

Manufactured by Reynolds Building Systems, Inc. 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 Level Safety Glasses

Cordless Drill Measuring Tape Dust Mask

Hammer 6'-8' Ladder(s) Phillips Screwdriver
Pencil Framing Square

Additional Materials - Not included in kit:

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

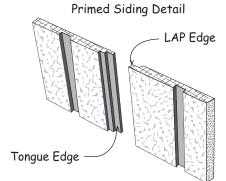
Tie Plate - 2x4s connecting wall sections together

Header - Spans top of door opening

OSB - Oriented Strand Board

LAP - Edge of siding that overlaps Tongue

Tongue - Edge of siding that is overlapped



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

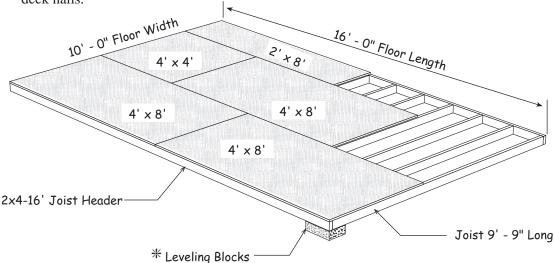
Construction Details for Optional Floor System

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. Treated lumber is not cut to exact length. Cut (2) two 2x4-16' boards to 16'-0". Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

-	Χ	X	X	X	
Joist Header	X	X	X	X	$\overline{}$
	<u> </u> 15-1/4"	→ ←	<u>16"</u> → 16"	→	

- 2. Cut the 2x4-10' floor joist to 9'-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 10'-0" building width.*
- 3. Install the floor joist, *over the 'X' marks*, between the 16' long joist headers. Use 16d galv. deck nails.



** If necessary use bricks, patio stones or similar material to level or provide additional support to the floor. If your ground has low areas consider adding gravel and or 4x4 treated timbers to rest the floor on. If you use 4x4 timbers you will need (3) three pieces 16' long.

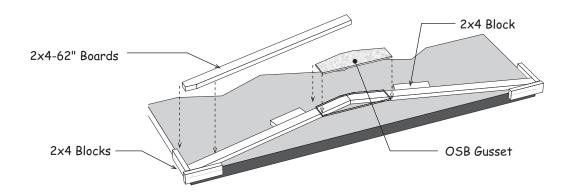
It is important that the floor be level and square. Before nailing the flooring, measure the floor diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the floor is square (226-1/2").

Material Description	10' x 16' Floor
2x4 Treated Headers	2 pcs. 16'
2x4 Treated Floor Joist	13 pcs. 10'
Flooring 5/8" 4x8	5 pcs. 4x8
8d Screw Floor Nails	2 lb. 8d
16d Galv. Box Nails	2 lb. 16d

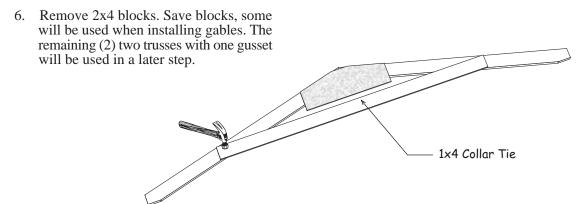
Step 1 Assemble Roof Trusses

Tip: If possible, temporarily screw 2x4 blocks to the floor using 2-1/2" deck screws. Short 2x4s, that may have an angle on one end, supplied in the kit for this purpose. This will secure the truss boards in position so all the trusses will be assembled the same.

- 1. Place (2) two 62" long 2x4 boards with angled ends together as shown below. Hold in place with 2x4 blocks as shown. Make sure the trusses measure 10'-0" wide when assembled to fit properly when installed
- 2. Secure the tops together with a 24" wide OSB gusset. Nail the gusset to the 2x4s with (14) fourteen 6d common nails. Angle nail slightly so nails do not protrude through the 2x4 boards.
- 3. Repeat above steps to assemble (8) eight more trusses.



