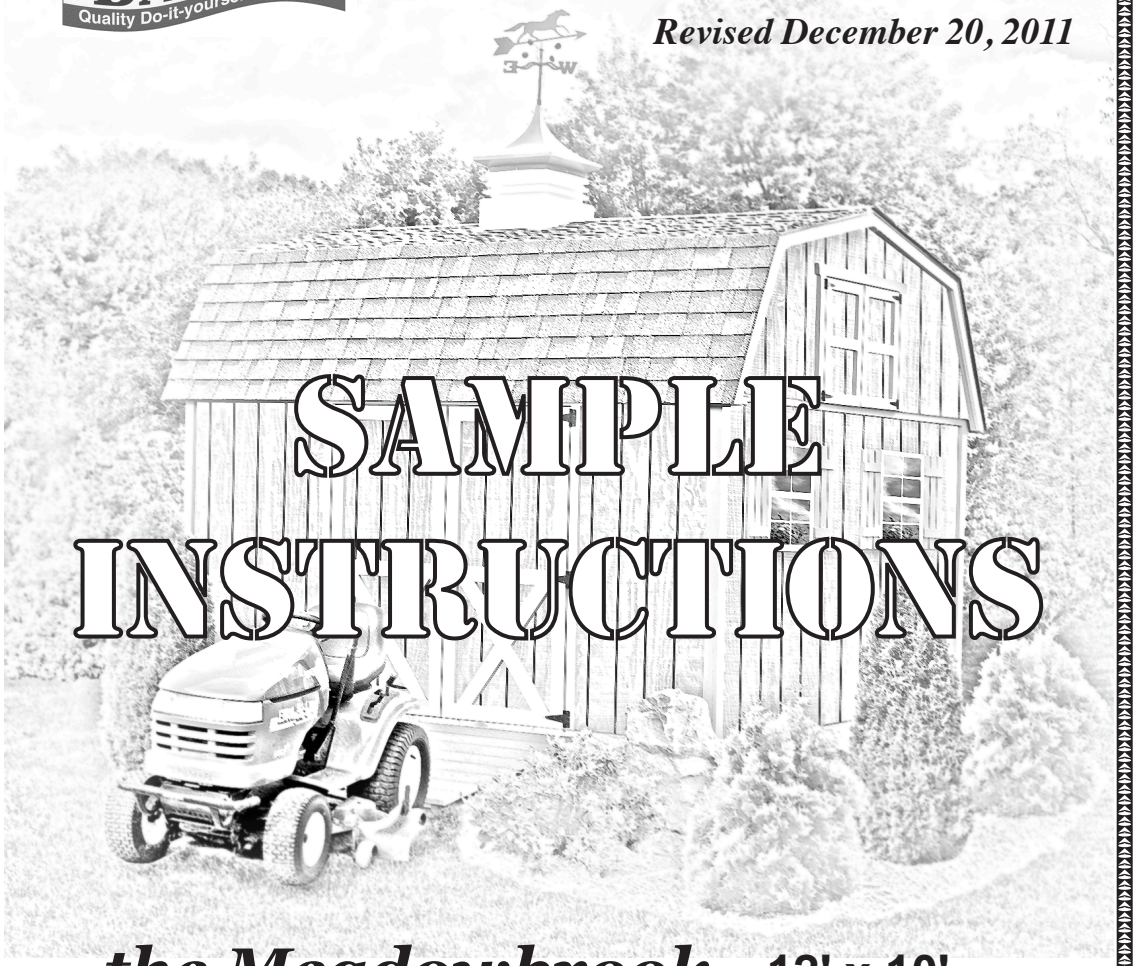
Best Barns USA
Assembly Book

Revised December 20, 2011



SAMPLE INSTRUCTIONS

the Meadowbrook 12' x 10'

Manufactured by Reynolds Building Systems, Inc.

