



Assembly Book

Revised July 12, 2024



Shedquarters 12'x20'

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
Screwdriver with Bits
Framing Square

Additional Materials - Not included in kit:

Windows are purchased separately

Required: Shingles or metal roofing, Drip Edge, Roofing Nails or Screws, Paint, Class 25 Sealant

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

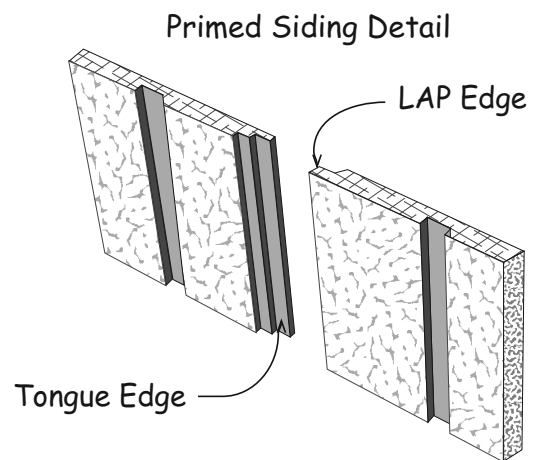
Tie Plate - 2x4s connecting wall sections together

Header - Spans top of door opening

OSB - Oriented Strand Board

LAP - Edge of siding that overlaps Tongue

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

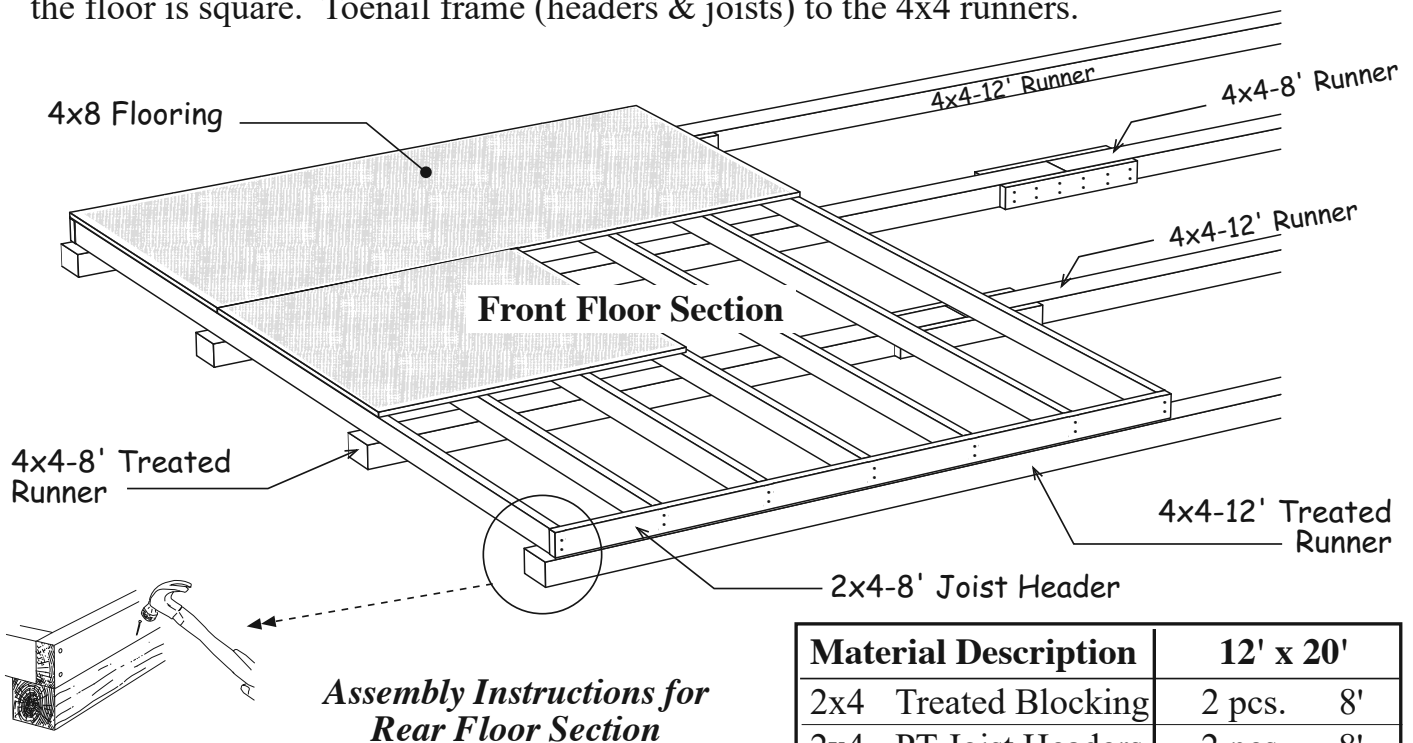
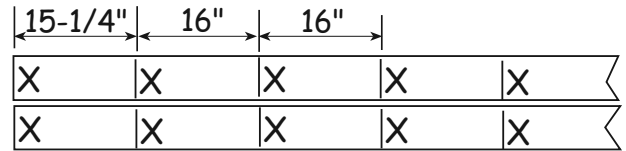
724-866-4357 - After hours and weekends

Email - questions@barnkits.com

Constructing Details for Optional Floor System

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.



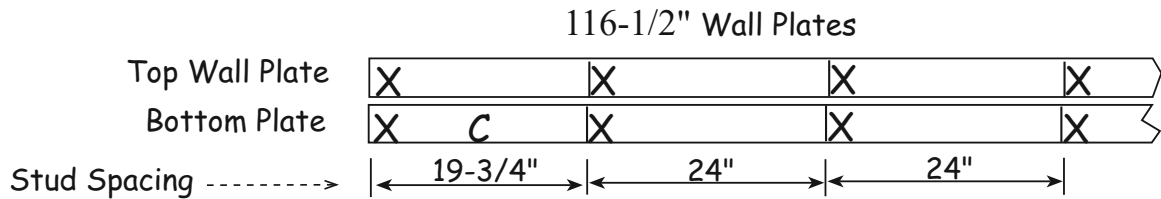
6. Cut (2) two 2x4-12' to a length of 12' -0". Layout for 16" joist spacing, *See above.*
7. Install floor joists between the joist headers. Square the floor section and install against the section assembled above. Toenail to the 4x4s runners.
8. Install 4x8 flooring over the 2x4s. Use 8d galv. spiral nails spaced 8" apart.

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

Step 1 Assemble Sidewalls

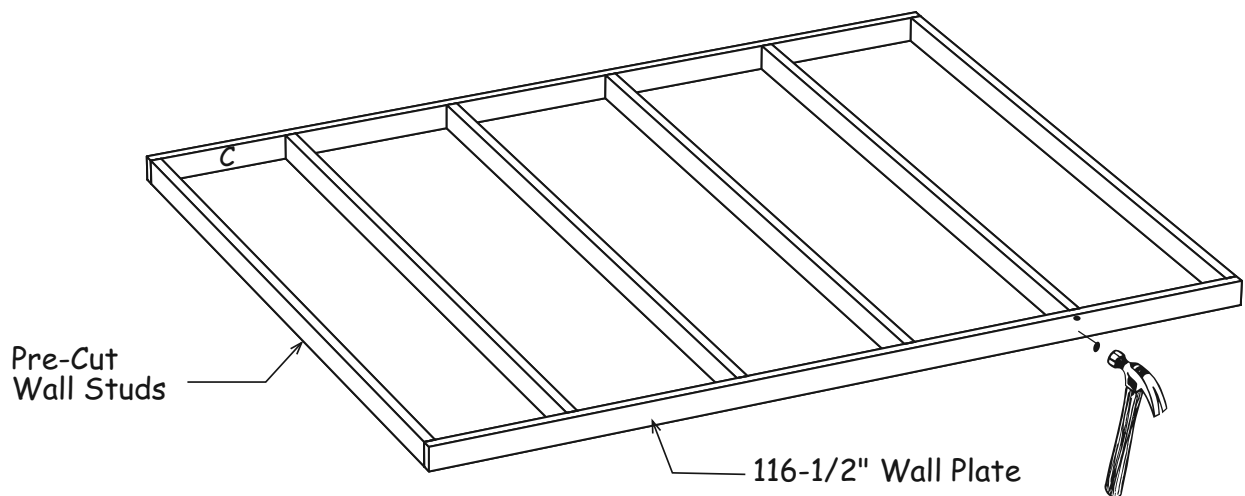
 **Do not discard any material until construction is complete, including short 2x4 blocks.**

1. Cut (2) two 2x4-10' boards to a length of 116-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.
2. Mark a 'C' anywhere left of first stud mark. This is referenced in a later step.



3. Install (6) six pre-cut wall studs between the top & bottom plates with (2) two 10d sinkers on each end.

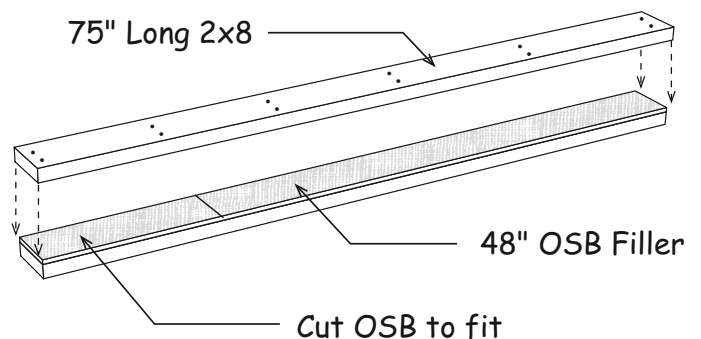
 *The length of pre-cut studs will vary from 92-1/4" to 93" depending on you locality.*



3. Repeat to assemble (3) three more 116-1/2" long wall frames.
4. Set frames aside.

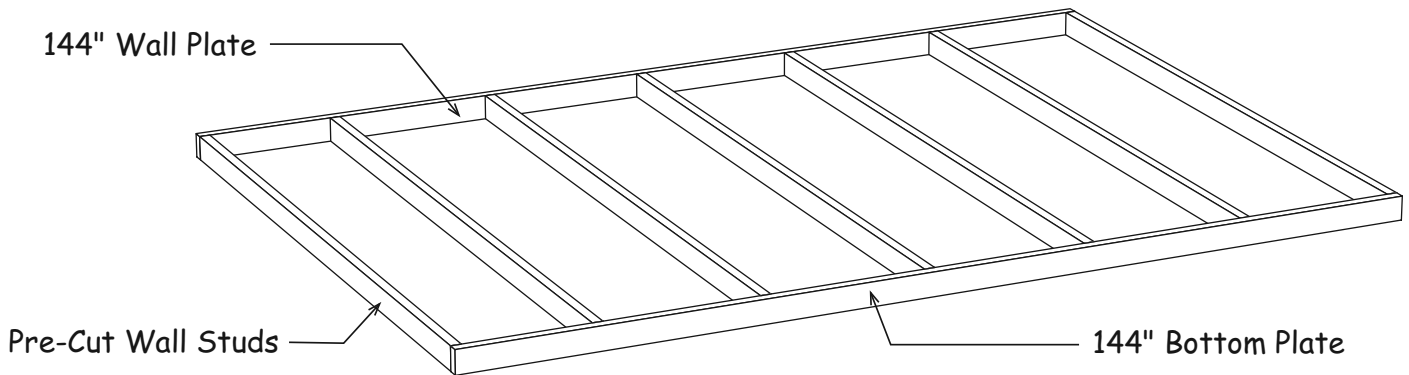
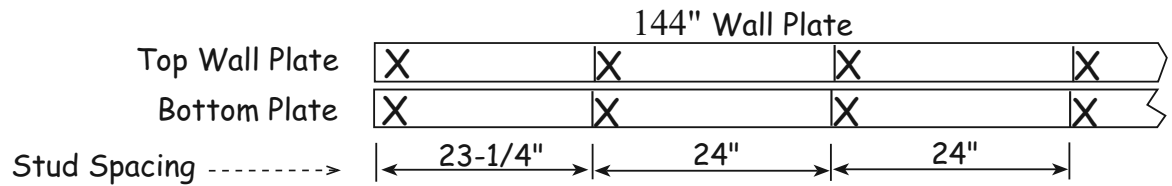
Step 2 Assemble Door Header

1. Locate (2) two 2x8-8' boards. Cut these boards to a length of 75".
2. Assemble the door header using 2x8 boards and (2) two 7-1/4" x 48" OSB filler included in our kit. Install (1) one filler to one end. Cut to fit second OSB filler. Nail together with (12) twelve 10d sinkers spaced evenly on each side.