- 4. **Select (7) seven trusses** and apply wood gussets to the opposite side.
- 5. Select (5) five trusses that have gussets installed on both sides and install a 1x4-72" long white pine board as a collar tie as shown below. Use (4) four 6d common nails on each end..



Step 2A Assemble End walls

1. Position (4) four 60" 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'.

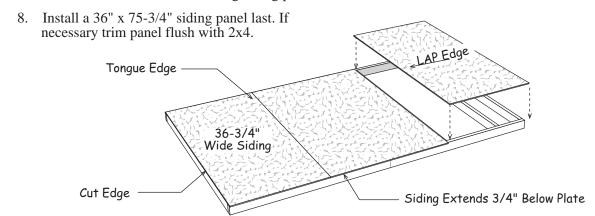
	60" Wall P	late			60" Wall	l Plate	
X	X	X	ΑX	ХВ	X	X	X
X	X	X	ΑX	ΧВ	X	X	X
<u> </u>	<u>/4"</u> → <u>← 24"</u>				/4"→ ← 24	! " →	

- 2. Install 72" wall studs between the top and bottom plates. Assemble wall frames with 10d sinkers. Use (2) two nails at end of each wall stud.
- 3. Nail both wall frames together with (4) four 10d sinkers on each side.

 A

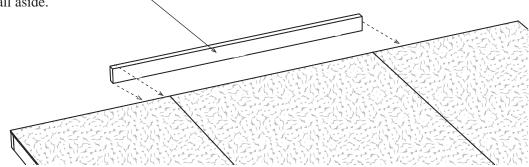
 B

 60" Wall Plate
- 4. Square frame, measure diagonally (corner to corner). The measurement should be 141-1/2".
- 5. Repeat steps 1-4 to assemble next end wall frame.
- 6. Select a 36-3/4" wide siding panel with a 'tongue' edge. Install this panel with the 'Cut' edge flush with the end of the wall frame. Install siding flush with the 2x4 top plate. Use 6d galv. nails spaced 8" apart.
- 7. Install a full width x 75-3/4" long siding panel next.

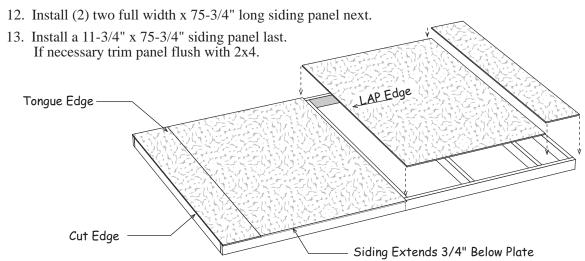


Step 2B Assemble End Walls Continued

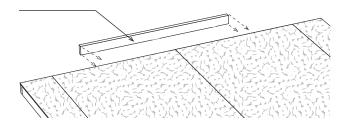
9. Install a 60" long 2x4 in the center of the wall panel, at the top. Use (6) six 10d sinkers. Set wall aside.



- 10. Select the other end wall frame.
- 11. Square wall frame. Select a 12-1/2" wide siding panel with a 'tongue' edge. Install this panel with the 'Cut' edge flush with the end of the wall frame. Install siding flush with the 2x4 top plate.



14. Install a 60" long 2x4 in the center of the wall panel.



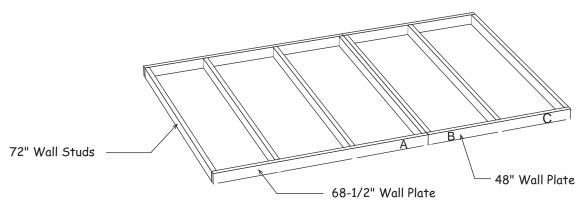
Step 3A Assemble Back Wall

1. Position (2) two 68-1/2" and (2) two 48" long 2x4s together and indicate with 'X' marks, where the wall studs will be located. Mark plates with the letters 'A', 'B' and 'C' so frames are correctly orented.