205 Arlington Drive Greenville, PA 16125 724-646-3775

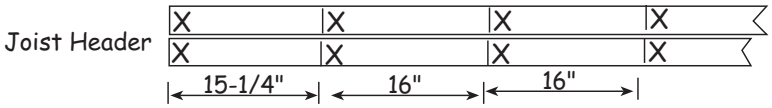
Constructing Details for Deluxe Floor System

Deluxe floors include 4x4 runners, standard floors do not

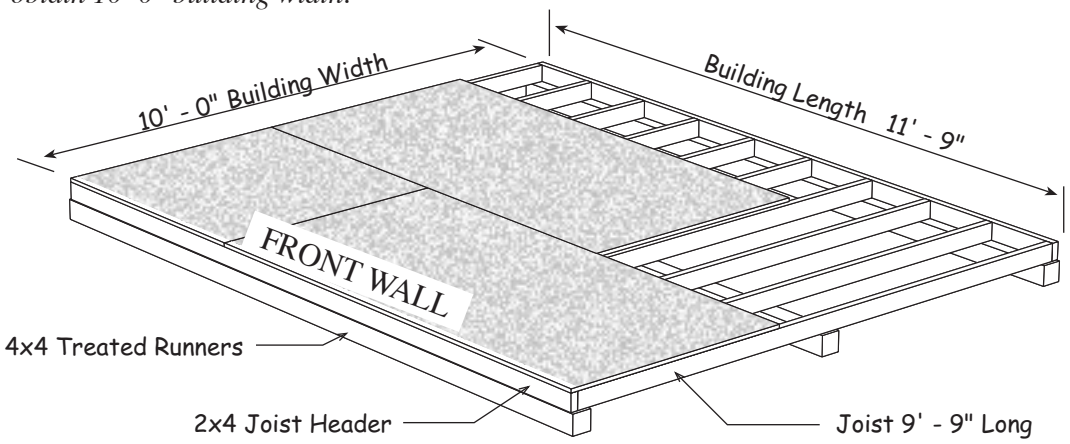
Foundation size is 10'-0" x 11'-9". Check local building codes in your area, the construction may have to change. For a concrete slab, install sill sealer as a moisture barrier between the concrete and the wall plates. Foam sill sealer can be purchased at home centers in rolls 3-1/2" or wider.

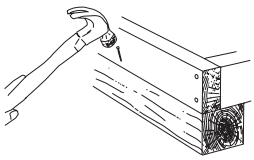
1. Cut joist headers to floor length. See Below.

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



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.*





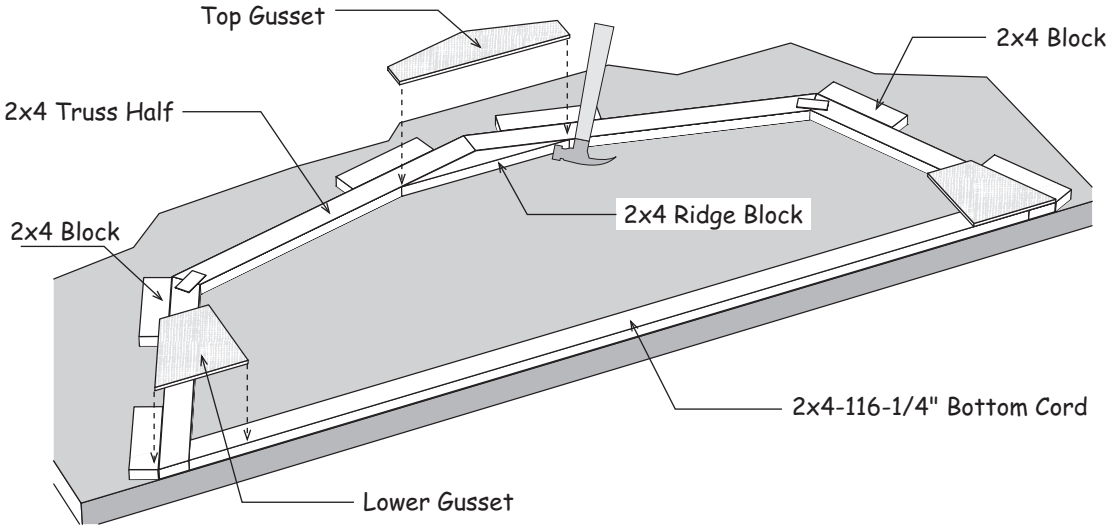
Nail the 2x4s to the 4x4 runners to keep the 2x4 frame from moving.

