Sentry Buildings
Assembly Book
Revised November 22, 2017

the Lakewood 12' x 18'

Manufactured by Reynolds Building Systems, Inc.

205 Arlington Drive   Greenville, PA   16125

IMPORTANT INFORMATION ABOUT YOUR SHED KIT

Download the most current instruction book at www.barnkits.com; use the "manuals" link on the menu bar and then select your building kit and size.

Material Delivery: The building materials will be delivered in (2) two shipments. The material for the lower walls and loft floor, and the optional wood floor, will be delivered by a local lumber supplier. This enables us to provide long framing lumber not easily delivered by common carrier trucks. Check to see if you received the correct amount of material before you start construction. Call our office and report any discrepancy. The material for the 2nd floor will be delivered with the kit from our factory. See the back page for the break down of both material deliveries.

Inspect All Windows: Inspect windows for damage. To get a replacement window you must report any damage by calling the number listed above within seven (7) days from date of delivery. The six (6) upper windows are shipped in the smaller pallet.

Assembly Questions: It is very important to assemble our components in the order indicated in the instructions. Read the instructions before starting the assembly of the building. If you have any questions about assembling the kit, call 800-245-1577; business hours (8:00-5:00 ET) Monday thru Friday. After business hours call 724-866-HELP (4357) or send an email to help@barnkits.com.

Multiple Design Options: There a multiple options for constructing the front and end walls, depending on window and door layout. Review each option and decide which is appropriate for your building before beginning construction.

Window/Door Placement: Four (4) dormer windows and two (2) gable windows are included in our kit. The entry door and lower windows are not included. The manual gives general instructions on installing windows and door opening in the walls. You will need to adjust the opening size if you do not use the same window make and size indicated in the manual.

Metal Roof Kit: A pre-cut metal roof kit is available with limited color selection. Go to www.shedkitstore.com for more information and price.

Extra 2x4s were built into the main shipping pallet to be used for wall bracing. Unpack the material from the pallets, then unscrew the top 2x4s. The bit for the screws is packed in the hardware bag.

Tool List

❏ Hammer & Power Screwdriver	❏ Measuring Tape & Caulking Gun
❏ Framing Square & Level	❏ Two 12' Step Ladders
❏ Hand & Circular Saw	❏ Safety Glasses & Harnesses
❏ Router or Jig Saw	❏ Scaffolding - *see note below*

A nail gun is not listed on the tool list. However, because of the amount of nailing required for this building, it would save assembly time. The breakdown of nails needed is listed on the back page. You may be able to receive credit to exchange the nails at your local lumber supplier.

You will need to rent (6) six sections of scaffolding to safely install the roof trusses and sheathing. Use safety harnesses when reaching over the scaffolding. Consider hiring a professional roofer to install the shingles or metal roof. They have the knowledge and equipment to do the job properly.

Read Me First: Important Information on Building The Walls

☞ *Study the information below on assembling the wall frames and applying the siding. This information may not be repeated in the assembly steps.*

Always wear safety glasses when cutting or nailing.

Pre-cut wall studs will measure 92-1/4" to 93" in length, depending on your location. Nail studs to bottom (treated) wall plates with 16d galvanized nails, and use 16d coated sinkes for top plates; (2) two nails on each end.

Square the wall frame before applying siding. Measure the wall diagonally (corner to corner), then measure the opposite corners. These measurements will be the same when the wall is square.

The siding is made in 4x8 sheets with grooves cut into the face, the long edge is beveled so that the siding overlays where they butt. To identify which edge we want you to use, we will refer to the edge as either the 'LAP' Edge or the Tongue Edge. Nail siding with 8d galvanized box nails, spaced 8" apart.

Tongue Edge

LAP Edge

Paint the bottom edges of the siding and keep dirt, grass, mulch, snow away from the lower part of the siding. The siding manufacturer generally recommend 8" or more of clear space.
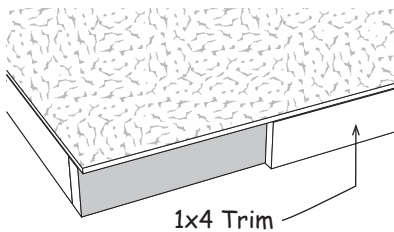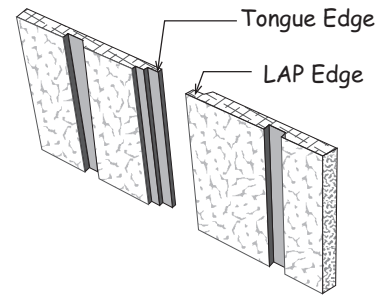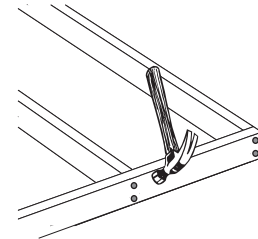
1x4 Trim

Install the siding flush with the bottom plate when installing the building on a concrete slab.

When installing the building on a wood floor the siding should extend 3/4" below the bottom plate to cover the edge of the flooring.

Tip: Use a 1x4 trim board as a gauge to extend siding the proper distance.

Our instructions show assembling the wall frames while the frames are flat on the floor. This makes it easier when squaring the walls and cutting out the window openings. However, most windows for new construction requires the windows to be installed before appling the siding. If you apply siding to the the larger walls with windows installed, the wall will be very heavy. Walls without windows or smaller walls with windows can be moved with four people.

You can precut the siding while the walls are laying flat on the floor and remove the siding before setting the walls.

Another alternative, square the wall frame and install one siding panel to hold the frame square. Install the remaining panels after the wall is set on the floor.

Tip: Insert nails partway between the wood floor sheathing and the 2x4 floor frame. Rest the siding on the nails.

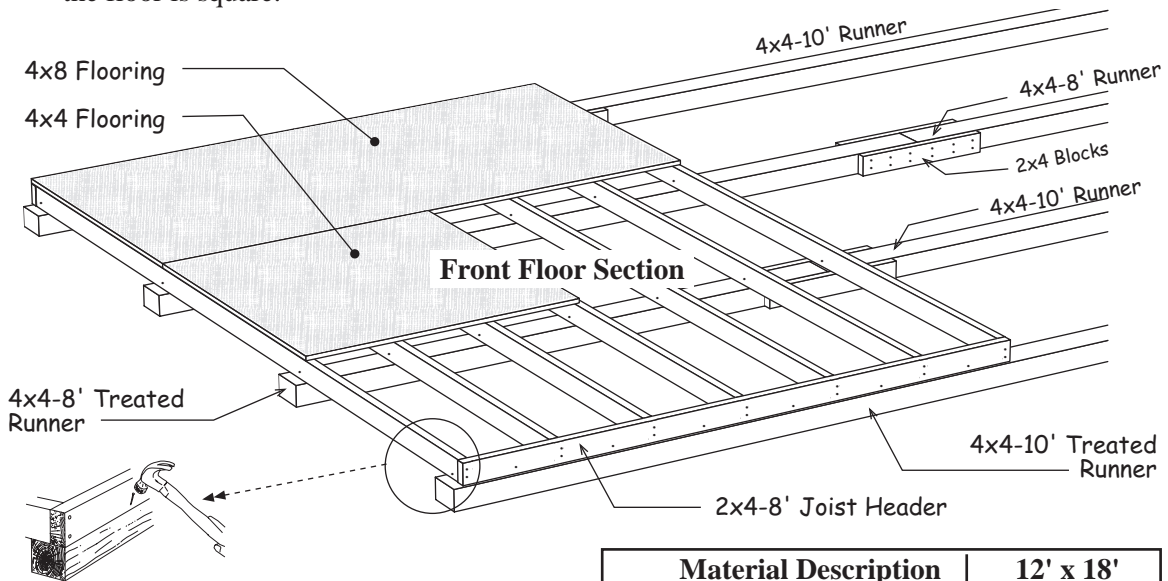# Construction Details for Optional 12'x18' Floor System

Foundation size is 12'-0" x 18'-0". Check local building codes
in your area, the construction may have to change.

1. Cut (16) sixteen 2x4-12' treated boards to 11' 8-7/8". These will be the floor joists.

2. Cut (2) two 2x4-8' treated boards into 2' long blocks to secure the 4x4s where the they butt together. Stagger the 4x4 timbers as shown below.

3. Cut (2) two 2x4-8' treated boards to a length of 8' -0"; they will be used for the joist headers. Layout, from left, for 16" on center joist spacing. 'X' marks where floor joist will be placed.
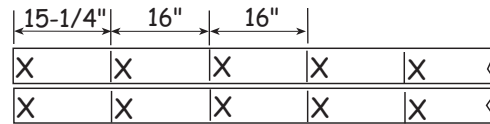
4. Install the floor joists cut above between the 8' joist headers. Secure with 16d galv. deck nails.

5. Place floor assembly over the 4x4s. Square floor assembly by measuring the floor diagonally (corner to corner), then measure the opposite corners. The measurements will be equal when the floor is square.

Front Floor Section

4x8 Flooring
4x4 Flooring
4x4-8' Treated Runner
4x4-10' Runner
4x4-8' Runner
2x4 Blocks
4x4-10' Runner
4x4-10' Treated Runner
2x4-8' Joist Header

## *Assembly Instructions for Rear Floor Section*

6. Cut (2) two 2x4-10' treated boards to a length of 10' -0". Layout for 16" joist spacing; see above.

7. Install floor joists between the joist headers. Square the floor section. Install this section against the section assembled above.

8. Install 4x8 flooring over the 2x4s. Use 8d galvanized spiral floor nails spaced 8" apart.

| Material Description	12' x 18'	
2x4 Treated Joist Headers	2 pcs.	8'
2x4 Treated Blocking	2 pcs.	8'
2x4 Treated Joist Headers	2 pcs.	10'
2x4 Treated Floor Joist	16 pcs.	12'
4x4 Treated Runners	4 pcs.	8'
4x4 Treated Runners	4 pcs.	10'
Flooring 3/4"	7 pcs.	4x8
Galv. Spiral Floor Nails	3 lb.	8d
Galvanized Deck Nails	3 lb.	16d

Step 1   Assemble (2) Two Dormer Trusses

☞ **Building Tip:** To aid in the assembly of the trusses, temporarily tack 1x4 blocks to the floor. There are short 1x4s supplied in the kit for this purpose. This will trap the truss parts and ensures the other truss will be assembled the same.

1. Assemble a dormer truss using (2) two 78-3/4" long 2x6 rafters, (1) one 95-3/4" long 2x4 with angle cuts on the ends, and a pre-built saddle. There should be 140" between the notch in the 2x6s. Hold parts in place with 1x4 blocks. Secure the 95-3/4" long 2x4 with (2) two 2-1/2" deck screws.

Pre-built Saddle

95-1/4" long 2x4

1x4 Blocks

140"
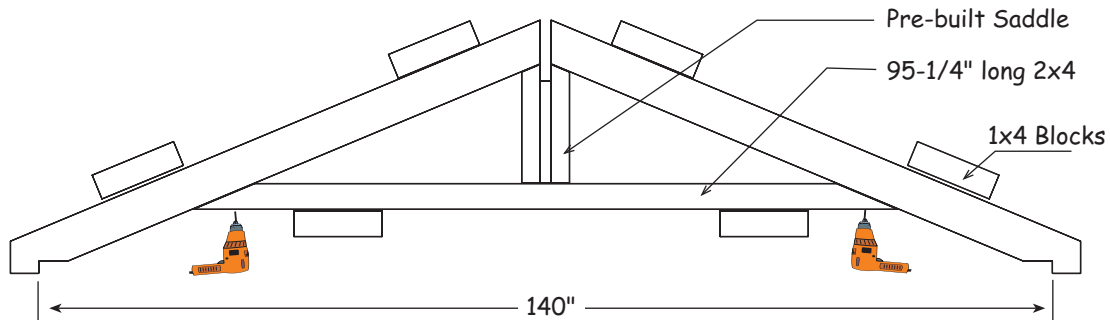
2. Install pre-cut OSB gussets over the dormer truss parts to secure them in place. Apply wood glue between the framing and OSB gussets. Attach gussets with (2) two rows of 6d common nails spaced 6" apart.