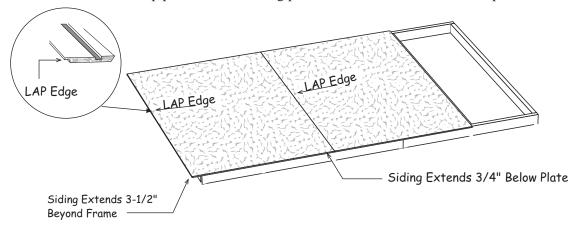
		68-1/2"	Wall Plate		
X	X		X	Α	X
X	X		X	Α	X
—	19-3/4"	24"	—		

48" Wall Plate					
X	В	X	С	X	
X	В	X	С	X	
-	23-1	<u>./4"</u> →			

2. Install 72" wall studs between the top and bottom plates. Assemble wall frames with 10d sinkers. Nail both wall frames together.

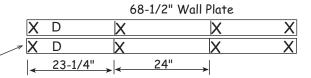


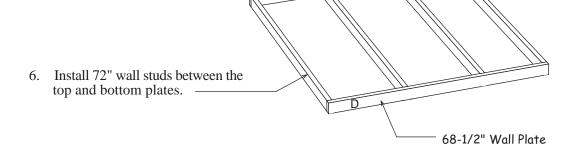
3. Square wall frame. The measurement should be 138-1/2". Install (2) two full width siding panels. Install the first siding panel with the 'LAP' edge extending 3-1/2" past the end of the wall frame. Install a full width panel next. The siding should extend 3/4" below the bottom plate and flush with the top plate. The last siding panel will be installed in a later step.



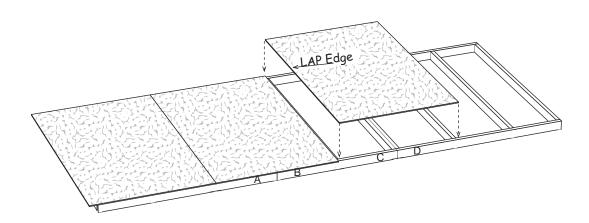
Step 3B Assemble Back Wall Continued

5. Position (2) two 68-1/2" long 2x4s together and indicate with 'X' marks, where the wall studs will be located. Mark the left ends with the letter 'D'.

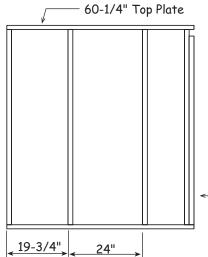




- 7. Select the wall panel from previous step. Nail, with 10d sinkers, the 68-1/2" frame assembled above to the end of the wall panel.
- 8. Install a full width siding panel. The last siding panel will be installed after the walls are erected on the floor.



Step 4 Assemble Front Wall Frames



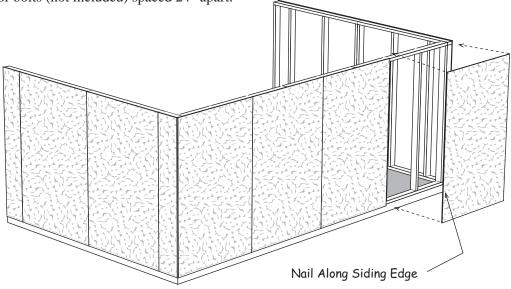
- 1. Cut (1) one 72" long 2x4 to a length of 69-1/2".
- 2. Cut (2) two 68-1/2" long 2x4s to a length of 60-1/4".
- 3. Mark spacing as shown and assemble a wall frame using (4) four 72" long 2x4s, (1) one 69-1/2 header support and (2) two 60-1/4" top and bottom plates. Use (6) six 10d sinkers to nail header support to stud.
- 4. Repeat to assemble another wall frame.

69-1/2" Header ← Support

Step 5A Set Walls

IMPORTANT: Make sure walls are plum and square.