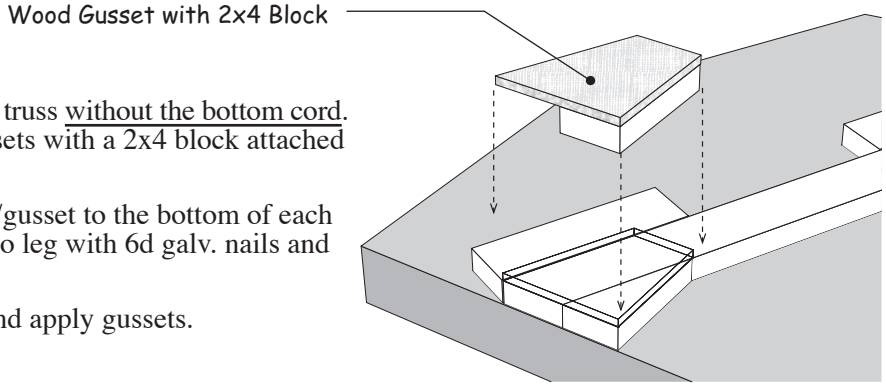
It is important that the floor be level and square. Before nailing the flooring, measure the floor diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the floor is square.

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 half trusses between a 116-1/4" long 2x4 bottom cord.
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 the 2-1/2" wood screws.
3. Secure the tops together with a 22-3/4" long ridge block and wood gusset. Apply wood glue between the 2x4 boards and the gusset. Nail the gusset with (16) sixteen 6d common nails.
4. Secure the truss bottom legs to the bottom cord with wood gussets. Use 12 nails per gusset.
5. Assemble (3) three more trusses.
6. Turn trusses over and apply wood gussets to the opposite side.



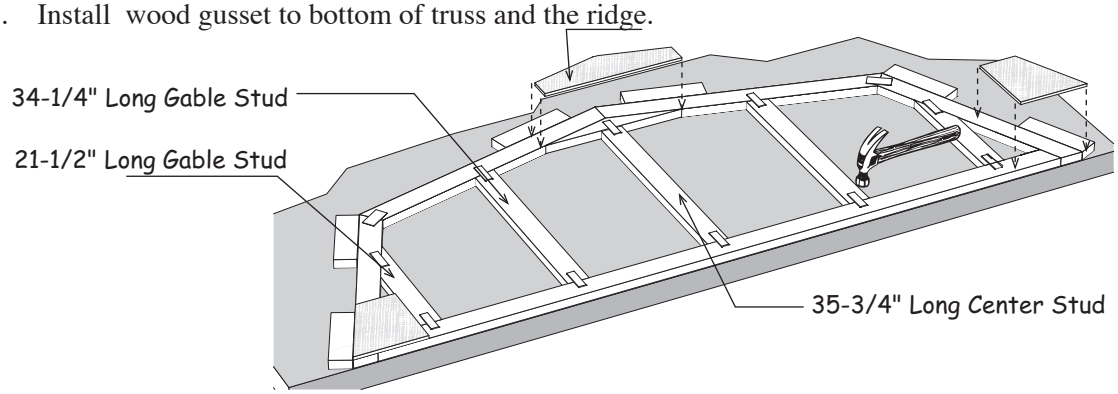


7. Assemble the last truss without the bottom cord. Locate wood gussets with a 2x4 block attached to one side.
8. Attach this block/gusset to the bottom of each truss leg. Secure to leg with 6d galv. nails and wood glue.
9. Turn truss over and apply gussets.

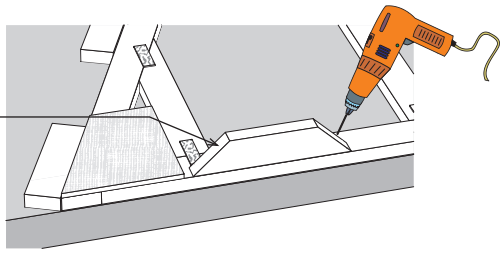
Do Not remove blocks from floor until **Step 2** is completed.

