

Assembly Book

revised April 28, 2025



10' x 12 Handmade Haven

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 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

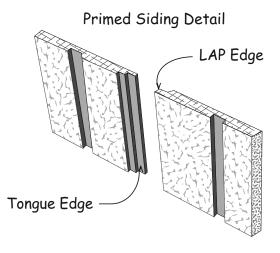
Tie Plate - 2x4s connecting wall sections together

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

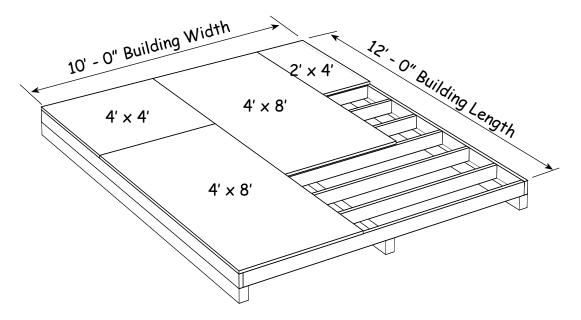
Email - questions@barnkits.com

Construction Details for FortressFloor System

Foundation size is 10'-0" x 12'-0". Check local building codes in your area, the construction may need to be modified. Insure the area is level and cleared of vegetation. Several inches of clean gravel is recommended to build upon.

1. Cut, if necessary, (2) two 2x4-12' long boards to 12'-0". Position boards together and indicate with 'X' marks where floor joists will be installed.

- 2. Cut (10) ten 2x4-10' long boards to 9'-9". Treated lumber may be thicker than 1-1/2". Take this into consideration when cutting the length of the floor joists. Shorten length if necessary to obtain a total width of 10'-0".
- 3. Install floor joists over 'X' marks between joist headers. Use (2) two 16d galv. nails on each end of joists.
- 4. Place 4x4s evenly spaced on ground. Set floor framing on top. Toenail 2x4s to 4x4s using 16d galv. nails. It is important for the floor to be level and square. Before installing the floor sheathing, measure the floor diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the floor is squire. Adjust framing accordingly.
- 5. Cut (1) one 4'x8' sheet of plywood in half to make (2) two 4'x4' sheets. Rip (1) one 4'x8' sheet of plywood to make (2) two 2'x8' sheets. Cut (1) one of 2'x8' sheets in half to make (2) two 2'x4' sheets. One will not be used.
- 6. Install plywood in a staggered pattern as shown below. Use 8d galv. nails spaced 12" apart.



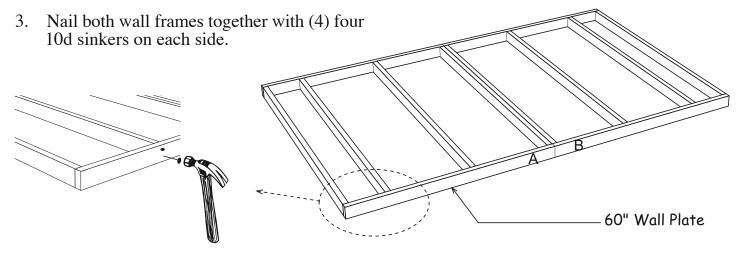
Material Description	10' x 12' Shed					
2x4 Joist Headers	2 pcs.	12'	3/4" Plywood	4 pcs.	4'x8'	
2x4 Floor Joist	10 pcs.	10'	Galv. Deck Nails	1 lbs.	8d	
4x4 Treated Runners	3 pcs.	12'	Galv. Deck Nails	1 lb.	16d	

Step 1 Assemble Back Wall

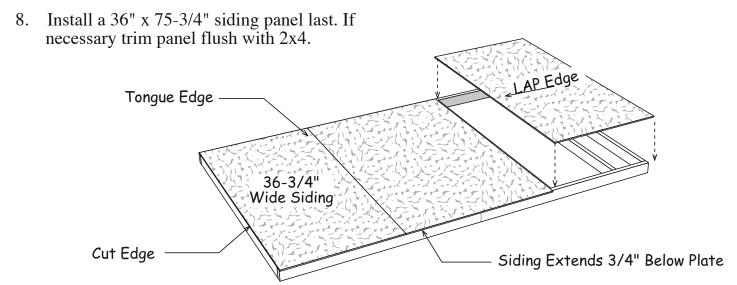
1. Position (4) four 60" boards together and indicate with 'X' marks, where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'.

