

IMPORTANT INFORMATION ABOUT YOUR SHED KIT

Thank you for purchasing our shed kit. Read the instructions before starting the assembly of the building. If you have any questions about assembling the kit, call 800-245-1577. Business hours (8:00-5:00 ET) Monday thru Friday. After business hours call 724-866-HELP (4357).

The foundation size should measure 12'-0" wide by 12' or 16' long depending on the model you purchased. **Do Not** make the foundation larger than the building size. The siding should project beyond the foundation for water to expel properly from the side walls.

The material that is included in our kit is listed on the back page. The optional floor package, if purchased, will be supplied by a local lumber supplier. Our kit does not include the shingles, the quantity needed is listed on the back page. The siding is primed. You will need to apply a finish coat using latex acrylic paint.

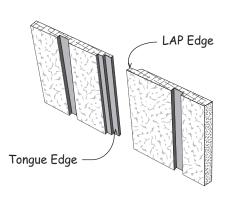
Most buildings are installed on a wood floor and the siding was designed to extend over the wood flooring. If the foundation is a concrete floor cut the siding flush with the bottom of the wall plate to prevent the concrete from contacting the siding.

Stacking the boards, according to size, will make them easier to find when needed. **Do Not** discard any material until your building is complete.

Before you begin construction, be sure to study this assembly manual. Also, obtain a building permit and check all pertinent building code regulations.

The siding is made in 4x8 sheets with grooves cut into the face, the long edge is beveled so that the siding overlays where they butt.

To identify which edge we want you to use, we will refer to the edge as either the 'LAP' Edge or the Tongue Edge. Nail siding with 8d galvanized box nails spaced 8" apart.



Tool List

☐ Hammer & Phillips Screwdriver	Po
☐ Framing Square & Level	M
☐ Hand or Circular Saw	2 ·

Power Drill/Screwdriver

Measuring Tape

2 - 8' Step Ladders

Always wear safety glasses when cutting or nailing!

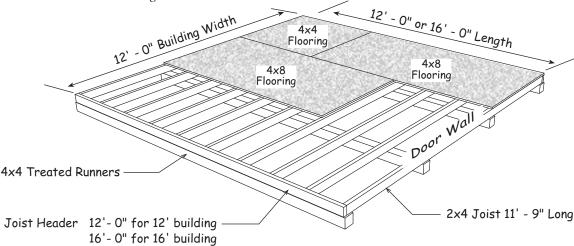
Constructing Details for Deluxe Floor System

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. For a 16' building, butt the 4x4-8' timbers together to make 16' runners. Secure the 4x4s together with 2' long 2x4 blockscut from (2) two 8' boards using 16d glavanized nails.
- 2. Cut (2) two 2x4 joist headers to length. Cut 2x4s to 12'-0" for a 12' long building, 16'-0" for a 16' long building. Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

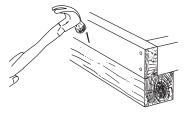
2x4 Joist Header	X	X	X	X	
2X4 Juist Header	X	X	X	X	$\overline{}$
		4" → ←	16" →	16" →	

3. 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 when the floor is square.

Material Description	12' x 12' shed	12' x 16' shed	
2x4 Treated Blocking		2 pcs. 8'	
2x4 PT Joist Headers	2 pcs. 12'	2 pcs. 16'	
2x4 PT Floor Joist	10 pcs. 12'	13 pcs. 12'	
4x4 Treated Runners	4 pcs. 12'	8 pcs. 8'	
Flooring 5/8" or 3/4"	5 pcs. 4x8	6 pcs. 4x8	
Spiral Floor Nails	2 lbs. 8d	3 lbs. 8d	
Galv. Deck Nails	1 lb. 16d	3 lbs. 16d	



To keep 2x4 frame from moving, toe nail to 4x4.

