

Best Barns USA **Assembly Book**

Revised November 4, 2022



m

the Woodville-R

10' x 12'

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:

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

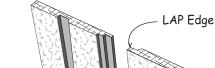
Tie Plate - 2x4s connecting wall sections together

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

Constructing Details for Deluxe Floor System

Deluxe floors include 4x4 runners, standard floors do not

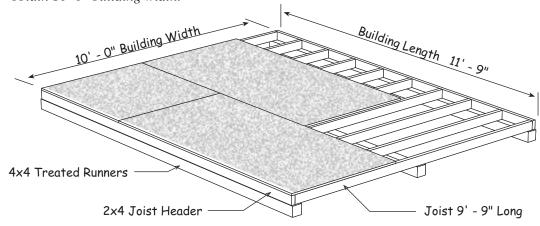
Foundation size is 10'-0" x 11'-9". Check local building codes in your area, the construction may have to change. For a concrete slab, install sill sealer as a moisture barrier between the concrete and the wall plates. Foam sill sealer can be purchased at home centers in rolls 3-1/2" or wider.

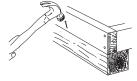
1. Cut 2x4-12' joist headers to 11' - 9".

Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

	X	X	X	X	
Joist Header	X	X	X	X	
	 	15-1/4"	16" →	16" →	

2. Cut 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.





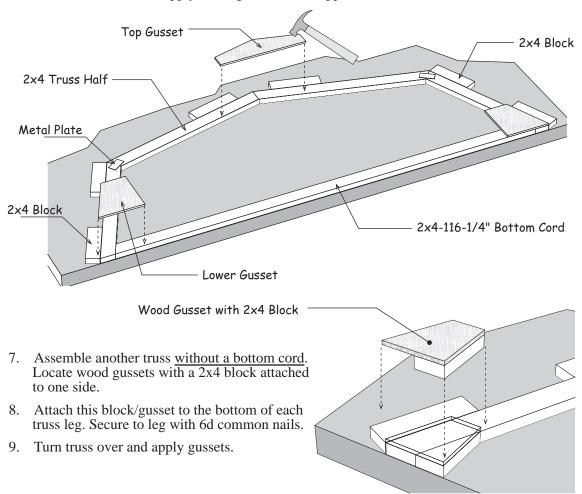
Nail the 2x4s to the 4x4 runners to keep the 2x4 frame from moving.

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 when the floor is square.

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

Step 1 Assemble Trusses

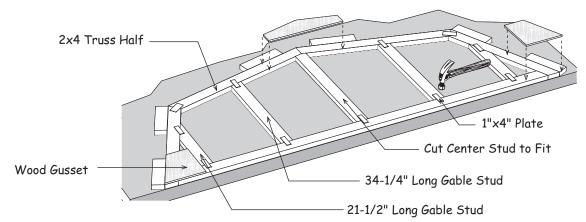
- 1. Position (2) two truss halves together so that a 116-1/4" long 2x4 bottom cord may be placed between them.
- 2. Hold truss parts in place by temporarily screwing 2x4 blocks to the floor. There are short 2x4 blocks supplied in the kit for this purpose. Use 2-1/2" wood screws.
- 3. Secure the tops together with a wood gusset. Nail the gusset with (16) sixteen 6d common nails. Space nails evenly.
- 4. Secure the truss bottom legs to the bottom cord with wood gussets. **Note**: You may have to spread the truss bottom to fit the bottom 2x4. Use 12 nails per gusset. Space nails evenly.
- 5. Assemble (3) three more trusses.
- 6. Turn trusses over and apply wood gussets to the opposite side.



Do Not remove blocks from floor until **Step 2** is completed.

Step 2 Assemble Rear Gable

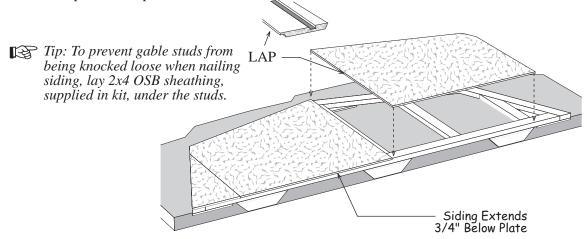
- 1. Place (2) two truss halves and a 116-1/4" bottom cord in the truss jig. Secure bottom cord with gussets.
- 2. Select a 42" long 2x4 center stud and cut to fit between ridge and bottom cord.
- 3. Install (2) two 21-1/2" and (2) two 34-1/4" with angle cut on one end. Secure 2x4 gable study to the truss with (9) nine 1"x4" metal plates at top and bottom.