Step 2 Assemble Roof Gable Without Loft Doors

1. Position (2) two half trusses between a 116-1/4" long 2x4 bottom cord.
2. Secure 2x4 gable studs to the truss with (10) ten 1"x4" metal plates.
3. Install wood gusset to bottom of truss and the ridge.

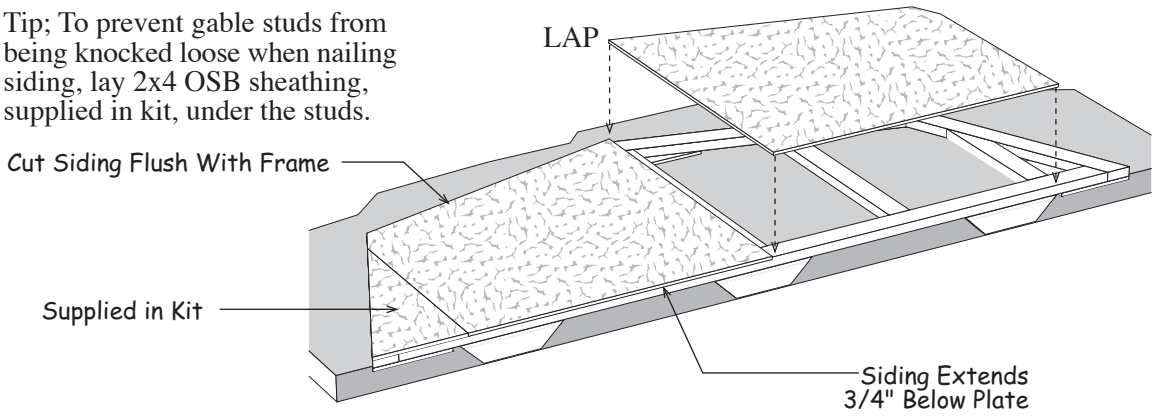


4. Screw (3) three 16" long 2x4 blocks across the bottom of the 2x4 bottom cord. Use 2-1/2" screws.



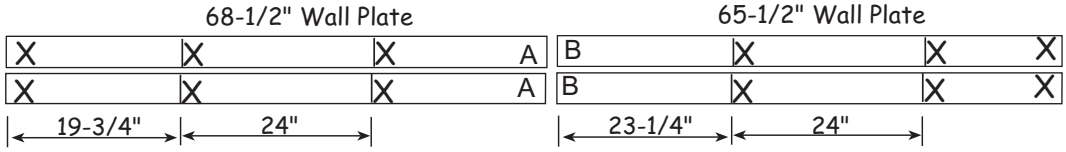
5. Turn the gable over. Cut a 4x8 siding panel in half creating (2) twO 4'x4' siding panels.
6. Install the siding extending 3/4" below the bottom 2x4. Cut the top flush with the top frame. Use 6d galv. nails. Space 12" apart.
7. Install pre-cut siding, *from our kit*, on the ends.

Tip; To prevent gable studs from being knocked loose when nailing siding, lay 2x4 OSB sheathing, supplied in kit, under the studs.