	60" Wall	Plate			60" Wal	l Plate	
X	X	X	ΑX	ХВ	X	X	X
X	X	Χ	ΑX	ХВ	X	X	X
<u> </u>	<u>./4"</u> → <u> 24</u>	·"		< 23-1	<u>/4"</u> → <u>2</u> 4	1" →	

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.



- 4. Square frame, *measure diagonally (corner to corner)*. The measurement should be 141-1/2".
- 5. 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" on center.
- 6. Install a full width x 75-3/4" long siding panel next.

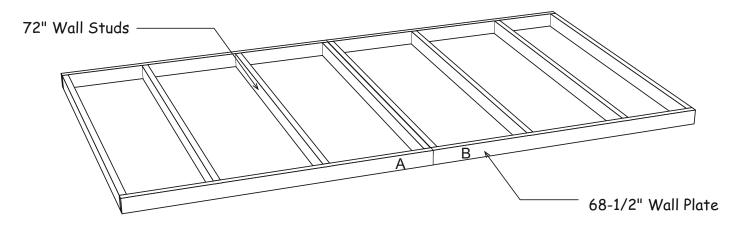


Step 2 Assemble Side Walls

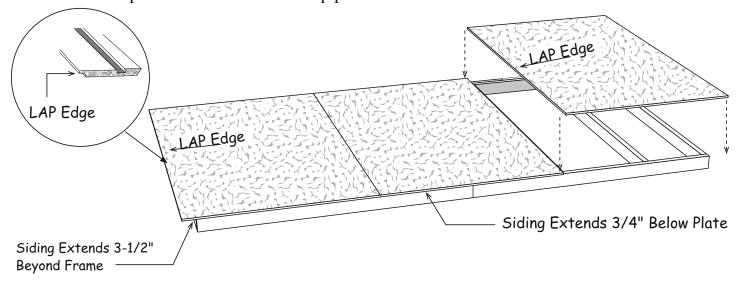
1. Position (4) four 68-1/2" boards together and indicate with 'X' marks, where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'.

68-1/2" Wall Plate					68-1/2" Wall Plate				
X	X	X	Α	X	X	В	X	X	X
X	X	X	Α	X	X	В	X	X	X
—	19-3/4"	24" →		[.	~	23-1/4"	- ←	24"	

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



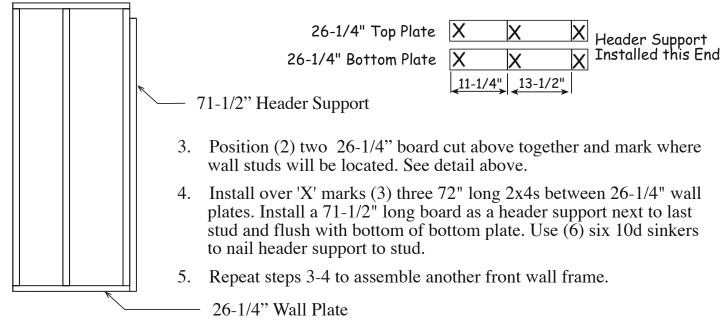
3. Square wall frame. The measurement should be 156-1/4". Install (3) three full width siding panels. Install the first siding panel with the 'LAP' edge extending 3-1/2" past the end of the wall frame. The last panel should extend 3-1/2" past frame. The siding should extend 3/4" below the bottom plate and flush with the top plate.



4. Repeat to assemble another side wall panel.

Step 3 Assemble Front Wall Frames

- 1. Cut (4) four 26-1/4" long boards from (2) two 60" long 2x4 board.
- 2. Cut (2) two 72" 2x4s to a length of 71-1/2" used for header supports.

