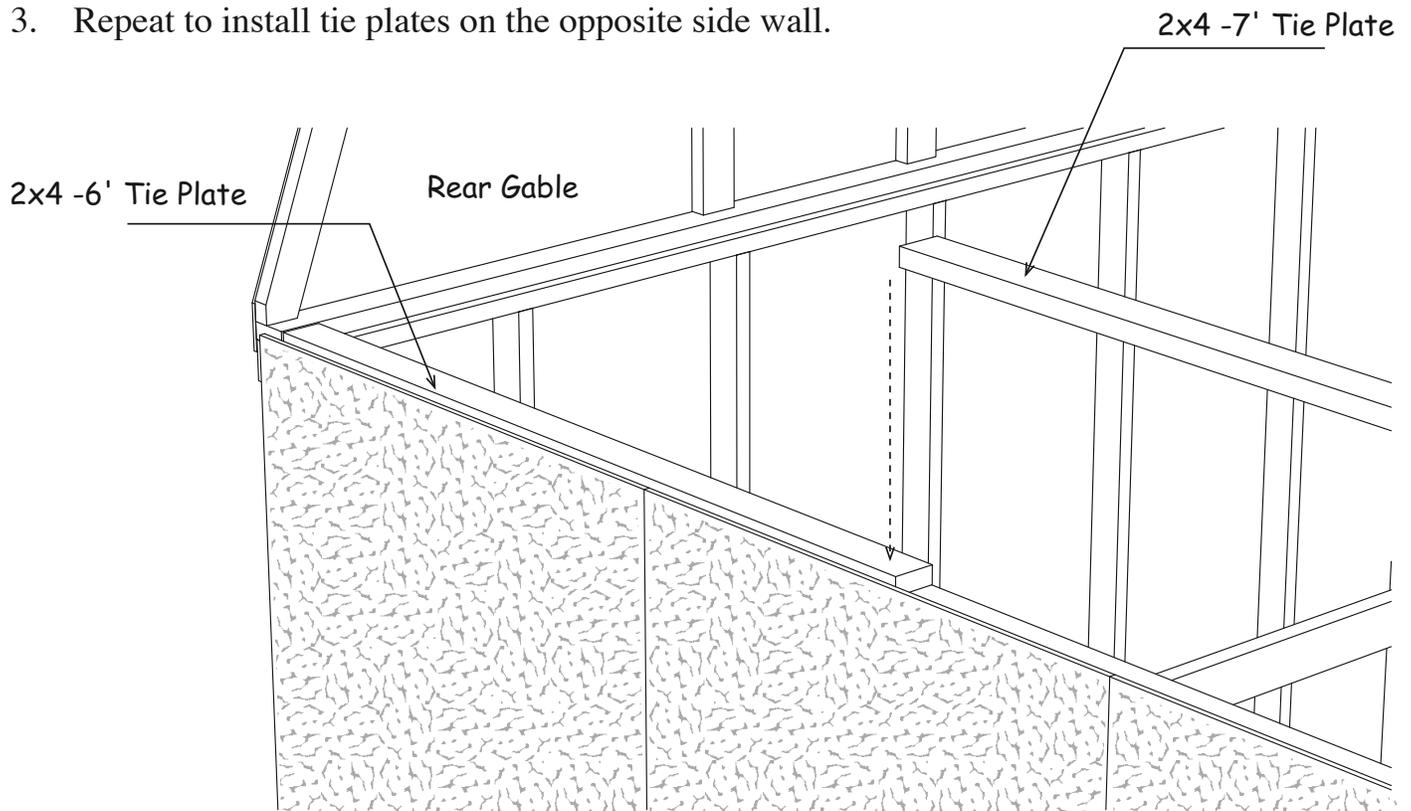
Bottom Edge of
Gable Siding



Caution: The roof gables are heavy and awkward. You'll need helpers to lift and set gables in place.

