

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 Level Safety Glasses
Cordless Drill Measuring Tape Dust Mask

Cordless Drill Measuring Tape Dust Mask
Hammer 6'-8' Ladder(s) Phillips Screwdriver
Pencil 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

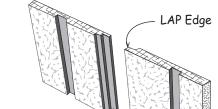
Tie Plate - 2x4s connecting wall sections together

Header - Spans top of door opening

OSB - Oriented Strand Board

LAP - Edge of siding that overlaps Tongue

Tongue - Edge of siding that is overlapped



Primed Siding Detail

Tongue Edge

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

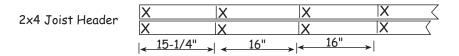
724-866-4357 - After hours and weekends

Email - questions@barnkits.com

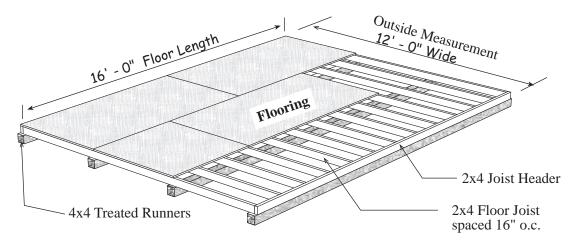
Typical Wood Floor System

Shown below is a typical wood floor. Depending on your area, the construction may have to be changed to meet local codes. When using a concrete slab, use the same overall foundation measurements. Install foam 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. Cut (2) two 2x4 joist headers to 16' - 0". Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

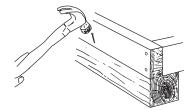


2. Cut 2x4-12' floor joist to 11'-9". Treated lumber may be thicker than 1-1/2". Take this into account when cutting the length of floor joists. Shorten joist measurements if necessary to obtain 12'-0" building width.



It is important that the floor be level and square. Square the floor as follows: before nailing the flooring, measure the floor diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the floor is square.

Material Description	12' x 16' shed
2x4 Joist Headers	2 pcs. 16'
2x4 Floor Joist	13 pcs. 12'
4x4 Treated Runners	8 pcs. 8'
Flooring 5/8" or 3/4"	6 pcs. 4x8
Screw Floor Nails	2 lb. 8d
Galv. Box Nails	2 lb. 16d



Nail 2x4 joist headers and floor joist to 4x4.

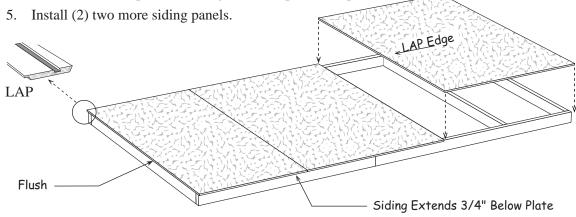
\blacksquare Do not discard any material until construction is complete. Including short blocks of 2x4s.

Step 1 Assemble 12' Long Side Walls

1. Gather (4) four 2x4-72" boards and position together then indicate with 'X' mark where the wall studs will be located. Mark the ends that will butt together with 'the letters A' and 'B'.

72" Wall Plate				72" Wall Plate			
X	X	X	AB	X	X	X	
X	X	X	AB	X	X	X	
	23-1/4" > < 24	4" →		i-1/4" → < 2	4" →		
	72" Wall Plate —						
				AB)	
2×4-72"	Wall Studs		72	Bottom Plate			

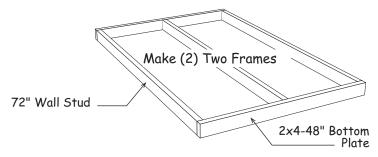
- 2. Install (8) eight 72" wall studs between the top and bottom plates. Use 10d sinkers, (2) two nails at each stud end. Nail both wall frames together with 10d sinkers.
- 3. Square wall frame. *Measure diagonally (corner to corner). The measurements will be the same when the wall is square.*
- 4. Install the first siding panel with the 'LAP edge' flush the end of the wall and extending 3/4" below the bottom plate. Use 6d galv. nails spaced 8" apart.



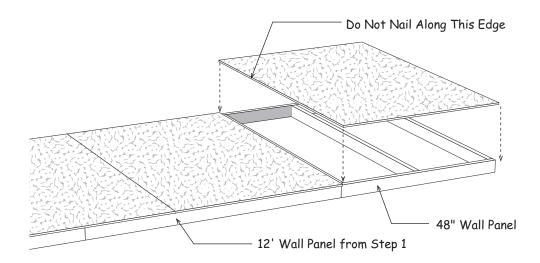
6. Repeat to assemble another side wall.