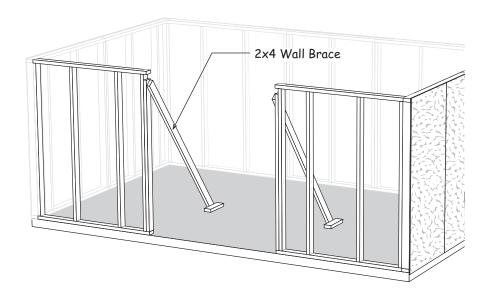
1. Secure the back wall between the end wall panels. Secure panels together at the corners. Use (4) four 10d sinkers per corner. Use 10d sinkers or, if erecting on a concrete slab, concrete anchor bolts (not included) spaced 24" apart.

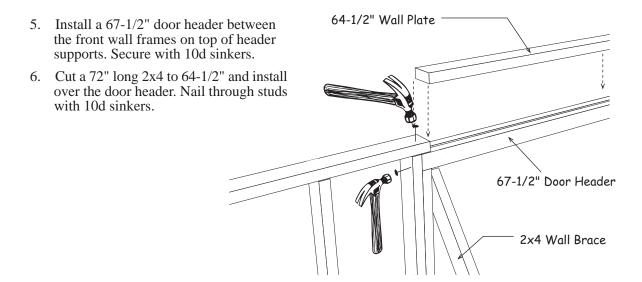


2. Install a 48" x 75-3/4" siding panel to the back wall. Use 6d galv. nails. Nail along the adjoining siding panel.

Step 5B Set Walls Continued

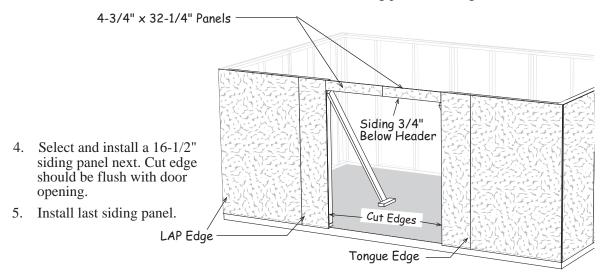
- 3. Install front wall frames between the end walls.
- 4. Remove (2) two 2x4s screwed to the pallet. Use thes to brace the walls next to door opening. The bit for the screws is in the hardware bag.





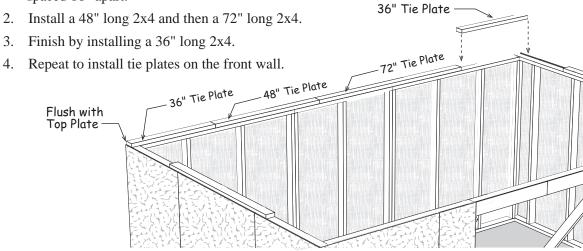
Step 6 Install Siding on Front Wall

- 1. Select a full with siding panel and install at the front left corner.
- 2. Install a 15-3/4" siding panel with a 'LAP' edge next. Cut edge should be flush with door opening.
- 3. Install (2) two 4-3/4" x 32-1/4" siding panels over the door opening. Bottom of siding should extend 3/4" below header. Trim will cover where the siding panels butt together in the center.



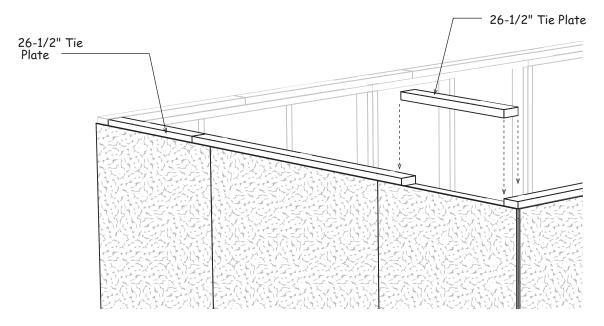
Step 7A Install Tie Plates

1. Cut a 2x4-72" board in half to make (2) two 36" long board and install one of the boards over the back wall. Install the 2x4 flush with the 2x4 wall plate on the end wall. Use 10d sinkers spaced 16" apart.