3. Remove the siding that covers the slot in the saddle. This will allow the ridge beam to extend through the truss.
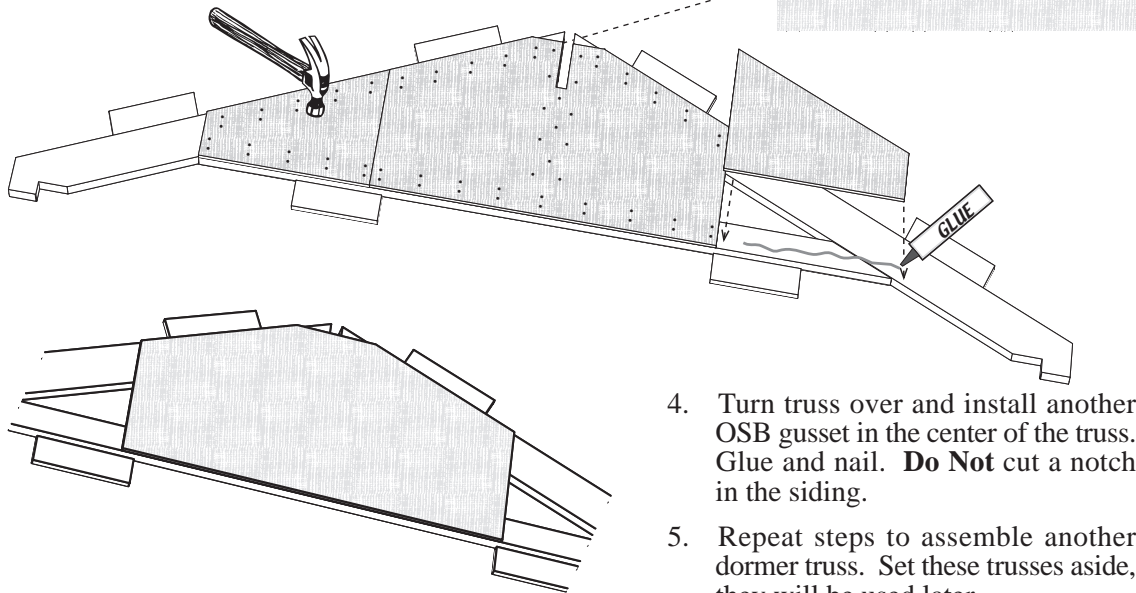
GLUE

4. Turn truss over and install another OSB gusset in the center of the truss. Glue and nail. **Do Not** cut a notch in the siding.

5. Repeat steps to assemble another dormer truss. Set these trusses aside, they will be used later.
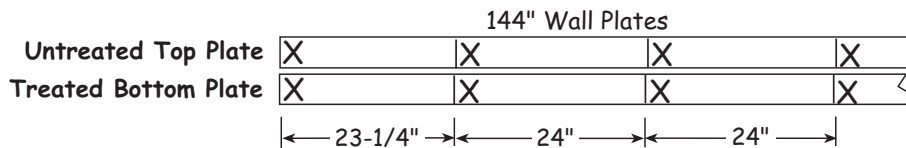
☞ *The length of pre-cut studs will vary from 92-1/4" to 93" depending the what part of the county you are located. The length does not matter in assembling the walls.*

*If you want to install windows in the end walls, review the 'General Window Instructions' on the next page and go to **Step 3** for instructions on building the wall frame.*

IMPORTANT: *Only build (2) two 12' end wall frames.*

Step 2   Assemble 12' End Wall - Without Windows

1. Framing lumber may not be the exact length. If necessary cut (1) one treated 2x4-12' and (1) one untreated 2x4-12' to a length of 12'-0" (or 144"). Position the boards together and indicate with 'X' marks where the wall studs will be located.

144" Wall Plates

Untreated Top Plate X   X   X   X

Treated Bottom Plate X   X   X   X

|← 23-1/4" →|← 24" →|← 24" →|

2. Install (7) seven pre-cut wall studs between the top & bottom plates. Nail studs to wall plates with 16d galvanized nails for the treated bottom plate and 16d coated sinker nails for the untreated top plate; (2) two nails on each stud end.

144" Untreated Wall Plate

144" Treated Plate
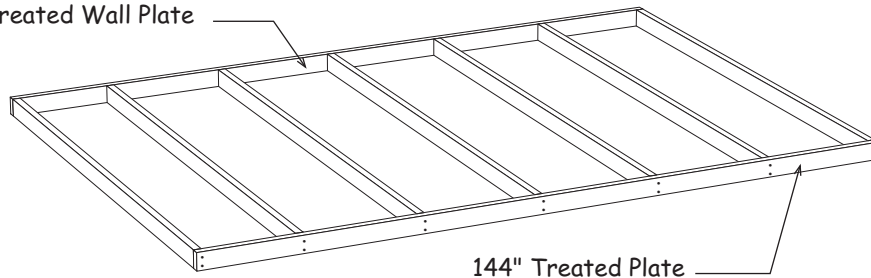
3. Square the wall frame. Install the first siding panel with the 'LAP' edge flush with the end of the wall and nail siding with 8d galvanized box nails spaced 8" apart.

4. Install (2) two more siding panels.

LAP Edge

Install siding flush for concrete slab or 3/4" below plate for wood floor.
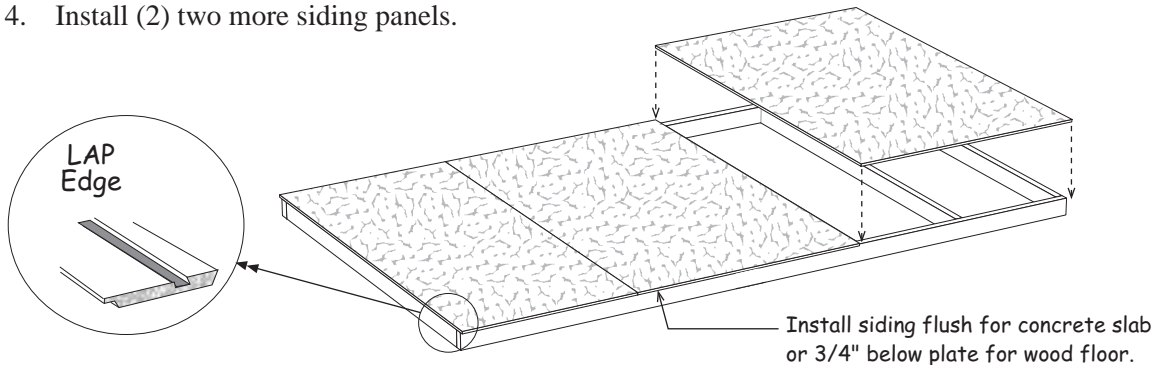
5. Repeat this step if you do not want windows in the second end wall, otherwise review the 'General Window Instructions' and then follow **Step 3** to build a second end wall.

General Window Instructions

☞ *The instructions below shows how to assemble window and/or door headers and frame in window openings. There are extra pre-cut 2x4 wall studs, 2x6 boards and 7/16" OSB fillers provided for this. Additional filler strips can be cut from the 4'x7' OSB cover sheet on the main pallet (you will need a 4'x4' section of the cover sheet for **Step 20**. Sample door and windows opening are shown for reference. Adjust the opening sizes to fit the windows and doors you purchase.*

1. Assemble window or door headers by cutting 2x4 pre-cut wall studs or 2x6 boards . Cut OSB fillers from material supplied in our kit. Headers should be made 3" longer than the window or door rough opening measurements.

2. Assemble a window header using wood glue and 10d coated sinker nails, nailing both sides.

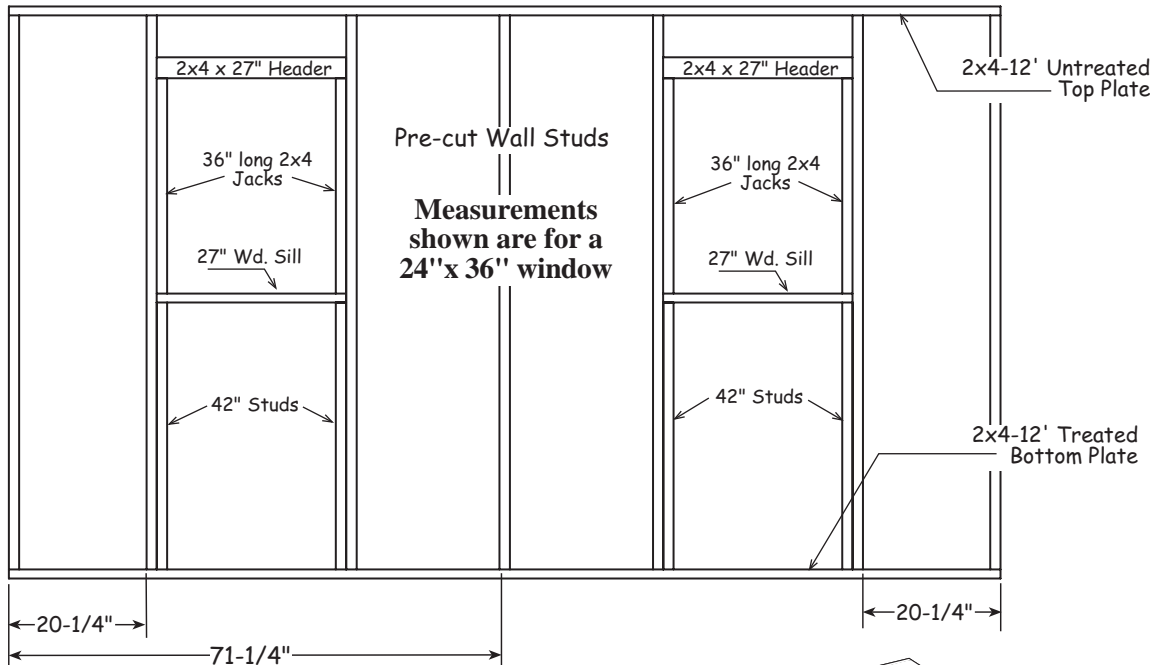3. Cut 2x4 pre-cut wall studs to construct a window frame.
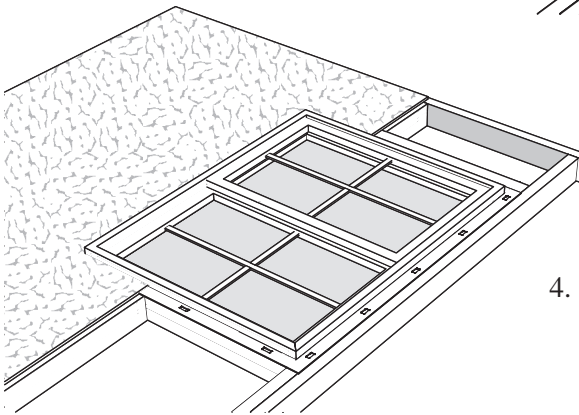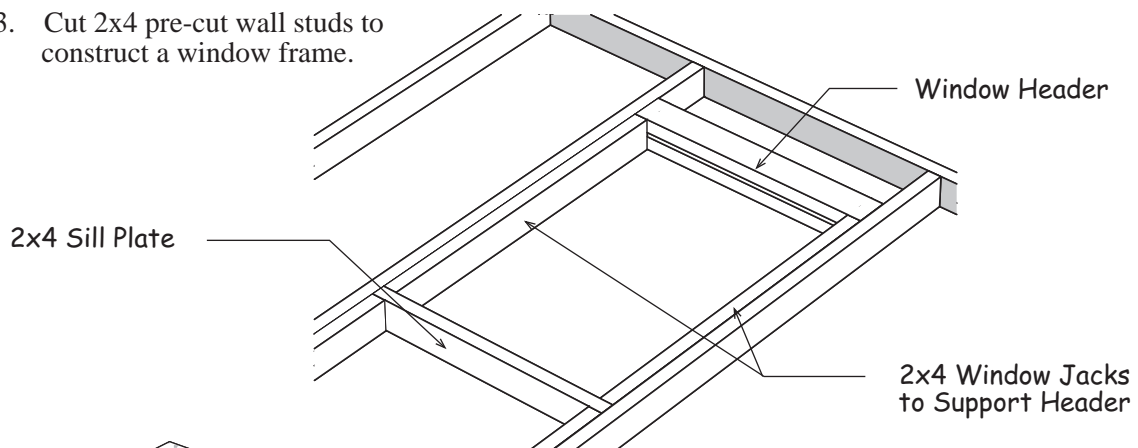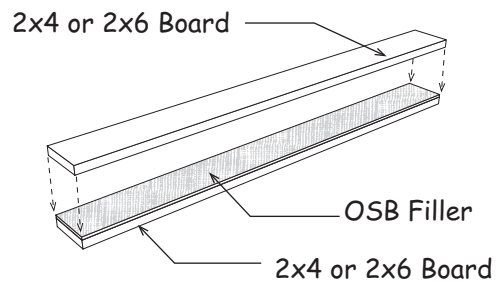
4. Install window following the manufacturer's instructions. Cut exterior siding to fit around the window.