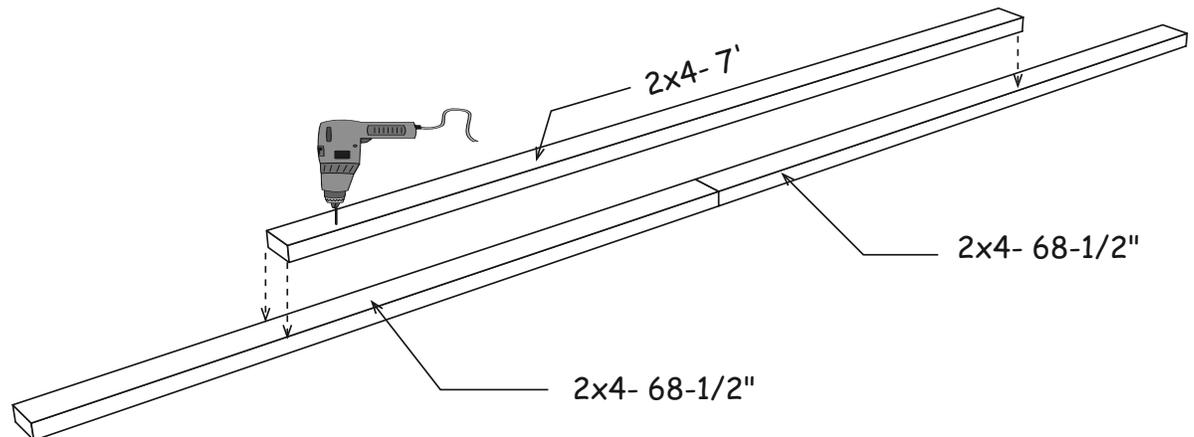
Step 11 Install 2x4 Tie Plates on Side Walls

1. Install a 6' long 2x4 board as a tie plate over the side wall plate. Use 10d sinkers.
2. Install a 7' long 2x4 and cut another 7' long 2x4 to finish.
3. Repeat to install tie plates on the opposite side wall.

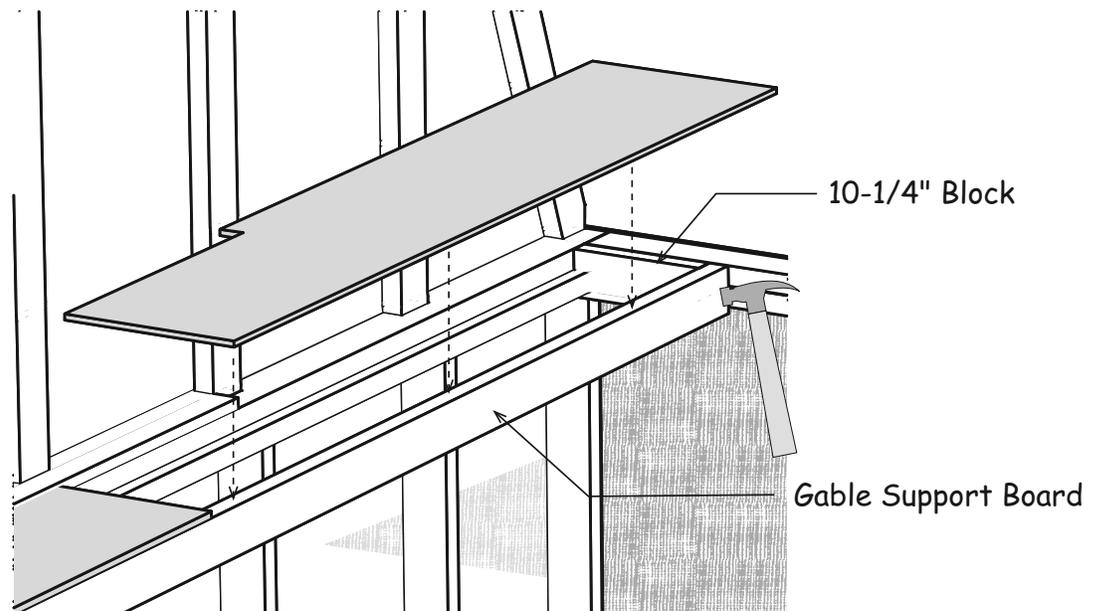


Step 12 Install Gable Support Shelf

1. Remove the 7' long wall braces.
2. Butt (2) two 68-1/2" long 2x4s together. Center one 2x4-7' over the 2x4s and secure them with 2-1/2" wood screws spaced 18" apart.
3. Repeat to assemble another gable shelf board.



4. From 2x4s removed from door opening cut (2) two 2x4s to a length of 10-1/4".
5. Nail the 2x4 blocks to the rear corners, flush with the top of the 2x4 tie plate and against rear wall. Use (4) four 10d sinkers.
6. Nail one of the gable support boards to the 10-1/4" blocks. Use 10d sinkers.
7. Nail (2) two 15" x 72" OSB panels over the gable plate (notch around OSB gusset), side wall plate and gable support board. Use 6d common nails.
8. Repeat steps 4-7 to install support shelf at the front wall.