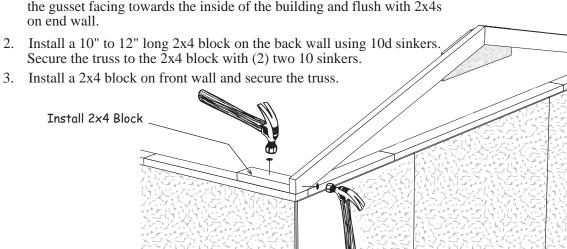
Step 7B Install Tie Plates Continued

- 5. Cut (4) four 26-1/2" long 2x4s from (2) two 60" long 2x4 boards.
- 6. Install the 26-1/2" boards on both end walls, see below.

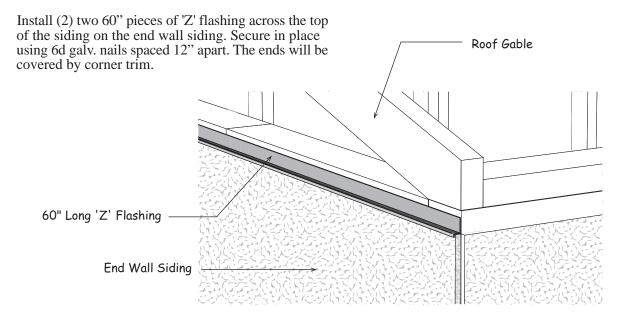


Install Roof Gable Step 8

1. Select a truss with a gusset installed on one side. Position this truss with the gusset facing towards the inside of the building and flush with 2x4s

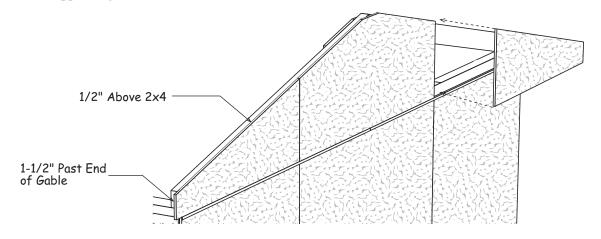


Step 9 Install 'Z' Flashing



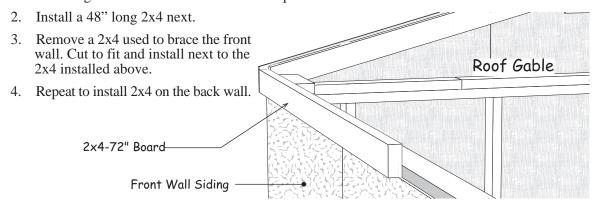
Step 10 Install Roof Gable Siding

- 1. Install gable siding on the roof gable using 6d galv. The gable siding should extend no more than 1/2" above the 2x4 frame and 1-1/2" past gable ends.
- 2. Repeat **Steps 8** thru **10** to install the opposite gable.



Step 11 Install 2x4 Truss Headers

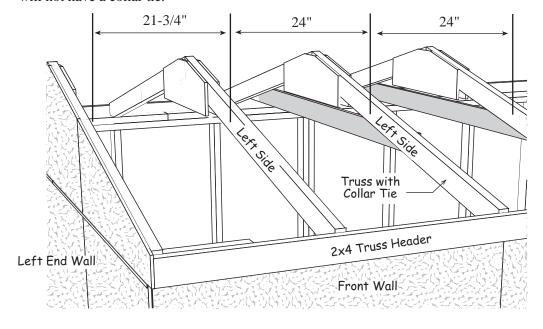
1. Place a 72" long 2x4 on top of the siding on the front wall. It will but against the siding on the roof gable. Nail this 2x4 to the 2x4 tie plate with 10d sinkers.