Step 3   Assemble 12' End Wall With Two Windows

☞ *This layout shows assembling an end wall using a 24"x36" Jeld-Wen (V-2500 Series) single hung window. ThermaStar, by Palla, makes a similar window; their window is 24"x38". Adjust the opening size to the window header and framing around the window opening.*

1. Cut (1) one treated 2x4-12' and (1) one untreated 2x4-12' to a length of 144" and install (7) seven 2x4 pre-cut wall studs between the boards where shown, using 16d galvanized nails for the bottom plate and 16d coated sinker nails for the top plate.

2. Assemble 2x4 window headers using pre-cut studs. Headers should be 3" longer than the rough opening width for the window.

3. Cut pre-cut wall studs to frame in the window openings.

4. Assemble the window opening using the above parts and using 10d coated sinker nails.

2x4 x 27" Header

2x4 x 27" Header

2x4-12' Untreated Top Plate

Pre-cut Wall Studs

Measurements shown are for a 24"x 36" window

36" long 2x4 Jacks

36" long 2x4 Jacks

27" Wd. Sill

27" Wd. Sill

42" Studs

42" Studs

2x4-12' Treated Bottom Plate

20-1/4"

71-1/4"

20-1/4"

5. Pre-cut (3) three siding panels. It is recommended to install the windows and siding after the wall frame is installed on the floor.

LAP Edge

Install siding flush for concrete slab or 3/4" below plate for wood floor.
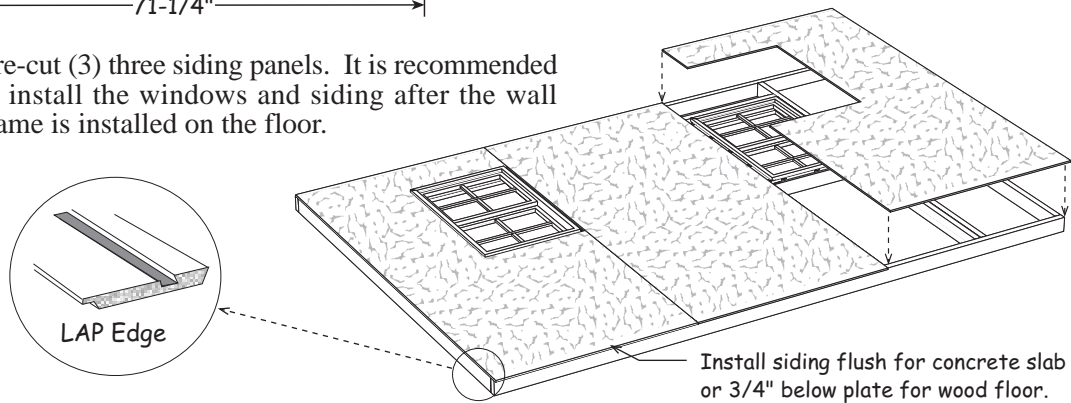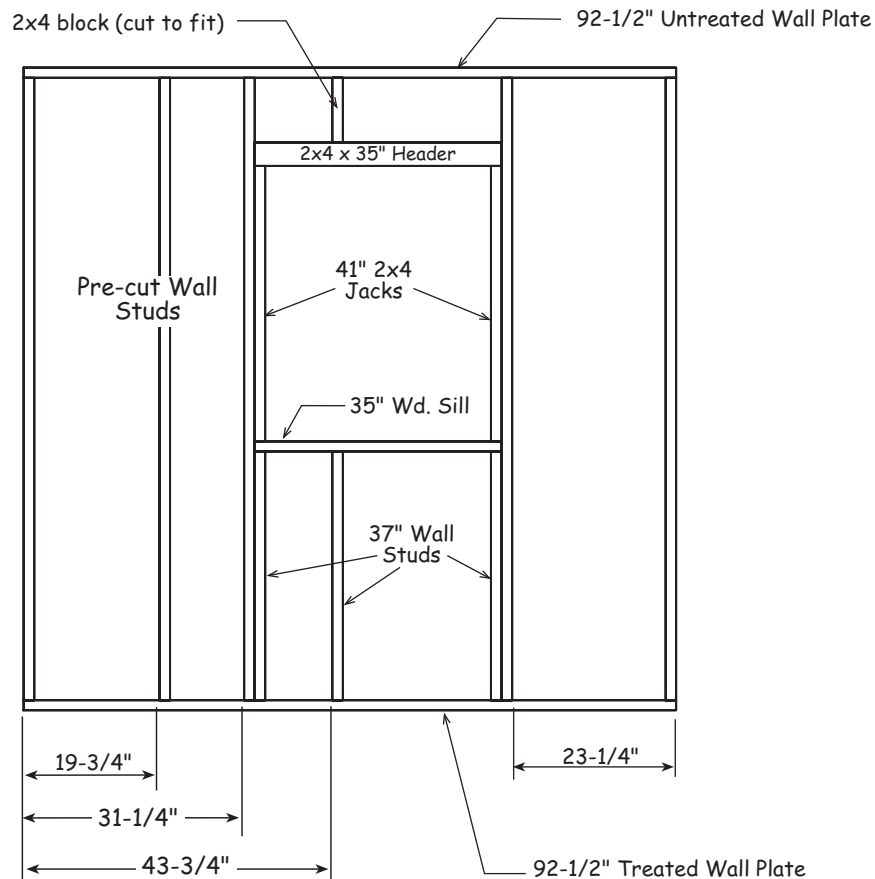
Step 4   Assemble Front Wall Frames

☞ **Steps 4 thru 6** *shows installing a patio door and window; see front cover. An alternative would be to use a walk-in door with a window on either side. For assembly instructions using this layout, go to* **Step 7**.
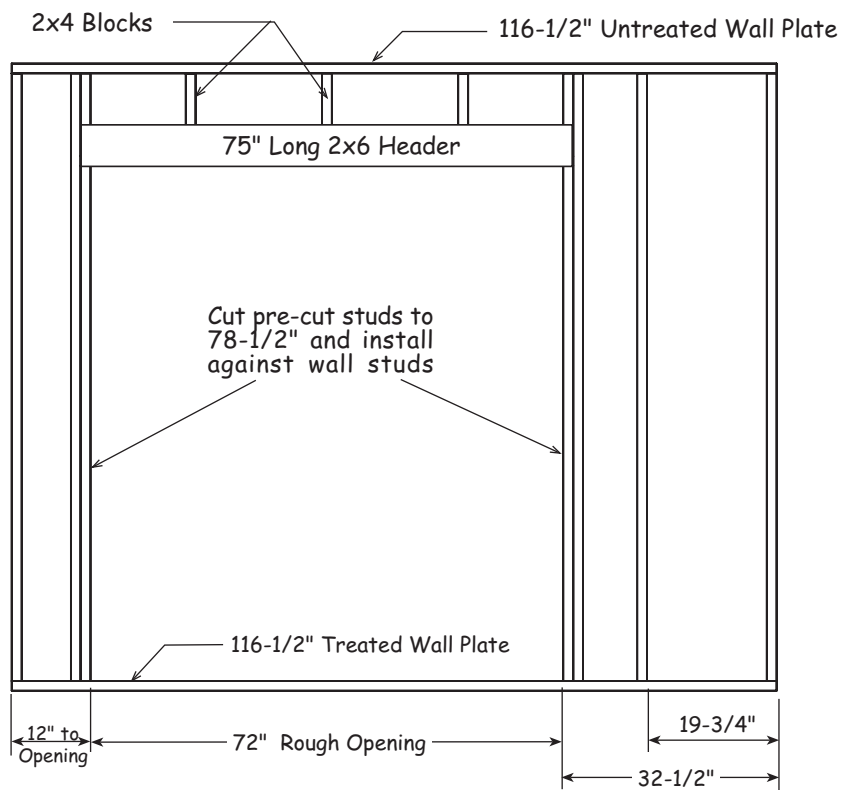
This layout is for a 32" x 41" Jeld-Wen (V-2500 Series) double hung window. Adjust the opening size and corresponding changes to the window header and framing around the window opening for a different window.

1. Cut (1) one treated 2x4-8' and (1) one untreated 2x4-8' to a length of 92-1/2". Install (5) five pre-cut studs between the top and bottom plates where shown below. Use 16d galvanized nails for the bottom plate and 16d coated sinker nails for the top plate.

2. Assemble a 2x4 window header.

3. Cut pre-cut wall studs to frame in the window opening.

4. Assemble the window opening using the above parts. Use 10d coated sinker nails.

Step 4   Assemble Front Wall Frames (continued)

1. Cut (1) one treated 2x4-10' and (1) one untreated 2x4-10' to a length of 116-1/2".

2. Install (5) five pre-cut studs between the top and bottom plates where shown. Use 16d galvanized nails for the bottom plate and 16d coated sinker nails for the top plate.

3. Cut (2) two pre-cut wall studs to a length of 78-1/2" and install on each side of the door opening using 10d coated sinker nails.

4. Cut (2) two 2x6-8' boards to 75". Assemble a door header using these boards and an OSB filler supplied in the kit. Install the header using 10d coated sinkers toenailed to the studs.

5. Cut (5) five 2x4 blocks to length and install between the door header and the top plate using 10d coated sinker nails.
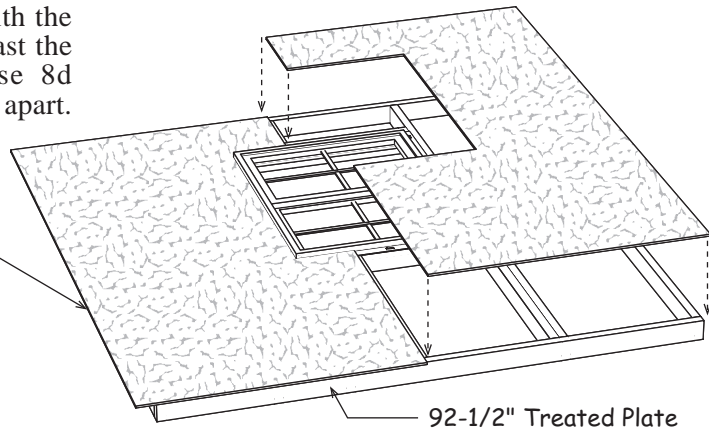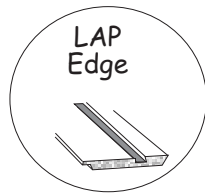
2x4 Blocks — / 116-1/2" Untreated Wall Plate

75" Long 2x6 Header

Cut pre-cut studs to
78-1/2" and install
against wall studs

116-1/2" Treated Wall Plate

12" to Opening

72" Rough Opening

19-3/4"

32-1/2"

Step 5   Apply Siding to Front Wall Frames - Door on Right
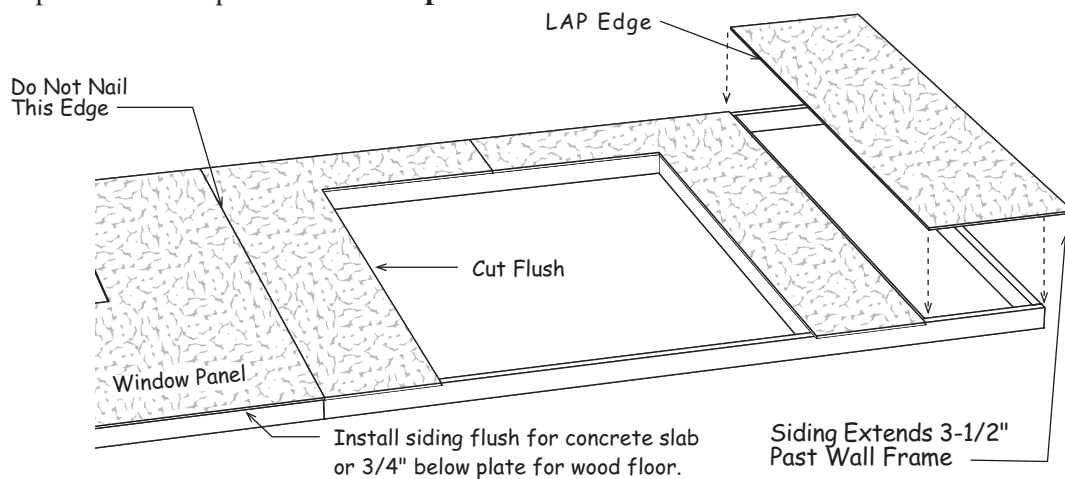
☞ If you want the door opening located to the **right**, *see cover photo*, follow the instructions below. If you want the door opening on the **left**, go to **Step 6**.