Step 2 Complete 16' Side Walls

- 1. Locate (2) two 48" long 2x4s and (3) three 2x4-72" wall studs.
- 2. Install (2) two 2x4-72" wall studs between wall plates at each end. Install (1) one stud in the center of the wall frame.
- 3. Repeat to assemble another 48" wall section.



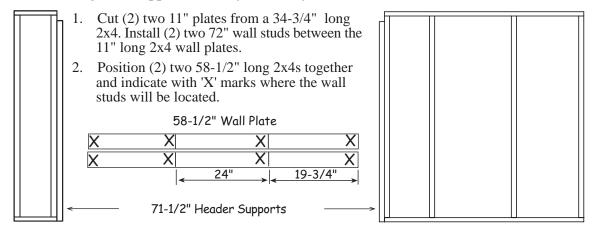
- 4. Select one of the 12' side walls assembled in **Step 1**. Butt the 48" wall frame against the wall with siding. DO NOT nail these frames together so they can be separated later.
- 5. Install a siding panel on the 48" frame. Cut panel flush with the end of the wall frame. DO NOT nail along the long edge of siding that overlaps the 12' wall frame. You can nail this edge after the wall panels are installed. Two separate walls are easier to handle when erecting kit.



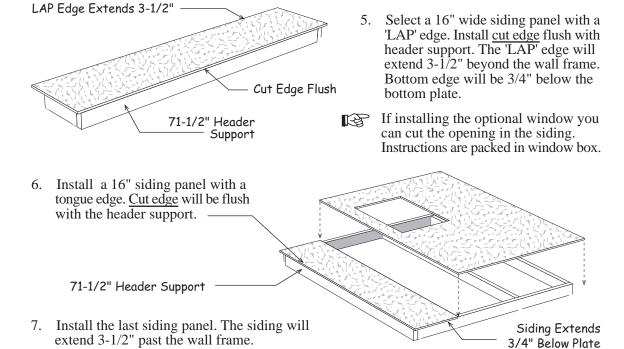
6. Repeat to apply siding to the other 48" wall frame.

Step 3 Assemble Door Wall - Offset Doors

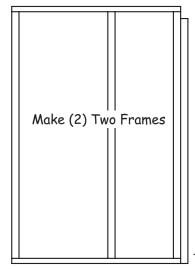
To position the door opening in the center of the wall, go to Step 4. To position the door opening on the right side of the front wall, flip the walls and apply siding to the opposite side of the wall frames.



- 3. Install (4) four 72" wall studs between (2) two 58-1/2" long 2x4 wall plates
- 4. Gather (2) two 2x4-72" 2x4s. Cut each board to 71-1/2" and install as a header support on each wall frame flush with bottom plate. Use 10d sinkers.



Step 4 Assemble Door Wall - Doors Centered



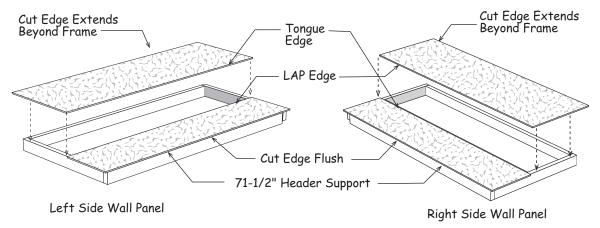
1. Locate (2) two 34-3/4" long 2x4s and position them together. Indicate with 'X' marks where studs will be located..

	34-3/4"	Wall Plate	;
X		X	X
X		X	X
-	19-3/4"	→	

- 2. Install (3) three 72" wall study between the 34-3/4" wall plates.
- 3. Locate (1) one 2x4-72" and cut to 71-1/2". Install as a header support on right side as shown and flush with bottom plate. Use 10d sinkers.
- 4. Locate (2) two 58-1/2" 2x4s and cut (1) one 34-3/4" plates from each. Repeat steps 2 and 3 to assemble another wall frame.