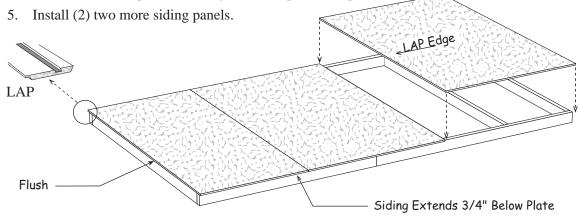
 \square Do not discard any material until construction is complete. Including short blocks of 2x4s.

Step 1 Assemble 12' Long Sidewalls

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" W	/all Plate		72	" Wall Plate	
X	X	X	AB	X	X	X
X	X	X	AB	X	X	X
-	23-1/4" > < 24	"	 	23-1/4" >	24" →	
	72" Wall Plate —					
				AB		
2×4-72	2" Wall Studs			72" Bottom Plat	e _	

- 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 8d galv. nails spaced 8" apart.



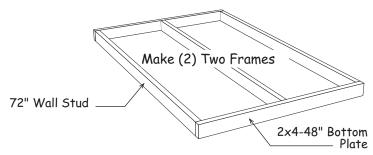
6. Repeat to assemble another sidewall.

If you are constructing a 12' x 12' building, go to Step 3.

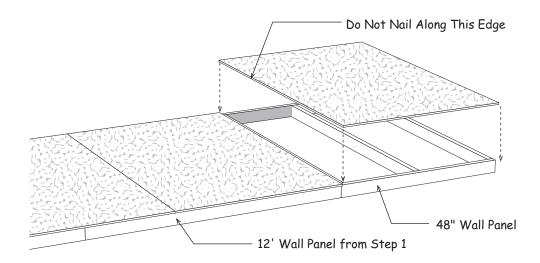
Step 2 Assemble Sidewalls for 16' Building Length

If you are constructing a 12' x 12' building, go to Step 3.

- 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.



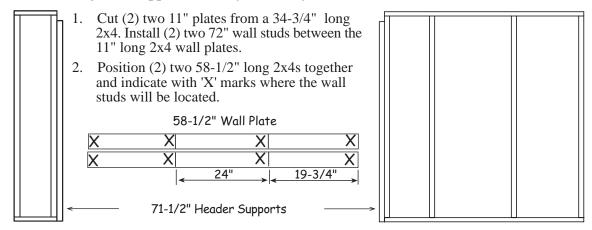
- 4. Select one of the 12' sidewalls assembled in **Step 1**. Butt the 48" wall frame against the wall with siding. DO NOT nail these frames together so they can be separated later.
- 5. Install a siding panel on the 48" frame. Cut panel flush with the end of the wall frame. DO NOT nail along the long 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

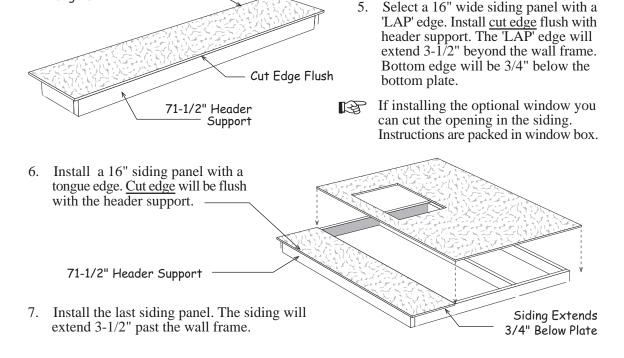
To position the door opening in the center of the wall, go to Step 4. To position the door opening on the right side of the front wall, flip the walls and apply siding to the opposite side of the wall frames.



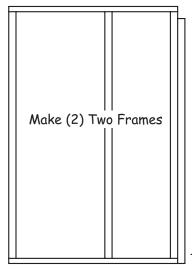
3. Install (4) four 72" wall studs between (2) two 58-1/2" long 2x4 wall plates

LAP Edge Extends 3-1/2"

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



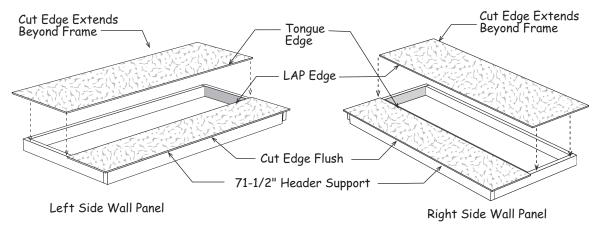
1. Locate (2) two 34-3/4" long 2x4s and position them together. Indicate with 'X' marks where studs will be located..