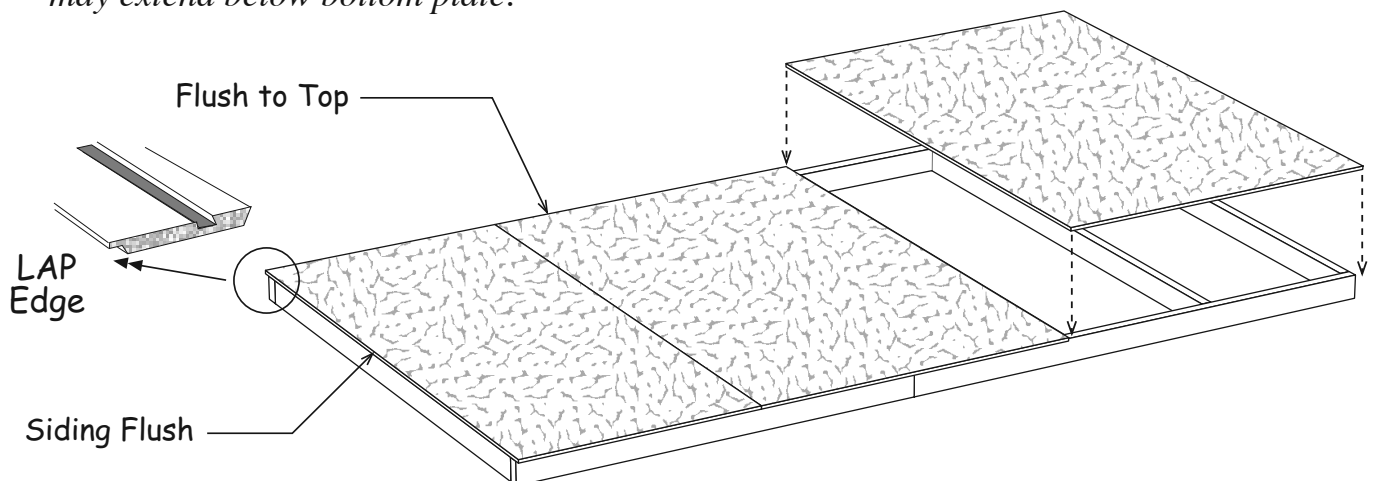
Step 3 Assemble 12' Back Wall

1. Cut (2) two 2x4-12' to a length of 144". Position the boards together and indicate with 'X' marks where the wall studs will be located.



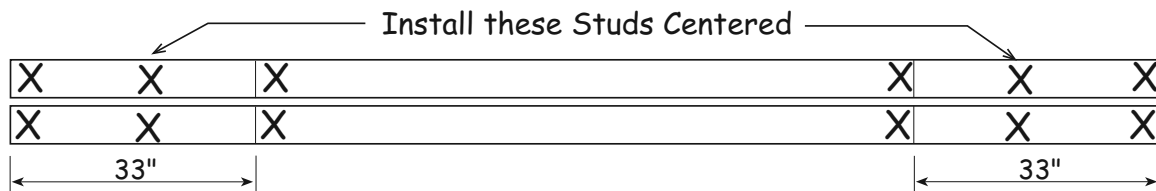
2. Install (7) seven pre-cut wall studs between the top & bottom plates. Nail top and bottom plates to studs using 10d sinkers.
3. Square wall frame. Measure the wall diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the wall is square.
4. Install the first siding panel with the 'LAP' edge flush with the side of the wall stud and flush with the top 2x4 plate. Nail siding with 6d galv. nails, spaced 8" apart. Cut the siding flush with the 2x4 bottom plate if you are installing the building on a concrete slab.
5. Install (2) two more siding panels. Cut the last panel flush with the end of the frame.

 Depending on length of pre-cut studs siding may extend below bottom plate.



Step 4 Assemble Front Wall Frame

1. Cut (2) two 2x4-12' boards to a length of 144" for wall plates. Position the boards together and indicate with 'X' Marks where the wall studs will be located.

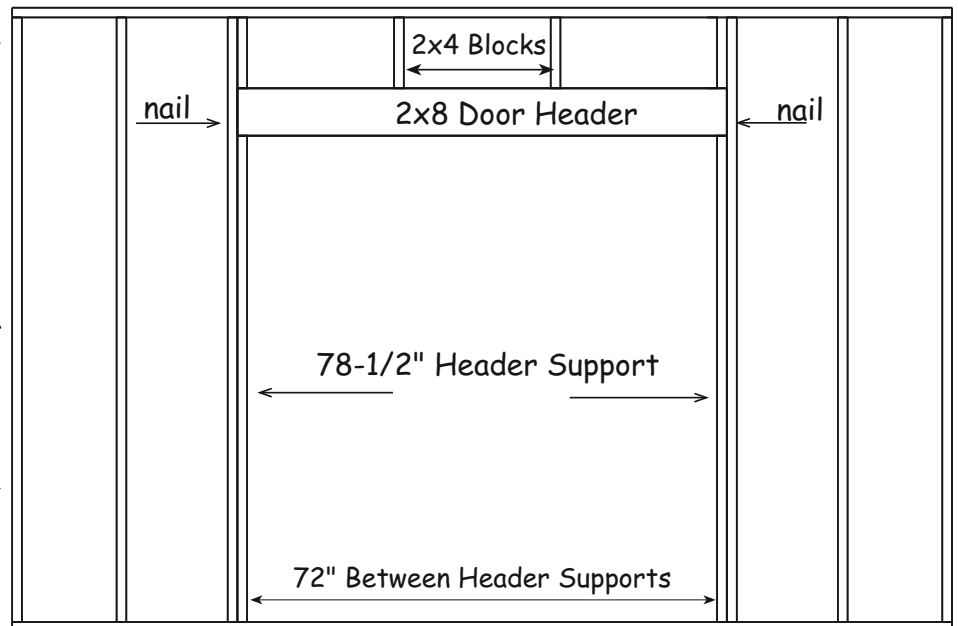


2. Install (6) six pre-cut wall studs between the wall plates where shown.

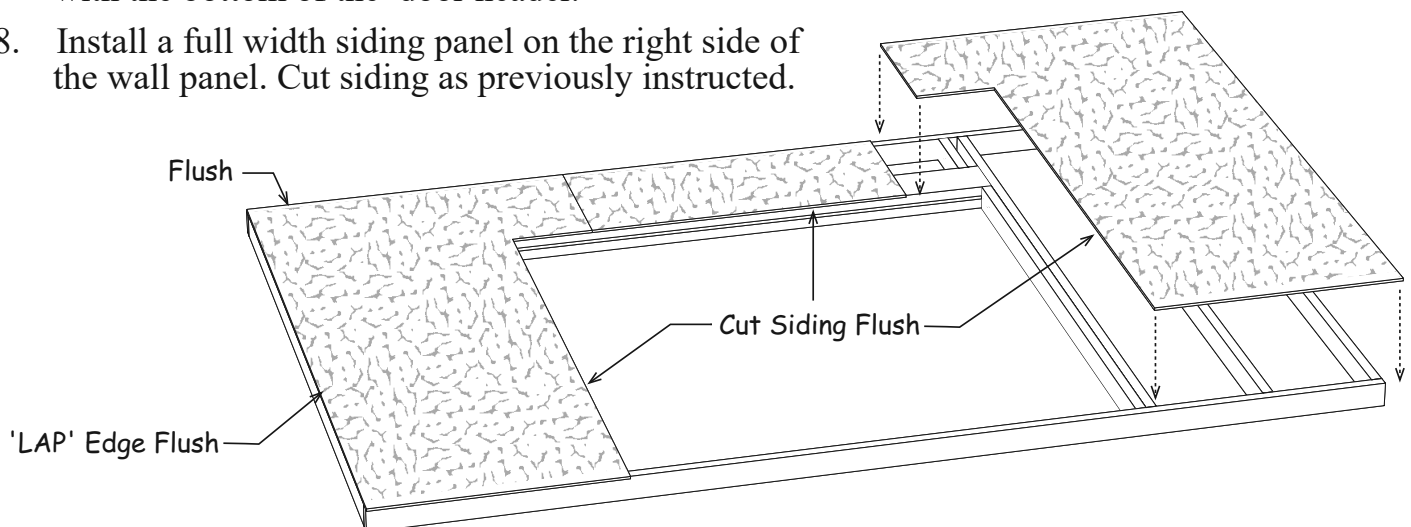
3. Cut (2) two pre-cut studs to a length of 78-1/2" and install as header supports. Nail to studs with 10d sinkers.

4. Install the door header on the 2x4 header supports. Nail to the stud with 10d sinkers.

5. Measure space between header and top plate. Cut (4) four pieces to this length from a pre-cut stud. Equally space the (2) center blocks. Nail through top plate and toenail to header. Use 10d sinkers.

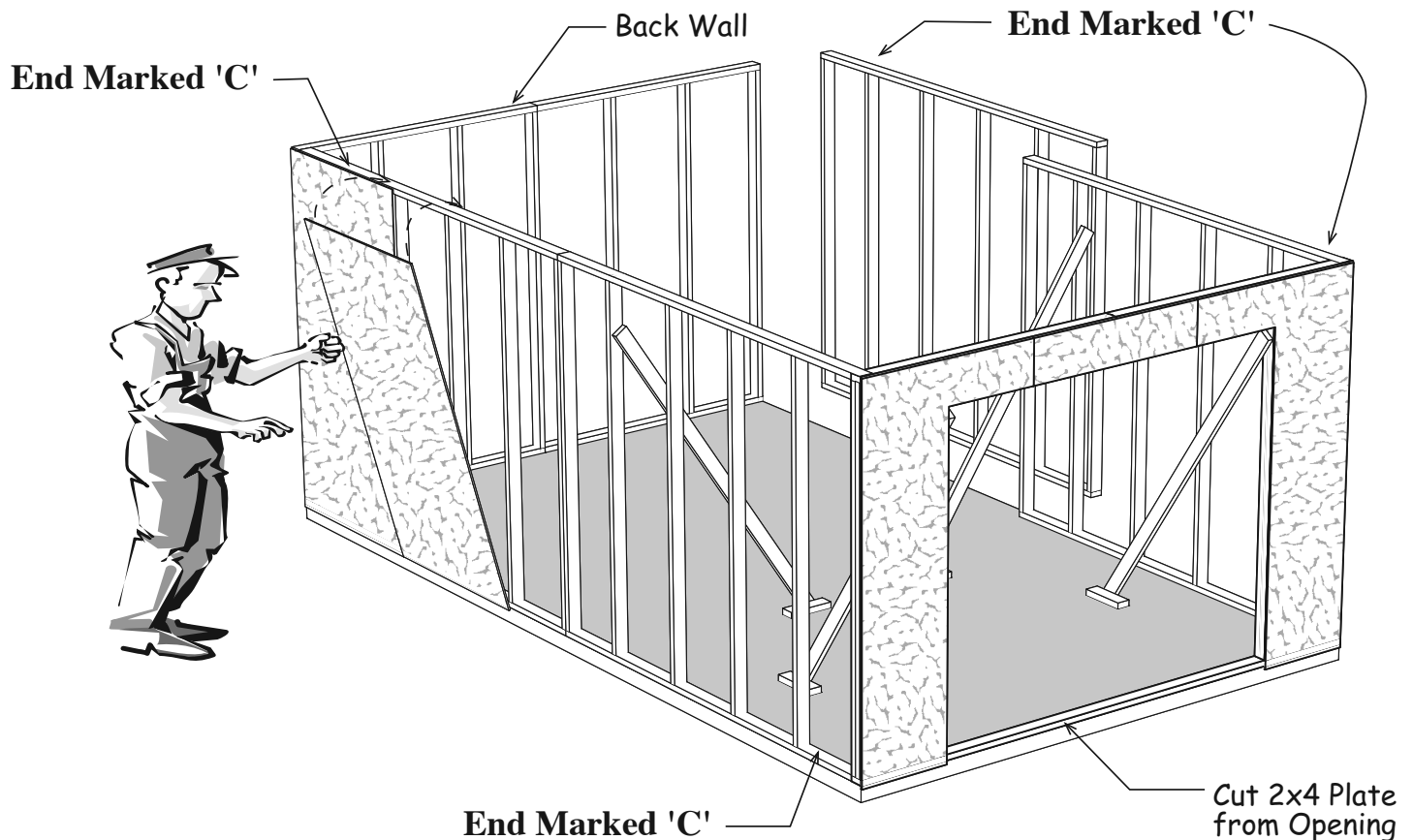


6. Install a full width siding panel with the 'LAP' edge flush with left side of wall frame and with top plate. Before installing siding, cut the siding flush with the side of the door opening and the bottom of header.
7. Install a 20"x48" siding panel above the door opening flush with top plate. Cut siding flush with the bottom of the door header.
8. Install a full width siding panel on the right side of the wall panel. Cut siding as previously instructed.