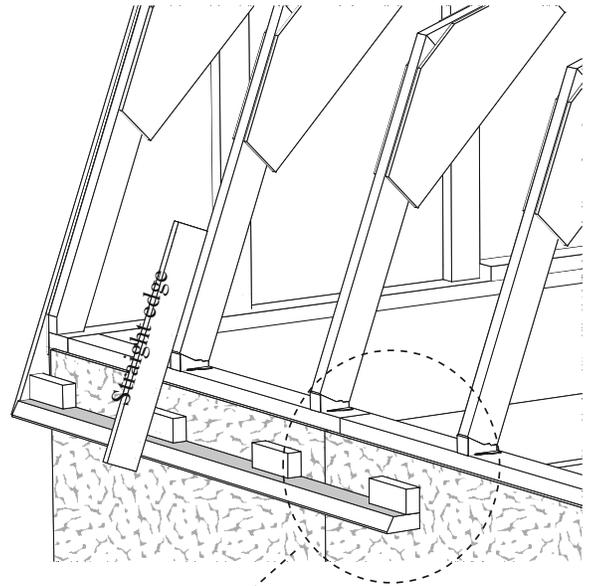


Step 14 Install Trusses & Soffit Boards

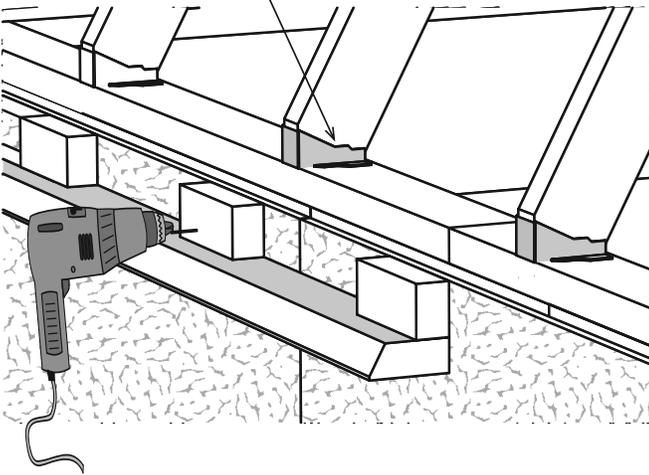


Before installing the soffit boards to the side wall, use a straight edge to make sure the trusses align with the bevel cut on the soffit board. Adjust soffit board up or down if necessary.

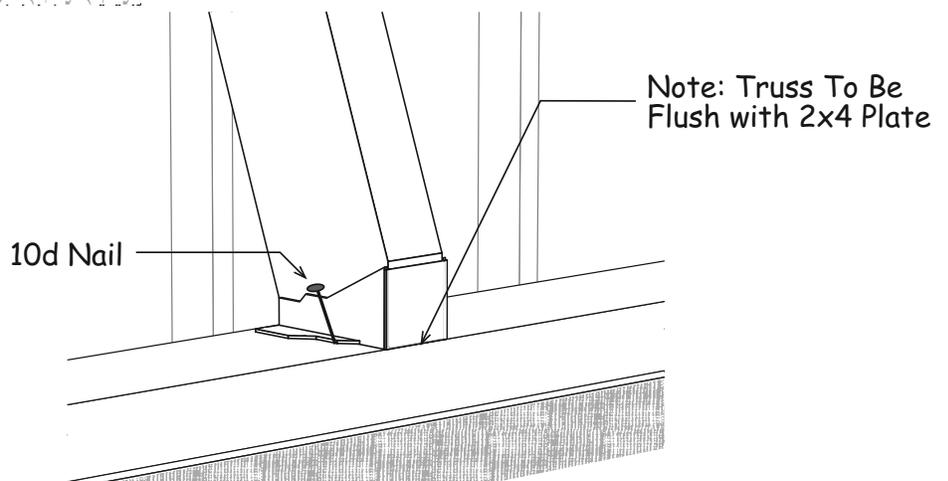
1. Place trusses over the 'X' marks and secure trusses to 2x4 truss plate using 2x4 hangers secured with 10d coated sinker nails. See Detail 'E'.
2. Locate (3) three 65-1/4" long soffit boards that have a beveled edge. Install one of these boards butting against the rear gable trim. Secure soffit board to the top wall plate with 3" long screws in each 2x3 block.
3. Install (2) two more soffit boards.
4. Install a 4' soffit board behind 1x4 trim on the front gable. Cut to fit.
5. Repeat to install soffit boards on opposite side wall.