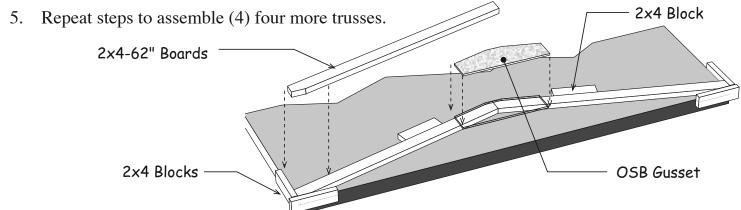


Step 4 Assemble Roof Gables and Trusses

Gables will have (1) one gusset applied. Trusses will have (2) two gussets.

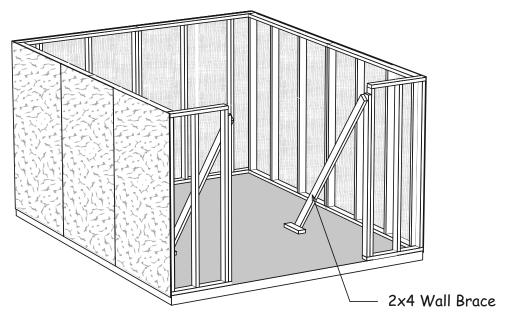
Tip: If possible, temporarily screw 2x4 blocks to the floor using 2-1/2" deck screws. Short 2x4s, that may have an angle on one end, supplied in the kit for this purpose. This will secure the gable and truss boards in position so all the trusses will be assembled the same.

- 1. Place (2) two 62" long 2x4 boards with angled ends together as shown below to make a gable. Hold in place with 2x4 blocks as shown. Make sure the gable measures 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 nails slightly so nails do not protrude through the 2x4 boards.
- 3. Repeat to assemble (1) one more gable for a total of (2) two gables.
- 4. Select (2) two 62" long 2x4 boards with angled ends to make the first truss. Secure the tops together with a 24" wide OSB gusset. Turn truss over and install another 24" wide gusset.

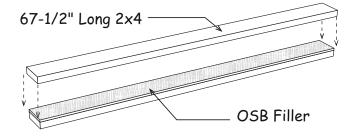


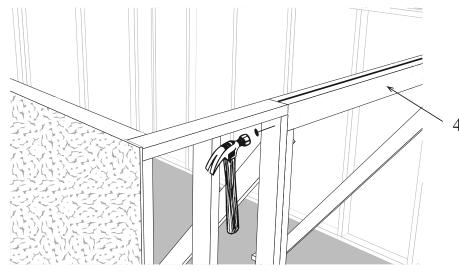
Step 5 Set Walls and Install Header

1. Erect wall panels. **IMPORTANT: Make sure walls are plum and square.** Secure wall 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. Temporarily brace the front wall on either side of the door opening using (2) two 72" long 2x4s.
- 3. Gather (2) two 67-1/2" long 2x4 boards and a 3-1/4" x 67-1/4" OSB filler panel. Nail header together from both sides with 10d sinkers staggered 6" apart.

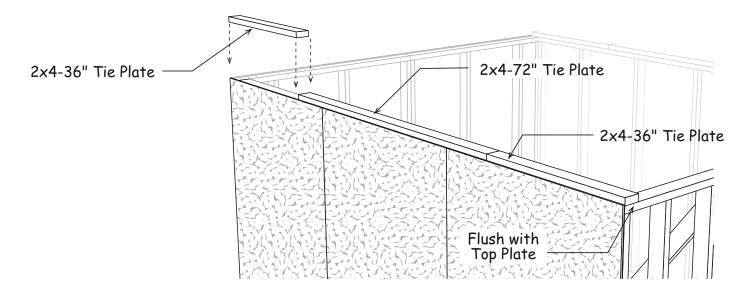




Install the 67-1/2" door header between the front wall frames on top of header supports. Secure with 10d sinkers through wall studs.