Step 5 Set Wall Panels

1. Erect back wall and side walls. **IMPORTANT:** Install the side walls with the 'C' marks oriented against the back and front wall panels. Secure walls together at the corners. Use (4) four 10d sinkers per corner. Brace side walls with pre-cut wall studs to hold walls secure and plumb.
2. Starting at back corner install a full width siding panel with the 'LAP' edge flush with the siding on back wall and flush with top plate. Nail siding to back wall and all 2x4s using 6d galv. nails spaced 8" apart
3. Install (4) four more siding panels. Last panel will extend 3-1/2" past wall to receive front wall panel.
4. Start at back wall and apply siding to opposite wall.
5. Erect front wall panel and secure corners with 10d sinkers. Nail siding to front wall.
6. Cut and remove bottom 2x4 from door opening.
7. Nail walls to floor through bottom plate. Space 10d sinker nails 24" apart.



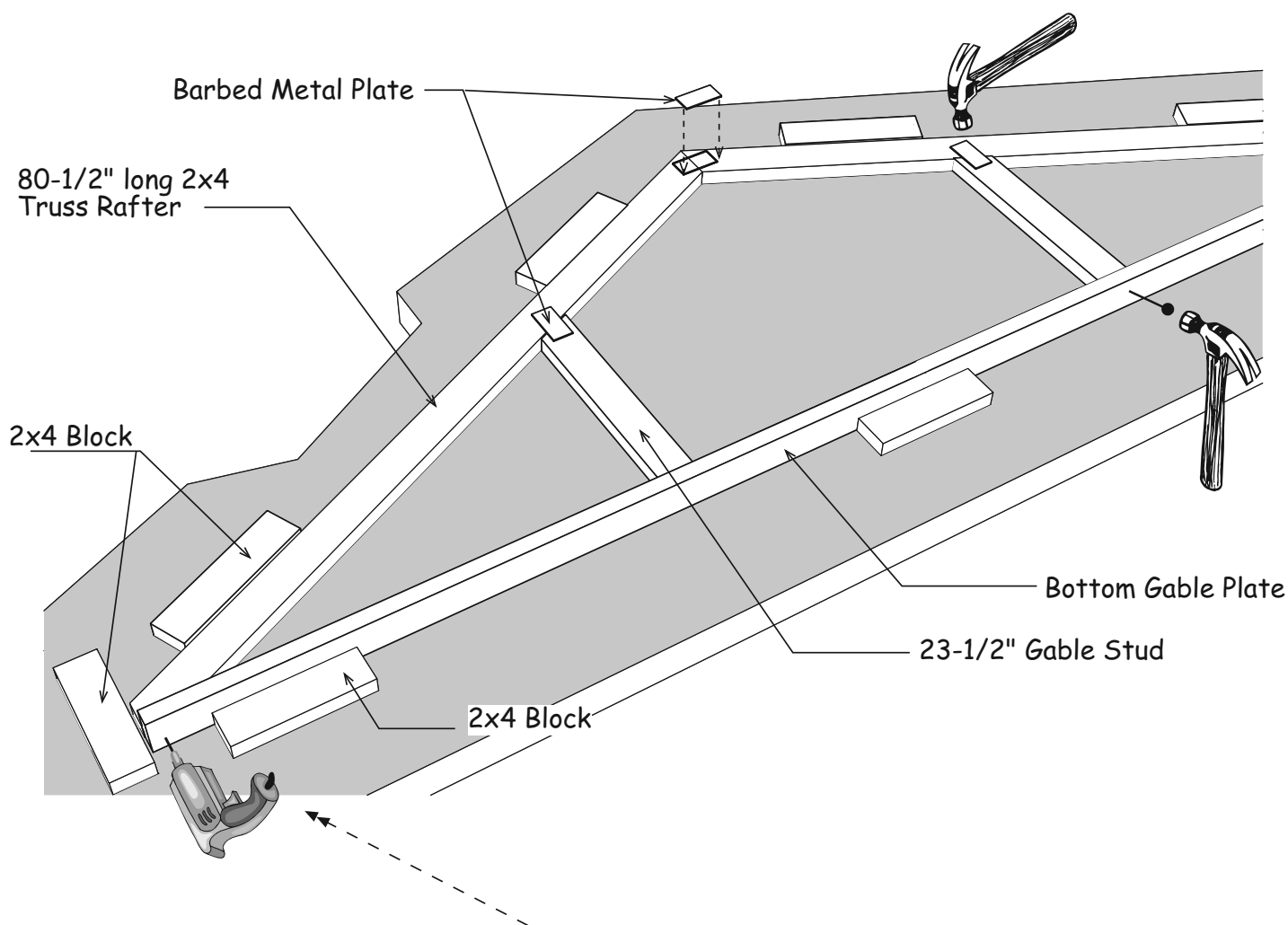
Step 6 Assemble Roof Gables

1. Cut (2) two 2x4-12' boards to a length of 144".
2. Place one of the 144" boards on the floor along with (2) two 80-1/2" long 2x4 rafters as shown below. Bottom 144" plate will be on edge. Rafters will lay flat.



There are short 2x4s, *that may have an angle on one end*, supplied in the kit. Use these to hold the rafters and bottom gable plate together by temporarily screwing the blocks to the floor using 2-1/2" screws. This will ensure that the gable frames and the trusses are identical.

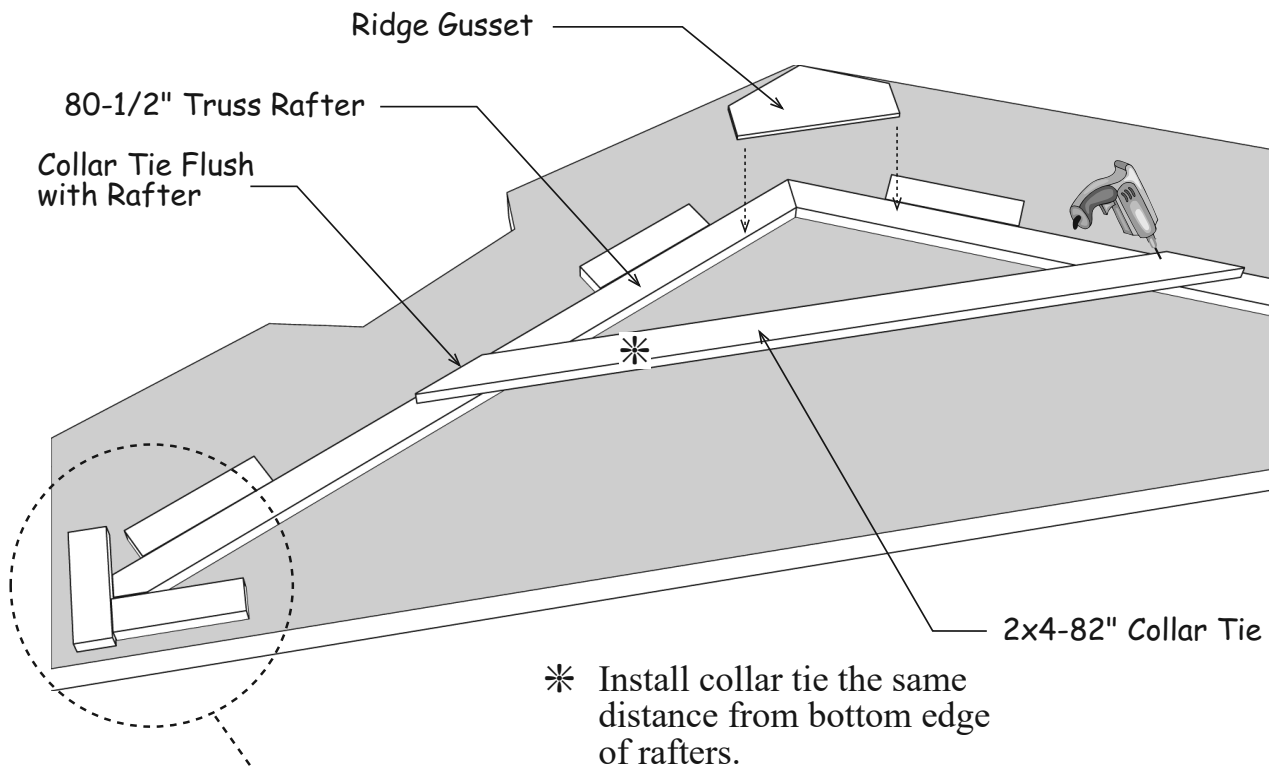
3. Secure the top of the rafters together with a 1"x4" barbed metal drive-on plate.
4. Install (2) two 23-1/2" gable studs with angle cut at one end. Nail through the bottom plate with 10d sinkers and secure the top with barbed metal drive-on plates.



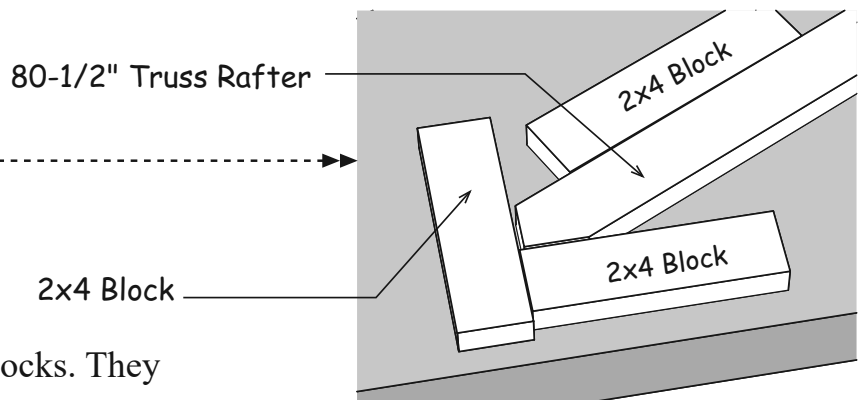
5. Secure the 2x4 bottom plate to the truss rafter with a 2-1/2" wood screw on both ends. Set gable aside.
6. Repeat steps to assemble another gable.

Step 7 Assemble Roof Trusses

1. Place (2) two 80-1/2" long 2x4 truss rafters and a 82" long collar tie together as shown below. The collar tie has an angle cut on both ends. Reposition the lower 2x4 blocks to hold the truss rafters in place. See '**Detail B**'.
2. Secure the 2x4 truss rafters at the top with a 8" x 16" wood gusset. Nail the gusset to the 2x4s with (14) fourteen 6d common nails,
3. Secure the 2x4 collar tie with (4) four 2-1/2" long wood screws at each end. Tip: Pre-drill holes with an 1/8" bit to prevent wood splitting at ends.
4. Turn this truss over and apply a wood gusset to the opposite side at the ridge.
5. Repeat to assemble (8) eight more trusses.



