BEST BARNS USA
Quality Do-it-yourself Barn Kits

Best Barns USA
Assembly Book

November 2, 2010

SAMPLE INSTRUCTIONS
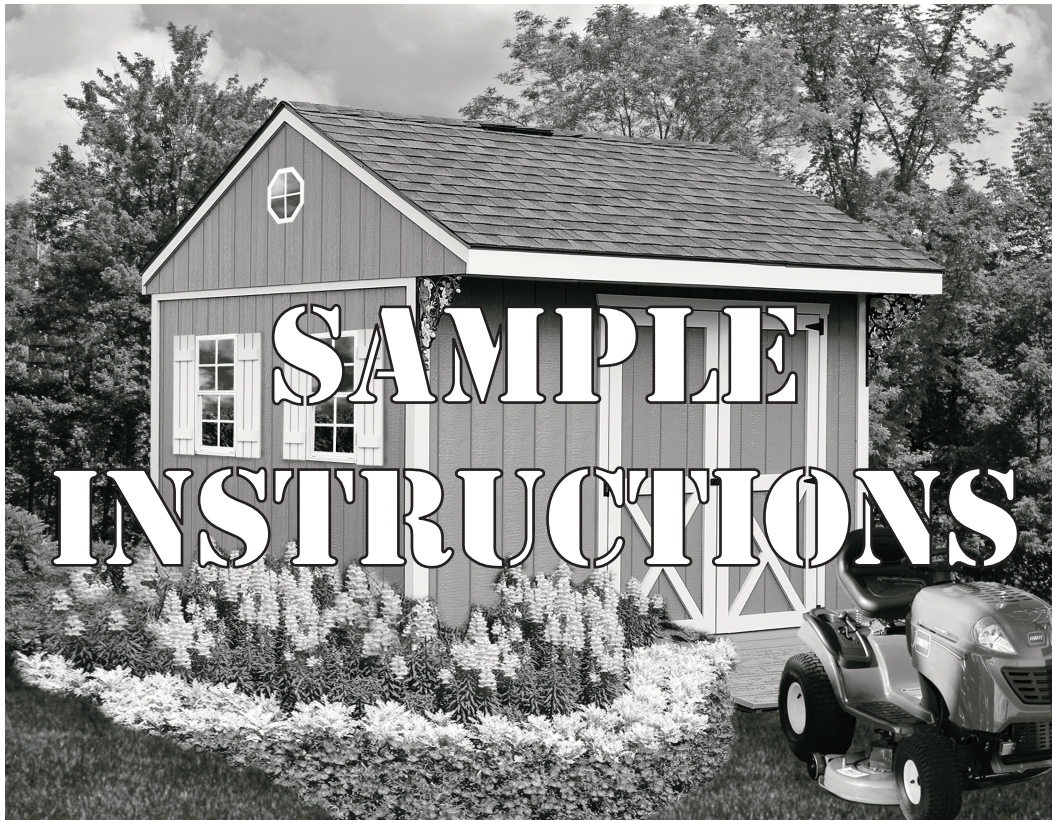
the Northwood   *10'x10'*

Manufactured by Reynolds Building Systems, Inc.

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

READ ME FIRST

Thank you for purchasing our 10'x10' Northwood shed kit. If you are constructing a 14'x10' building use the assembly book packed in the extension kit. **If you received duplicate books, use the one with the latest revision date.**

Our component kit does not include the shingles, giving you a choice of color and quality. The breakdown of the material you need to supply is listed in **Step 15**.

IMPORTANT: Some of the 2x4 framing needed in the construction of the building is used to make the shipping pallet. Unpack the material from the pallet, then carefully disassemble the pallet. The pallet is secured together with square head screws. The bit for the screws is packed in the hardware bag containing the screws for the door hinges.

Stacking the boards, according to size, will make them easier to find when needed. Some boards have colored ends. All the 72" long 2x4s have black ends, stack these boards together. **Do Not** discard any material, *no matter how small*, until your building is complete.