1.   Select the wall frame with the window opening and install the window.

2.   Install the first siding panel with the 'LAP' edge extending 3-1/2" past the end of the wall frame.   Use 8d galvanized box nails spaced 8" apart.
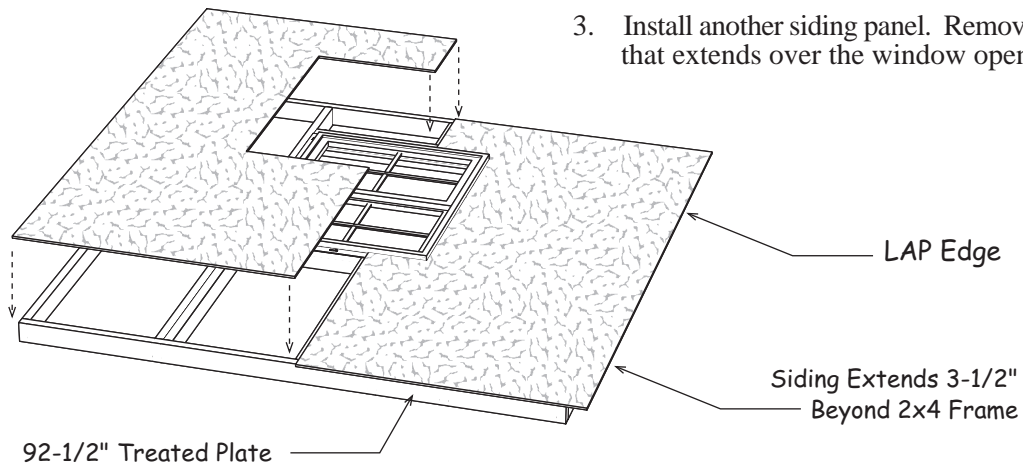
LAP
Edge

3.   Install another siding panel. Remove siding that extends over the window opening.

92-1/2" Treated Plate

4.   Select the wall frame with the door opening and butt it against the above wall frame. **Do Not** fasten the frames together so they can be separated after the siding is applied. This will make setting the walls easier to handle and assures the siding matches where the walls meet.

5.   Install a siding panel with the LAP edge over-lapping the 'Tongue Edge' of the adjoining panel. **Do Not** nail along the edge that joins the left wall panel so the wall can be separated. Remove the siding that extends over the door opening.

6.   Install another siding panel. Cut out the siding that extends over the door opening.

7.   Measuring from the 'LAP Edge', cut a siding panel to a width of 24" and install.

8.   Separate the wall panels. Go to **Step 10**.

LAP Edge

Do Not Nail
This Edge

Cut Flush

Window Panel

Install siding flush for concrete slab
or 3/4" below plate for wood floor.

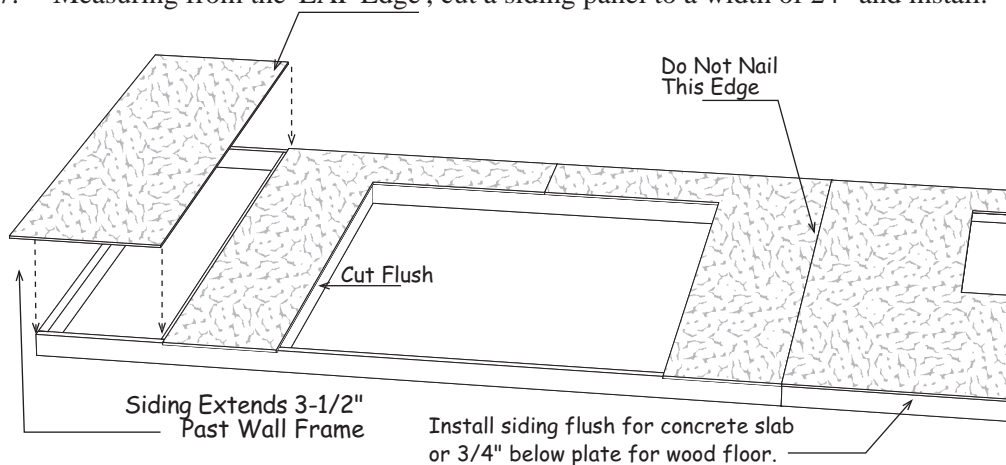Siding Extends 3-1/2"
Past Wall Frame

Step 6   Apply Siding to Front Wall Frames - Door on Left

1. Select the wall frame with the window opening and install the window.

2. Install a siding panel with the 'LAP' edge extending 3-1/2" past the end of the wall frame. Use 8d galvanized box nails spaced 8" apart.

3. Install another siding panel. Remove siding that extends over the window opening.

LAP Edge

Siding Extends 3-1/2"
Beyond 2x4 Frame
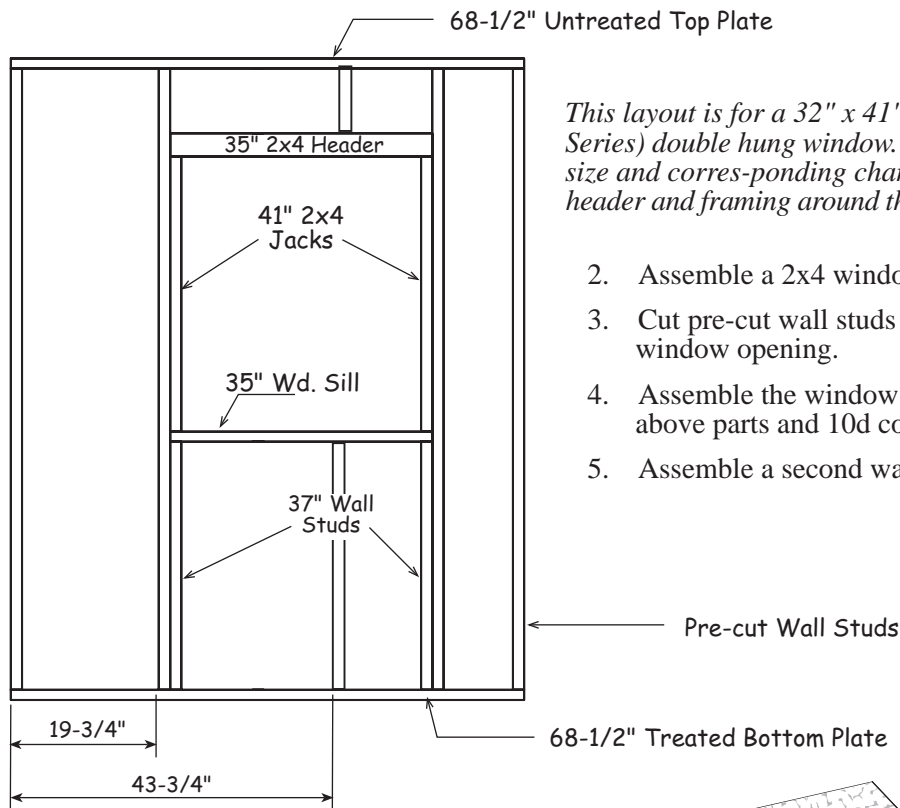
92-1/2" Treated Plate

4. Select the wall frame with the door opening and butt it against the above wall frame. **Do Not** fasten the frames together so they can be separated after the siding is applied. This will make setting the walls easier to handle and assures the siding matches where the walls meet.

5. Install a siding panel with the LAP edge over-lapping the 'Tongue Edge' of the adjoining panel. **Do Not** nail along the edge that joins the left wall panel so the wall can be separated. Remove the siding that extends over the door opening.

6. Install another siding panel. Cut out the siding that extends over the door opening.

7. Measuring from the 'LAP Edge', cut a siding panel to a width of 24" and install.

Do Not Nail
This Edge

Cut Flush

Siding Extends 3-1/2"
Past Wall Frame

Install siding flush for concrete slab
or 3/4" below plate for wood floor.

8. Separate the wall panels. Go to **Step 10**.

Step 7   Assemble Front Wall Frames - Single Window

☞ *These instructions illustrate how to assemble a front wall with a walk-in door in the center and locating a window to the left and right of the door.*

1. Cut (1) one treated 2x4-8' and (1) one untreated 2x4-8' to a length of 68-1/2". Install (4) four pre-cut studs between the top and bottom plates where shown below. Use 16d galvanized nails for the bottom plate and 16d coated sinker nails for the top plate.

68-1/2" Untreated Top Plate

35" 2x4 Header

41" 2x4
Jacks

35" Wd. Sill

37" Wall
Studs

Pre-cut Wall Studs

68-1/2" Treated Bottom Plate

19-3/4"

43-3/4"

This layout is for a 32" x 41" Jeld-Wen (V-2500 Series) double hung window. Adjust the opening size and corres-ponding changes to the window header and framing around the window opening.

2. Assemble a 2x4 window header.

3. Cut pre-cut wall studs to frame in the window opening.

4. Assemble the window opening using the above parts and 10d coated sinker nails.

5. Assemble a second wall frame.

6. Cut a 4x8 siding panel in half lengthways.

7. Select the panel with the 'tongue' edge and install this siding panel with the 'Cut' edge extending 3-1/2" past the end of the wall frame.

8. Install a 4x8 siding panel. Remove siding that extends over the window.

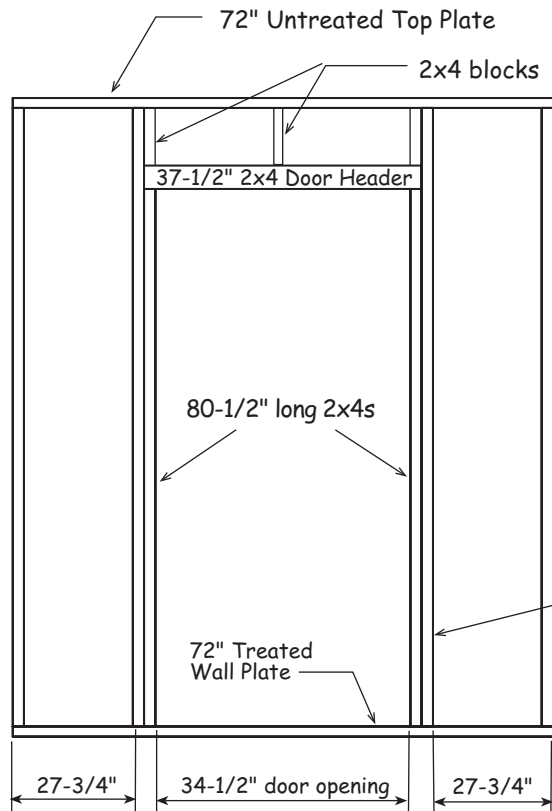☞ Apply siding to only (1) one of the wall panels.