71-1/2" Header

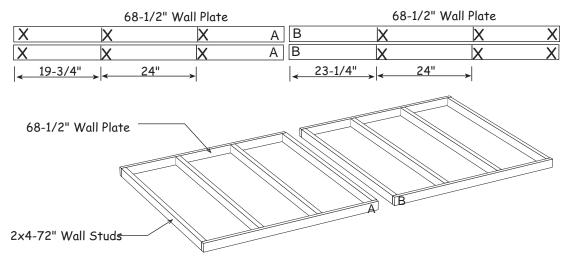
- 5. Select one frame and position so header support is on right.
- 6. Locate a 16" wide siding panel with a 'LAP' edge. Install this panel with the <u>cut edge</u> flush with the 2x4 header support. Bottom edge should be 3/4" below bottom plate. Only nail along cut edge until next panel is installed.
- 7. Cut a 48-3/4" wide siding panel in half lengthways.
- 8. Select cut panel with the 'Tongue' edge. Install this panel so cut edge extends 3-1/2" beyond the end of the frame and tongue edge under the 16" panel. The siding should extend 3/4' below the bottom plate. Nail both siding panels to frame.



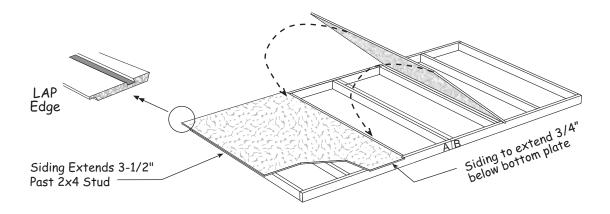
7. Locate a 16" wide siding panel with a 'Tongue' edge and the remaining 24" wide cut panel. Install these on remaining frame. **Make sure header support is oriented to the left.**

Step 5 Assemble 12' Back Wall

1. Gather (4) four 2x4-68-1/2" boards an position together then indicate with 'X' marks, where the wall study will be located. Mark the ends that will but together with the letters 'A' and 'B'.

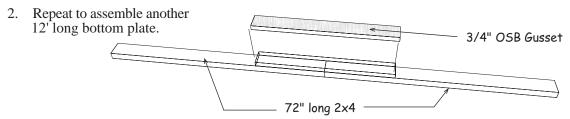


- 2. Install (8) eight 72" wall studs between the top and bottom plates. Assemble wall frames with 10d sinkers, (2) two nails at each stud end. Nail both wall frames together with 10d sinkers.
- 3. Square wall frame.
- 4. Install the 1st siding panel with the 'LAP' edge extending 3-1/2" past the wall frame. 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.

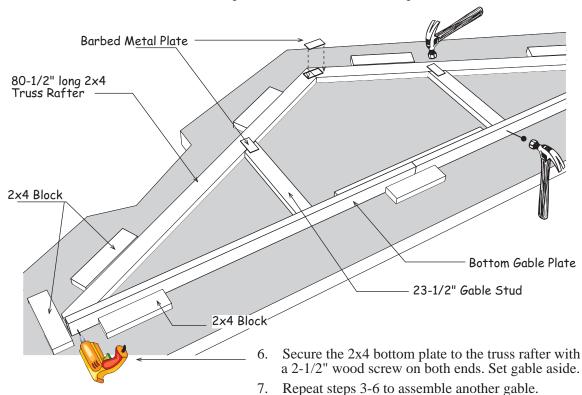


Step 6 Assemble Roof Gables

1. Butt (2) two 72" long 2x4s together and secure them with a 3-1/2" x 31-3/4" long OSB gusset across the top where they butt together. Use (12) twelve 6d common nails. This will be used as the bottom plate on the roof gables.