The siding is primed. You will need to apply a finish coat using latex acrylic paint. Paint the bottom edge of the siding, this is very important.

If you encounter any problems while erecting your building, call our customer service department at 800-245-1577. If you run into a problem you cannot resolve, my home phone is 724-588-9146ET. Before you begin construction, be sure to study this assembly manual. Also, obtain a building permit and check all pertinent building code regulations.

Good luck with your project.   Bill Rinella, President

Material Description		10' x 10'	
Northwood Component Kit		1 Pallet	
Exterior Siding	4x8	13	Pcs.
Roof Sheathing 7/16" 4x8		5	Pcs.
Loft Floor 7/16" 4x8		1	Pc.
Optional Roof Shingles		6	Bdl.
Optional Roof Drip Edge		6	Pcs.

To identify which edge we want you to use, we will refer to the edge as either the 'LAP' Edge or the Tongue Edge.


LAP Edge

Tongue Edge
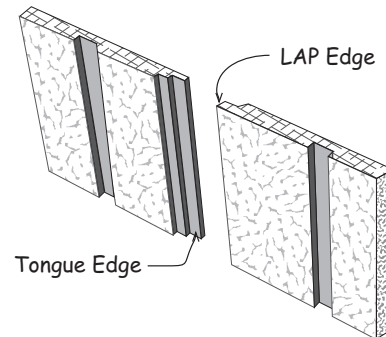
Tool List

❏ Hammer & Phillips Screwdriver
❏ Framing Square & Level
❏ Hand Saw/circular saw

❏ Electric Drill/Screwdriver
❏ Measuring Tape & Caulking Gun
❏ 2-6' Step Ladders

Always wear safety glasses when cutting or nailing!
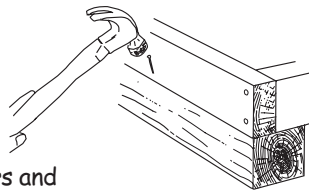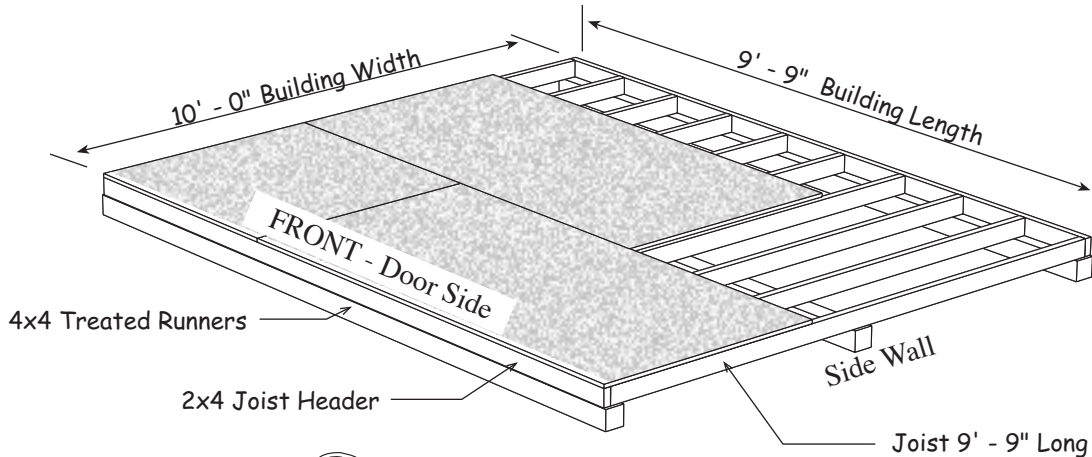
Typical Wood Floor System

Below is a typical wood floor. The construction may have to be changed to meet local codes.