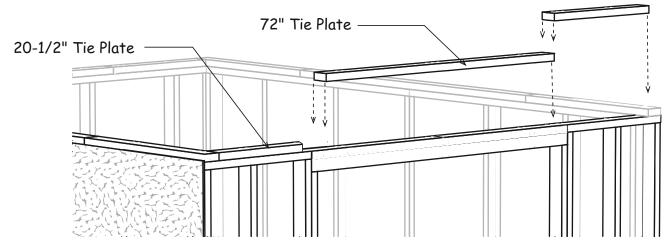
Step 6 Install Tie Plates on Side Walls

- 1. From a 72" long 2x4 cut (2) two 36" long boards.
- 2. Install (1) one 36" board as a tie plate over the side wall flush with the 2x4 wall plate on the front wall. Use 10d sinkers spaced 16" apart.
- 3. Install a 72" long 2x4 next. Install another 36" board to finish.
- 4. Repeat to install tie plates on the opposite side wall.



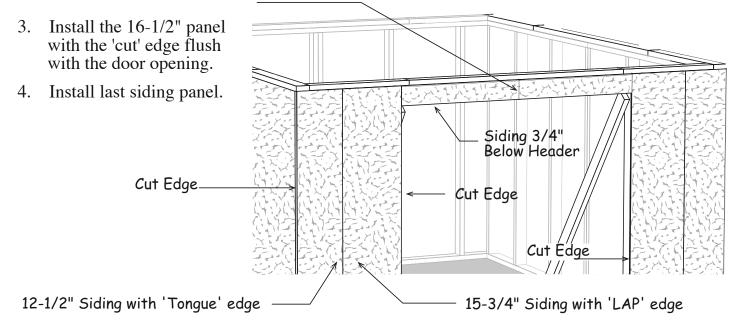
Step 7 Install Tie Plates on Front and Back Walls

- 1. Cut (2) two 20-1/2" long 2x4s from a 2x4-60" board. Install one board against tie plate on front wall.
- 2. Install a 72" long 2x4 next. Finish with last 20-1/2" board.
- 3. Cut (2) two 26-1/2" long 2x4s from a 2x4-60" board. Install one board against tie plate on back wall.
- 4. Install a 60" long 2x4 next and finish with another 26-1/4" long 2x4.



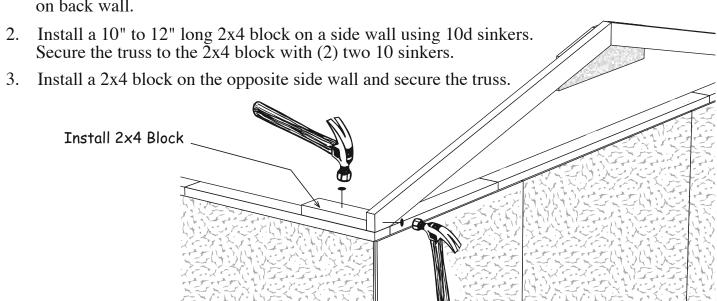
Step 8 Install Siding on Front Wall

- 1. Select a 12-1/2" siding panel with a 'Tongue' edge and install at the front left corner. Cut edge will be flush with side wall siding. Install a 15-3/4" siding panel with a 'LAP' edge next. Cut edge should be flush with door opening.
- 2. 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.