Metal Truss Hanger



DETAIL 'E'

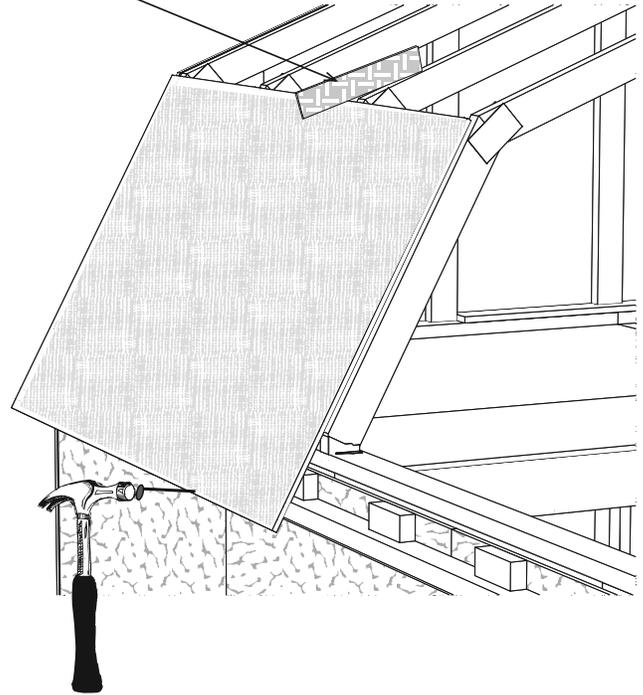


Step 15 Install Roof Sheathing

Straight Edge

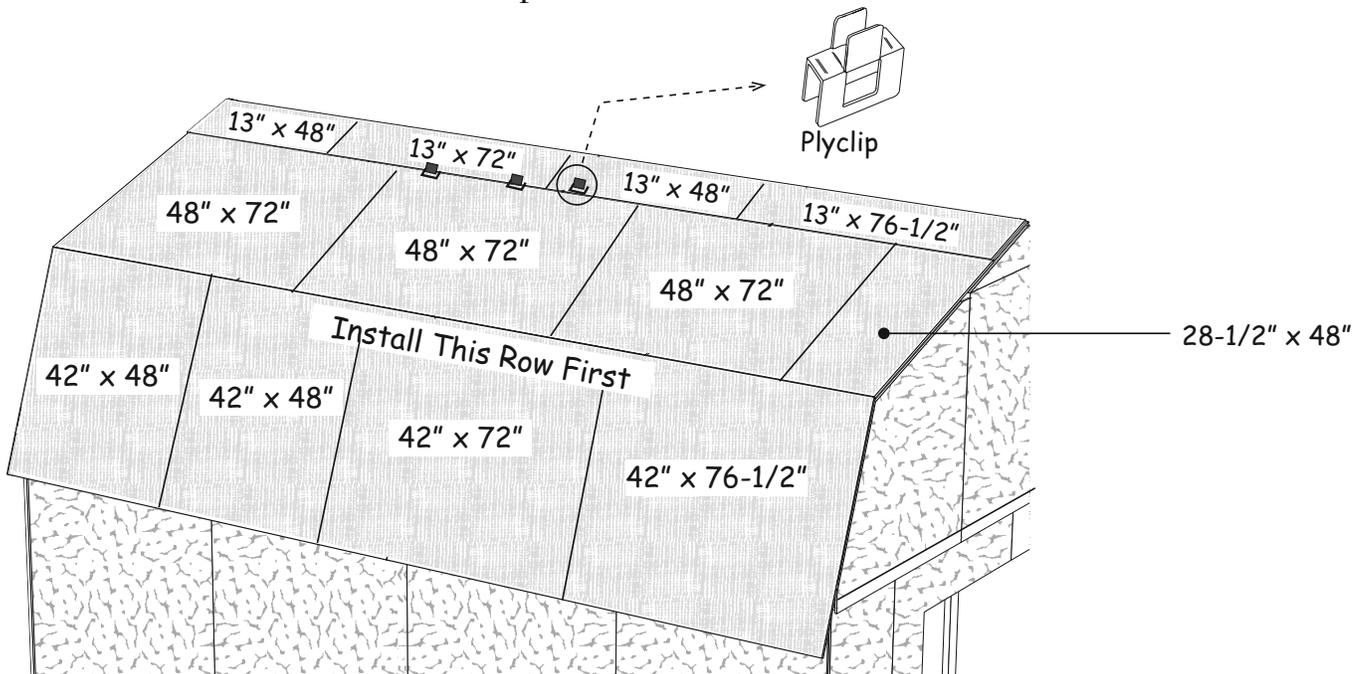
1. Install a 42" x 48" OSB roof panel flush with the face of the rear gable trim. Use a straight edge to align the top of the sheathing with the top of the truss. Continue adding sheathing following the layout below. Use 6d common nails, spaced 8" apart.
2. Before installing the last row of 13" OSB sheets insert (2) two plyclips onto roof sheathing between every truss. The top row of roof sheathing will be about 1" below the ridge to allow for ridge venting if installed.