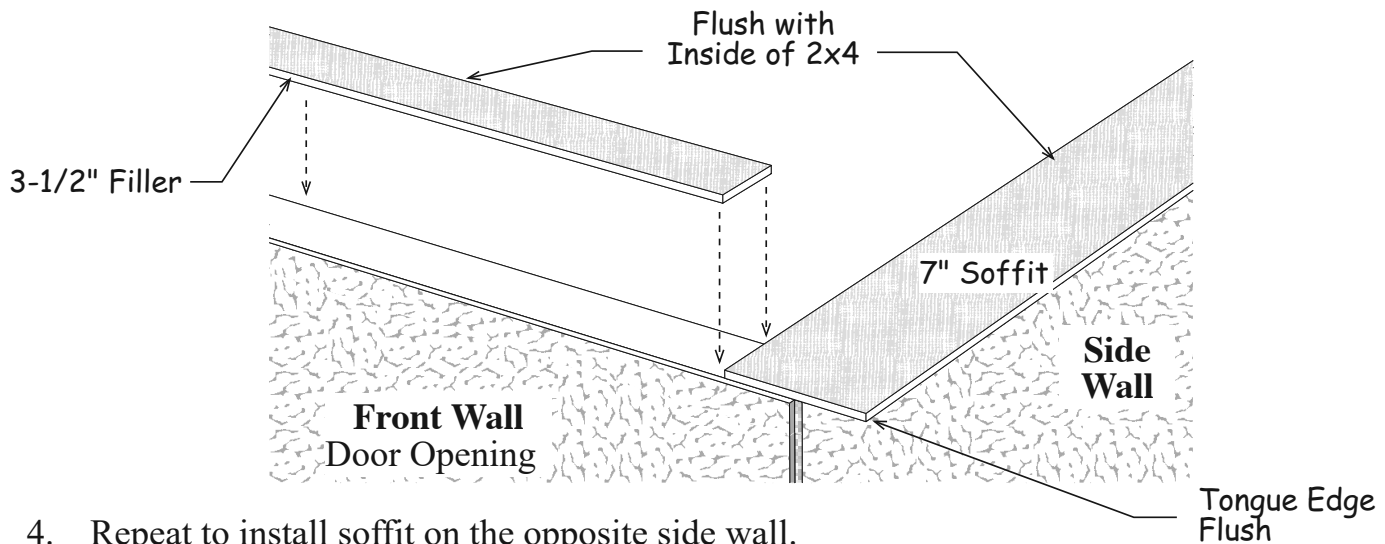
Detail 'B'



6. Remove and save the short 2x4 blocks. They will be used in a later step.

Step 8 Install Primed Soffit and Fillers

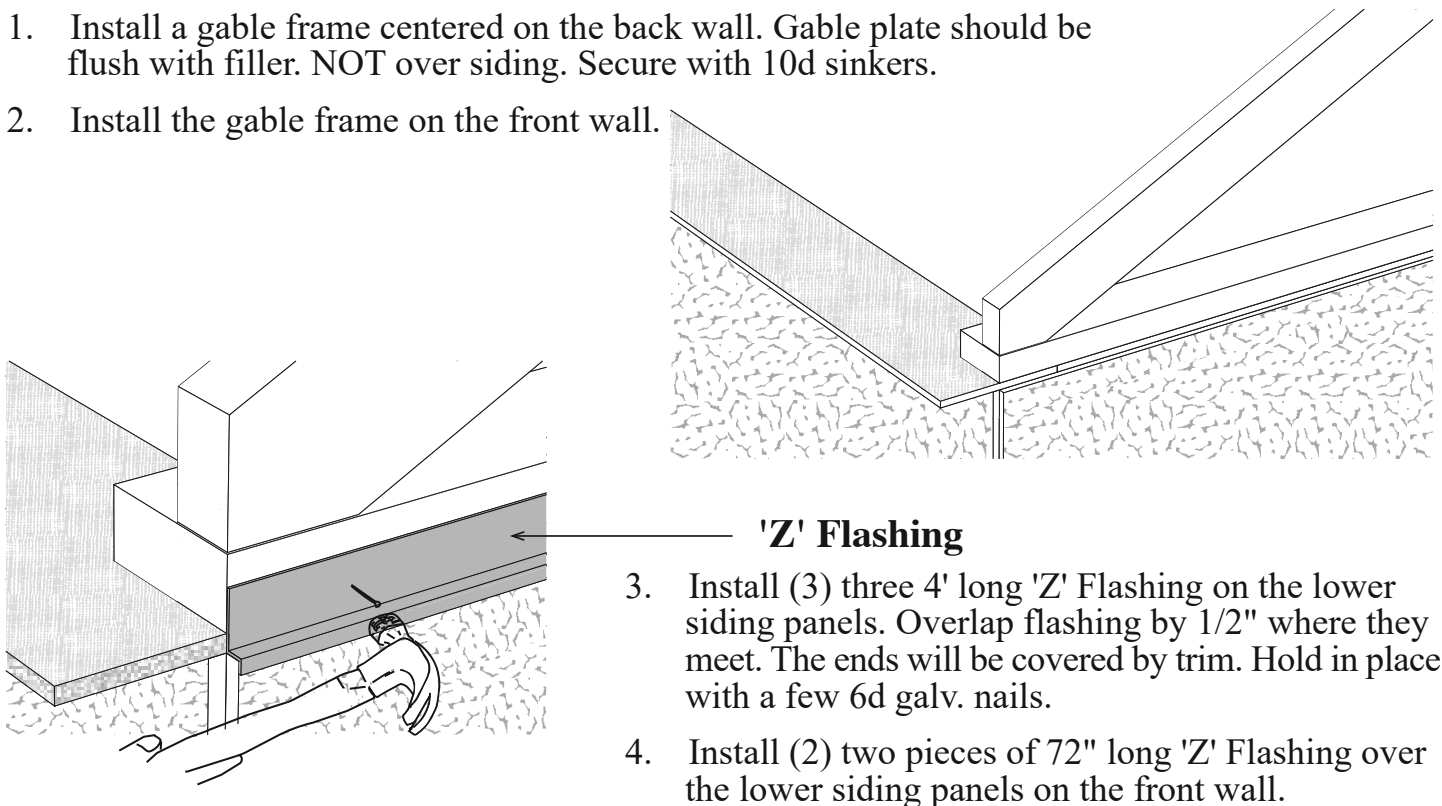
1. Install a 7" wide x 48-3/4" siding panel over the side wall with the primed side facing down. The 'tongue' edge should be flush with front wall plate, NOT over siding. Tack the soffit with a couple 6d common nails. Installing 2x4 tie plates in a later step will provide more nailing.
2. Install (4) four more siding panels. Cut the last soffit flush with the 2x4 wall plate.



4. Repeat to install soffit on the opposite side wall.
5. Install (3) three 3-1/2" wide x 48-3/4" filler panels over the front and back wall. Cut the last filler to fit between the soffit on the side walls.

Step 9 Install Roof Gables

1. Install a gable frame centered on the back wall. Gable plate should be flush with filler. NOT over siding. Secure with 10d sinkers.
2. Install the gable frame on the front wall.

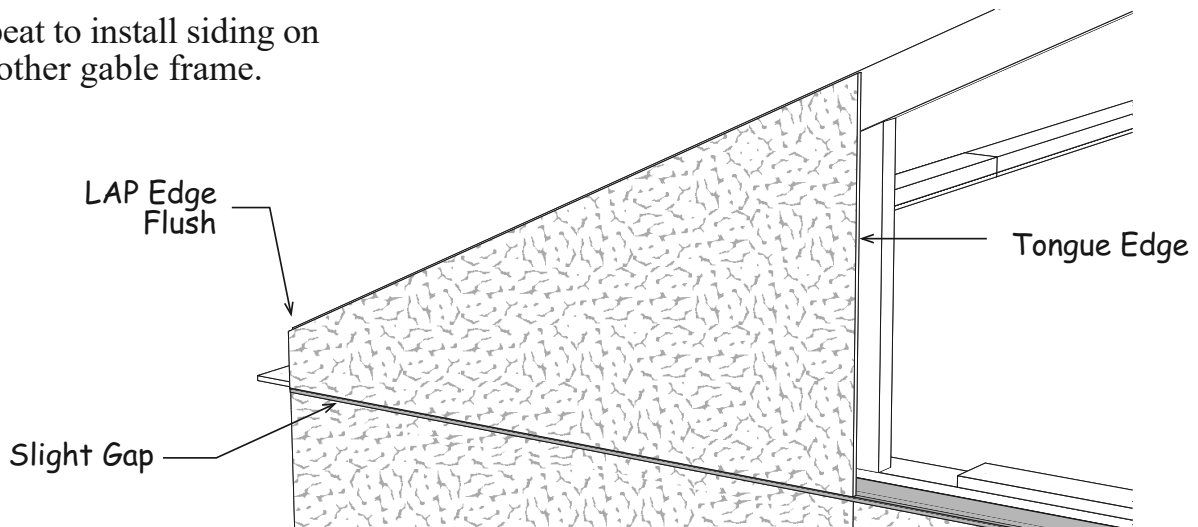


3. Install (3) three 4' long 'Z' Flashing on the lower siding panels. Overlap flashing by 1/2" where they meet. The ends will be covered by trim. Hold in place with a few 6d galv. nails.
4. Install (2) two pieces of 72" long 'Z' Flashing over the lower siding panels on the front wall.

Step 10 Install Siding on Gables

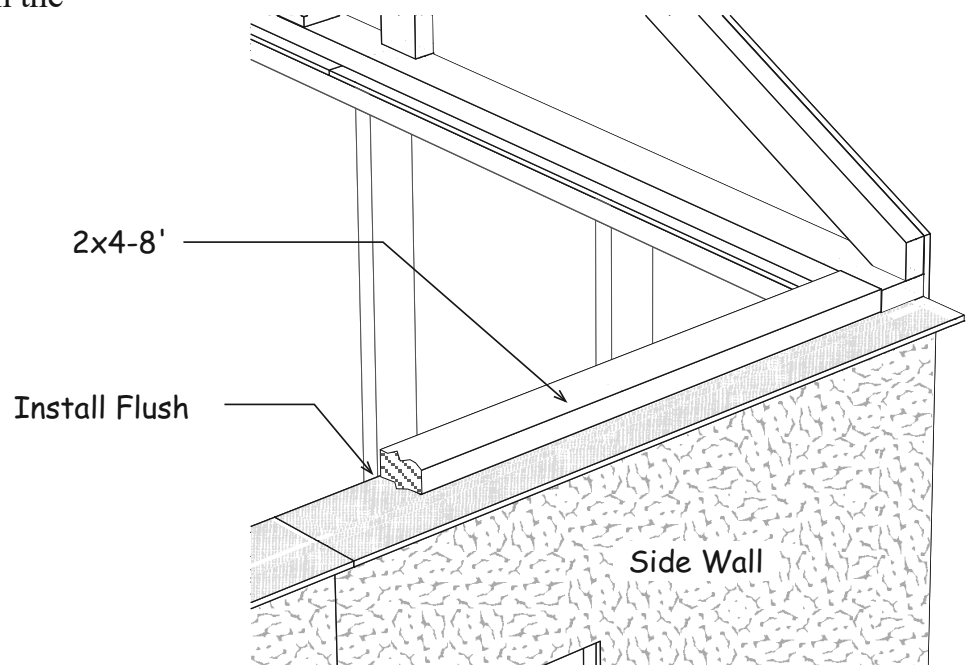
 *Gable siding is factory cut to be installed either working from left to right or right to left. Regardless of the direction always begin with the 'LAP' Edge flush with end of the gable.*

1. Locate pre-cut gable siding. Install with 'LAP' edge flush with end of gable frame. When properly set there will be a slight gap between the 'Z' flashing and bottom edge of siding. Use 6d galv. nails spaced 8" apart.
2. Install center gable siding. Cut last panel flush with end of gable frame.
3. Repeat to install siding on the other gable frame.