1. Cut joist headers to floor length. See Below.
   Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

Joist Header

| X | | X | | X | | X |

|← 15-1/4" →|← 16" →|← 16" →|
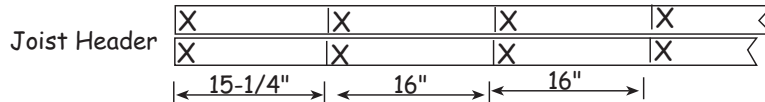
2. Cut 2x4-10' floor joists to 9'-9". *Treated lumber may be thicker than 1-1/2". Take this into account when cutting the length of floor joists. Shorten joist measurements if necessary to obtain 10'-0" building width.*

10' - 0" Building Width

9' - 9" Building Length

FRONT - Door Side

4x4 Treated Runners

Side Wall

2x4 Joist Header

Joist 9' - 9" Long

Nail 2x4 joist headers and floor joist to 4x4.

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.

If installing building on a concrete slab, install sill sealer between concrete and bottom wall plate.

Material Description	10' x 10' shed	
2x4 Joist Headers	2 pcs.	10'
2x4 Floor Joist	9 pcs.	10'
4x4 Treated Runners	3 pcs.	10'
Flooring 5/8" or 3/4"	4 pcs.	4x8
Screw Floor Nails	1 lb.	8d
Galv. Box Nails	1 lb.	16d

Step 2   Assemble Roof Gables

1. Assemble frames using more 2x4 top members and bottom plates.
2. Place (2) two 20-3/4" long gable studs between the top and bottom 2x4s.

20-3/4" Gable Studs

138" Bottom Plate
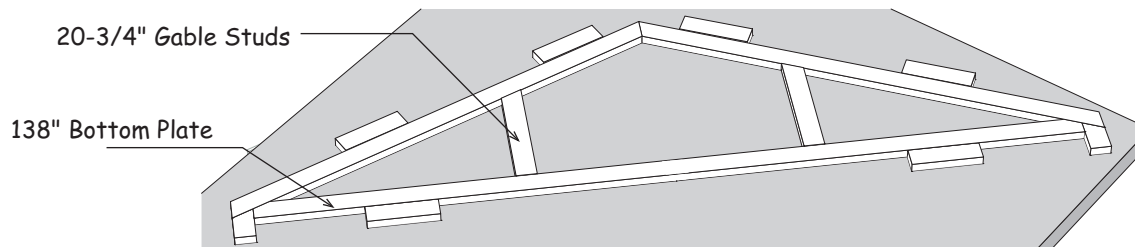
3. Cut a 39" long siding panel from a 4x8 sheet.
4. Cut the remaining piece into (2) two pieces 28" x 48".
5. Install siding on the gable frame. The siding should extend 3/4" below the bottom 2x4. Cut siding flush with the top of the gable frame. Install with 6d galv. nails, spaced 9" apart.