34-3/4" Wall Plate				
X		X	X	
X		X	X	
←	19-3/4"	→	_	

- 2. Install (3) three 72" wall studs 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

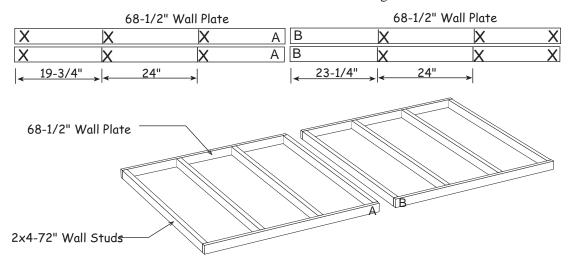
- 5. Select one frame and position so header support is on right.
- 6. Locate a 16" wide siding panel with a 'LAP' edge. Install this panel with the <u>cut edge</u> flush with the 2x4 header support. Bottom edge should be 3/4" below bottom plate. Only nail along cut edge until next panel is installed.
- 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.



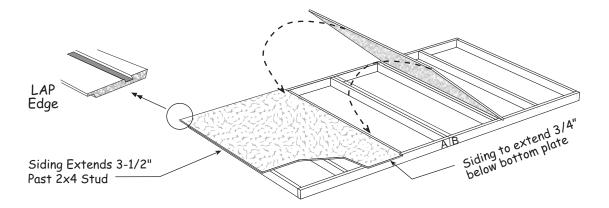
7. Locate a 16" wide siding panel with a 'Tongue' edge and the remaining 24" wide cut panel. Install these on remaining frame. **Make sure header support is oriented to the left.**

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'.

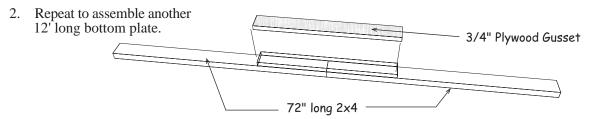


- 2. Install (8) eight 72" wall studs between the top and bottom plates. Assemble wall frames with 10d sinkers, (2) two nails at each stud end. Nail both wall frames together with 10d sinkers.
- 3. Square wall frame.
- 4. Install the 1st siding panel with the 'LAP' edge extending 3-1/2" past the wall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