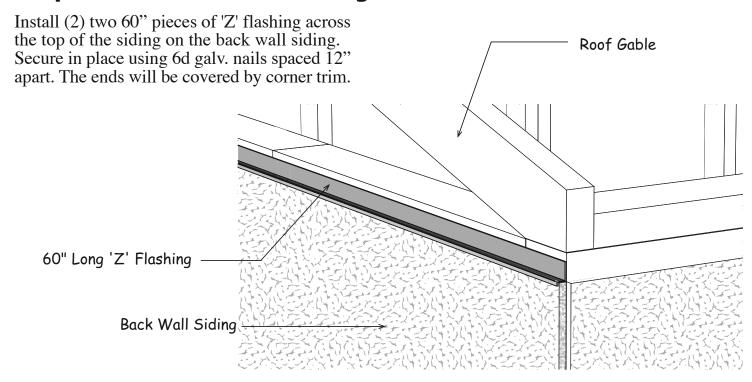


Step 9 Install Roof Gable

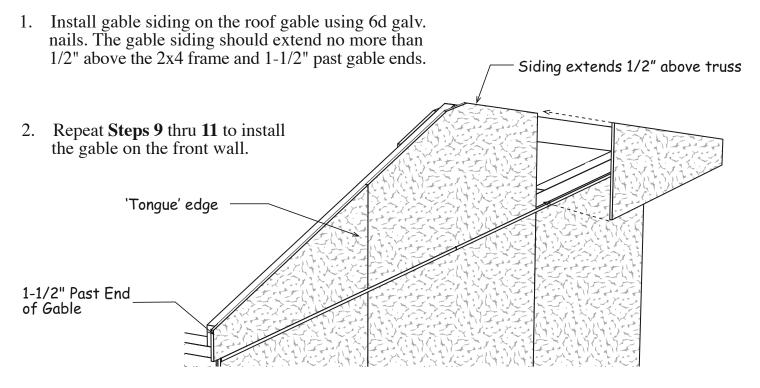
1. Select a truss with a gusset installed on one side. Position this truss with the gusset facing towards the inside of the building and flush with 2x4s on back wall.



Step 10 Install 'Z' Flashing

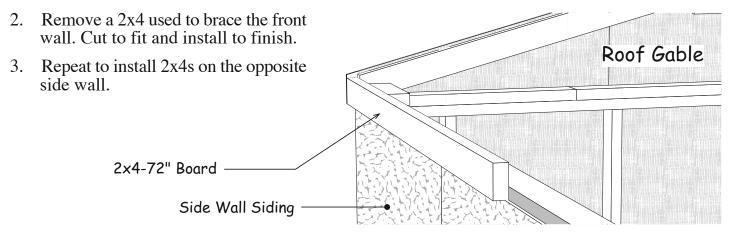


Step 11 Install Roof Gable Siding



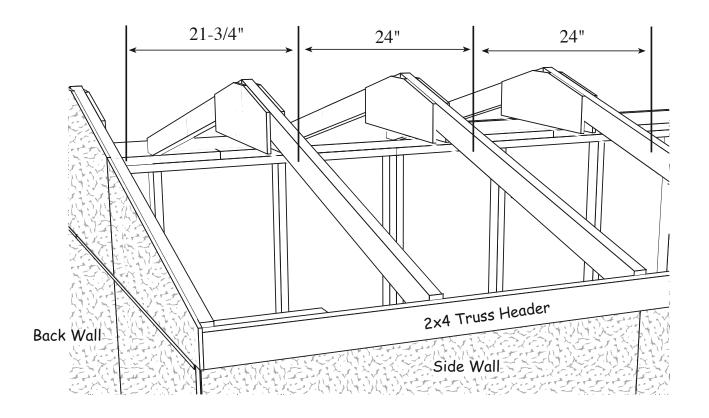
Step 12 Install 2x4 Truss Headers

1. Place a 72" long 2x4 on top of the siding on the sidewall. It will butt against the siding on the roof gable. Nails this 2x4 to the 2x4 tie plate with 10d sinkers.



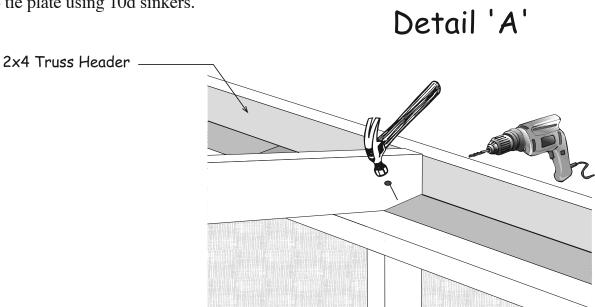
Step 13 Install Trusses

- 1. Starting from back wall install the first truss measuring 21-3/4" from the face of the 2x4 on back gable and the face 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 24" on center, see detail below.