Mark & Cut Siding Flush with Frame

Siding Extends 3/4" Below 2x4

LAP Edge
Flush
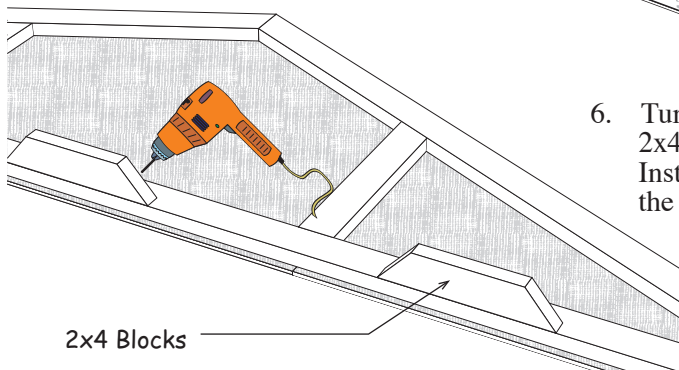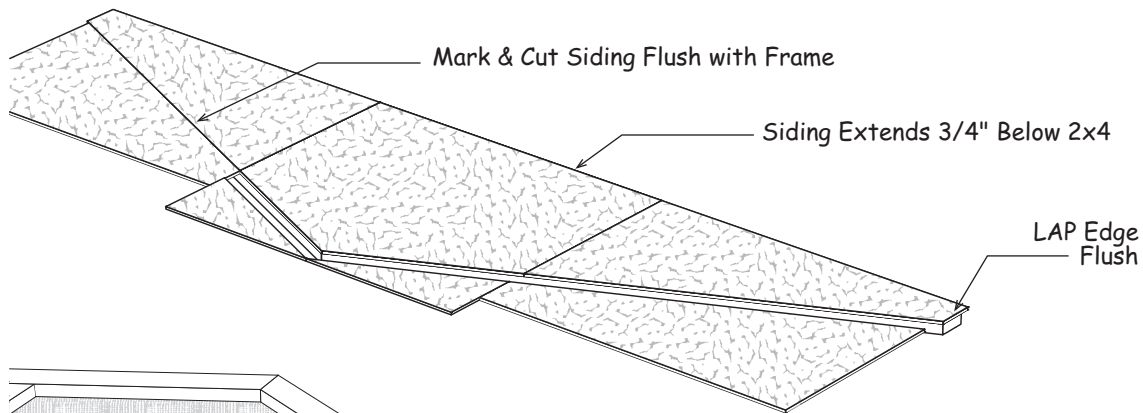
6. Turn gable frame over and install 18" long 2x4 blocks to the bottom of the gable frame. Install blocks 21" from each end and one in the center. Use 2-1/2" long screws.

2x4 Blocks

7. Assemble another gable frame.

Step 3   Assemble Back Wall

1. Locate (2) two 2x4 boards 68-1/2" long and (2) two boards 41-1/2" in length. Position these boards together and indicate with 'X' marks, where the wall studs will be located.

68-1/2" Wall Plate   41-1/2" Wall Plate

| 19-3/4" | 24" | | 23-1/4" |
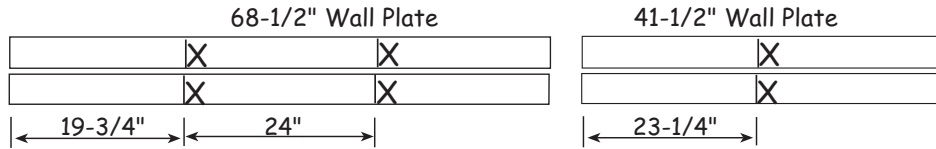
2. Install 72" wall studs [*black ends*] between the top and bottom plates. Assemble the frames with 10d sinkers, two nails per stud. Nail both wall frames together.

3. Install 45" and 72" long 2x4s as tie plates over the top plate. The 2x4 tie plates will extend 3-1/2" beyond the wall frame.