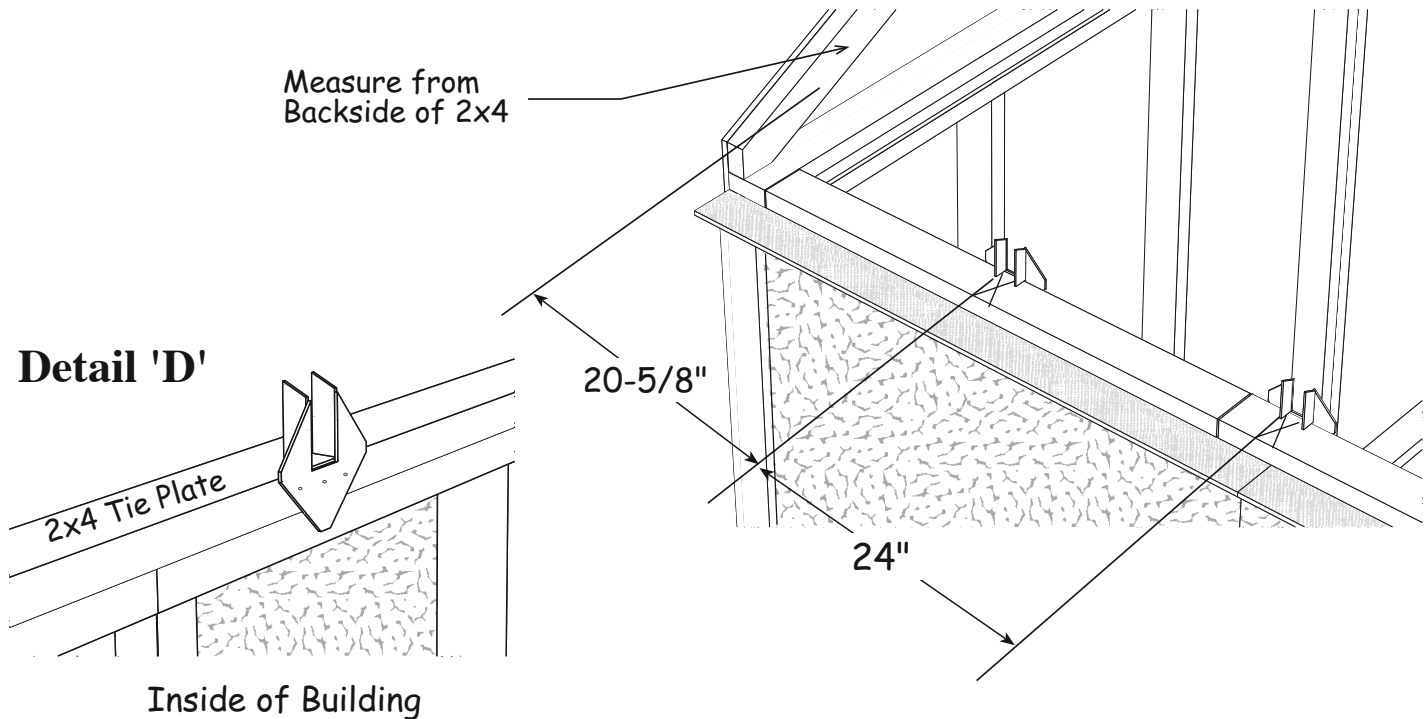
Step 11 Install 2x4 Tie Plates on Side Walls

1. Install a 2x4-8' on a side wall against the gable on the back wall and flush with the inside of soffit. Cut a 2x4x12 to fit against gable on front wall. Use 10d sinkers.
2. Repeat to install tie plates on the opposite side wall.



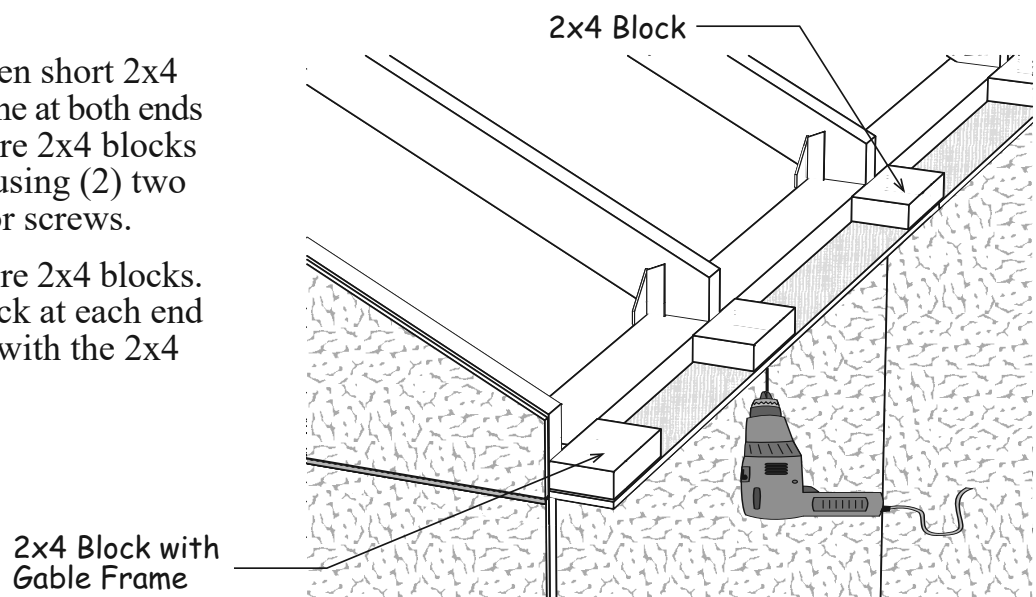
Step 12 Layout Roof Trusses & Install Soffit Blocks

1. Starting on back corner measure from the backside of the 2x4 gable frame when marking the location of the first truss. Continue 24" spacing to other gable. **Important:** When marking the opposite wall, place the 'X' mark on the same side of the line so your trusses are parallel when they are installed.
2. Install metal hangers to the tie plate with 1-1/2" hanger nails. The opening should line up with the 'X' mark, the bottom of the opening, flush with the 2x4 tie plate. **Detail 'D'**.



3. Set roof trusses. Secure trusses to metal hangers with 1-1/2" hanger nails.

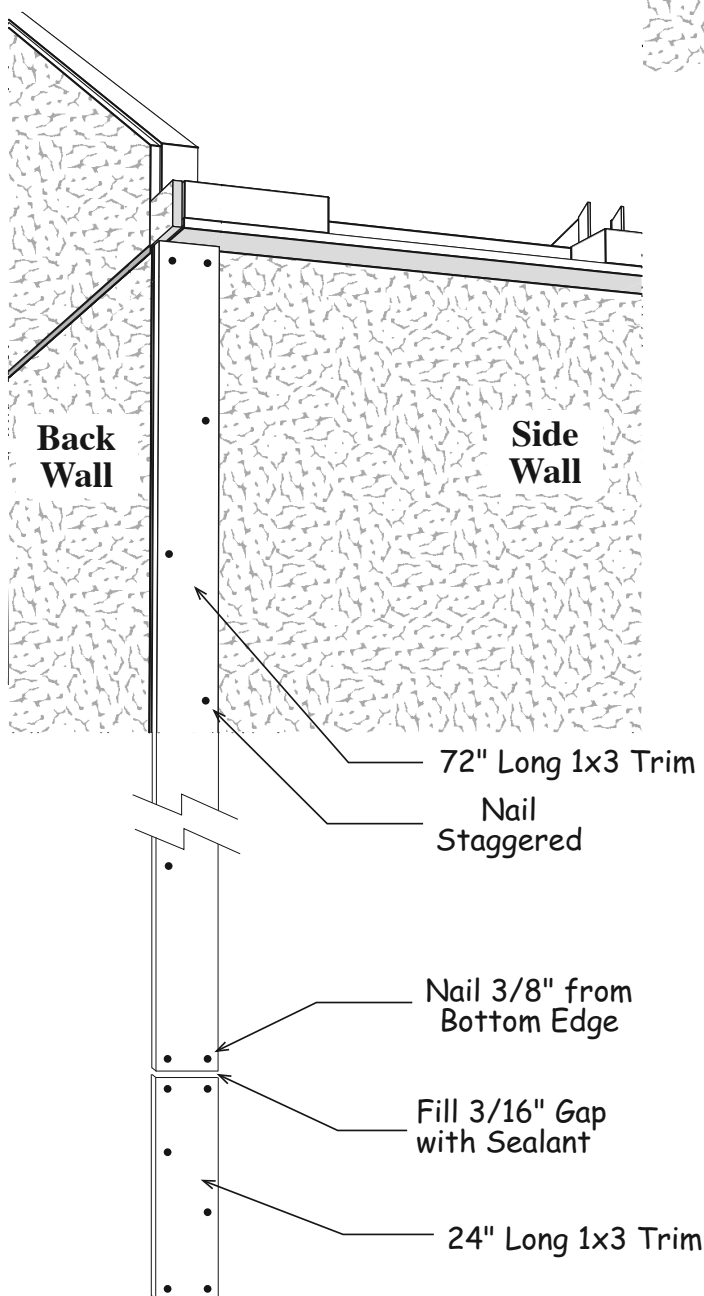
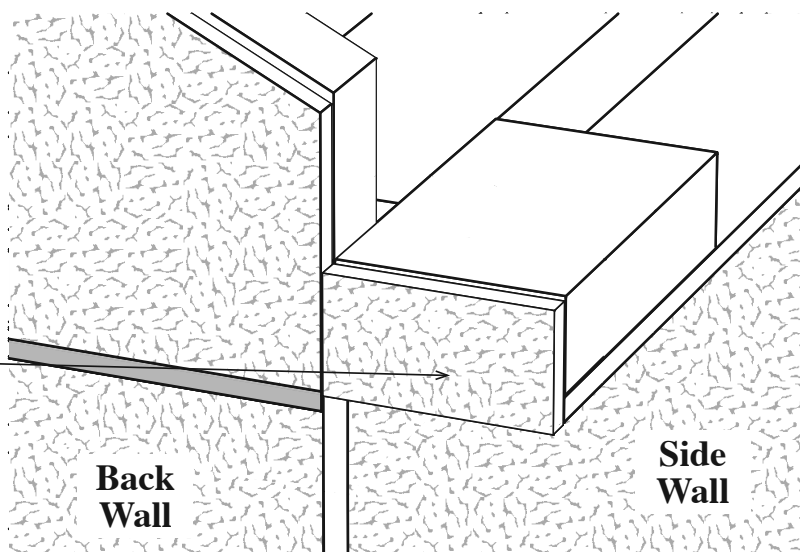
4. Gather (18) eighteen short 2x4 blocks and install one at both ends of each truss. Secure 2x4 blocks to the soffit panel using (2) two 1-1/2" long exterior screws.
5. Gather (4) four more 2x4 blocks. Install one 2x4 block at each end of the soffit, flush with the 2x4 gable frame.



Step 13A Install Trim

1. Install (4) four small primed siding fillers, *packed with the hardware*, over the 2x4 soffit blocks. Siding fillers will be flush with the gable siding. Use 6d galv. nails.