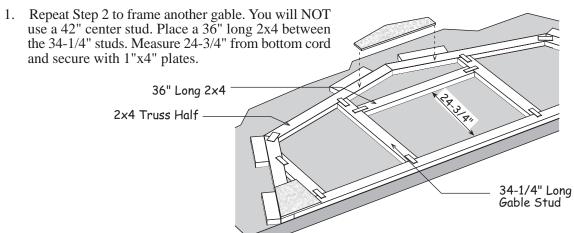
4. Screw (3) three 16" long 2x4 blocks flush with bottom of the 2x4 bottom cord. One on each end and one in the center. Use (2) two 2-1/2" screws.



5. Turn the gable over. Locate pre-cut gable siding. Starting from left install the siding extending 3/4" below the bottom 2x4. Insure the siding does not extend above the top frame. Use 6d galv. nails spaced 12" apart.

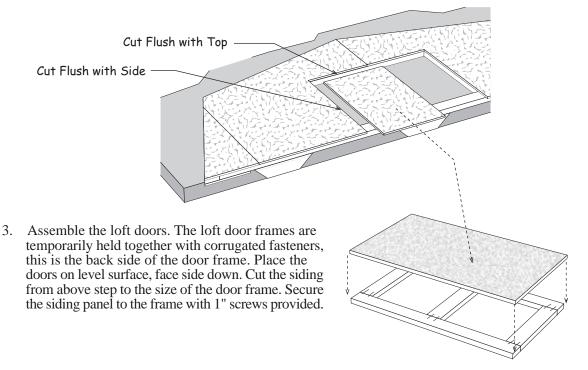


Step 3 Assemble Front Gable



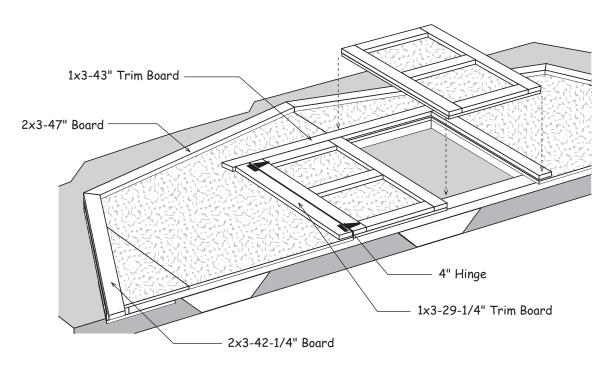
If you don't need loft access from the outside, attach loft door frames to the gable to create a decorative look and weather tight storage area.

2. Turn the gable over. Lay out the first (2) two pieces of siding on frame. **Important: Do not nail to frame.** Mark and cut so siding is flush with top and left side of opening. Cut to bottom of siding below gable plate. Nail first two pieces of siding to frame. Lay out next siding panel, do not nail, and repeat cut for right side door opening. Nail last two pieces of siding to frame.



Step 4 Install Front Gable Overhang and Front Loft Doors

- 1. Apply 47" long 2x3 boards to the front gable. Install flush with the top of the gable frame. Use 10d sinkers
- 2. Install a 42-1/4" long 2x3 at the sides of the gable, flush with the frame. Board will extend below siding.
- 3. Install 29-1/4" long 1x3 trim boards on each side of the loft door opening. Install a 43" long trim board across the top. Use 6d galv. nails spaced 8" apart.
- 4. Install loft doors using 4" hinges and 1-1/4" long hinge screws. The screws have a square head. The bit is packed with the screws. Install barrel bolts to the inside top of the doors to secure doors when closed. When door is closed mark where bolt will hit 2x4 gable frame. You will need to drill a 1/4" hole into the underside of the 2x4.