45" Tie Plate

3-1/2"
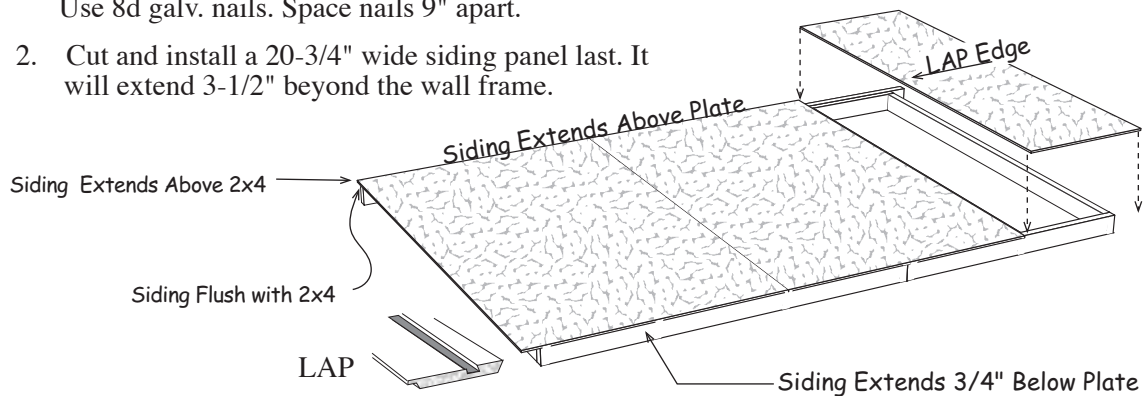
68-1/2" Top Plate

Wall Stud

133"   133"
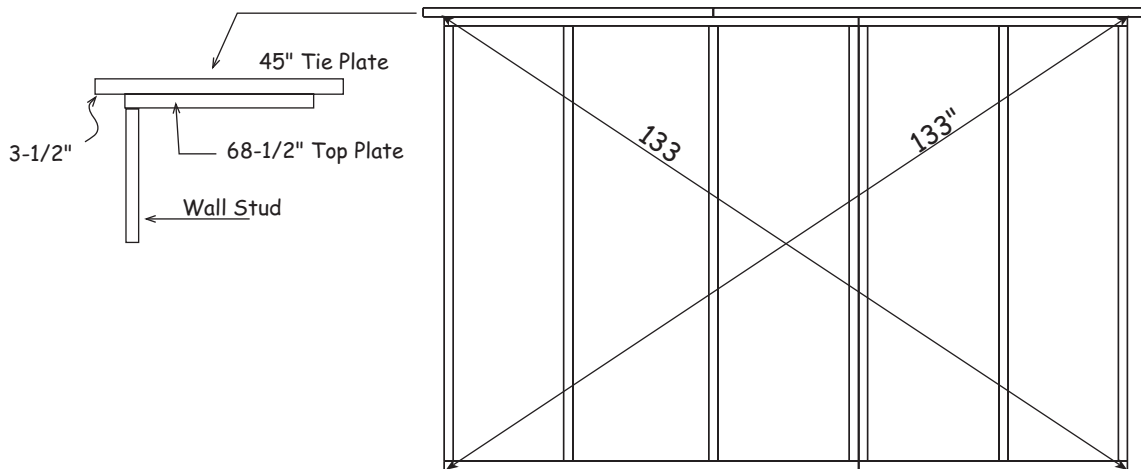
Step 4   Side Back Wall

1. Square wall frame, *see above*. Cut (3) three siding panels to a length of 79". Install the first panel with the 'LAP' edge flush with the 2x4 tie plate. The siding should extend 3/4" below the bottom plate. Tip: Use a 3/4" trim board as a gauge.

    Use 8d galv. nails. Space nails 9" apart.

2. Cut and install a 20-3/4" wide siding panel last. It will extend 3-1/2" beyond the wall frame.

LAP Edge

Siding Extends Above Plate

Siding Extends Above 2x4

Siding Flush with 2x4

LAP

Siding Extends 3/4" Below Plate

Step 10   Install Trusses Continued

3. Place a truss in the front hanger and over the 'X' mark on the back wall. **Important**; the 2x4, *not the wood gusset*, should cover the 'X' mark on the rear 2x4 plate. Check the truss spacing, front and back, to make sure the truss is parallel.

4. Secure the truss to the back wall by screwing through the rear siding into the end of the truss with a 2-1/2" wood screw. You can also toe nail the truss to the 2x4 tie plate with 10d sinkers.

5. Install the rest of the trusses.
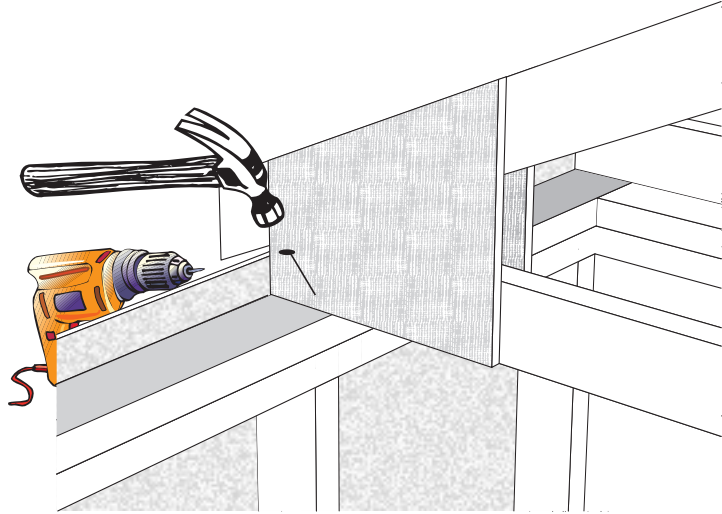
6. Secure the front of the trusses to the H1 hangers with 1-1/2" hanger nails.