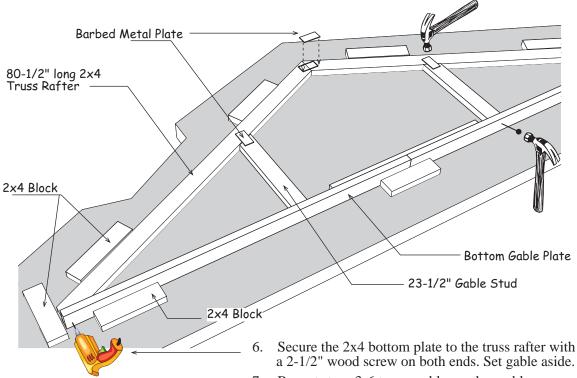


Step 6 Assemble Roof Gables

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



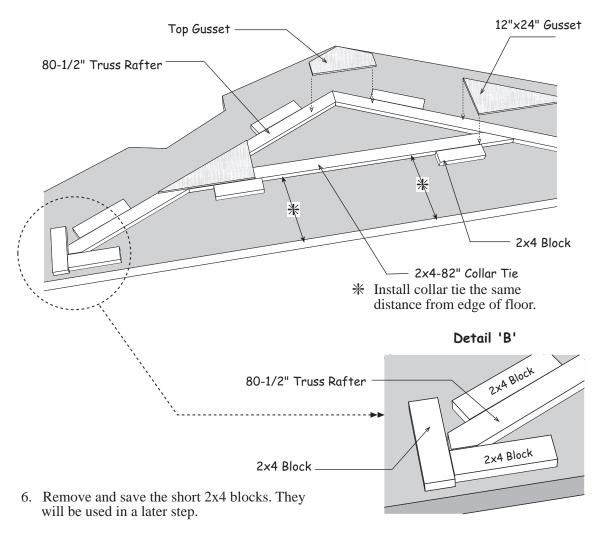
- 3. Place the bottom gable plate on the floor along with (2) two 80-1/2" long 2x4 truss rafters as shown below. Bottom plate will be on edge. There are short 2x4s, *that may have an angle on one end*, supplied in the kit. Use these to hold the truss rafter and bottom gable plate together by temporarily 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.



7. Repeat steps 3-6 to assemble another gable.

Step 7 Assemble Roof Trusses

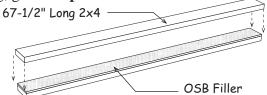
- 1. Place (2) two 80-1/2" long 2x4 truss rafters and a 82" long collar tie together as shown below. The collar tie has an angle cut on both ends. Reposition the lower 2x4 blocks to hold the truss rafter and collar tie in place. See '**Detail B**'.
- 2. Secure the 2x4 truss rafters at the top with a 8" x 20" wood gusset. Apply wood glue between the 2x4s and the gusset. Nail the gusset to the 2x4s with (14) fourteen 6d common nails,
- 3. Install (2) two 12"x24" gussets at ends of the collar tie. Glue and nail using 14 nails per gusset.
- 4. Turn this truss over and apply wood gussets to the opposite side.
- 5. Repeat to assemble (4) four more trusses if you are building a 12' long building. Assemble (6) six more trusses if you are building a 16' long building.



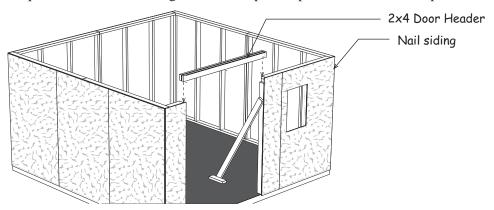
Step 8A Set Walls For 12' x 12' Building

If you are constructing a 12' x 16' building, go to **Step 8B**.

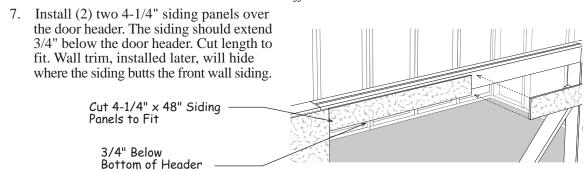
1. Gather (2) two 67-1/2" long 2x4 boards and a 3-1/4" x 67-1/4" OSB filler panel. Glue both sides of OSB. Nail header together from both sides with 10d sinkers staggered 6" apart.



- 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 along siding edge where it overlaps front and back walls at corners.
- 4. Install the 2x4 door header between the front wall panels. Nail through the wall stud into the ends of the header. Toenail into the top wall plates.
- 5. Remove the center (2) two 2x4-84" boards from pallet and temporarily install at both sides of the door opening to hold the wall straight. Alternatively you can use 2x4-72" boards that will be used later for tie plates.
- 6. Nail all wall panels to the floor through the bottom plate. Space 10d sinkers 24" apart.

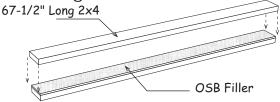


Drawing shows a building with the doors offset.