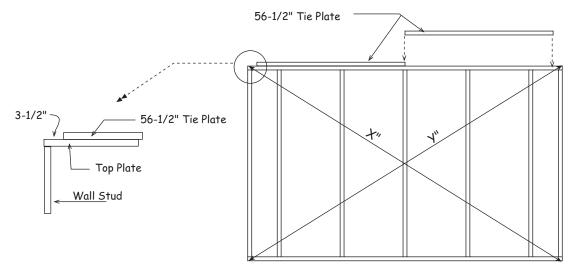
Step 5 Layout Plates for Back Wall

Position (2) two 2x4-10' boards together and indicate with 'X' marks, where the wall studs will be located.

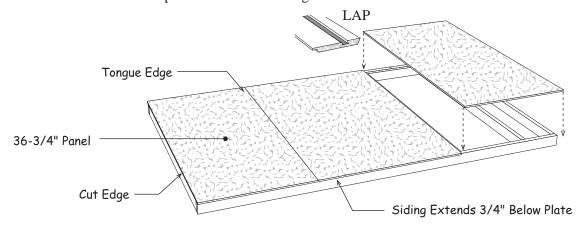
		10° - 0" Wall	Plate	
X	X	X	X	
X	X	X	X	
<u> </u>	/4" ← 24"	→ < 24"		

Step 6 Assemble Back Wall

- 1. Install 72" wall studs between the top and bottom plates. Nail studs to plate using (2) two 10d sinkers on each end of the stud.
- 2. Install (2) two 56-1/2" long 2x4 as tie plates over the top plate. The 2x4s will be 3-1/2" short of the end of the wall frame.

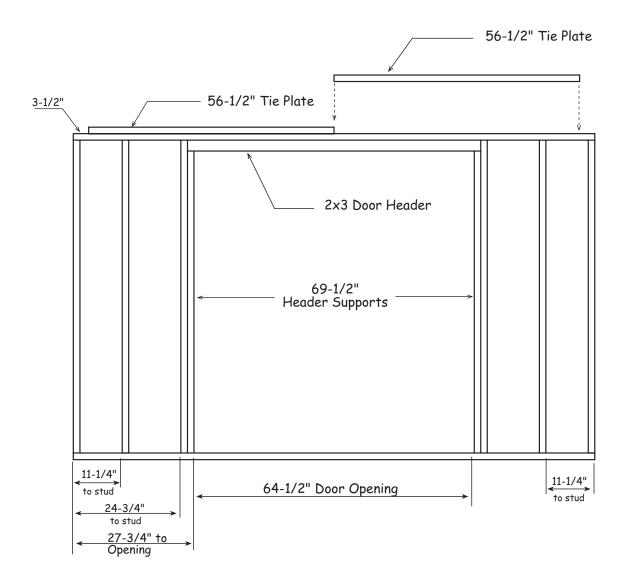


- 3. Square wall frame. *Measure diagonally (corner to corner)*. The two measurements (x" and y") will be the same when the wall is square.
- 4. Locate a 36-3/4" x 77-1/4" siding panel with the 'Tongue' edge. Install the siding panel on the left corner, with the 'cut edge' flush with the end of the wall and flush with the top of the 2x4 tie plate. The siding should extend below the bottom plate. Use the 6d galv. nails spaced 12" on center.
- 5. Install a 48-3/4" x 77-1/4" siding panel in the center of the wall frame.
- 6. Install a 36" x 77-1-4" panel with the 'LAP' edge last.



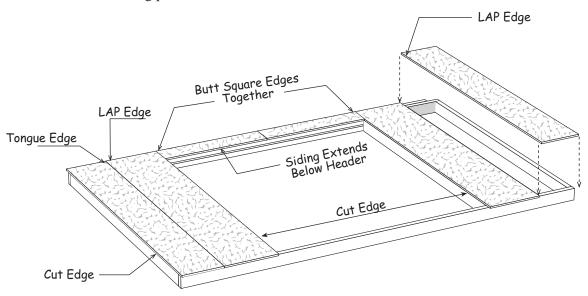
Step 7A Assemble Front Wall Panels

- 1. Install (6) six 72" wall studs between 2x4 10' top and bottom plates.
- 2. Cut (2) two 2x4-6' boards to 69-1/2" in length. Install a pre-built 2x3 door header and the 2x4s as headers support under the door header.
- 3. Install (2) two 56-1/2" long 2x4 as tie plates over the top plate. The 2x4s will be 3-1/2" short of the end of the wall frame.
- 4. Square wall frame.