7. Cut a 4x8 siding panel and install as soffit under the front overhang. Fasten to the trusses with 6d galv. nails.

Siding/Soffit Panel
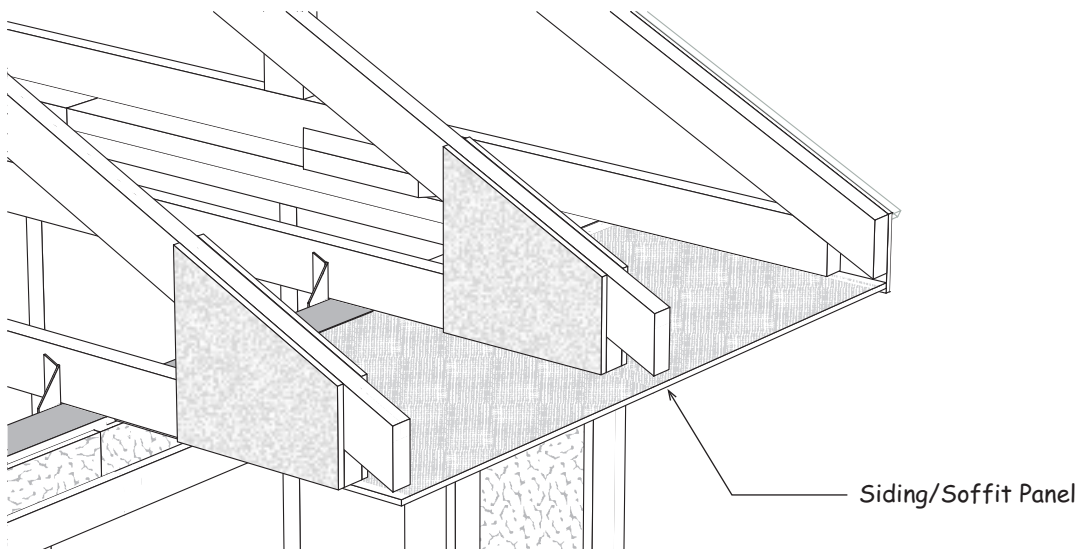
Step 12   Install Roof Sheathing Continued

4.   Cut and install a 50" long 1x6 trim board flush with the gable trim on the left gable.

5.   Install the remaining roof sheathing.

6.   Install 1x6 fascia and roof sheathing at the back of the building.

96"

24"

24" x 48"

48" x 96"