19-3/4" stud opening
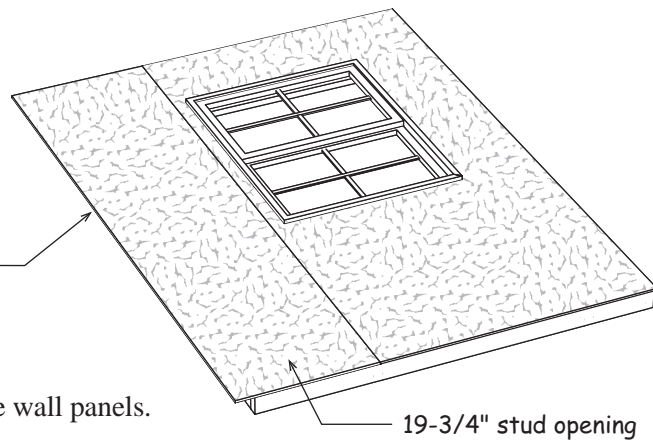
Step 8   Assemble Front Wall Frame with Walk-in Door

☞ *The instructions below shows how to assemble a wall for a 2/8x6/8 door. Adjust the opening size for other types and sizes of entry doors.*

1. Cut (1) one treated 2x4-10' and (1) one untreated 2x4-10' to a length of 72".

2. Install (4) four pre-cut wall studs between the 72" long 2x4s; see spacing below. Use 16d galvanized nails for the bottom plate and 16d coated sinker nails for the top plate.

72" Untreated Top Plate

2x4 blocks

37-1/2" 2x4 Door Header

80-1/2" long 2x4s

Pre-cut Wall Studs

72" Treated
Wall Plate

27-3/4"   34-1/2" door opening   27-3/4"

3. Cut (2) two pre-cut studs to a length of 80-1/2". Install them against the center wall studs using 10d coated sinker nails.

4. Assemble a 2x4 door header using pre-cut studs and a OSB filler suppled in the kit. Install this on top of the 80-1/2" door jacks using 10d coated sinker nails toenailed into the studs.

5. Cut 2x4 blocks to size (from scrap material) and install between the top plate and door header with 10d coated sinkers.
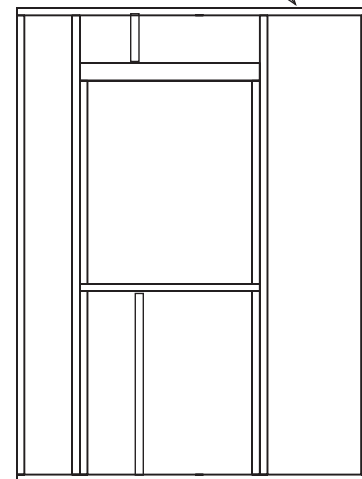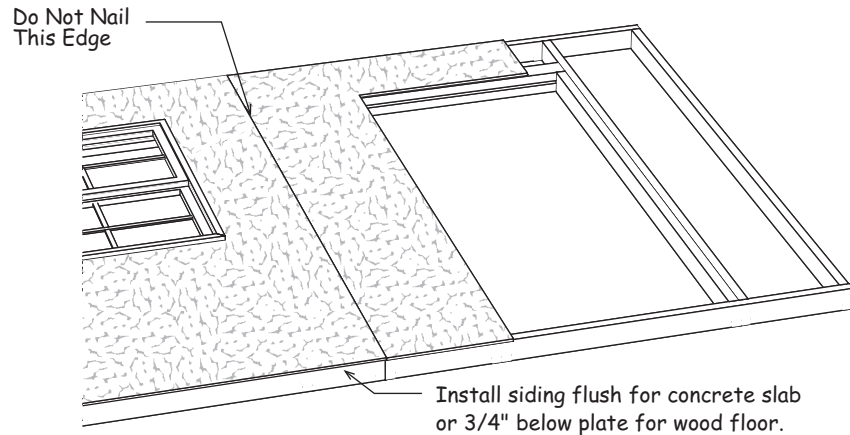
68-1/2" Wall Frame

6. Position a 68-1/2" window wall frame from **Step 7** next to the door frame with the wider stud space to the right end of the wall.

Step 9   Apply Siding to Front Wall Frames - Walk-in Door

1. Butt the 68-1/2" window panel with siding from **Step 7** against the left side of the 72" door panel from **Step 8**. **Do Not** fasten the frames together so they can be separated after the siding is applied.

2. Install a siding panel with the LAP edge over-lapping the 'Tongue Edge' of the adjoining panel using 8d galvanized box nails. **Do Not** nail along the edge that joins the left wall panel so the wall can be separated. Remove the siding that extends over the door opening.
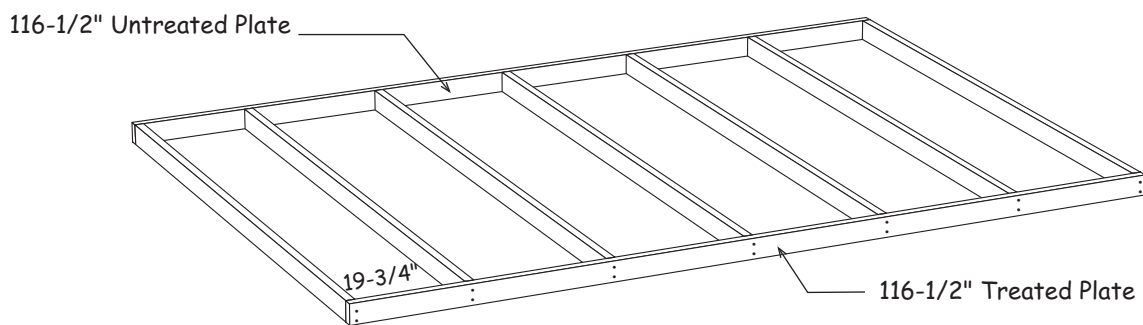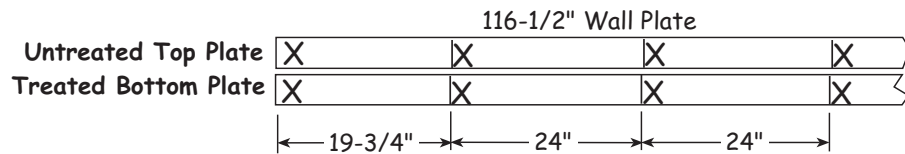
Do Not Nail
This Edge

Install siding flush for concrete slab
or 3/4" below plate for wood floor.

3. Butt the unsided 68-1/2" wall frame against the frame with the door opeing. **Do Not** nails the frames together so that they can be separated.

4. Pre-fit a siding panel with the LAP edge over-lapping the 'Tongue Edge' of the adjoining panel. **Do Not** nail the siding yet so the wall can be separated. Remove siding that extends over the door and window opening.

5. Pre-fit another siding panel. Cut out the siding that extends over the window opening. **Do Not** nail the siding yet.

6. Separate the wall panels. Go to **Step 10**.
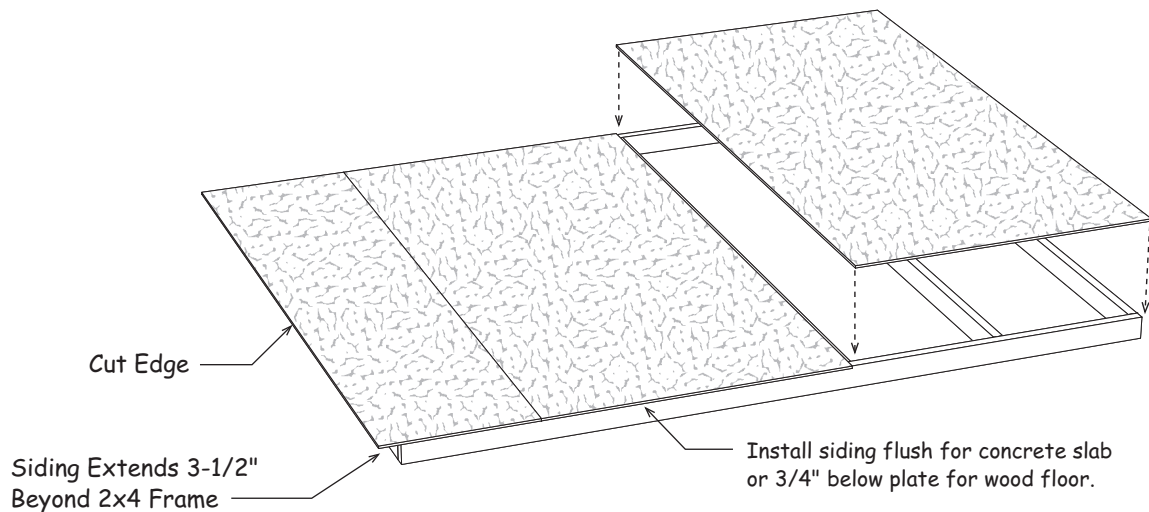
Siding Extends 3-1/2"
Past Wall Frame
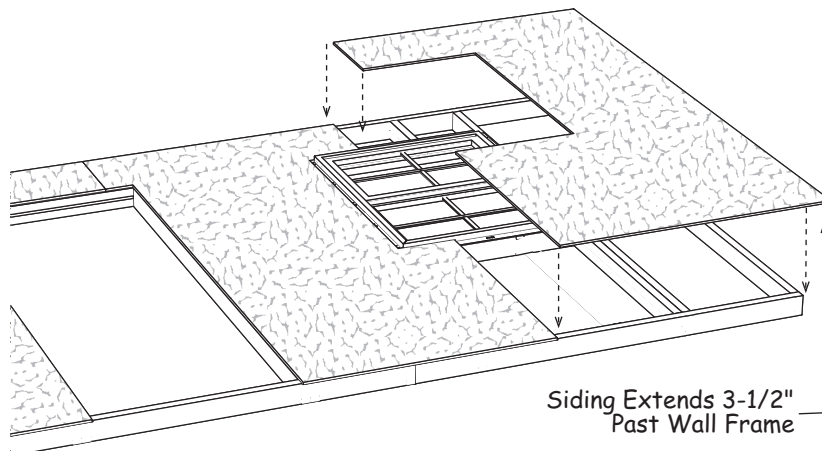
Step 10   Assemble 116-1/2" Long Back Wall

1. Cut (1) one treated 2x4-10' and (1) one untreated 2x4-10' to a length of 116-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.

116-1/2" Wall Plate

Untreated Top Plate |X   X   X   X

Treated Bottom Plate |X   X   X   X

|←— 19-3/4" —→|←— 24" —→|←— 24" —→|

116-1/2" Untreated Plate

19-3/4"

116-1/2" Treated Plate

2. Install (7) seven pre-cut wall studs between the top and bottom plates. Use 16d galvanized nails for the treated bottom plate and 16d coated sinker nails for the top plate.

3. Locate the cut siding panel from Step 5 (or Step 7) and install the siding panel with the 'Cut Edge' extending 3-1/2" beyond the end of the wall.

4. Install (2) two more full siding panels. Install siding using 8d galvanized box nails spaced 8" apart.

Cut Edge

Siding Extends 3-1/2"
Beyond 2x4 Frame

Install siding flush for concrete slab
or 3/4" below plate for wood floor.

## Step 11   Assemble 92-1/2" Long Back Wall

1.   Cut (1) one treated 2x4-10' and (1) one untreated 2x4-10' to a length of 92-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.

92-1/2" Wall Plate

Untreated Top Plate |X |X |X |X
Treated Bottom Plate |X |X |X |X

|← 23-1/4" →|← 24" →|← 24" →|
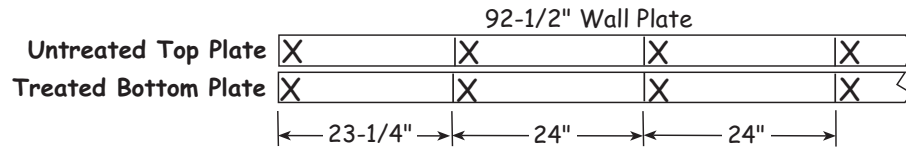
2.   Install pre-cut wall studs between the top and bottom plates over the 'X' marks. Use 16d galvanized nails for the treated bottom plate and 16d coated sinker nails for the top plate.