Step 12A Install Trusses

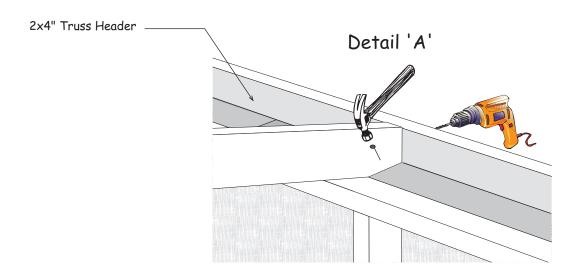
The first and last truss will not have a collar tie attahed.

- 1. Starting from left end wall install the first truss (without a collar tie) measuring 21-3/4" from the face of the 2x4 on end gable and the left side of 2x4 truss. Secure the trusses using 2-1/2" screws and 10d sinkers, See Detail 'A' on next page.
- 2. Install the remaining trusses measuring 24" from left side to left side of each truss. Last truss will not have a collar tie.



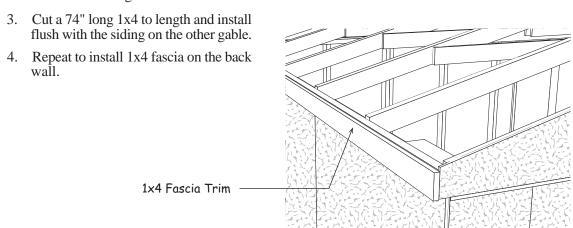
Step 12B Install Trusses Continued

Using a 2-1/2" screw, secure all trusses to 2x4 Truss Header installed in Step 11. Toe nail truss into 2x4 tie plate using 10d sinkers.



Step 13 Install 1x4 Fascia

- 1. Install 72" long 1x4 fascia trim over the 2x4 Truss Header on the front wall. Install 1x4 trim boards flush with the bottom of the 2x4 Truss Header and the face of the siding on the gable. Use 6d galv. nails spaced 12" apart.
- 2. Install a 48" long 1x4 next.



Step 14 Install Roof Sheathing

Install roof sheathing with 6d common, space nails 12" apart. When installing sheathing across the top, insert a plyclip into the roof sheathing between each truss. The top row of sheathing will be about 1" below the ridge to allow for optional ridge venting. See detail below.

See supplier of shingles to

purchase ridge venting.

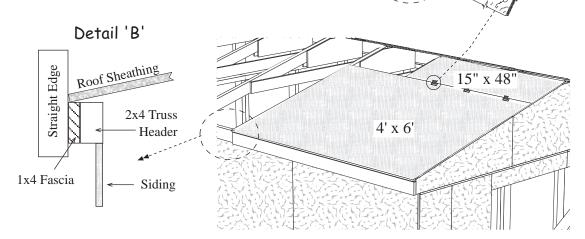
1. Install the first 4x6 roof sheathing panel against the back of of gable siding. Note: Using a straight edge install the top edge of the roof sheathing flush with the face of the 1x4 fascia. See Detail 'B'.