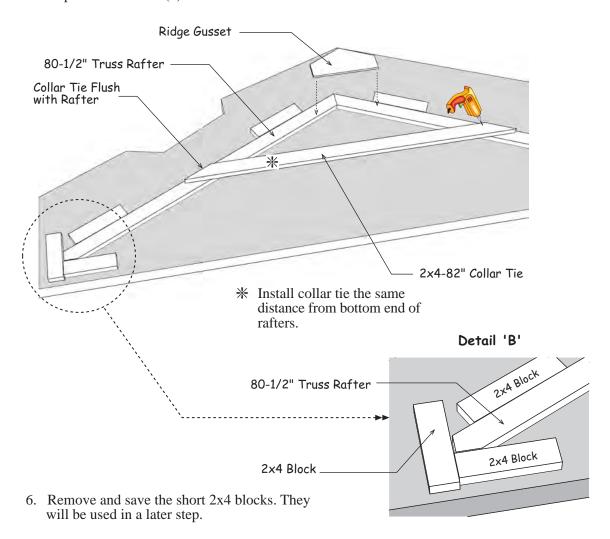


- 3. Place the bottom gable plate on the floor along with (2) two 80-1/2" long 2x4 truss rafters as shown below. Bottom plate will be on edge. There are short 2x4s, *that may have an angle on one end*, supplied in the kit. Use these to hold the truss rafter and bottom gable plate together by temporarily screwing the blocks to the floor using 2-1/2" screws. This will ensure that the gable frames and the trusses, *assembled next*, are identical.
- 4. Secure the top of the truss rafters together with a 1"x4" barbed metal drive-on plate.
- 5. 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.



Step 7 Assemble Roof Trusses

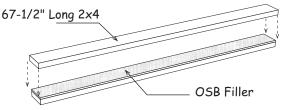
- 1. Place (2) two 80-1/2" long 2x4 truss rafters and a 82" long collar tie together as shown below. The collar tie has an angle cut on both ends. Reposition the lower 2x4 blocks to hold the truss rafters in place. See '**Detail B**'.
- 2. Secure the 2x4 truss rafters at the top with a 8" x 16" wood 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 (6) six more trusses.



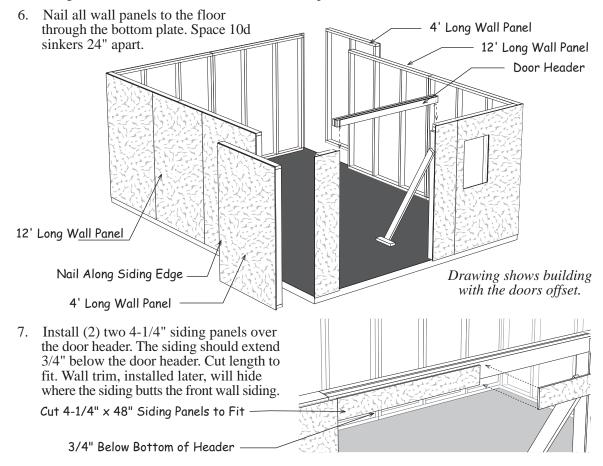
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Step 8 Set Walls

1. Assemble door header using (2) two 67-1/2" long 2x4 boards and 3-1/4" x 67-1/4" OSB filler panel. Nail header together with (8) eight 10d sinkers on each side.



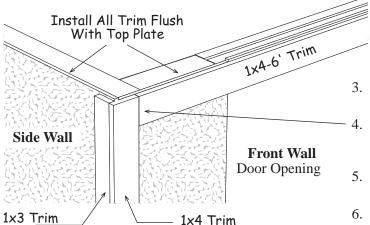
- 2. Erect wall panels. **IMPORTANT make sure walls are plumb and square.** Secure together at the corners using (4) four 10d sinkers per corner.
- 3. Nail siding on each 4' wall panel to the 12' wall panels. Nail along siding edge where it overlaps at corners.
- 4. Install the 2x4 door header between the front wall panels. Nail through the wall studs into the ends of the header. Toenail into the top wall plates.
- 5. Temporarily install (2) two 2x4-72" boards at both sides of the door opening to hold the wall straight. These boards will be used later for tie plates.



Step 9 Install Trim

Tip; Paint the siding and trim boards before installing the trim.

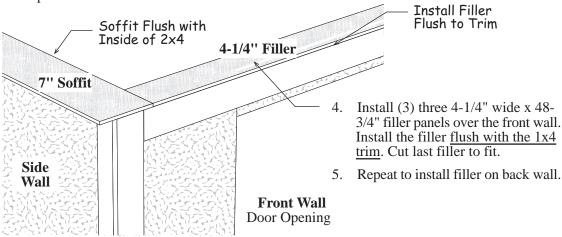
- 1. Install (2) two 75-3/4" long 1x3 corner trim boards to the side wall flush with the top 2x4 wall plate and flush with siding on the front and back walls. Use 6d galv. nails, spaced 12" apart.
- 2. Install a 75-3/4" long 1x4 trim board to the front wall flush with wall plate and with 1x3 trim.