92-1/2" Untreated Plate

23-1/4"

92-1/2" Treated Plate
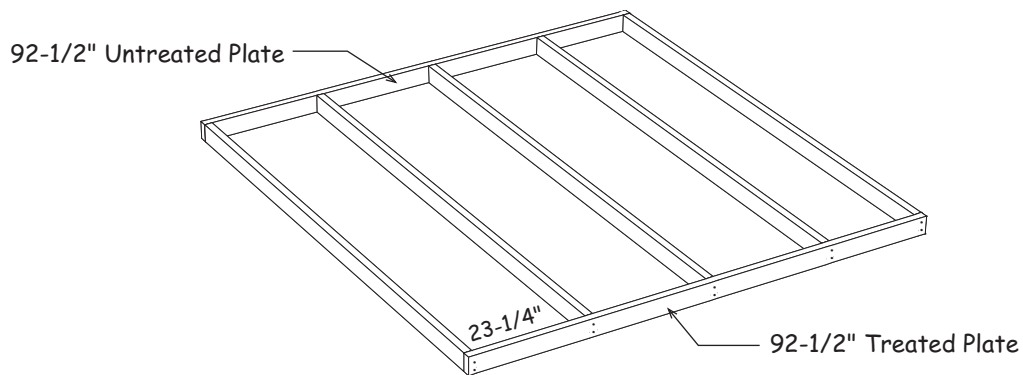
3.   Butt the above wall frame against the wall panel from Step 10. **Do Not** fasten the frames together so that they can be separated later.

4.   Install a siding panel using 8d galvanized box nails spaced 8" apart. **Do Not** nail the long edge that overlaps the siding on the adjoining panels so they can be separated. Install (1) one more siding panel. The last panel will extend 3-1/2" past the wall frame.

5.   Separate the wall panels.

Do Not Nail Edge

23-1/4"

92-1/2"
Wall Panel

116-1/2" Wall Panel
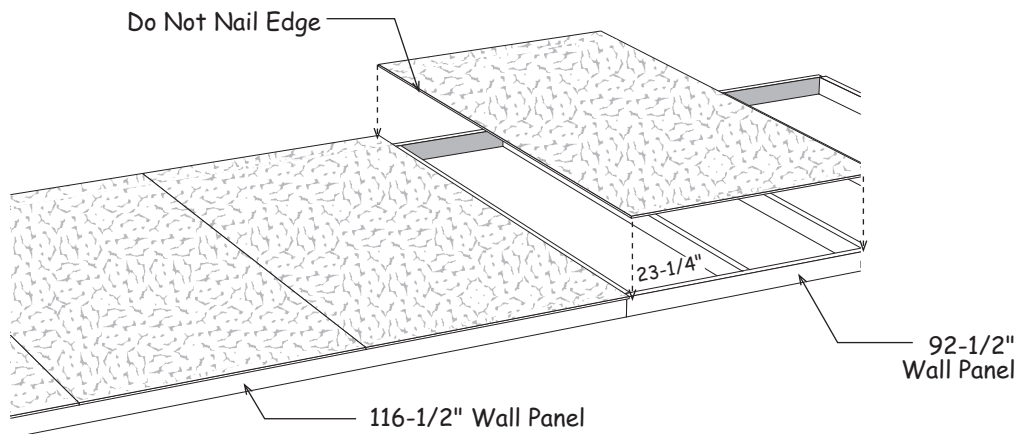
Step 12   Set Wall Panels

1. Set one of the end wall panels and the longer back wall panel. Secure the wall panels together at the corners using (5) five 10d sinkers. Nail wall panels to the floor using 16d galvanized nails in every stud opening.

2. Install the other back wall panel. Nail back wall panels together using 10d sinkers. Nail where the siding overlaps using 8d galvanized box nails.

Nail Along Siding Edge
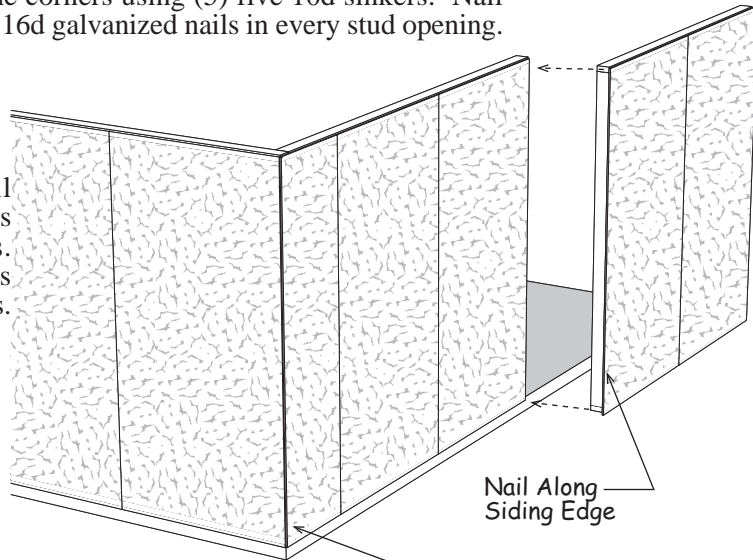
3. Set the other end wall and front wall panels.

Nail Siding to End Wall Stud

4. Nail along the siding edge where the side wall panels overlap.

Use 2x4s from pallet to hold the wall straight.
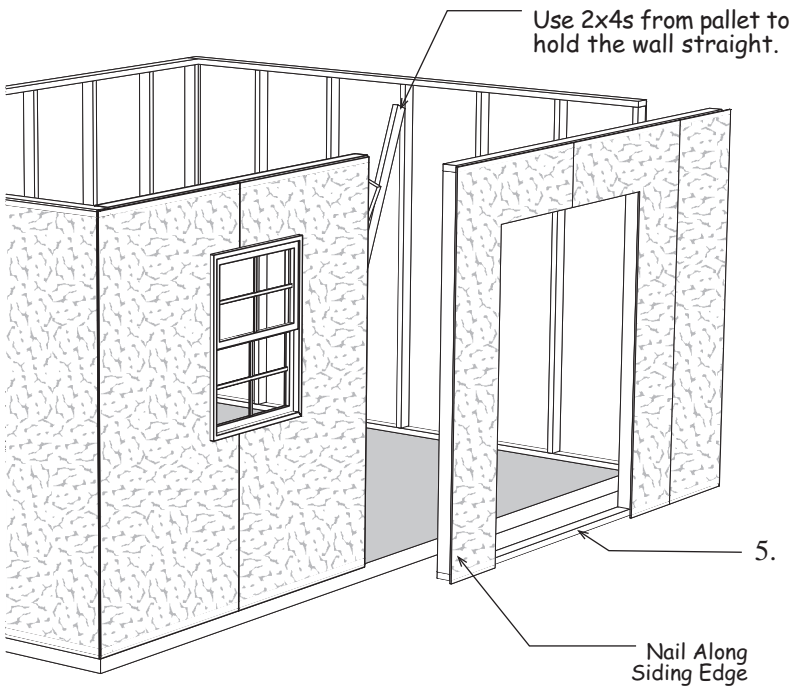
5. Cut and remove the bottom 2x4 from the door opening after panel is installed.

Nail Along Siding Edge

Step 13   Install 2x4 Tie Plates

1. Install a 2x4-12' tie plate on back wall using 10d coated sinker nails, double row, spaced 18" apart. Cut a 2x4-12' in half and install a 6' long 2x4 next to the one just installed.

2. Cut the 6' long 2x4 in half. Install the 3' long 2x4s and a 12' long 2x4 on the front wall.

3. Cut a 12' long 2x4 to 137" and install on the end wall. Repeat on the opposite end wall.

2x4-6' Tie Plate

2x4-3' Tie Plate

2x4-12' Tie Plate

2x4-12' Tie Plate

137"
Tie Plate

2x4-3' Tie Plate
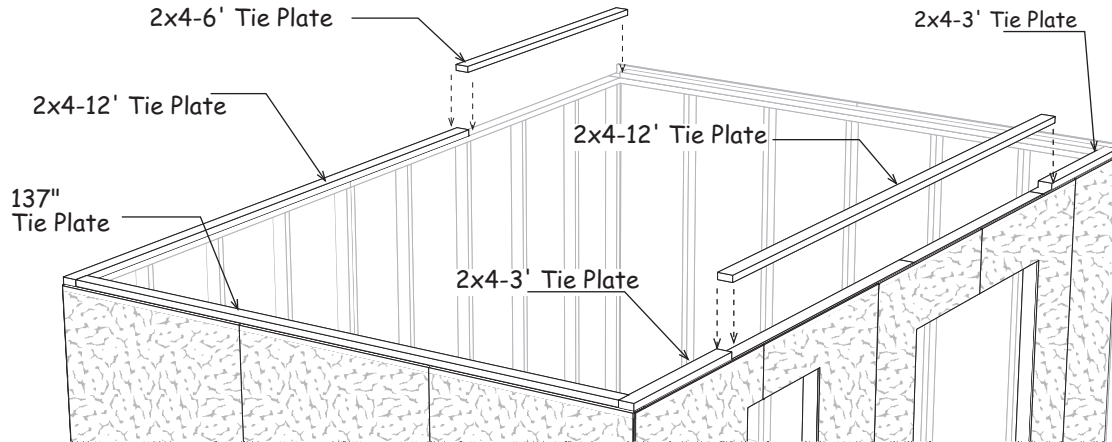
Step 14   Loft Floor Layout

The diagram below show the loft sheathing layout with the open area position on the right. Draw a line to mark the center of the loft floor.

12' (144")

4' x 6'

4' x 4'

2' x 6'

2' x 4'

2' x 4'

2' x 4'

4' x 8'

4' x 6'

4' x 4'

2' x 6'

2' x 4'
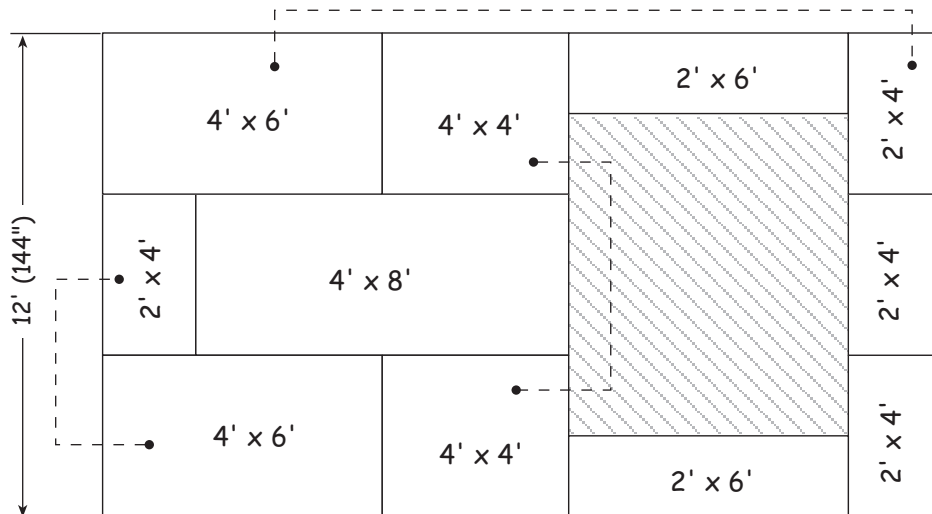
← 108" To Center of Floor →

☞ *For reference later, draw a line in the center of the floor.*

## Step 15   Install 2x6 Joist Headers & Floor Joist

☞ *Material is provided for a 12'x10' loft over one end of the building. The instructions below will place the loft on the left end, see **Step 14** for diagram. If you want the loft on the right end start installing floor joist on the right end of the building.*

1. Cut (2) two 2x6-10' boards to a length of 92-1/2". Install these 2x6 boards on the inside of the front and back walls on the left end of the building. Install flush with the 2x4 tie plate. Secure with 16d coated sinkers nailing to the tie plate, the wall plate, and wall studs, as shown below. Cut (2) two 2x6-10' boards to a length of 116-1/2" and install on the right end of the building.

2. Cut (9) nine 2x6-12' boards to a length of 134", and install one board against the end wall.

3. Mark the joist header where the floor joist will be installed. The first floor joist will be 23-1/4" from the outside edge of the 2x4 wall plate. Mark the header for (5) five more floor joist spaced 16" apart. Repeat to mark the joist spacing on the front wall header board. **Important:** On the front wall, make sure you put the 'X' on the left side of the line.