Step 7B Assemble Front Wall Continued

- 5. Locate a 16" x 77-1/4" siding panel that has a 'LAP' edge. Position the <u>'cut' edge</u> flush with the left side of the door opening. Do not nail the LAP edge until the other siding is applied.
- 6. Locate the 12-3/4" wide siding with a 'tongue edge' and install on the left end of the front wall.
- 7. Install (2) two 6" siding panels over the door opening, flush with the top plate. Siding will extend below header.
- 8. Install another 16" wide siding panel with the 'cut' edge flush with the side of the door opening.
- 9. Install the last siding panel..



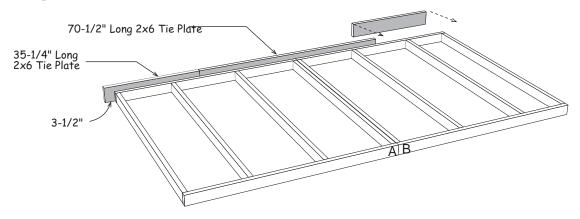
Step 8A Assemble Side Walls

1. Position 68-1/2" and 65-1/2" long 2x4 boards together and indicate where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'.

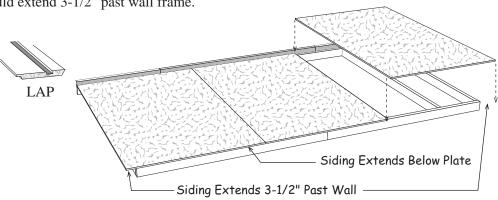
	68-1/2"	Wall Plate		65-1/	2" Wall Plate	
X	X	X	АВ	X	X	X
X	X	Χ	АВ	X	X	X
—	19-3/4" > 24"		-	23-1/4"	24" →	

Step 8B Assemble Side Walls Continued

- 2. Install 72" wall studs between the top and bottom plates.
- 3. Nail frames together. Use 10d sinkers.
- 4. Locate (2) two 70-1/2" long 2x6 boards and cut (1) one in half. Install a 35-1/4" long 2x6 first extending 3-1/2" past left side of wall. Install a 70-1/2" and finish with the last 35-1/4" 2x6 board as tie plates over the top plate. Use 10d sinkers spaced 6" apart.
- 5. Install (2) two 35-1/4" and a 70-1/2" long 2x6 boards as tie plates over the top plate. The 2x6s will extend 3-1/2" beyond the end of the wall frame.
- 6. Square wall frame.



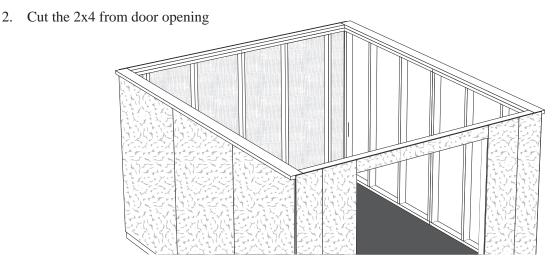
- 7. Locate (2) two siding panels that are 77-1/4" long and cut them to a length of 75-3/4"
- 8. Install a 75-3/4" long siding panel with the 'LAP' edge extending 3-1/2" beyond the frame.
- 9. Install another siding panel in the center.
- 10. Cut and install the last siding panel. Siding should extend 3-1/2" past wall frame.



11. Repeat to assemble another side wall frame and (3) siding panels.

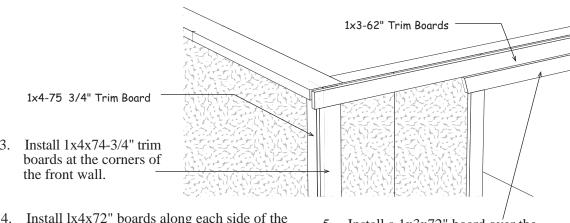
Step 9 Set Lower Walls

1. Secure wall panels together at the corners. Use (4) four 10d coated nails per corner. Nail wall panels to the floor. Nail through the bottom plate. Space 10d sinkers 24" apart.