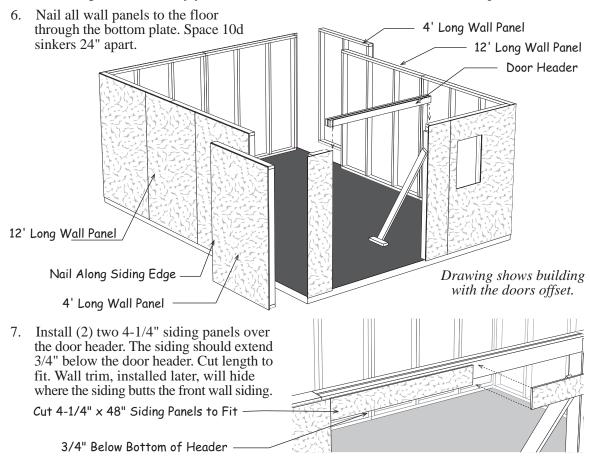


Step 8B Set Walls For 12' x 16' Building

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



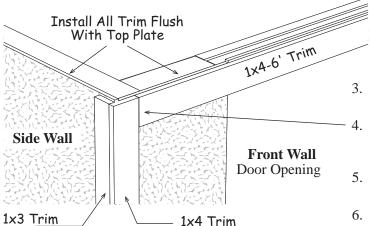
- 2. Erect wall panels. **IMPORTANT make sure walls are plumb and square.** Secure together at the corners using (4) four 10d sinkers per corner.
- 3. Nail siding on each 4' wall panel to the 12' wall panels. Nail along siding edge where it overlaps at corners.
- 4. Install the 2x4 door header between the front wall panels. Nail through the wall studs into the ends of the header. Toenail into the top wall plates.
- 5. Temporarily install 2x4-84" boards from pallet at both sides of the door opening to hold the wall straight. Alternatively you can use 2x4-72" that will be used later for tie plates.



Step 9 Install White Pine Trim

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

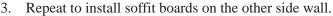
- 1. Install (2) two 75-3/4" long 1x3 corner trim boards to the side wall flush with the top 2x4 wall plate and flush with siding on the front and back walls. Use 8d galv. nails, spaced 12" apart.
- 2. Install a 75-3/4" long 1x4 trim board to the front wall flush with wall plate and with 1x3 trim.

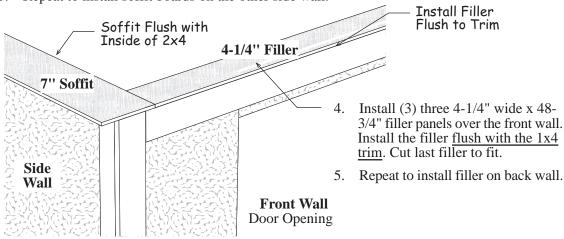


- Repeat above steps on opposite side wall and front corner.
- 4. Butt a 1x4-6' trim board against 1x4 corner trim and flush with top plate. Nail along top.
- 5. Cut a second 1x4-6' trim board to finsh at opposite corner.
- 6. Repeat to install trim on back wall.

Step 10 Install Primed Soffit and Filler

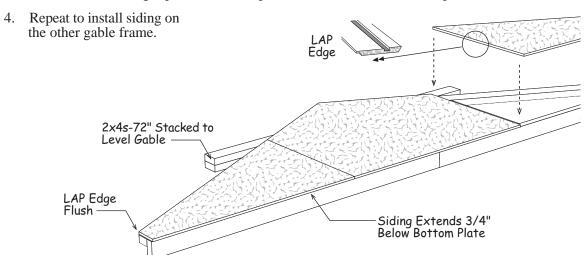
- 1. Locate (1) one 7" wide x 48-3/4" long siding panel and cut in half. Install one half over the side wall with the primed side facing down. Cut edges should be flush with the inside of the top 2x4 wall plate and flush with the trim on the front wall. Tack the soffit with a couple 6d common nails. Installing 2x4 tie plates in a later step will provide more nailing.
- 2. Install (3) three more soffit boards for a 12' building or (4) four for a 16' building. Cut the last soffit flush with the back wall trim.