134" 2x6 on End Wall — 23-1/4" — 16" — 16" — 2x4 Tie Plate — 92-1/2" Joist Header — Back Wall
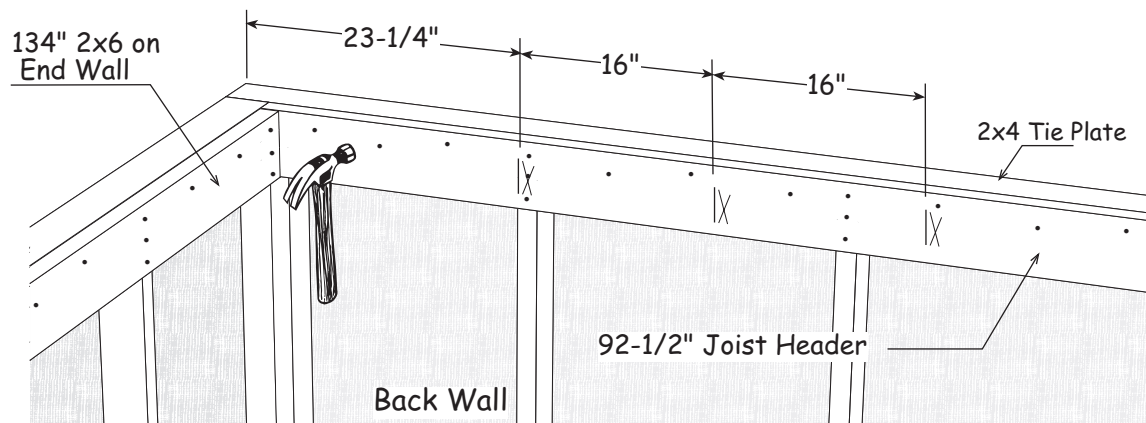
4. Install (6) six 2x6 floor joist, *using metal joist hangers*, over the 'X' marks. Install the joist hangers with 10d coated sinker nails.
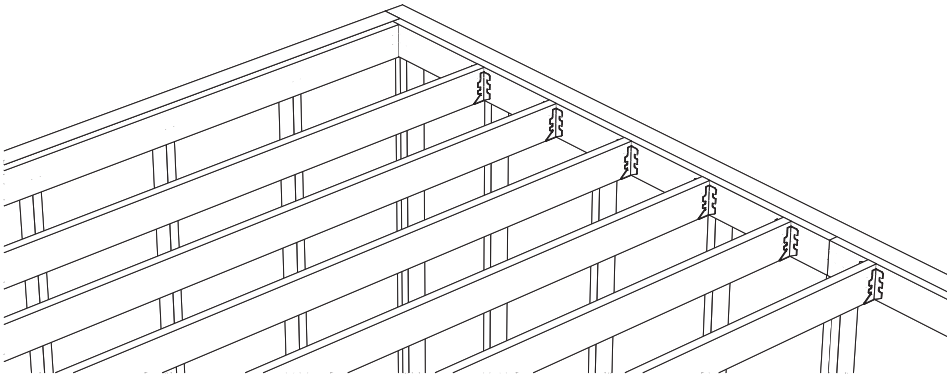
Step 16   Install Double 2x6 Joists

1.   Nail the last (2) two 134" long 2x6 boards together with 10d coated sinker nails, double row spaced 16" apart. Install this double floor joist using a double joist hanger; see drawing below.
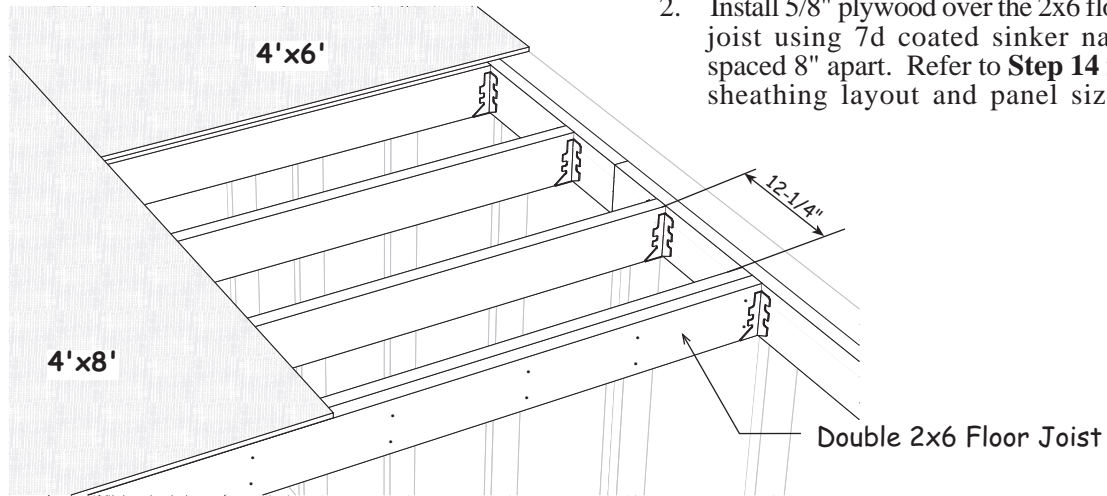
2.   Install 5/8" plywood over the 2x6 floor joist using 7d coated sinker nails spaced 8" apart. Refer to **Step 14** for sheathing layout and panel sizes.

4'x6'

4'x8'

12-1/4"

Double 2x6 Floor Joist

Step 17   Install Loft Shelf on 12' End Wall

1.   Cut (2) two 2x6-12' floor joist to a length of 134". Nail (1) one 2x6 across the end wall using 16d coated sinker nails.

2.   Using (2) two metal joist hangers, install the other floor joist with a 17-1/2" space between the 2x6s. Cut (5) five 17-1/2" long 2x4 blocks, *from wall bracing or pallet material or leftover cut-offs*, and install the blocks between these 2x6 floor joist. Use 10d coated sinkers to toenail blocks into the 2x6s.

3   Install a 2' x 4' flooring cutoff from the larger floor section over this shelf ledge using 7d coated sinker nails.

4.   Cut a 2' wide panel from the end of a 4x8 sheet and install next.

5.   Locate a 2' x 4' plywood panel supplied in the kit and install this panel to finish.

17-1/2" Blocks

2'x4'

2'x4' Cutoff

2X6 FLOOR JOIST
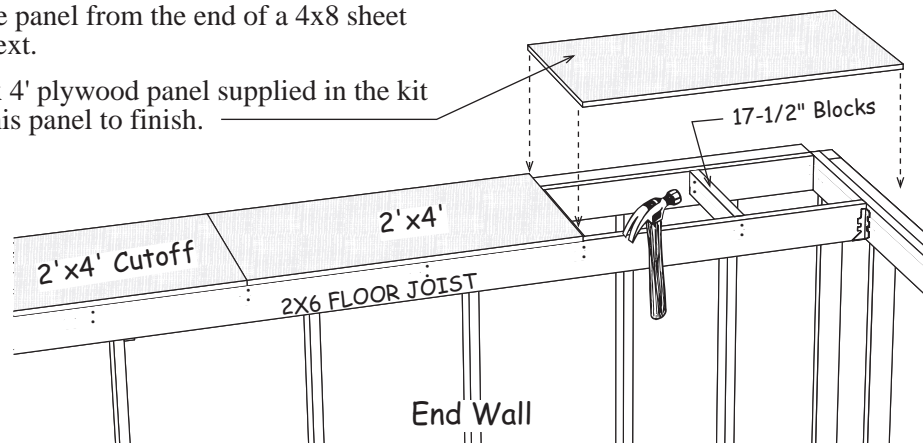
End Wall

Step 18   Install Loft Shelf on 12' Back Wall

1. Cut a 2x6-12' in half. Install one of the 6' boards between the loft floor and the ledge on the end wall. Cut and install (2) two 17-1/2" long 2x4 blocks between this 2x6 and joist header.

2. Select the 4'x6' sheathing panel from **Step 17**. Cut this panel in half creating (2) two 2'x6' panels. Install one over the loft shelf using 7d coated sinkers.
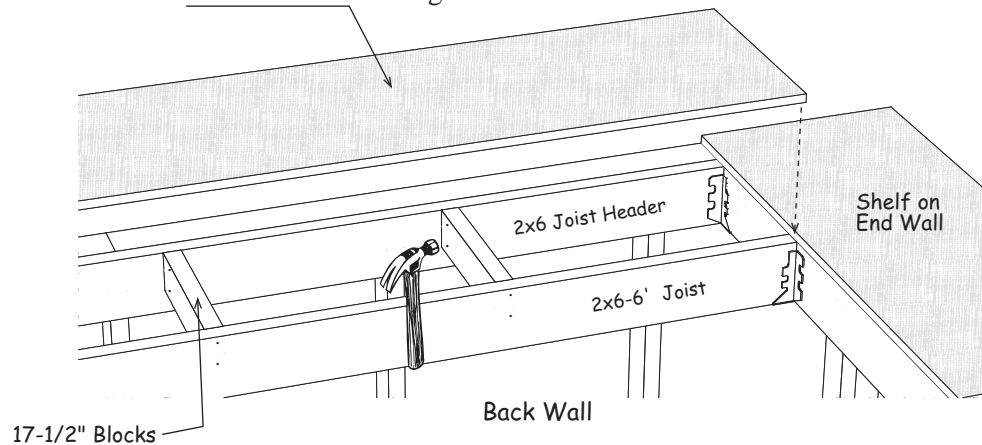

3. Install another ledge on the front of the building.

Step 19   Install End Wall Trim

<u>IMPORTANT: End Wall Trim Must Be Installed Before Installing Roof Gables!</u>
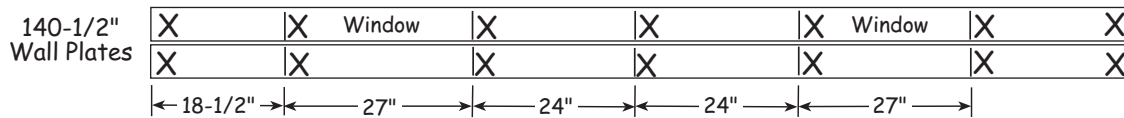
1. Tack 2-1/2" x 48-3/4" filler strips on both 12' end walls, flush with the loft flooring using 6d common nails spaced 24" apart.

2. Install (2) two 72" long 1x4 white pine trim boards flush with the top of the loft flooring. The trim will not be flush with the siding on the front and back walls. Use 8d galvanized box nails, double row, spaced 16" apart nails.

3. Cut 96" long 1x4 trim boards to length and install as corner trim to the end walls. Install trim flush with the siding on the front and back walls. Use 8d galvanized nails, double row, spaced 16" apart.

4. Repeat to install trim boards to the other end wall panel.
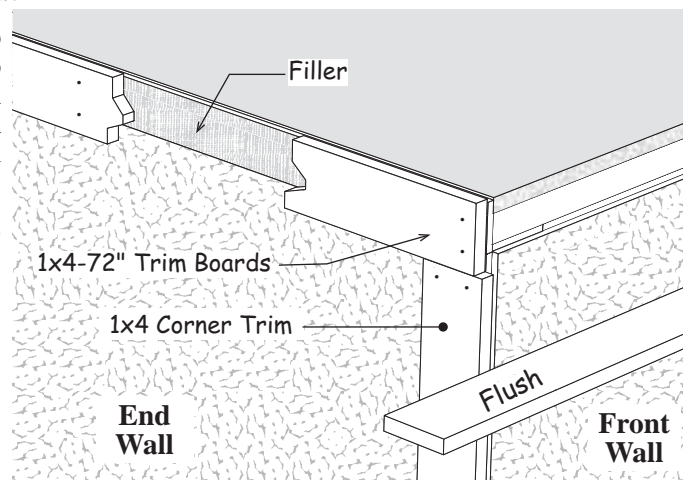
## Step 20   Assemble (2) Two 12' Dormer Walls

☞ *Since the dormer walls will be installed on the upper loft, it may be easier to build them on the loft floor.   When built, slide the walls over the open area of the loft.*

1.   Cut (2) two 2x4-12' to 140-1/2". Indicate with 'X' marks, where the wall studs will be located.

140-1/2"
Wall Plates

X		X	Window	X		X		X	Window	X		X
X		X			X		X		X		X		X

|← 18-1/2" →|← 27" →|← 24" →|← 24" →|← 27" →|

2.   Install (7) seven pre-cut 43-1/2" wall studs from the kit between the top & bottom plates. Nail a 25-1/2" long 2x4 under the top 2x4 wall plate where the windows will be installed. Use 10d coated sinker nails.