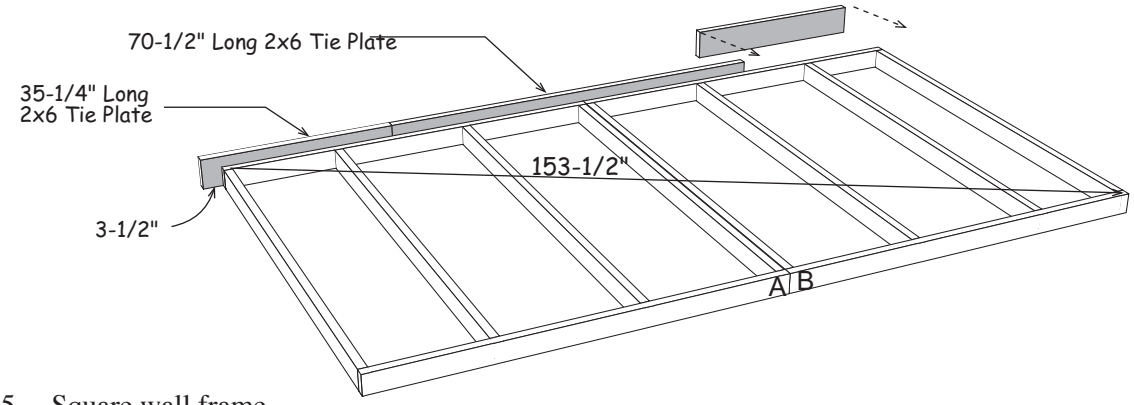


Step 6 Assemble Back Wall

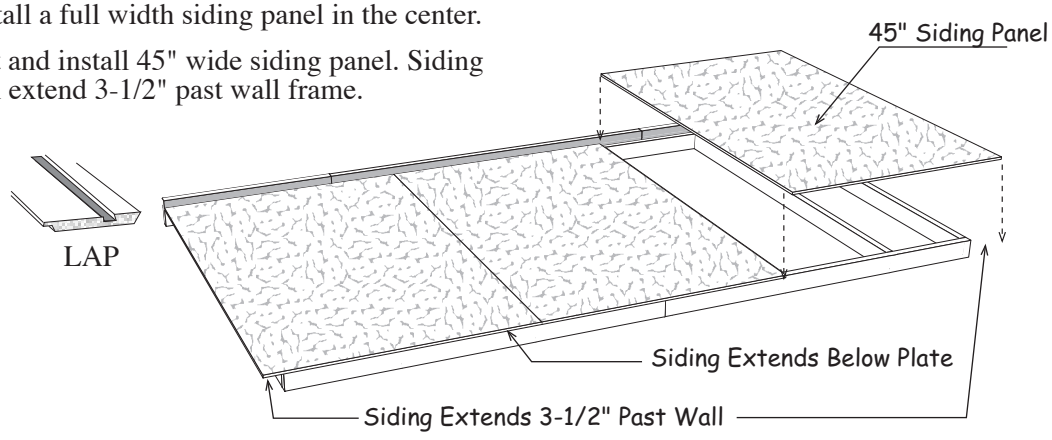
1. Position 68-1/2" and 65-1/2" long 2x4 boards together and indicate where the wall studs will be located. Mark the ends that will butt together with the letters 'A' and 'B'.



2. Install 72" wall studs between the top and bottom plates. Nail frames together.
3. Cut a 70-1/2" long 2x6 board in half.
4. Install (2) two 35-1/4" and a 72" long 2x6 boards as tie plates over the top plate. The 2x6s will extend 3-1/2" beyond the end of the wall frame.