Siding Filler



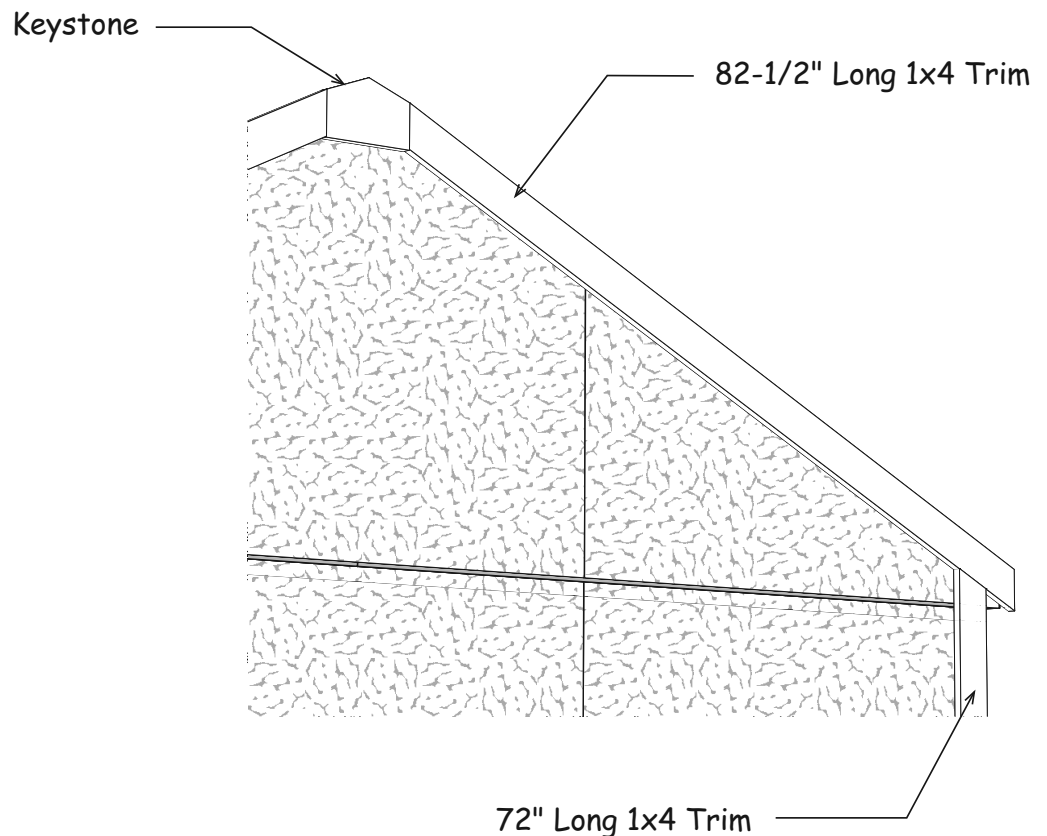
When installing trim in later steps space nails and seal as described in this step.

2. Locate (4) four 24" and (4) four 72" long 1x3 trim boards. Install 72" long boards on side walls at corners under soffit flush with siding on back wall. Nail with (2) two 6d galv. nails 3/8" from top and bottom of board. Then nail staggered along board 12" apart. **See diagram.**
3. Install 24" long boards under 72" long boards. Leave a gap of 3/16" to allow for sealant to fill gap. If necessary cut trim to be flush with bottom of siding. Fill gap with sealant.
4. Repeat on remaining side wall corners.

Step 13B Install Trim

 **Do not install gable trim on front in this step.**

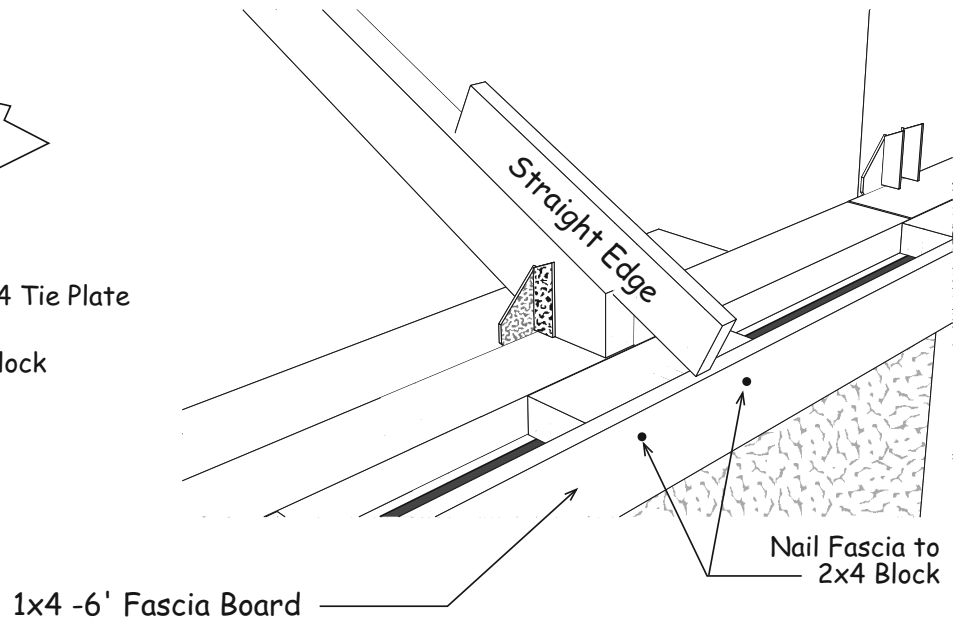
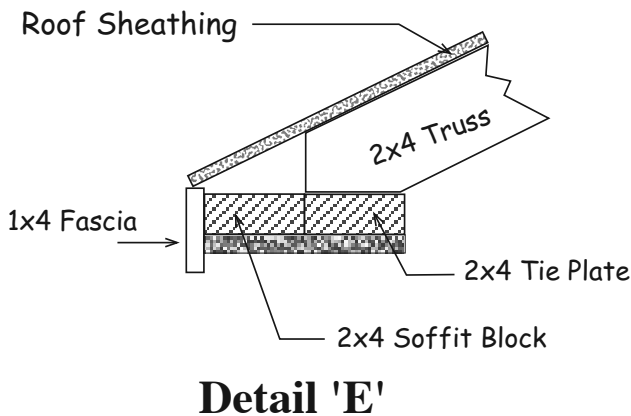
5. Install a 8-1/2" long trim board, *called a keystone*, at the top of the gable flush with the top of the gable frame. Use 6d galv. nails.
6. Locate (2) two 82-1/2" long 1x4 trim boards. Butt each board against the keystone and flush with the top of the gable frame. Use 6d galv. nails.



7. Locate (2) two 72" long 1x4 trim boards with angle cut on one end. Install (1) one on each corner flush with the 1x3 corner trim on the side wall and under gable trim. Use 6d galv. nails.
8. Locate (2) two 27" long 1x4 trim boards and install under 72" long boards. Leave a gap of 3/16". If necessary cut trim to be flush with bottom of siding.

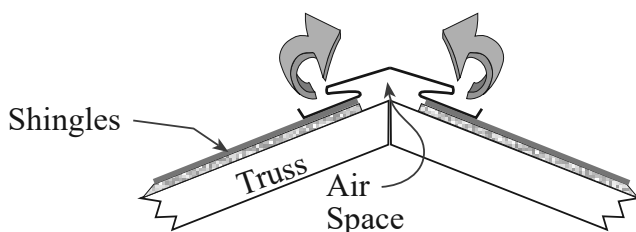
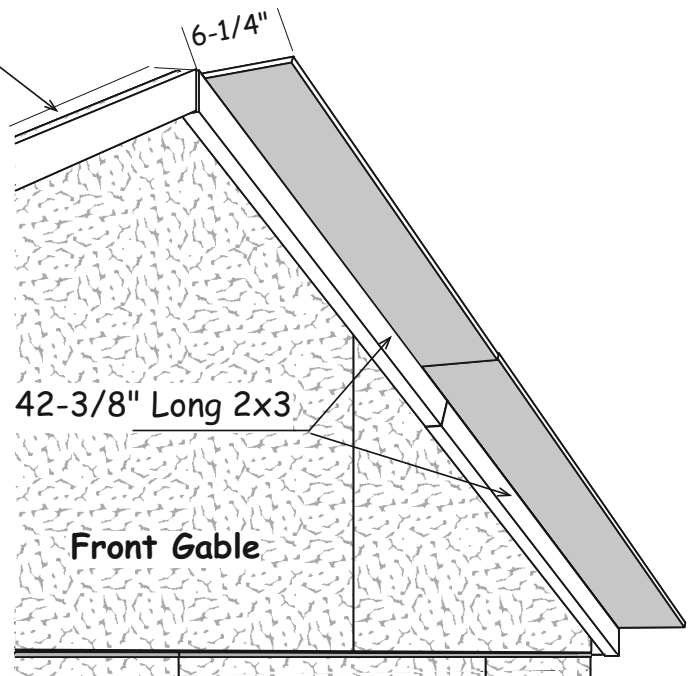
Step 14 Install Fascia on Side Walls

1. Install a 1x4-6' fascia board against the rear gable trim. Install the fascia so the bottom edge of the roof sheathing will rest on the edge of the 1x4. **See Detail 'E'**. Use a straight edge to align the 1x4 board with the top of the trusses. Use 6d galv. nails.
2. Install (2) two more 6' fascia board. Do not install the last fascia board. This will be applied after the front overhang is installed.
3. Repeat on opposite side wall.



Step 15A Install Roof Sheathing

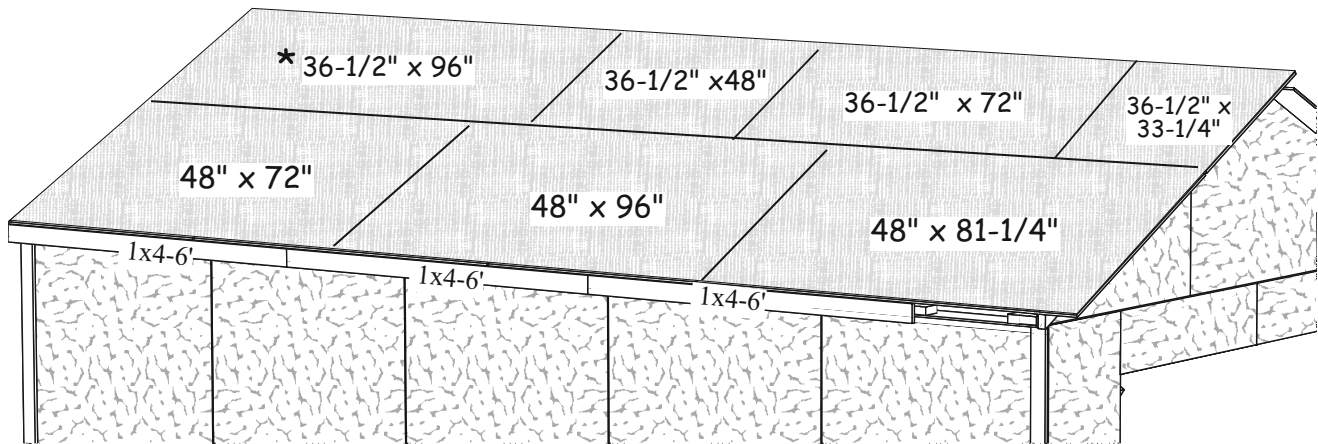
1. Install (4) four 42-3/8" long 2x3 boards on the front gable flush with the top of the gable frame. Use 10d sinkers
2. Plumb each truss and gables.
3. Refer to sheathing layout at the top of the next page. Install roof sheathing starting at the front gables lower corner. The roof sheathing should extend 6-1/4" beyond the 2x3s. Continue to back wall. Use 6d common spaced 12" apart. The top row of roof sheathing will be about 1" below the ridge to allow for optional ventilation.