 To prevent the nails from protruding through the bottom of the soffit board, do not nail at an angle when nailing roof sheathing to the soffit boards.



3. Repeat pattern on opposite side of roof.

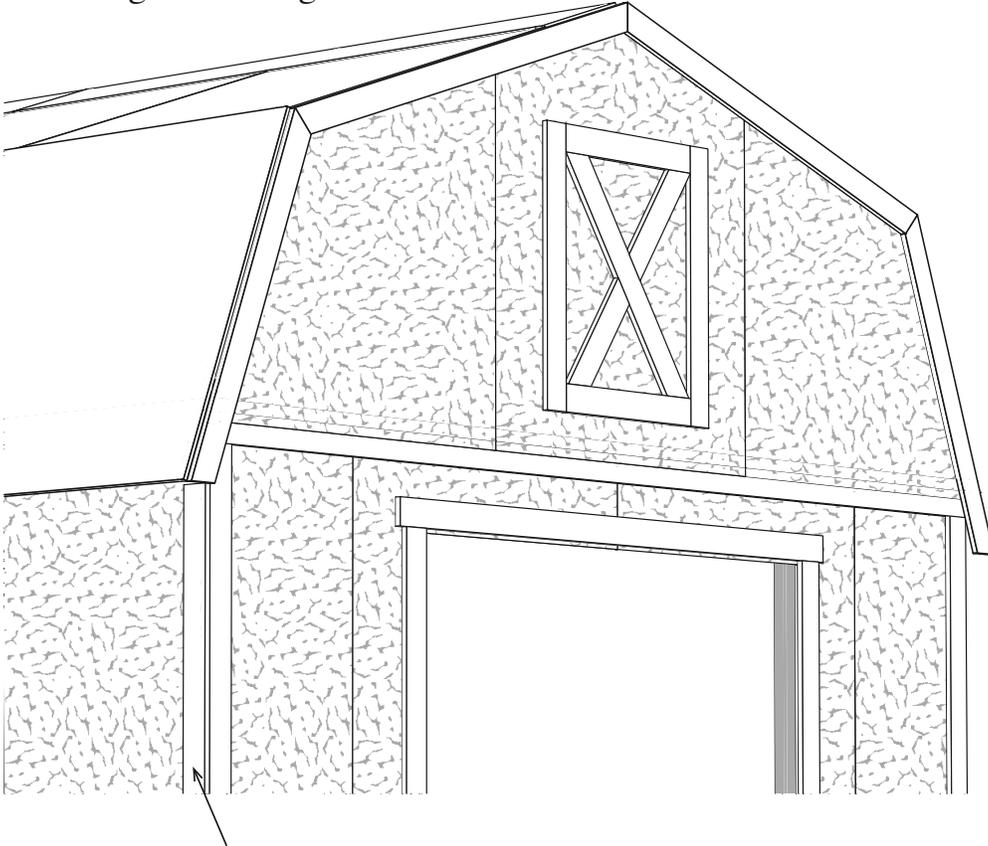
Insert (2) two plyclips into the roof sheathing between each truss at the top row.