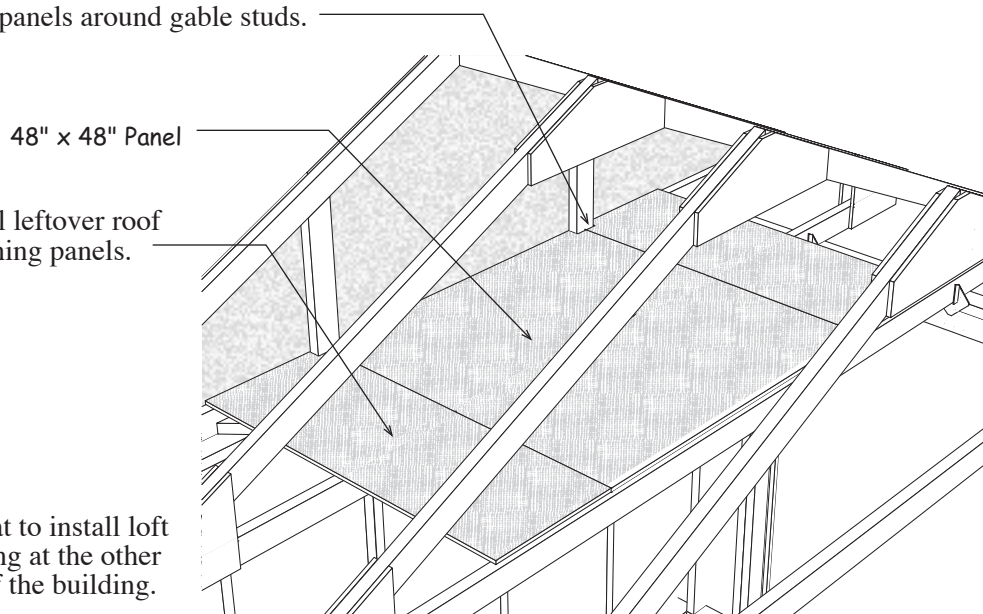Cut 1x6-50"
To Length
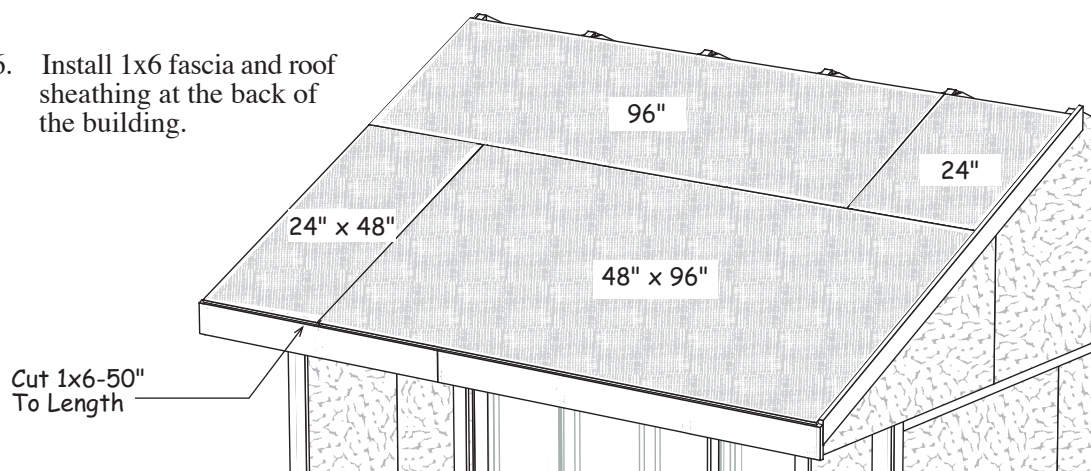
Step 13   Install Loft flooring

1.   Cut a 4x8 OSB panel in half and install in the center of the building. Install these panels over the bottom 2x4 truss member. Secure with 7d sinkers.

Notch panels around gable studs.

48" x 48" Panel

2.   Install leftover roof sheathing panels.

3.   Repeat to install loft flooring at the other end of the building.

Step 16   Apply Siding to Doors

☞ **Tip:**   Paint the siding and the door frames before you attach the siding to the door. It will be easier to paint the door frame before the siding is applied. Seal the bottom edges of the siding and door frames. If the bottom of the doors are in close vicinity to the ground or ramp, they will absorbed moisture and rot.

1. Locate the siding for the doors that was cut in **Step 6**. Cut the siding to the measurement shown below. Using a door frame, trace the shape of the door on the backside of each siding panel. This will serve as a guide for fastener placement.

2. Place door on level surface, face side down. Position siding on frame with the bottom siding edge flush with the bottom of door frame. The top of the door frame will project 3/4" beyond siding. Secure siding to door frame with construction adhesive and 1" screws provided. For additional strength apply construction adhesive between the siding and the door trim.