- . Repeat above steps on opposite side wall and front corner.
- 4. Butt a 1x4-6' trim board against 1x4 corner trim and flush with top plate. Nail along top.
- 5. Cut a second 1x4-6' trim board to finsh at opposite corner.
- 6. Repeat to install trim on back wall.

Step 10 Install Primed Soffit and Filler

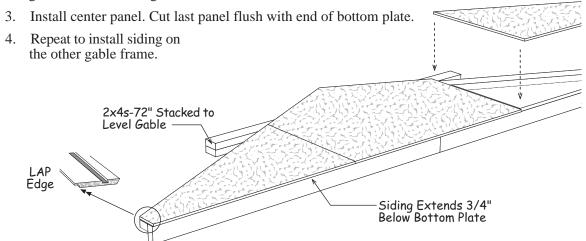
- 1. Locate (1) one 7" wide x 48-3/4" long siding panel and cut in half (save one half for other side wall). Install one half over the side wall with the primed side facing down. Cut edges should be flush with the inside of the top 2x4 wall plate and flush with the trim on the front wall. Tack the soffit with a couple 6d common nails. Installing 2x4 tie plates in a later step will provide more nailing.
- 2. Install (4) four more soffit panels. Cut the last soffit flush with the back wall trim.
- 3. Repeat to install soffit boards on the other side wall.



Step 11 Install Siding on Gables

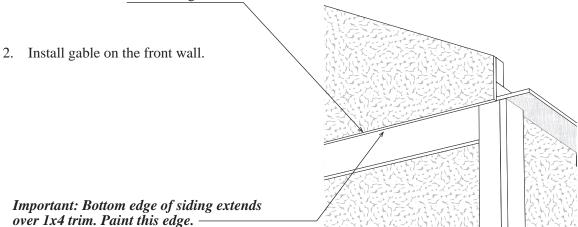
Gable siding is factory cut to be installed either working from left to right or right to left. Regardless of the direction always begin with the 'LAP' Edge flush with end of the gable.

- 1. Select one of the gable frames. Turn the gable over so bottom plate is on edge on floor. Support gable studs and rafters with (2) two 2x4-72" boards stacked. This will give you a solid surface when nailing siding.
- 2. Install a gable siding panel with the 'LAP' edge flush with the end of of bottom plate. Use 6d galv. nails. The siding will extend 3/4" below the bottom 2x4.



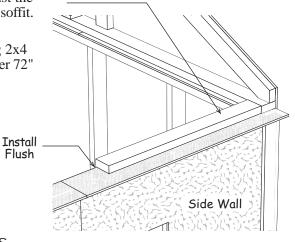
Step 12 Install Gables

1. Install a gable on the rear wall. The gable siding will extend over the 1x4 trim on the lower wall. Secure gable to wall by nailing through the gable plate with 10d sinkers. Nail siding along the 1x4 trim board with 6d galv. nails.



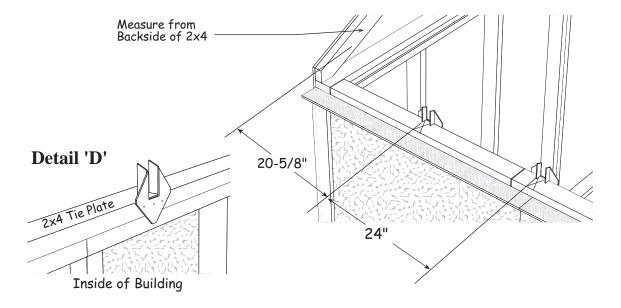
Step 13 Install 2x4 Tie Plates on Side Walls

- 1. Install a 4' long 2x4 over a side wall, against the front gable plate and flush with the inside of soffit. Use 10d sinkers.
- 2. If used for a wall brace, remove a 72" long 2x4 and install this next to 4' tie plate. Cut another 72" 2x4 to fit against rear gable.
- 3. Install tie plates on the opposite side wall.



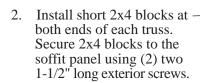
Step 14 Layout Roof Trusses

- 1. Layout the truss spacing from the left side wall of the building. Measure from the <u>backside</u> 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 hanger nails. The opening should line up with the 'X' mark, the bottom of the opening, flush with the 2x4 tie plate. **Detail 'D'**.