Step 15B Install Roof Sheathing continued

 Sheets should meet at center of trusses when installed

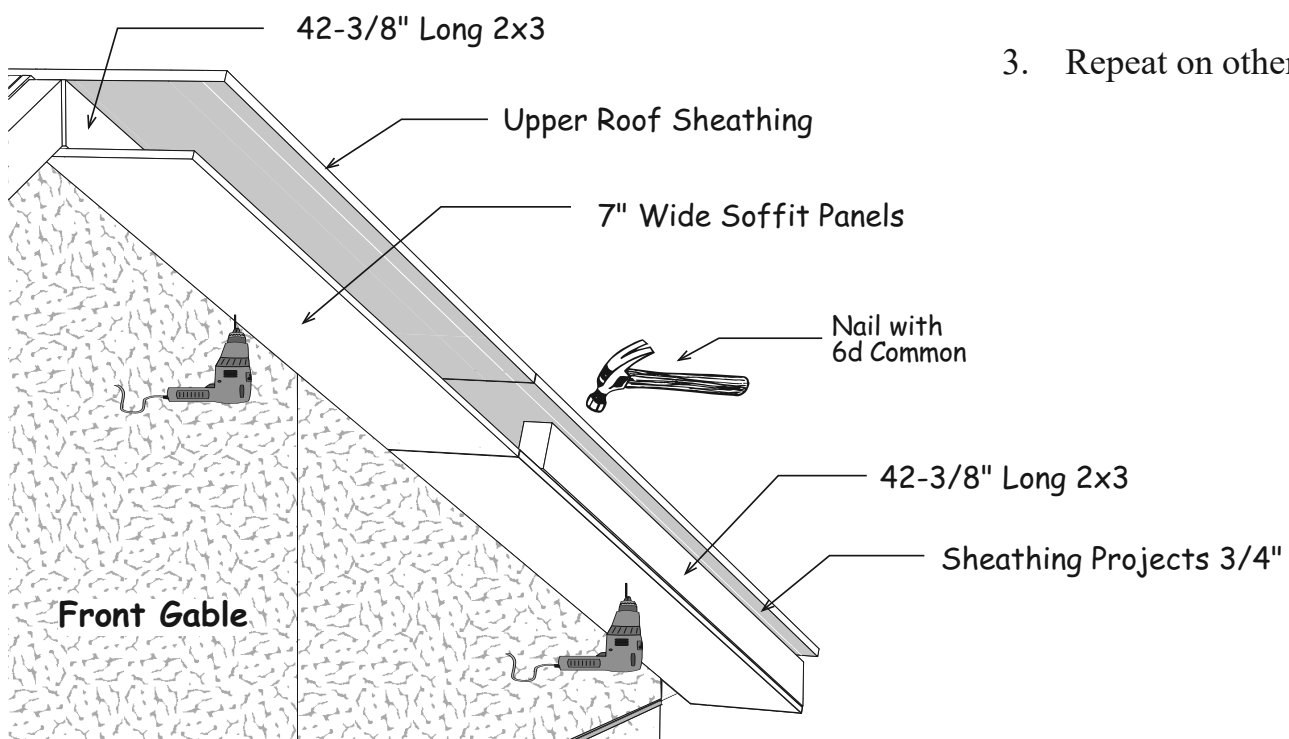
4. From 4x8 sheets of OSB cut to the sizes indicated with an * below. Repeat for opposite side.



5. Trim off any sheathing that extends over the rear gable trim.

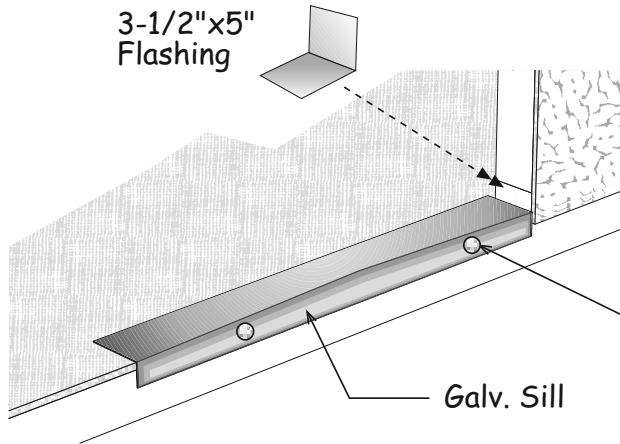
Step 16 Install Front Soffit

1. Gather (2) two 7" wide soffit panels. Install first panel flush with lower end of 2x3 and against siding. Install with 1-1/2" exterior screws. Cut upper panel to fit.
2. Install (2) two 42-3/8" long 2x3s between the roof sheathing and the 7" soffit panels. Install with 1-1/2" exterior screws on soffit and 6d common through roof sheathing. Set these boards flush with soffit panels. The roof sheathing will extend 3/4" past the 2x3s to allow for trim.



3. Repeat on other side.

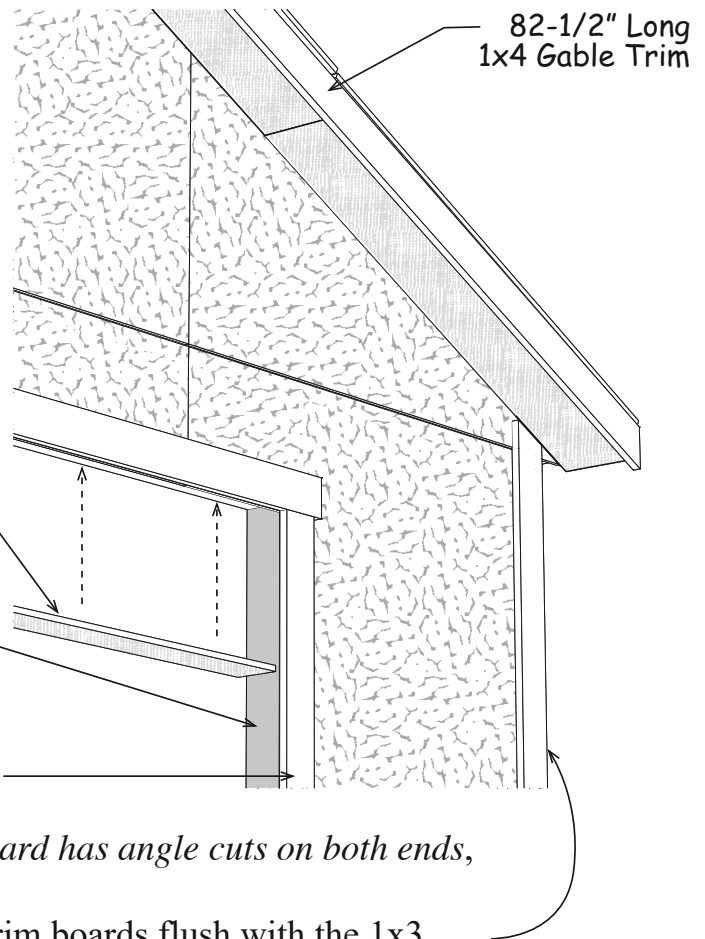
Step 17 Install Door Flashing



1. Locate in the pocket door box (2) two 3-1/2" x 5" metal flashing and bend along width to 90 degrees. Install at each corner of the door opening. These will be covered in the next steps.
2. Install the galv. door sill over flashing in the center of the door opening. Use 1-1/4" pan head screws along the front edge.

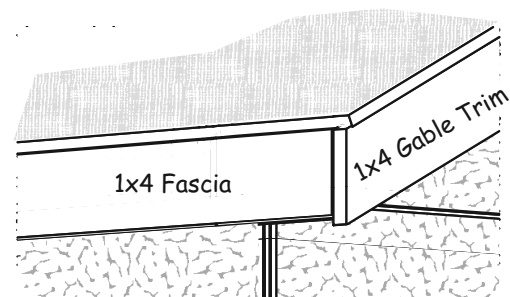
Step 18 Install Gable & Door Trim

1. Install a keystone and gable trim under the roof sheathing as done in **Step 13**.
2. Install a 3-7/8" x 72" primed jamb material on the top of the door opening, flush with the front wall siding. Use 6d galv. nails.
3. Locate (2) two 3-7/8" x 79-5/8" primed jamb material and install on the sides of the door opening, flush with the front wall siding.
4. Measure from top of door opening to bottom of siding. Cut (2) two 80-3/4" long 1x4s to this length and install flush with door jamb and top of door opening.
5. Install an 81-3/4" long 1x4 trim board, *this board has angle cuts on both ends*, centered across the top of the door opening.
6. Install (2) two 72" long 1x4 and (2) two 27" trim boards flush with the 1x3 corner trim on the side walls. Use 6d galv. nails.



Step 19 Finish Side Wall Trim

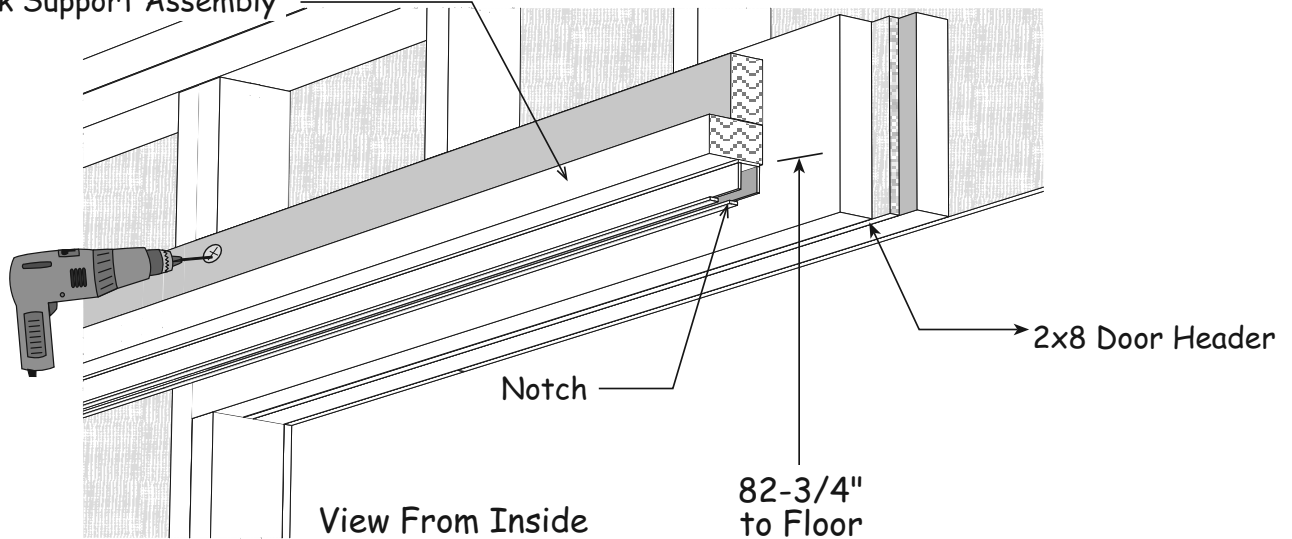
1. Locate (2) two 1x4-4' trim boards. Cut each to fit against back of front gable trim and install on the side walls.



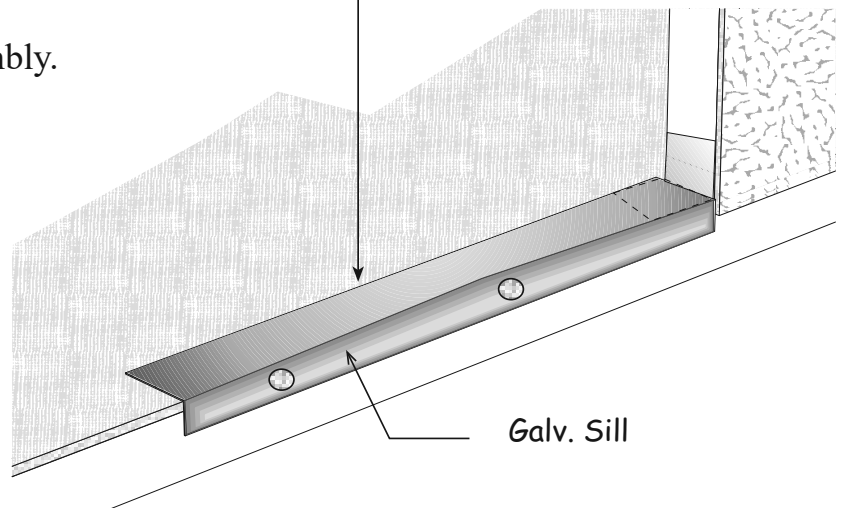
Step 20 Install Pocket Doors Track

1. Install a 68-1/2" long Track Support Assembly 82-3/4" from the floor. **Important:** measure from the bottom of the 2x3 on the support assembly to the floor. Insure the notched end of track is center of door opening. Use 2-1/2" screws.