Step 10 Install Trim

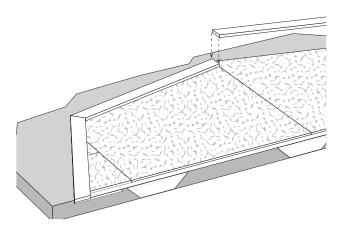
- 1. Install (2) two 1x3-62" long trim boards flush with the top of the front wall. Use 6d galv. nails.
- 2. Install 1x4-75 3/4" trim boards at the front corners of the sidewall. Install the trim flush with siding on the front wall.



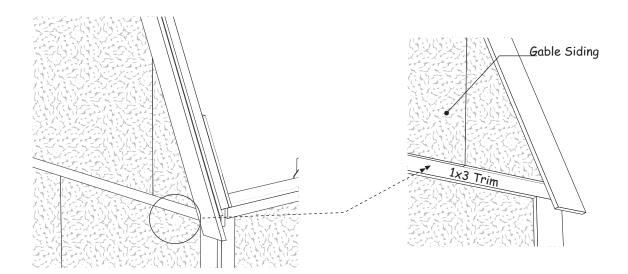
- 4. Install lx4x72" boards along each side of the door opening. Tack these boards with a couple nails; you may want to move the trim later when you install the doors.
- 6. Install trim on the back of the building.
- 5. Install a 1x3x72" board over the door opening.

Step 11 Install Rear Gable

- 1. Apply 1x4 trim to gable. Install a 47-1/2" long 1x4 at the top of the gable. Install the 1x4 gable trim extending 1/2" above the siding on the gable. When installed later, the roof sheathing will be flush with the top of the trim.
- 2. Install a 43" long 1x4 at the sides of the gable, 1/2" above the siding on the gable.

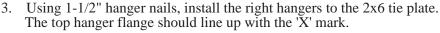


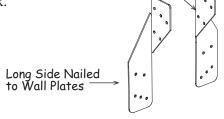
3. Install the rear gable on the back wall. The gable siding will <u>extend over the 1x3 trim</u> on the lower wall. **NOT behind the trim!** Secure gable to wall by nailing through the gable blocks with 10d sinkers. Nail siding along the 1x3 trim board with 6d galv. nails.



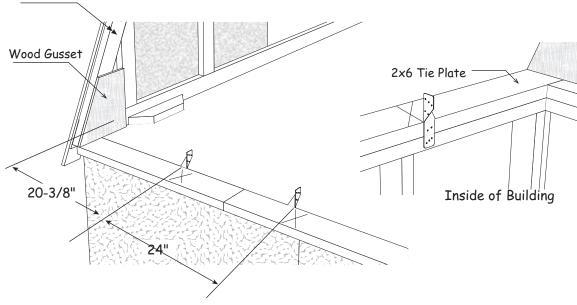
Step 12 Layout for Truss Spacing

- 1. Layout the truss spacing on the left side wall, facing building. Start at the back of the building. Measure from the <u>inside face of the wood gusset</u> when marking the location of the first truss.
- 2. Locate the truss hangers, there are left and right hangers. Select the right hangers.





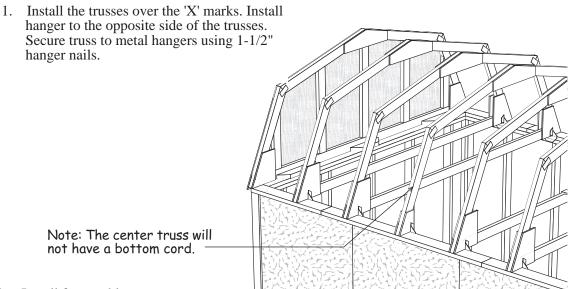
Rear Gable



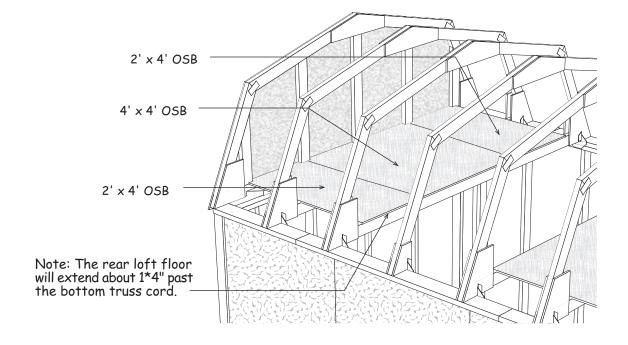
B

Important: When marking the opposite wall, use the <u>left hangers</u> and place the 'X' mark on the same side of the line so your trusses are parallel when they are installed.