Step 16 Install Front Trim

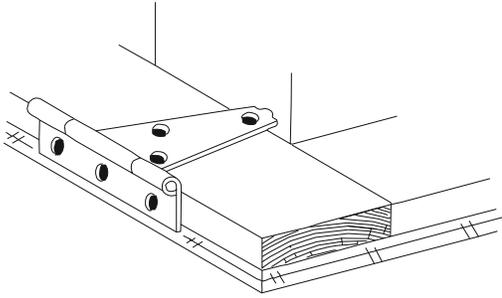
 It is recommended to apply caulk to the top of all trim surfaces between siding and trim to protect against moisture behind trim.

1. Install loft door trim panel on the front gable by screwing from the interior of the gable through the siding with 1" screws.

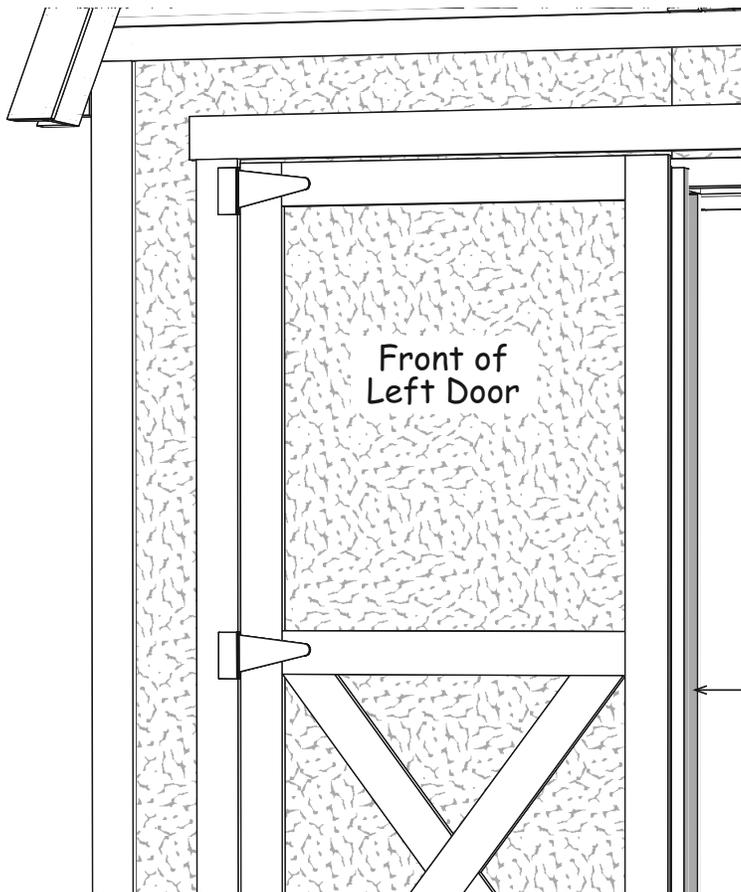


2. Install 80" long 1x4 trim boards on the corners of the side walls. Butt the top under o the soffit boards at the top and edge flush with the face of the back and front wall trim.
3. Install 1x4x76-3/4" trim boards along each side of the door opening. Tack these boards with a couple nails; you may want to move the trim later when you install the doors.
4. Install a 1x4x81-3/4" board, *that has angle cuts on both ends*, over the door opening.

Step 17 Install Doors



1. Lay the left door with the trim facing up. The siding on the left door extends past the door trim. See detail below.
2. Install 5" hinges to the left side of the door frame. To position the hinge properly, hold the rectangular plate against the frame. Use 2" black screws.
3. Install hinges to the right side of the other door.



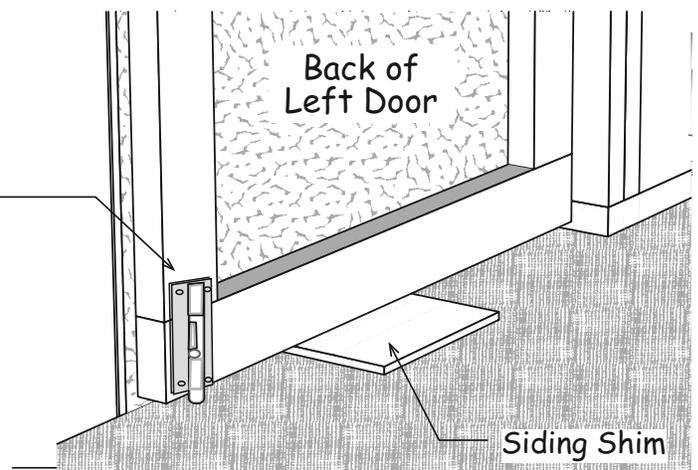
Before you fasten the hinges to the door trim, temporarily prop the doors in the opening. *Tip; set the door stop on a piece of siding to help hold the door in place.* Leave a space between the doors and the side trim to allow room for the doors to expand when they absorb moisture.