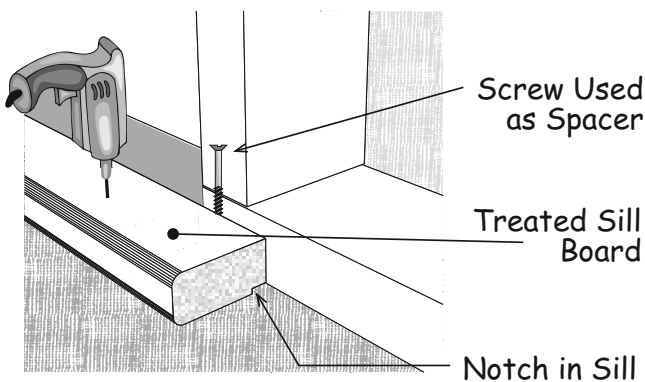
2x3 Track Support Assembly



2. Install the other track support assembly.



View From Inside



5. Install the treated door sill behind the door opening. There needs to be a space between the treated sill and the inside wall. To position the sill, insert a 2-1/2" screw between the treated sill and the inside wall as a spacer. Screw the sill to the floor with (6) six 2-1/2" long screws. Remove the screw used as a spacer.



Building Tip; run a bead of caulking where flashing, treated sill and aluminum sill meet to prevent moisture from penetrating.

Step 21A Install Doors

1. Select the door with the siding and trim board extending past the 2x4 frame, *see detail below*. Standing on the inside of building slide the rollers on the left side track as shown below.

If it is necessary to adjust the door height one or both door carriers can be adjusted. Loosen screws that secure carrier(s) to the door. Adjust door so the aluminum angle, on the bottom of the door, does not rub on the treated threshold. Tighten the screws.

Tip: Inserting a screw, *shown below*, will prevent the doors from falling through the opening between the track, if the door is opened too far.

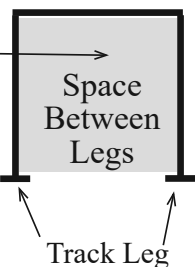
IMPORTANT:

DO NOT install both track rollers in the space between the Track Legs.

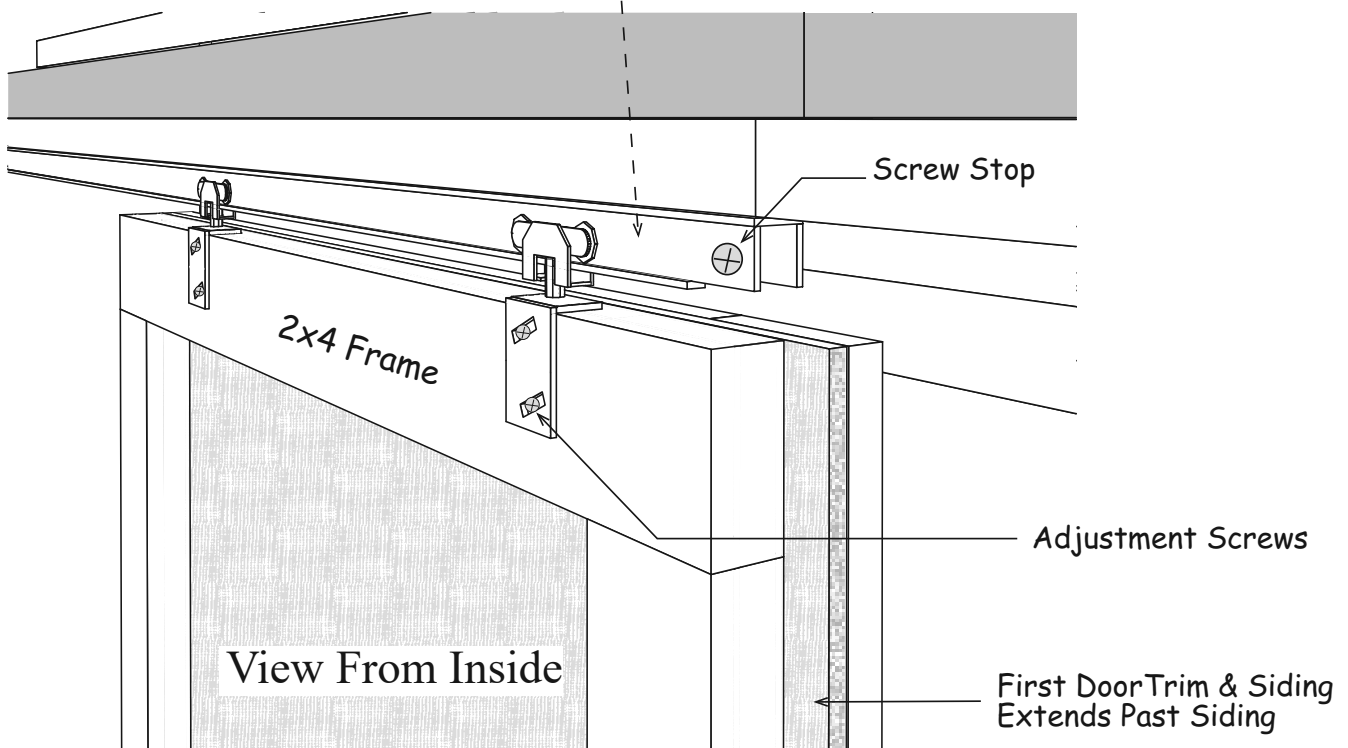
Install the track rollers on either side of the inside track leg.

See detail below.

Door Track
End View

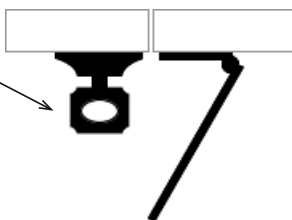
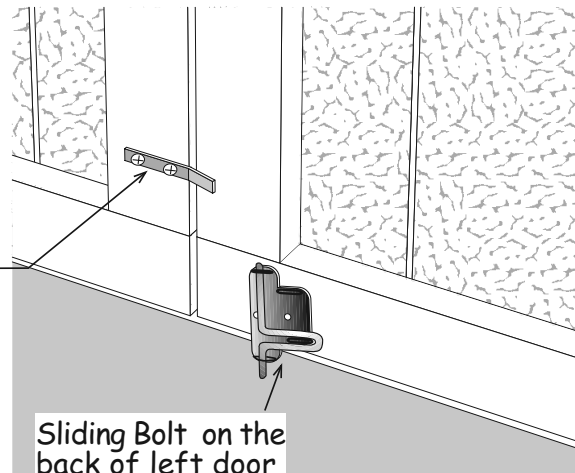


Install track rollers on this track leg.



Step 21B Install Doors continued

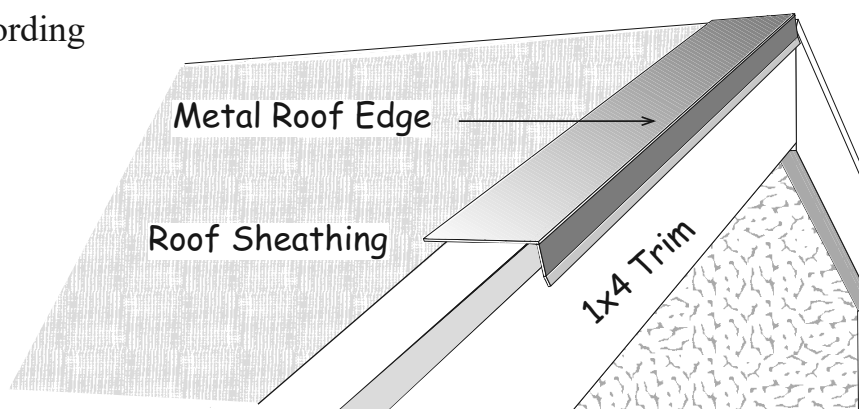
2. Hang the other door. On this door, install a sliding door latch, on the lower back of the door to secure this door in place when closed. You will need to drill a hole in the floor for the round shaft to drop into.
3. Install a metal plate to the bottom of the right door. The angle end will hold the bottom in-line with the left door when closed.
4. Install the door handles and locking door hasp on the outside of the doors. When installed properly the hasp will fold in half to receive locking latch and screw heads will be covered.



Step 22 Install Roofing — Not Supplied in Kit

1. Install metal roof edging along the end walls and the front edge of the roof sheathing.
2. Install felt paper and shingles according to manufacture's instructions.

<i>Optional Roof Covering</i>	
12 bdl.	Roof Shingles
9 pcs.	Roof 'drip' Edge-10'



Packing List for Wood Sliding Doors

2	36" x 79" Wood Doors w/ Primed Siding		
2	Boards w/ Alum. Track Attached		
1	Treated Wood Threshold		
1	Galvanized Door Sill		
1	Door Trim	1x4	81-3/4"
2	Door Trim	1x4	80"
1	Door Jamb	3-7/8" x 72"	
2	Door Jamb	3-7/8" x 79 - 5/8"	

4	Track Rollers with Brackets		
1	Swivel Door Latch		
2	Door Handles		
1	Sliding Latch		
1	Flat Steel Bar Door Guide		
2	3" x 5" Galv Flashing		
4	1-1/4" Pan Head Screws for Door Sill		
16	2-1/2" Wood Screws / square bit		

12'x20' Packing List

7	2x4 for Collar Ties	82"
18	2x4 for Truss Rafters	80-1/2"
4	2x4 for Gable Studs	23-1/2"
18	2x4 for Soffit Blocks	5" or longer
6	1x4 for Side Wall Fascia	72"
4	1x4 for Gable Trim	82-1/2"
4	1x4 for Corner Trim	72"
4	1x4 for Corner Trim	27"
4	1x3 for Corner Trim	72"
4	1x3 for Corner Trim	24"
8	2x3 for Gable Overhang	42-3/8"
14	Truss Gussets	7/16" 8" x 16"
2 ea.	Siding Panels	20" x 48-3/4"
2 ea.	Gable Siding	48" x 40" <i>angle cut</i>
4 ea.	Gable Siding	48" x 28" <i>angle cut</i>
12 ea.	Soffit Panels	48" x 7"
6 ea.	Soffit Fillers	48" x 3-1/2"
4 ea.	Siding Fillers	2" x 3-1/2"

Qty.	<i>Material Supplied by Local Supplier</i>	
42 pcs.	2x4	Pre-cut Wall Studs
2 pcs.	2x4 - 8'	Tie Plates
8 pcs.	2x4 - 10'	Wall & Tie Plates
8 pcs.	2x4 - 12'	Wall & Tie Plates
2 pcs.	2x8 - 8'	Door Header
15 pcs.	Exterior Siding	4x8
4 pcs.	OSB Sheathing	4x8

4	lbs.	10d	Sinkers
5	lbs.	6d	Galv.
5	lbs.	6d	Common
2	lbs.		Hanger Nails
100 ea.	1-1/2"		Exterior Screws
75 ea.	2-1/2"		Deck Screws
6 ea.	1"x4"		Metal Plates
2 ea.	72"		'Z' Flashing
3 ea.	48"		'Z' Flashing
14 ea.	H1		Metal Truss Hangers
2 ea.	1x6 Keystone	8-1/2"	
2 ea.	Sheathing	7/16"	48" x 81-1/4"
2 ea.	Sheathing	7/16"	48" x 72"
2 ea.	Sheathing	7/16"	36-1/2" x 72"
2 ea.	Sheathing	7/16"	36-1/2" x 48"
2 ea.	Sheathing	7/16"	36-1/2" x 33-1/4"
2 ea.	Header Filler	7/16"	7-1/4" x 48"
<i>Additional material not used in this model</i>			
2 ea.	Door Jamb	3/8"	5-3/8" x 48"
2 ea.	Door Jamb	3/8"	5-3/8" x 84"
1 ea.	Siding Panels	3/8"	20" x 48-3/4"
2 ea.	Soffit Panels	3/8"	48" x 7"
4 ea.	Gussets	7/16"	8" x 16"

<i>Qty. Material Shipped in 4' Extension Kit</i>		
2	2x4 Collar Ties	82"
4	2x4 Truss Rafters	80-1/2"
2	1x4 Side Wall Fascia	48"
4	2x4 Soffit Blocks	5" or longer
4	H1 Metal Truss Hangers	