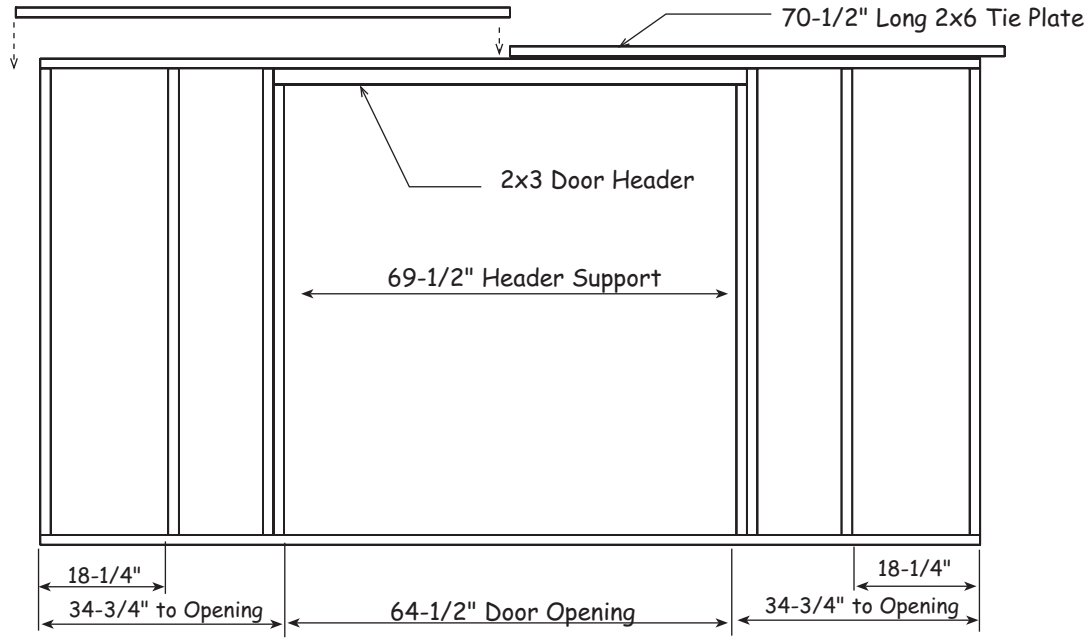


5. Square wall frame.
6. Cut (3) three siding panels to a length of 75-3/4". Install the first siding panel with the 'LAP' edge extending 3-1/2" beyond the wall frame.
7. Install a full width siding panel in the center.
8. Cut and install 45" wide siding panel. Siding will extend 3-1/2" past wall frame.



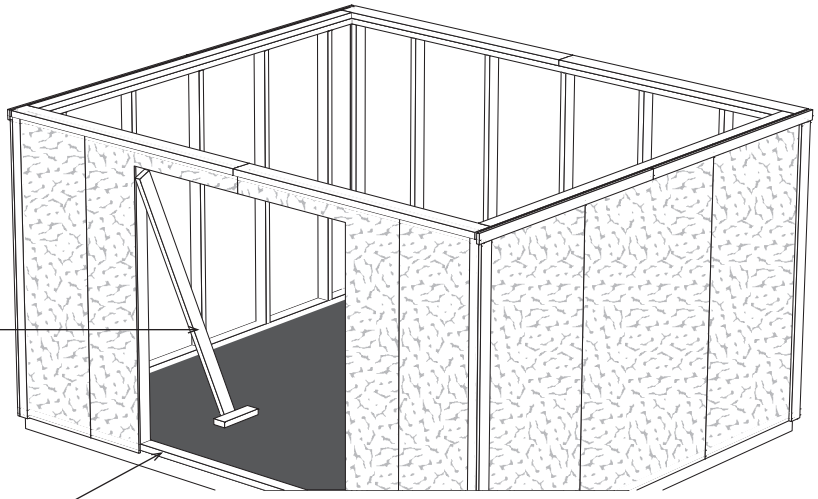
Step 7 Assemble Front Wall Panel

1. Cut (2) two 2x4-12' boards to a length of 11' - 2". Install (6) six 72" wall studs between the 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 69-1/2" long 2x4s as header support under the door header.
3. Install (2) two 70-1/2" long 2x6 as a tie plate over the top plate. The 2x6s will extend 3-1/2" beyond the end of the wall frame.



Step 9 Set Lower Walls

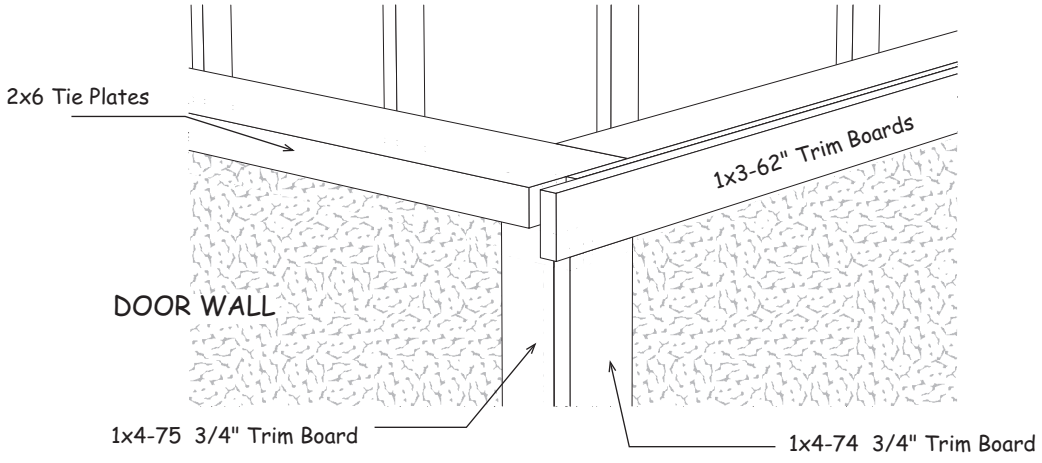
1. Secure wall panels together at the corners. Use (4) four 10d coated nails per corner. Nail wall panels to the floor. Nail through the bottom plate. Space 10d sinkers 24" apart.