Width of Frame

71"

back

Metal
Fasteners
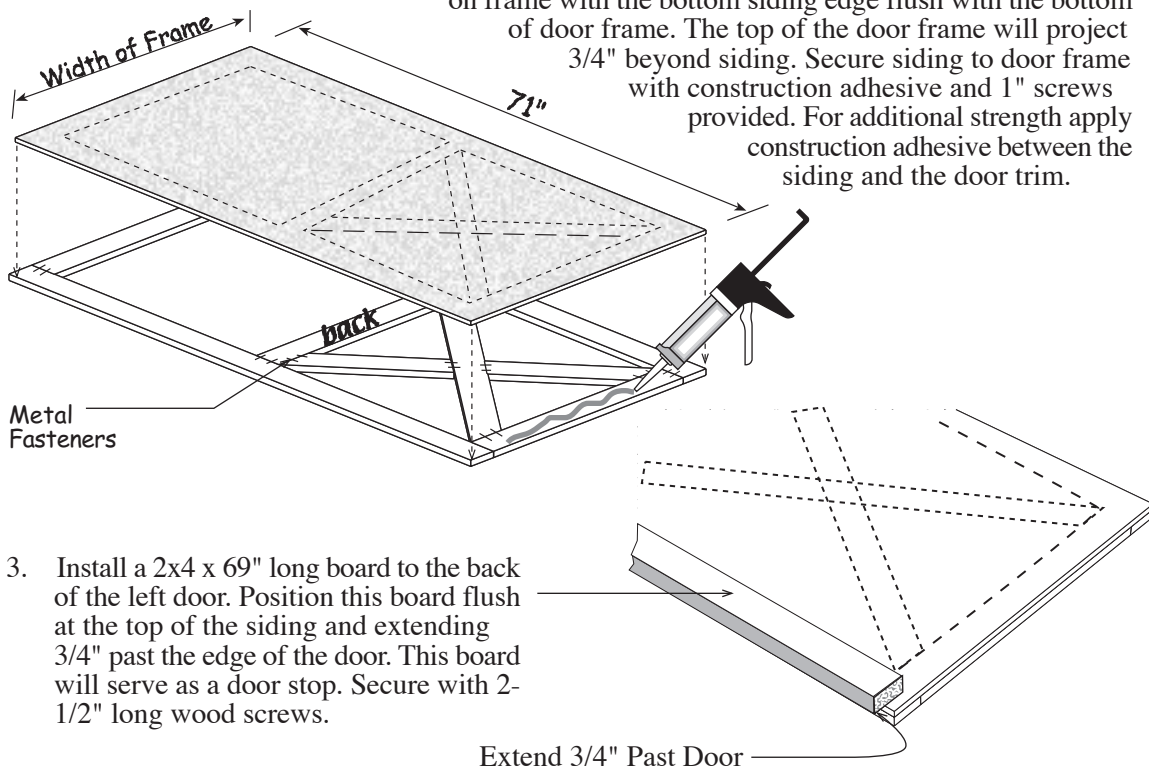
3. Install a 2x4 x 69" long board to the back of the left door. Position this board flush at the top of the siding and extending 3/4" past the edge of the door. This board will serve as a door stop. Secure with 2-1/2" long wood screws.

Extend 3/4" Past Door

Use 1-1/4"
Screws Here
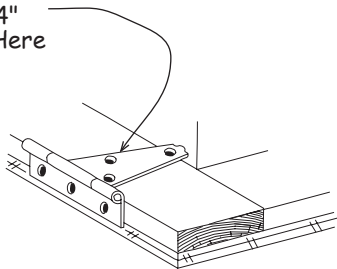
4. Lay doors on level surface with the trim facing up. Install hinges to the left side of the door frame. Use the shorter 1-1/4" screws. The screws have a square head, the bit is packed with the screws. To position the hinge properly, hold the rectangular plate against the frame.

5. Repeat process to install hinges to the right side of the other door.