Step 13 Install Trusses & Loft Floor



- 2. Install front gable.
- 3. Install OSB loft flooring over the rear and front trusses. Notch the flooring around the gable study on the rear and front gables. Secure floor with 6d common spaced 12" apart.

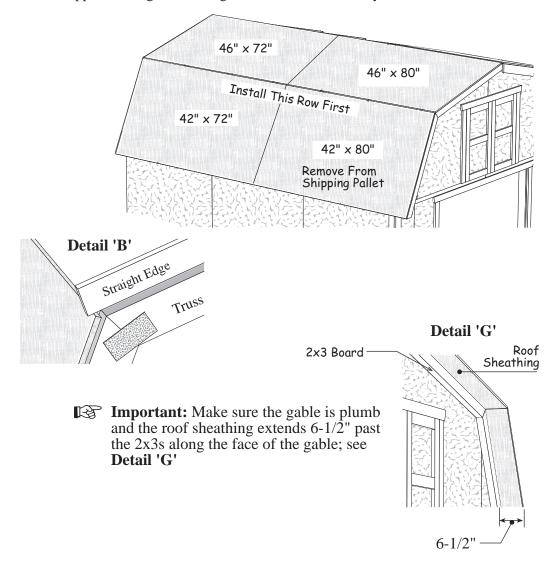


Step 14 Install Roof Sheathing

Install roof sheathing on the steep side of the roof. Use a straight edge to align the top of the sheathing with the top of the truss; see **Detail 'B'**. Make sure the trusses are plumb and the roof sheathing meets the center of the truss. Use 6d common spaced 8" apart.

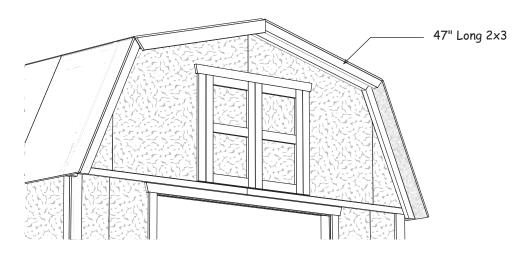
The top roof sheathing will not extend to the ridge. This will allow an opening for air ventilation should you install a ridge vent.

- 1. Working from rear gable install a 42" x 72" OSB sheet against back of trim.
- 2. Install a 42" x 80" and cut (if necessary) to extend 6-1/2" past 2x3 board on front gable.
- 3. Install upper sheeting next cutting the 80" sheet if necessary.

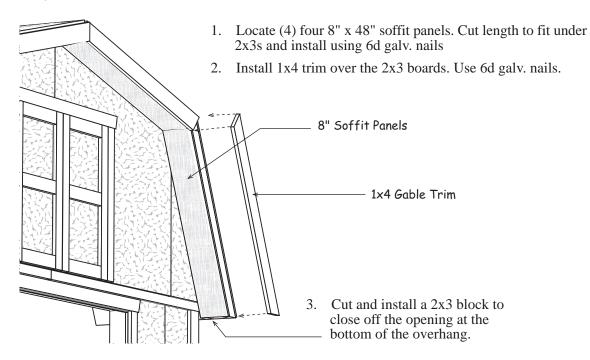


Step 15 Install Gable Overhang

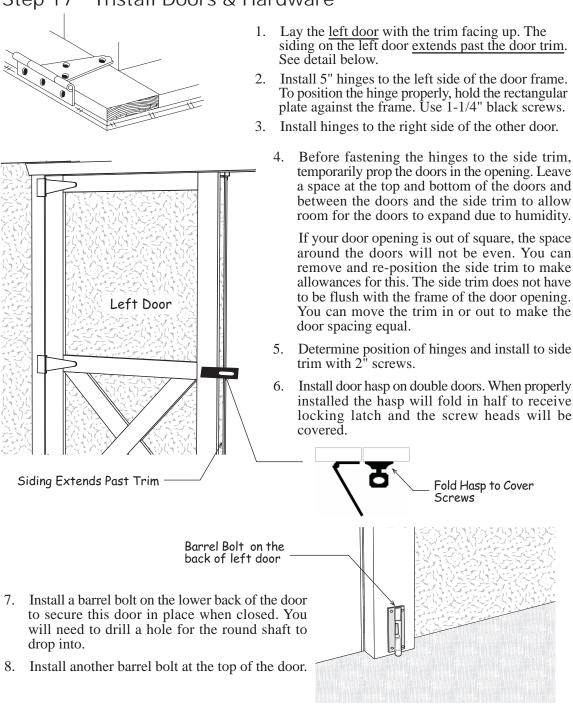
- 1. While a helper holds the 47" long 2x3s under roof sheathing and against the front edge. Screw the sheathing to the 2x3s with 1-1/2" long screws.
- 2. Install the 42-1/4" 2x3s on the side roof sheathing in the same manner.