If your door opening is out of square, the space around the doors will not be even. You can reposition the side trim to make allowances for this. The side trim does not have to be flush with the frame of the door opening. You can move the trim in or out to make the door spacing equal.

Secure hinges to trim with 2" black screws.

← Siding Extends Past Trim

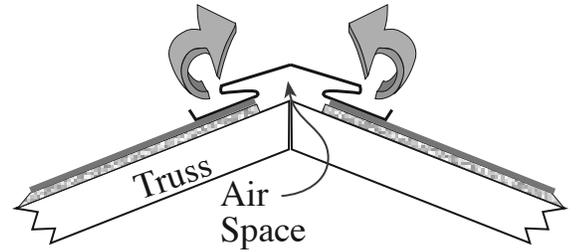
4. Install a barrel bolt, on the lower back of the door to secure this door in place when closed. Drill a hole for the round shaft to drop into.
5. Install another bolt at the top of the door.
6. Install door latch.



Install Roofing — Not Supplied in Kit

Install shingles according per the instructions on the wrapper. Additional information and tutorials can be found on various online sources.

Building Tip: Install ridge vent (purchased separately) in lieu of shingle caps. Ridge vent provides ideal ventilation, preventing heat and moisture build-up from damaging your building or its contents.



Optional ridge vent provides ideal ventilation.

Roof Material: 14 bundle shingles, 9 pcs. 10' metal roof edge, optional felt paper 1 roll

Hardware List

5 lbs	10d Sinkers
5 lbs	6d Galvanized
10 lbs	6d Common
16	3/4" Pan Head Screws
12	1" Drywall Screws
50	2" Hinge Screws
50	3" Deck Screws
50	2-1/2" Deck Screws

6	5" Door Hinge
2	6" Barrel Bolt
1	Door Hasp
32	7/16" Plyclips
14	Joist Hangers
<u>Additional material in Siding Kit:</u>	
8 ea	7/16" Plyclips
4 ea	Joist Hangers

Material List

Qty 2x4 Framing

Size

8	Tie Plates	84"
40	Wall Studs	80-1/4"
2	Wall Studs with Door Jacks	80-1/4"
14	Gable & Wall Plates	72"
12	Wall Plates	68-1/2"
22	Truss Rafter	61"
1	Wall Bracing	60"
1	Wall Bracing	53"
2	Gable Studs	50"
8	Wall & Tie Plates	48"
4	Gable Stud	40-3/4"
22	Truss Rafters	34-3/4"
4	Gable Studs	30-3/4"
10	Blocks for Truss Jig	8"-12"

Qty OSB

Size

6	Roof Sheathing	48"x72"
2	Roof Sheathing	42"x72"
4	Roof Sheathing	28-1/2"x48"
2	Roof Sheathing	42"x76-1/2"
4	Roof Sheathing	42"x48"
4	Gable Shelf	15"x72"
2	Roof Sheathing	13"x76-1/2"
2	Roof Sheathing	13"x72"
4	Roof Sheathing	13"x48"
1	Door Header Filler	5-1/4"x75"
18	Gussets	9"x32"
40	Gussets	9"x24"
2	Gussets	9"x12"
4	Gussets	3-1/2"x5"

Qty 2x6 Framing

Size

2	Door Header	75"
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Qty 1x4 Trim

Size

4	Corner Trim	84-1/2"
1	Door Trim	81-3/4"
4	Corner Trim	80"
2	Door Trim	76-3/4"
4	Lower Wall Trim	72"
4	Gable Trim	61"
4	Gable Trim	42-1/2"

Qty Siding

Size

11	Wall Panels	48"x84"
6	Wall Panels	24"x84"
2	Wall Panels	12"x84"
4	Gable Panels	48"x55-1/4"
4	Gable Panels	24"x37"
2	Wall Panels	7-3/4"x36"

Qty Pre-Built Components

6	Soffit Boards	3-1/2"x65-1/4"
2	Soffit Boards	3-1/2"x48"
2	Barn Doors	
1	Loft Door Frame	