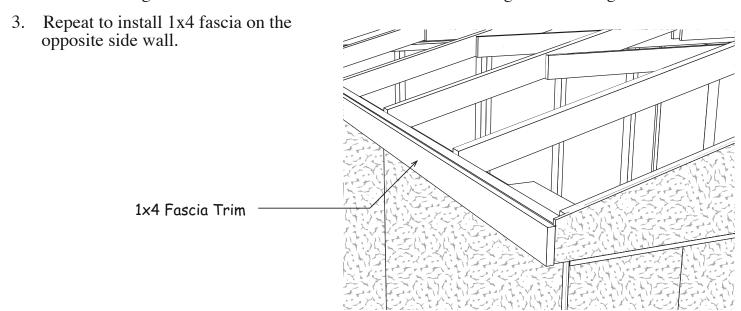
Step 14 Install Trusses Continued

Using a 2-1/2" screw, secure all trusses to 2x4 Truss Header installed in **Step 12**. Toe nail truss into 2x4 tie plate using 10d sinkers.



Step 15 Install 1x4 Fascia

- 1. Install 72" long 1x4 fascia trim over the 2x4 Truss Headers. Install 1x4 trim boards flush with the bottom of the 2x4 and flush with face of siding on the front gable. Use 6d galv. nails spaced 12" apart.
- 2. Cut a 74" long 1x4 to fit and install flush with the face of siding on the back gable.

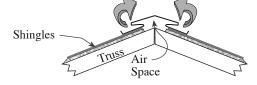


Step 16 Install Roof Sheathing

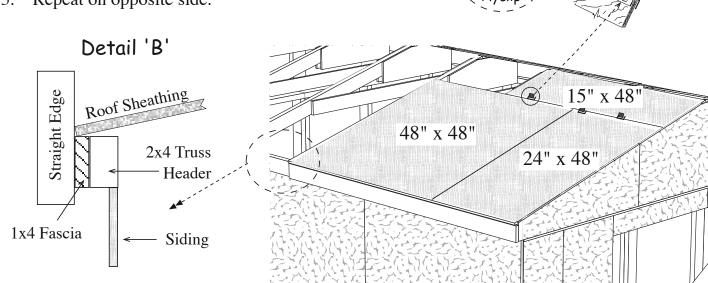


Install roof sheathing with 6d ommon nails, space nails 12" apart. When installing sheathing across the top, insert a plyclip into the roof sheathing between each truss. The top row of sheathing will be about 1" below the ridge to allow for optional ridge venting. See detail below.

See supplier of shingles to purchase ridge venting.



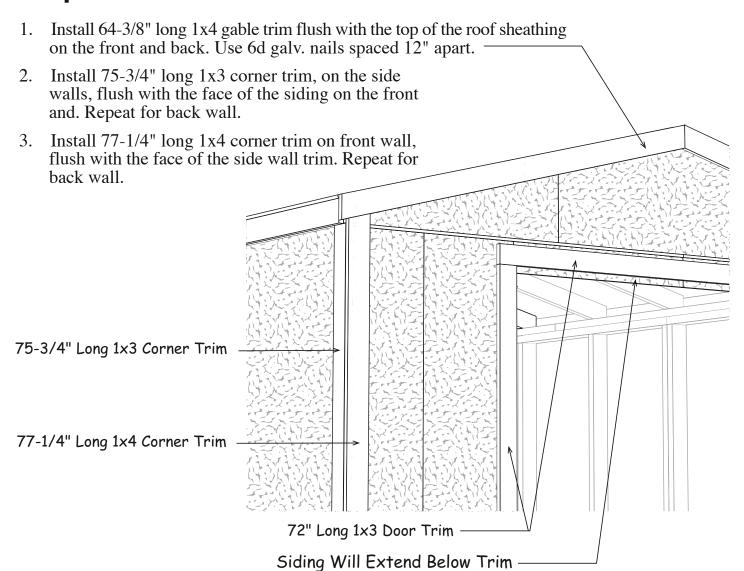
- 1. Install a 24"x48" roof sheathing panel against the back of of gable siding. Note: Using a straight edge install the top edge of the roof sheathing flush with the face of the 1x4 fascia. See Detail 'B'.
- 2. Install a 48"x48" sheet next to teh 24"x48" sheet.
- 3. Install a 15"x48" sheathing panel at the top.
- 4. Continue to install sheathing per layout below.
- 5. Repeat on opposite side.