2. Install 2x4-6' to hold wall straight.
3. Cut 2x4 bottom plate from door opening

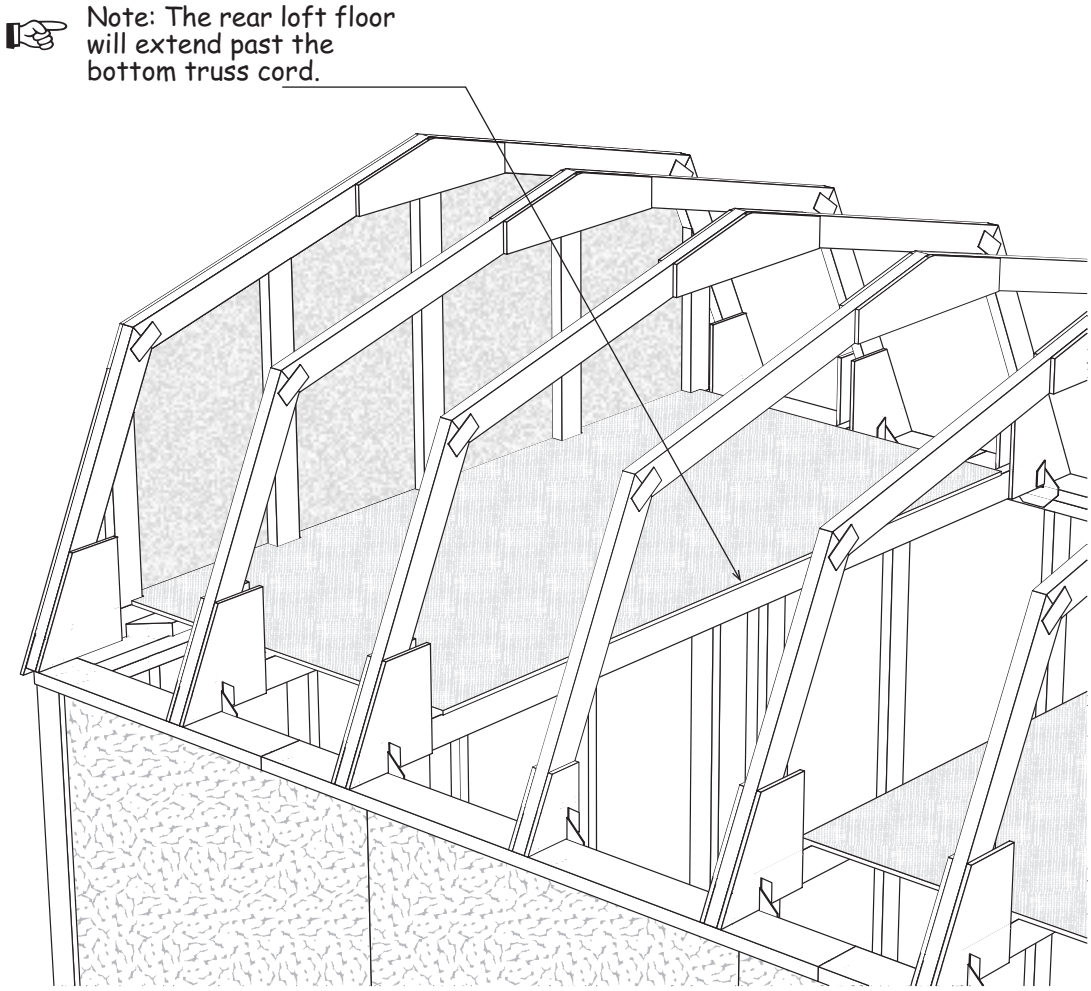
Step 10 Install Trim

1. Install (2) two 1x3-62" long trim boards flush with the top of the front wall. Use 8d galv. nails.
2. Install 1x4-75 3/4" trim boards at the corners of the front and back. Install the trim flush with siding on the end wall.
3. Install 1x4x74-3/4" trim boards at the corners of the front wall.

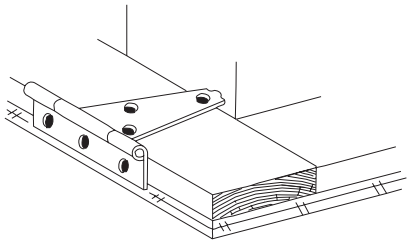


Step 13 Install Loft Floor

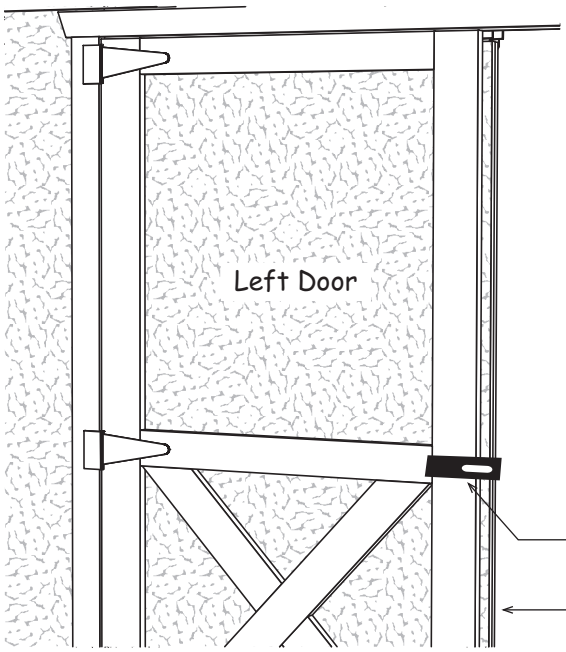
Install 4' x 8' OSB loft flooring over the rear and front trusses. Notch the flooring around the gable studs on the rear and front gables. Secure floor with 7d sinkers.



Step 15 Install Doors & Hardware

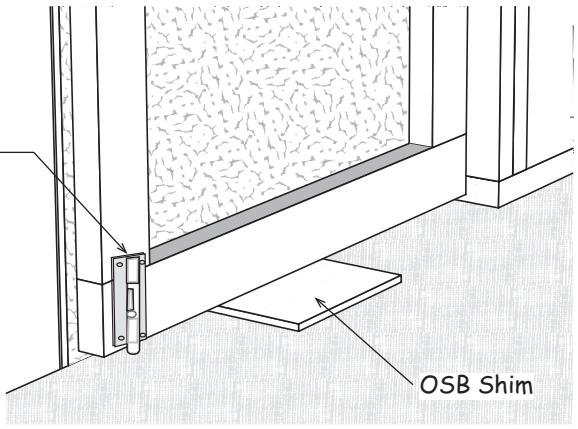


1. Lay the left door with the trim facing up. The siding on the left door extends past the door trim. See detail below.
2. Install 5" hinges to the left side of the door frame. To position the hinge properly, hold the rectangular plate against the frame. Use 1-3/4" black screws.
3. Install hinges to the right side of the other door.



4. Before you fasten the hinges to the door trim, temporarily prop the doors in the opening. Leave a space at the top of the doors and between the doors and the side trim to allow room for the doors to expand when they absorb moisture.

   If your door opening is out of square, the space around the doors will not be even. You can remove and reposition 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.
5. Install hinges to trim with 2" screws.



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.