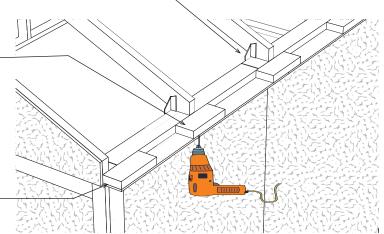


Set Roof Trusses and Soffit Blocks Step 15

1. Set roof trusses. Secure trusses to metal hangers with hanger nails.

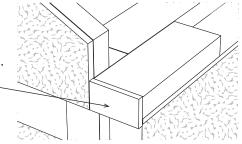


3. Install a 2x4 block at each end of the soffit, flush with the 2x4 gable frame.-



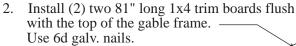
Install small primed siding fillers, packed with the hardware, over the 2x4 soffit blocks. Siding fillers will be flush with the gable siding. Use 6d galv. nails.

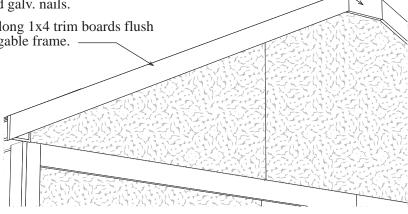




Install Rear Gable Trim Step 16

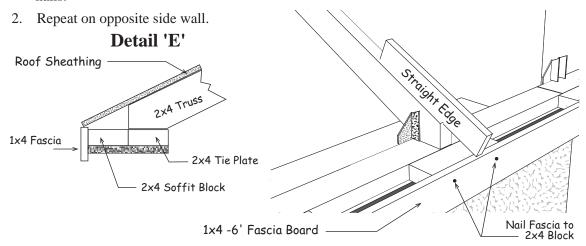
1. Install a 8-1/2" long trim board, called a keystone, at the top of the gable flush with the top of the gable frame. Use 6d galv. nails.



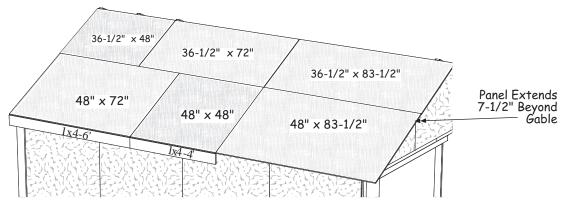


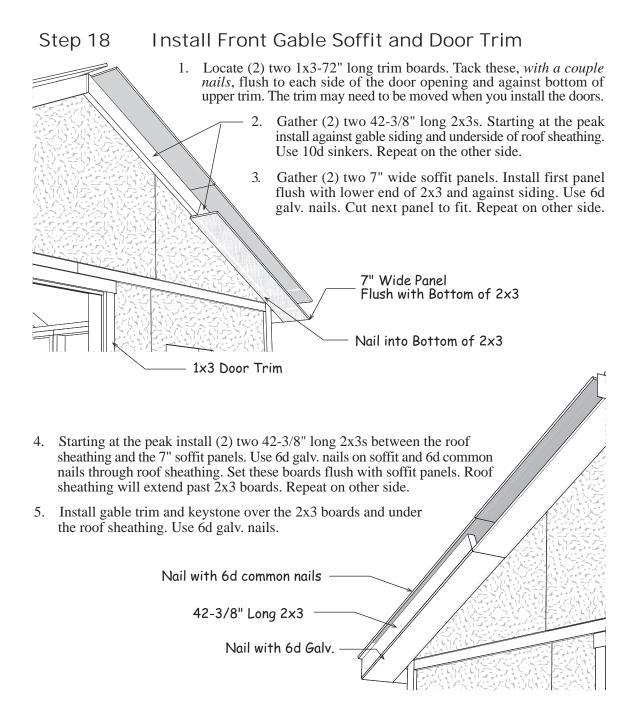
Step 17 Install 1x4 Fascia & Roof Sheathing

Starting at the rear of the building, 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.