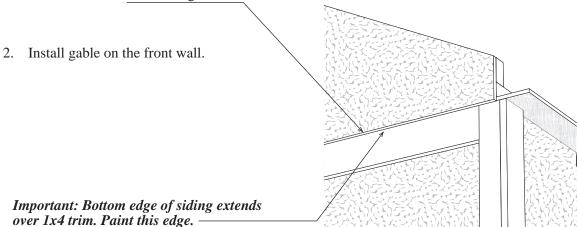
Step 11 Install Siding on Gables

- 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 left gable siding panel with the 'LAP' edge flush with the end of of bottom plate. Use 6d galv. nails across the top of the 2x4 frame and gable studs. Use 8d galv. nails across the bottom plate. The siding will extend 3/4" below the bottom 2x4.
- 3. Install center and right panels. Cut last panel flush with end of bottom plate.



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 8d galv. nails.



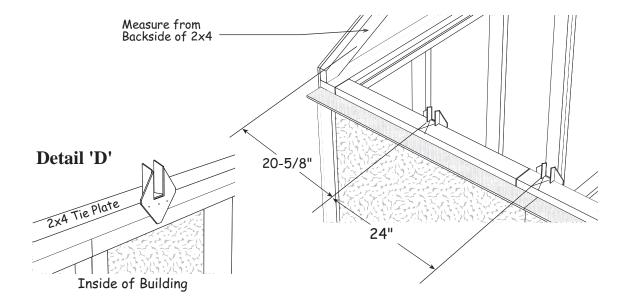
Step 13 Install 2x4 Tie Plates on Side Walls

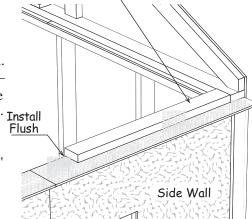
For a 16' Building Length, Skip to Number 4

- Cut a 2x4-72" in half and install one 3' piece 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 the 3' long 2x4. Cut a 3' piece to fit against rear gable.
 - 3. Repeat to install tie plates on the oppost side wall.
 - 4. Install a 4' long 2x4 over a side wall, against the front gable plate and flush with the inside of soffit. Install Use 10d sinkers.
 - 5. 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 reart gable.
 - 6. Install tie plates on the opposite side wall.

Step 14 Layout Roof Trusses

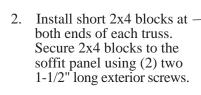
- 1. Layout the truss spacing from the left sidewall of the building. Measure from the <u>backside</u> of the 2x4 gable frame when marking the location of the first truss. Continue 24" spacing to other gable. **Important:** When marking the opposite wall, place the 'X' mark on the same side of the line so your trusses are parallel when they are installed.
- 2. Install metal hangers to the tie plate with 6d common nails. The opening should line up with the 'X' mark, the bottom of the opening, flush with the 2x4 tie plate. **Detail 'D'**.

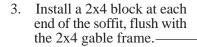


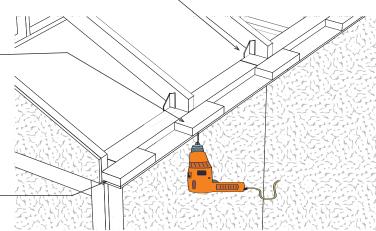


Set Roof Trusses and Soffit Blocks Step 15

1. Set roof trusses. Secure trusses to metal hangers with 6d common nails.

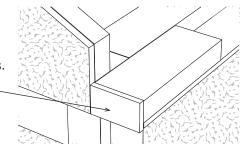






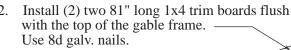
Install small primed siding fillers, packed with the hardware, over the 2x4 soffit blocks. Siding fillers will be flush with the gable siding. Use 6d galv. nails.

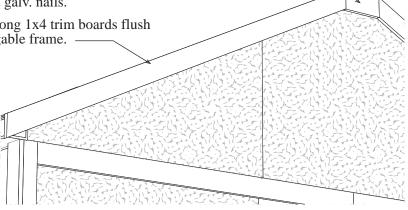




Install Rear Gable Trim Step 16

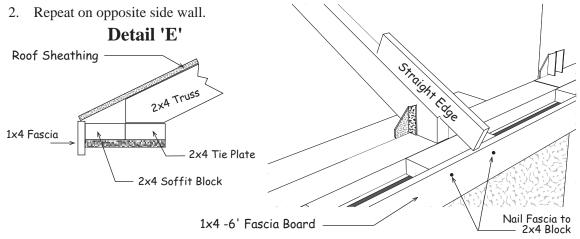
1. Install a 8-1/2" long trim board, called a keystone, at the top of the gable flush with the top of the gable frame. Use 8d galv. nails.