Install roof sheathing on each side of the building as per pattern on right.

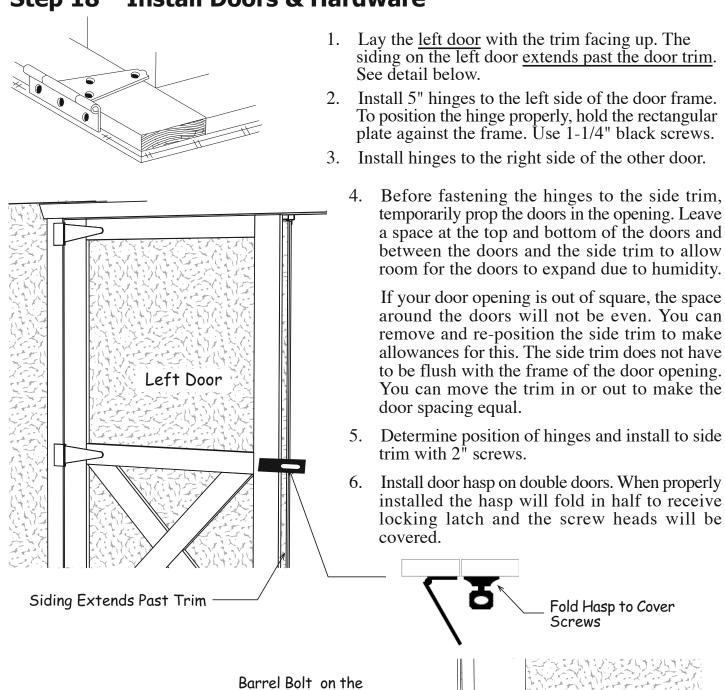
Roof Ridge								
15" x 48"		15"	× 48"	15" × 48"				
24"x48"	48"	× 48"	48"	× 48"	24"x48"			

Step 17 Install Trim



- 4. Install (2) two 72" long 1x3 trim boards, with top edge 3/4" above door opening, along each side of the door opening. Use 6d galv. nails. Tack these boards with a couple nails; you may want to move the trim later when you install the doors.
- 5. Install a 72" long 1x3 trim board centered across the top of the vertical trim. 3/4" of siding will be revealed at top of door.

Step 18 Install Doors & Hardware



7. 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.

back of left door

8. Install another barrel bolt at the top of the door.

10'x12' Packing List

Qty.		1	Description
14	2x4	62"	Truss Rafters
41	2x4	72"	Studs & Plate Boards
8	2x4	68-1/2"	Plate Boards
10	2x4	60"	Plate Boards
6	2x4	10"-12"	Blocks for Truss Jig
2	2x4	67-1/2"	Door Header
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
2	1x4	74"	Fascia Trim
2	1x4	72"	Fascia Trim
2			Pre-built Barn Doors
7	48"x75	5-3/4"	Primed Wall Siding
2	36"x75	5-3/4"	Primed Wall Siding
2	16"x75	5-3/4"	Primed Wall Siding
2	12-1/2	"x75-3/4"	Primed Wall Siding
2	4-3/4":	x32-1/4"	Primed Wall Siding
2	48"x19	9-3/4"	Primed Gable Siding
4	38"x14	4-1/4"	Primed Gable Siding
4	48"x48	3"	OSB Roof Sheathing
4	24"x48	3"	OSB Roof Sheathing
6	15"x48	3"	OSB Roof Sheathing
1	3-1/2":	x67-1/4"	Header Filler
12	8"x24'	1	OSB Wood Gussets

Qty.	Hardware Description					
3	lbs.	10d	Coated Sinkers			
3	lbs.	6d	Galvanized Nails			
3	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			
18		7-16"	Ply-clips			
16		3/4"	Pan Head Screws			
4		60"	'Z' Flashing			

Roofing Material Purchased By Owner							
5	bdl.	Roof Shingles	6	pcs.	Roof 'drip' edge		