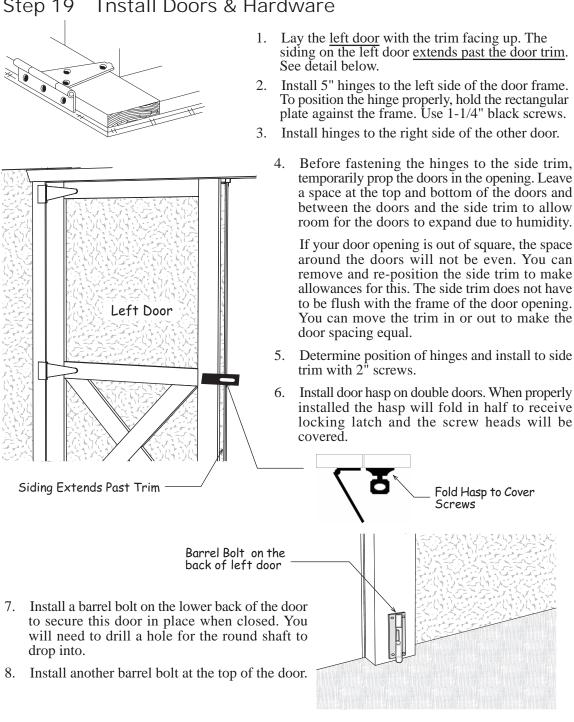
- 3. Butt a 1x4-4' fascia board to the 6' board. See sheathing drawing below. Install another1x4-4' fascia on the opposite side.
- 4. Do not install last fascia boards until a later step.
- 5. Install roof sheathing per layout below. Starting at rear of building install a 48"x72" OSB roof panel flush with 1x4 gable trim. Plumb each truss and gables. Make sure the sheets meet at center of truss. Use 6d common nails spaced 12" apart. The top row of roof sheathing will be about 1" below the ridge to allow for optional ventilation. **Important:** Make sure the roof sheathing extends 7-1/2" past the siding on the face of the gable.





6. Return to side walls and cut the last 1x4-7' fascia boards to fit.





Material Packing List

		1				
7	Collar Ties 2x4 82"	3	1 lb.	box	10d Sinkers	
18	Truss Rafters 2x4 80-1/2"	2	1 lb.	box Hanger Nails		
54	Wall Studs 2x4 72"	5	1 lb.	box	6d Galv.	
4	Wall Plates 2x4 68-1/2"	3	1 lb.	box	6d Common	
2	Wall Plates 2x4 67-1/2"	50	ea.	1-1/2"	Exterior Screws	
2	Wall Plates 2x4 58-1/2"	80	ea.	2-1/2"	Deck Screws	
2	Wall Plates 2x4 34-3/4"	6	ea.	5"	Door Hinges	
6	Wall Plates 2x4 48"	1	ea.	4-1/2"	Door Latch	
4	Gable Studs 2x4 23-1/2"	2	ea.	6"	Barrel Bolts	
8	Gable Framing 2x3 42-3/8"	16	ea.	3/4"	Pan Head Screws	
14	Truss Gussets 7/16" 8" x 16"	25	ea.	2"	Hinge Screws	
13	Soffit Panels 3/8" x 7" x 48"	25	ea.	1-1/4"	Hinge Screws	
8	Filler Panels 3/8"x 4-1/4" x 48"	6	ea.	1x4 Metal Plates		
14	2x4 Metal Truss Hangers	2	ea.	OSB Gussets 3-1/2" x 32"		
2	Fascia Boards 1x4 x 84"	2	ea.	1x6 Keystone 8-1/		
2	Fascia Boards 1x4 x 72"	4	ea.	1x4 Gable	e Trim 81"	
2	Fascia Boards 1x4 x 48"	4	ea.	1x4 Corne	er Trim 75-3/4"	
12	Siding Panels 48" x 75-3/4"	4	ea.	1x3 Corne	er Trim 75-3/4"	
2	Siding Panels 16" x 75-3/4"	4	ea.	1x4 Wall Trim 72"		
2	Gable Siding Panel 48" x 40"	2	ea.	1x3 Door Trim-sides 72"		
4	Gable Siding Panel 48" x 28"	1	ea.	1x3 Board (not used) 72"		
4	Roof Sheathing 48" Long	2	ea.	Pre-built Door 32" x 71-1/2"		
4	Roof Sheathing 72" Long	4	ea.	Gable Siding Fillers 2"x3"		
4	Roof Sheathing 83-1/2" Long	24	ea.	2z4 Truss Jig Blocks 5" to 7"		
2	OSB Filler 3-1/4" x 67-1/4"					

Roofing Material - Not Included

Qt	ty.			
10	bdl.	Roof Shingles		
8	pcs.	Roof 'drip' Edge	10'	



Optionally install ridge vent