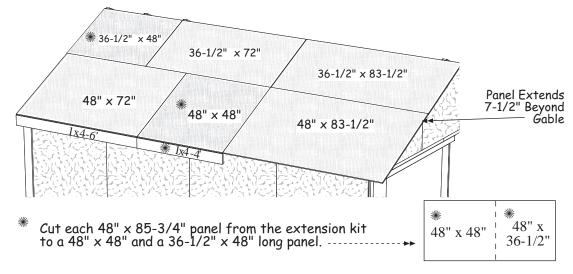
Step 17 Install 1x4 Fascia & Roof Sheathing

1. Starting at the rear of the building, install a 1x4-6' white pine 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 8d galv. nails.

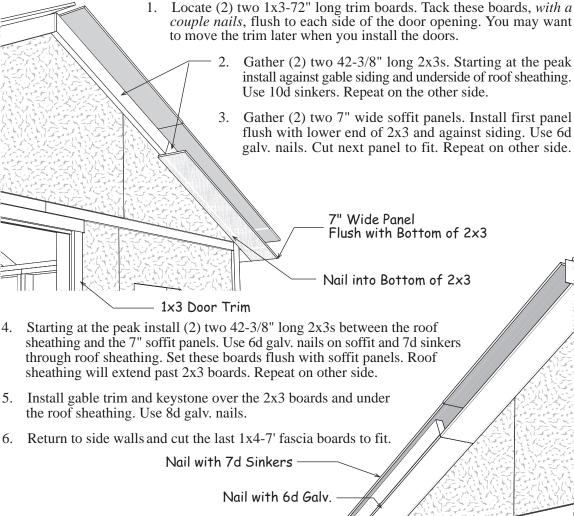


- 3. If you are building a 16' building, butt a 1x4-4' fascia board to the 6' board. See sheathing drawing below. Install another 1x4-4' fascia on the opposite side.
- 4. Do not install last fascia boards until a later step.
- 5. Install roof sheathing per layout below. *See note below for 16' building. 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 7d sinkers spaced 12" apart. The top row of roof sheathing will be about 1" below the ridge to allow for optional ventilation.

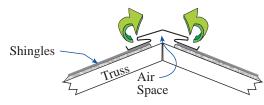
 Important: Make sure the roof sheathing extends 7" past the siding on the face of the gable.



Step 18 Install Front Gable Soffit and Door Trim



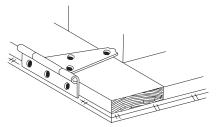
Step 19 Install Roofing Not Supplied in Kit



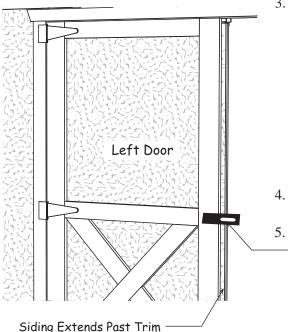
Optional ridge vent provides ideal ventilation.

. Install metal roof edging <u>perimeter of the roof area</u>. If you are not installing shingles at this time, you can purchase felt paper to protect the roof sheathing. Install the felt paper before you install the metal roof edge.

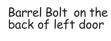
Step 20 Install Doors & Hardware



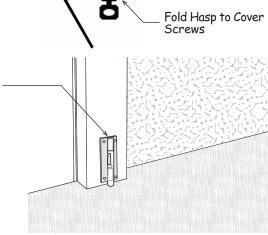
- 1. Locate the door that has a 2x4 fastened, *on edge*, to the back side of the door. When doors are closed this 2x4 will be in the center where doors meet. Lay the door with the trim facing up and install (3) three 5" hinges to the right side. To position the hinge properly, hold the rectangular plate against the frame. Use 1-1/4" black screws.
- 2. Install hinges on the left side of the other door.