Step 16 Install Gable Soffit and Trim







Install Shingles - not included in kit

Install roof shingles per instructions on outside of wrapper.

Building Tip: Install ridge vent in lieu of shingles caps. Ridge vent provides ideal ventilation, preventing heat or moisture build-up from damaging your building or its contents.

Material Description	Quantity
Roof Shingles	7 bdl.
Roof 'drip' Edge	6 pcs.

Shingles

Space
Ridge vent provides
ideal ventilation.

Truss Air

Meadowbrook and Woodville 10'x 12' Barn kit

Qty.	2x4 & 2x6 Fram	ing	Siz	ze	Qty.	Description	on Si		ize
4	Wall Plates		120	"		Trim			
8	Truss - Bottom Cords		116	1/4"	4	1x4 Gable Trim		47	1/2"
31	31 Wall Studs		72	"	4	1x4 Gable Trim		43	"
4	Wall Plates		68	1/2"	4	1x4 Corner Trin	1	75	3/4"
4	Wall Plates		65	1/2"	4	1x4 Corner Trin	1	74	3/4"
4	Wall Plates		56	1/2"	2	1x4 Door Trim		72	"
1	Gable Studs & Framin	g	36	"	1	1x3 Top Door To	rim	72	"
1	Gable Studs & Framin	g	42	"	4	1x3 Lower Wall	Trim	62	"
4	Gable Studs & Framin	g	34	1/4"	2	1x3 Loft Door T	rim	29	1/4"
4	Gable Studs & Framin	g	21	1/2"	1	1x3 Loft Door T	`rim	43	"
						Exterior Siding &	& Soffit		
					3	48" x 77-1/4"	2	12" x ′	77-1/4"
6	Gable Nailing Blocks		15	3/4"	2	36" x 77-1/4"	4	48" x ′	75-3/4"
4	2x6 Tie Plates for Side	walls	70	1/2"	2	16" x 77-1/4"			
2x3 Framing				4	Siding for Roof Gables 48" x 48"				
4	4 Gable Overhangs		47	"	4	Siding for Roof Gables 16" x 30"			
4	4 Gable Overhangs		42	1/4"	1	Siding For Header 6" x 32-3/4" & 6" x 32-1/4"			32-1/4"
2	2 Gable Blocks		6	1/4"	4	8" x 48" Front Soffit Panels (Woodville mode		e model)	
	Pre-built Components					Hardware			
14	14 Pre-built Truss Halves				3	lb. 10d Sinkers	20	Truss H	angers
2	32" x 72" Pre-built	Barn Doo	rs		4	lb. 6d Galv.	75	Hinge S	crews
2	2 18" x 29" Loft Door Frames				5	lb. 6d Common	1	Door Ha	asp
1	1 2x3 Door Header		67-1/2	"	2	lb. Hanger Nails	2	4" Barre	el Bolts
	Loft Floor & Roof Sheathing						2	6" Barre	el Bolts
2	42" x 80"	2	42" x	72"			12	2-1/2" S	crews
2	46" x 80"	2	46" x	72"	4	4" Door Hinges	36	1" Scre	ws
2	48" x 48"	4	24" x	48"	6	5" Door Hinges	24	1-5/8" \$	Screws
	Miscellaneous Lumber				22	1x4 Drive-on Plate			
12	12 Wood Truss Ridge Gussets		8" x	24"		Miscellaneous			
20	20 Wood Bottom Truss Gussets		12" x	12"	2	Center Truss Blocks	w/gusset	3-1/2"	x7-1/2"

Roof Material by Owner

Roof Shingles	7 bdl.
Roof 'drip' Edge	6 pcs.