Shingles

2. Install a 15" x 48" sheathing panel at the top.

3. Continue to install sheathing per layout below.

4. Repeat on opposite side.

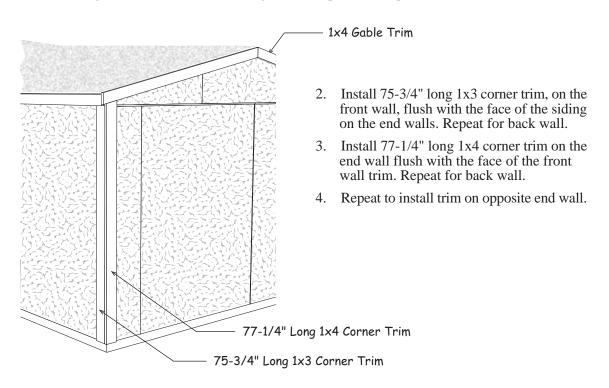


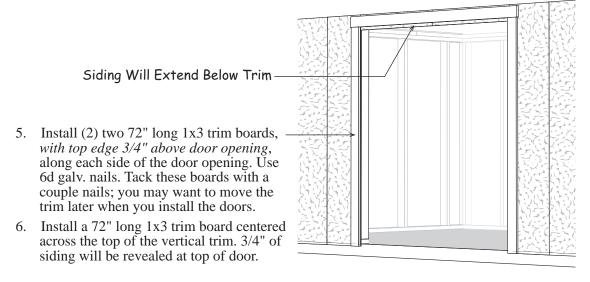
Roof Ridge

15"× 48"	15"x 48"	15"× 48"		15"× 48"	
48"× 48"	48"x 72	II	4	8"× 72"	

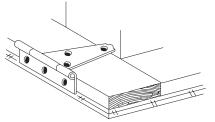
Step 15 Install Trim

1. Install 64-3/8" long 1x4 gable trim flush with the top of the roof sheathing on both end walls. Use 6d galv. nails spaced 12" apart.

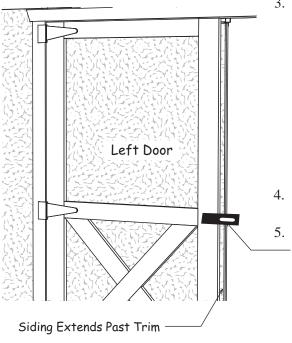




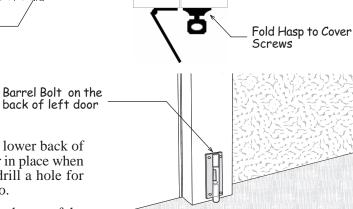
Step 16 Install Doors & Hardware



- 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.



- 3. 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.

Packing List

Qty.		D	Description
4	2x4	78"	Attached to Pallet
18	2x4	62"	Truss Rafters
44	2x4	72"	Studs & Plate Boards
8	2x4	68-1/2"	Plate Boards
12	2x4	60"	Plate Boards
6	2x4	48"	Plate Boards
6	2x4	10"-12"	Blocks for Truss Jig
4	1x4	64-3/8"	Gable Trim
4	1x4	77-1/4"	Corner Trim
4	1x3	75-3/4"	Corner Trim
3	1x3	72"	Door Trim
5	1x4	72"	Collar Ties
2	1x4	74"	Fascia Trim
2	1x4	72"	Fascia Trim
2	1x4	48"	Fascia Trim
1		67-1/2"	Pre-built Door Header
2			Pre-built Barn Doors
7	48"x7	4-3/4"	Primed Wall Siding
2	36"x7	4-3/4"	Primed Wall Siding
2	16"x7	4-3/4"	Primed Wall Siding
2	12-1/2	2"x74-3/4"	Primed Wall Siding
2	4-3/4"	x32-1/4"	Primed Wall Siding
2	48"x1	9-3/4"	Primed Gable Siding
4	38"x14-1/4"		Primed Gable Siding
4	48"x72"		OSB Roof Sheathing
2	48"x4	8"	OSB Roof Sheathing
8	15"x4	8"	OSB Roof Sheathing
16	8"x24	"	OSB Wood Gussets

0			
Qty.	Hardware Description		
3	lbs.	10d	Coated Sinkers
3	lbs.	6d	Galvanized Nails
4	lbs.	6d	Common Nails
6		5"	Hinges
1		4"	Door Hasp
2		6"	Barrel Bolts
25		1-1/4"	Hinge Screws
25		2"	Hinge Screws
50		2-1/2"	Deck Screws
16		2"	Hinge Screws
14		3/4"	Pan Head Screws
4		60"	'Z' Flashing

Material Purchased By Owner bdl. Roof Shingles pcs. Roof 'drip' edge