- Before fastening the hinges to the side trim, temporarily prop the doors in the opening. Leave a space at the top and bottom of the doors and between the doors and the side trim to allow room for the doors to expand due to humidity.
 - If your door opening is out of square, the space around the doors will not be even. You can remove and re-position 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.
- 4. Determine position of hinges and install to side trim with 2" screws.
 - Install door hasp on double doors. When properly installed the hasp will fold in half to receive locking latch and the screw heads will be covered.



- 6. Install a barrel bolt on the lower back of the door to secure this door in place when closed. You will need to drill a hole for the round shaft to drop into.
- 7. Install another barrel bolt at the top of the door.



Bld. Length Material Packaged In Component Kit					
_12'	16'	маненин Гаскадеа In Component Ku			
5	7	Collar Ties 2x4 82" 4 1 lb. box 10d Sinkers			
14	18	Truss Rafters 2x4 80-1/2" 4 1 lb. box 8d Galv.			
48	54	Wall Studs 2x4 72" 2 1 lb. box 7d Sinkers			
4	4	Wall Plates 2x4 68-1/2" 1 1 lb. box 6d Galv.			
_ 2	2	Wall Plates 2x4 67-1/2" 4 1 lb. box 6d Common			
2	2	Wall Plates 2x4 58-1/2" 50 ea. 1-1/2" Exterior Screws			
2	2	Wall Plates 2x4 34-3/4" 25 ea. 2-1/2" Deck Screws			
	6	Wall Plates 2x4 48" 6 ea. 5" Door Hinges			
4	4	Gable Studs 2x4 23-1/2" 1 ea. 4-1/2" Door Latch			
8	8	Gable Framing 2x3 42-3/8" 2 ea. 6" Barrel Bolts			
10	14	Truss Gussets 7/16" 10" x 24" 25 ea. 2" Hinge Screws			
20	28	Truss Gussets 7/16" 12" x 24" 25 ea. 1-1/4" Hinge Screws			
11	13	Soffit Panels 3/8" x 7" x 48" 6 ea. 1x4 Metal Plates			
8	8	Filler Panels 3/8"x 4-1/4" x 48" 2 ea. Bottle Glue			
10	14	2x4 Metal Truss Hangers 2 ea. Plywood Gussets 3-1/2" x 32"			
2	2	Fascia Boards 1x4 x 84" 1 ea. OSB Filler 3-1/4" x 67-1/4"			
2	2	Fascia Boards 1x4 x 72" 2 ea. 1x6 Keystone 8-1/2"			
	2	Fascia Boards 1x4 x 48" 4 ea. 1x4 Gable Trim 81"			
10	12	Siding Panels 48" x 75-3/4" 4 ea. 1x4 Corner Trim 75-3/4"			
2	2	Siding Panels 16" x 75-3/4" 4 ea. 1x3 Corner Trim 75-3/4"			
2	2	Gable Siding Panel 48" x 40" 4 ea. 1x4 Wall Trim 72"			
4	4	Gable Siding Panel 48" x 28" 2 ea. 1x3 Door Trim-sides 72"			
4	4	Roof Sheathing 72" Long 1 ea. 1x3 Board (not used) 72"			
	2	Roof Sheathing 85-3/4" Long 2 ea. Pre-built Door 32" x 71-1/2"			
4	4	Roof Sheathing 83-1/2" Long 4 ea. Gable Siding Fillers 2"x3"			
18	24	2x4 Truss Jig Blocks 5" to 7"			

Buildin 12x12	ng Size 12x16		
8 bdl.	10 bdl.	Roof Shingles	
7 pcs.	8 pcs.	Roof 'drip' Edge	10'

Install Shingles. Purchased Separately

Install metal roof edge the perimeter of the building. Install shingles according to the instructions on the wrapper. If you need more detailed instructions on installing shingles, there are good publications at book stores or online.