3.   Install 3-1/2" x 27-3/4" OSB filler boards on the sides of the window openings. Use (6) six 6d common nails per filler strip.

4.   Install pre-cut 25-1/2" long 2x4s under the OSB fillers. Toenail using 10d coated sinkers.

5.   Cut a 2x4-12' to 140-1/2" and install as a tie plate across the top of the wall frame using 10d coated sinkers spaced 16".

window opening detail

27-3/4" OSB Fillers

43-1/2" Studs

25-1/2" 2x4s
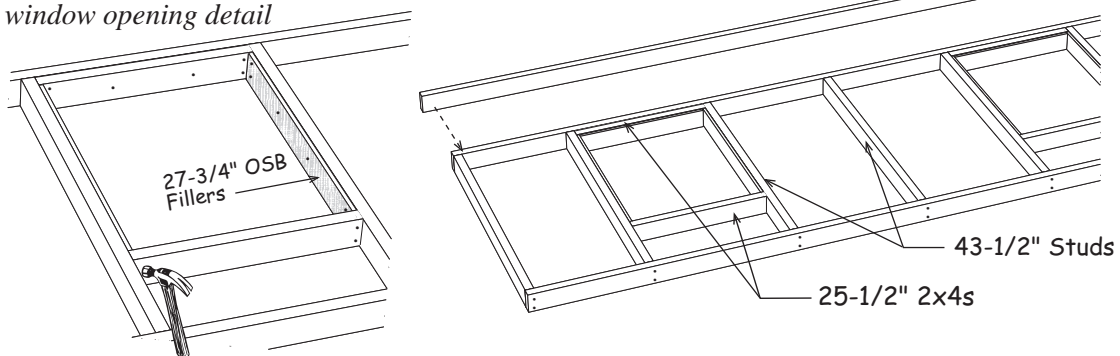
6.   Locate the OSB panel that was used to cover a pallet and cut to a length of 48". Locate the other 48" OSB panel shipped in the kit for use in this step as well.

7.   Square the wall frame. Install (2) two 46-1/4" x 48" high OSB panels (with window cut-outs) on the ends of the wall frame and (1) one 48" x 48" solid panel in the middle. Use 7d coated sinker nails spaced 10" apart.

8.   Draw a line in the center of the wall panel for reference.

9.   Repeat steps to assemble another dormer wall panel.


70-1/4" To Center
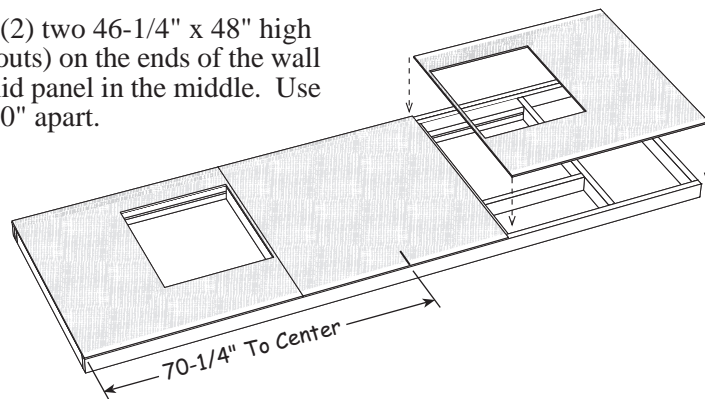
Step 21   Assemble Roof Gables End Frames

1. The gable frames are shipped nested together. Remove hardware and other material placed inside the frames. Separate these frames by removing screws. The screw bit is packaged in the hardware bag.

Gable Center Frame

Gable End Frame
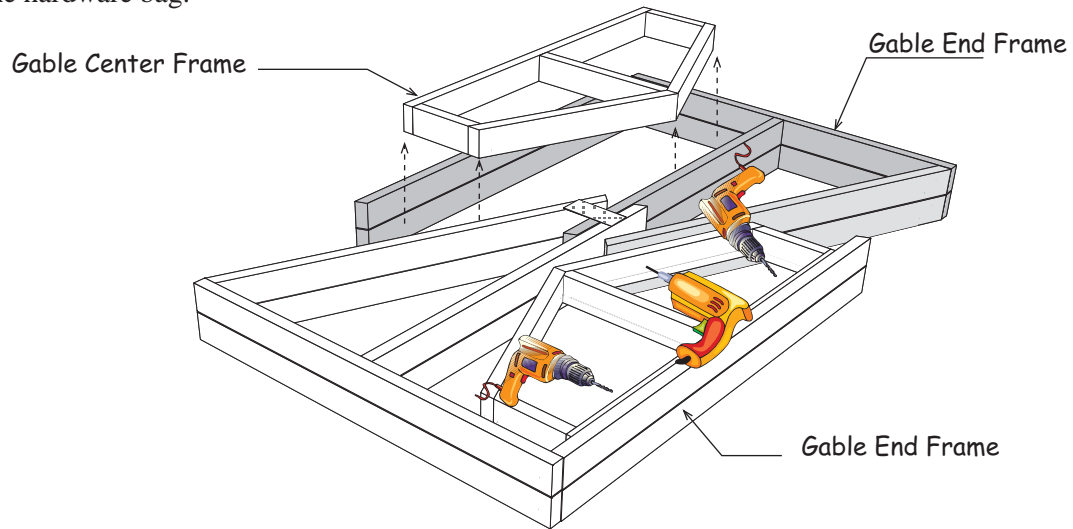
Gable End Frame

2. After the frames are separated select one of the end frames and install a 31-3/4" long 2x4 (angle cut both ends) across the top. Secure the 2x4 with 2-1/2" wood screws. The siding, installed next, will securely hold all the 2x4s in place.

31-3/4" long 2x4

31-3/4" long 2x4
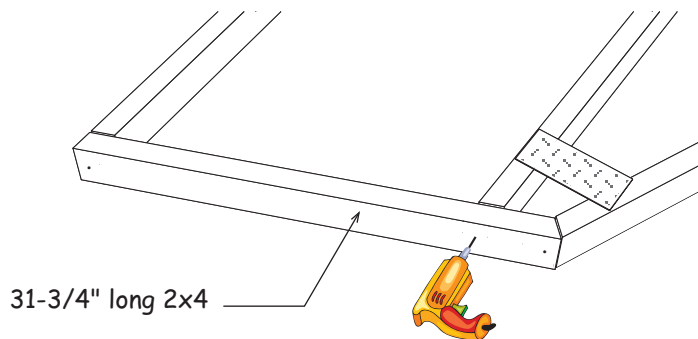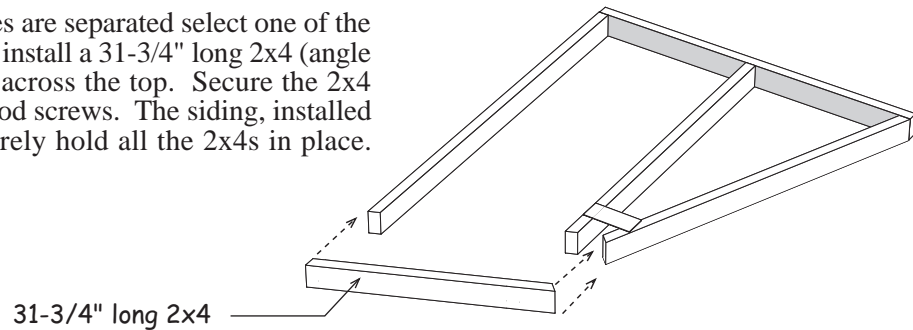
3. Repeat process to disassemble and install the top 2x4 on all (4) four gable frames.

Step 22   Assemble Roof Gables

☞ **Building Tip:** To aid in the assembly of the gables, temporarily tack 1x4 blocks to the floor. This will trap the gable frames and ensure the other gable and roof trusses, *assembled next*, will be assembled the same.

1. Place a left and right and center gable frame on the floor and hold the frame in position using 1x4 blocks; tack-nail blocks to floor. Secure frames together using 2-1/2" screws.

2. Screw (2) two 47-1/2" long 2x4s to the sides of the left and right end wall frames using 2-1/2" wood screws.

Center Frame

Left Frame

Right Frame

47-1/2" long 2x4s

49" long 2x4

1x4 Blocks
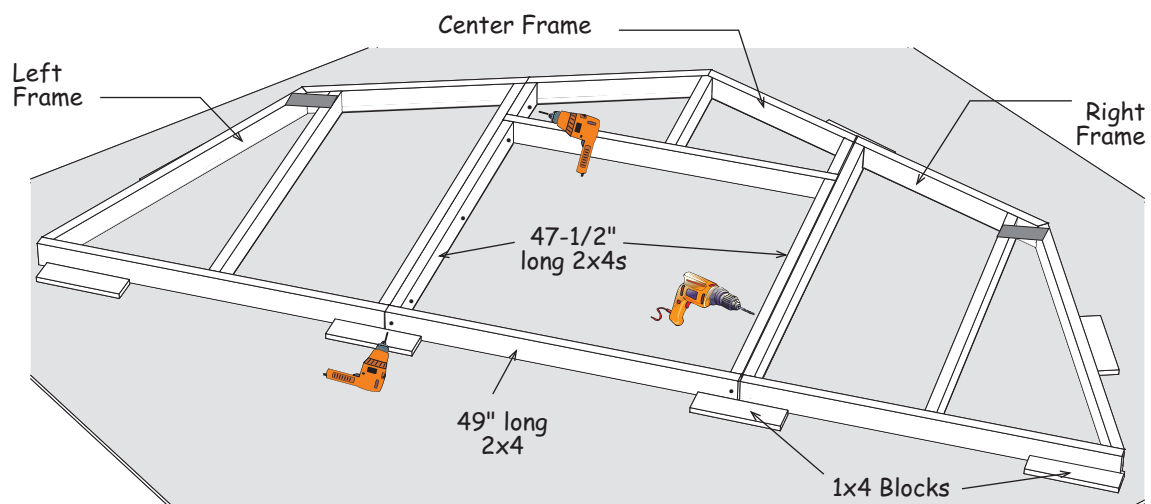
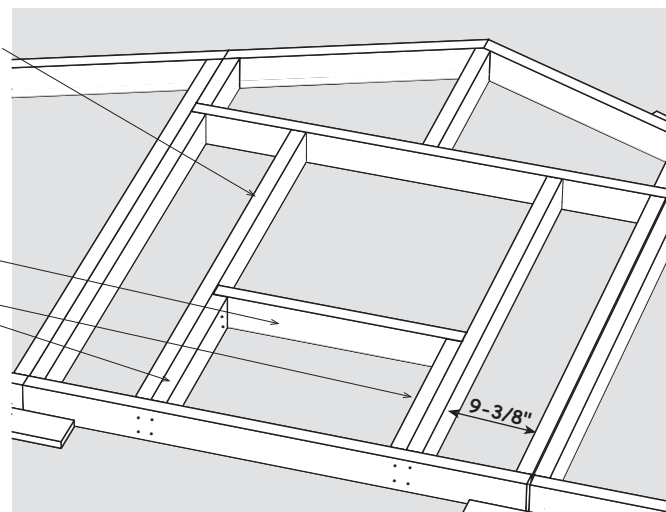3. Screw (1) one 49" long 2x4 to the bottom of the 2x4s installed above using 2-1/2" screws.

4. Install (2) two 47-1/2" wall studs where shown in detail on right using 10d coated sinker nails.

5. Cut the 2x4s listed below from (2) two 2x4-6' boards.

   1 pc.   24-1/4"

   2 pcs.   18-1/2"

6. Install these 2x4s in the center of the gable.

9-3/8"

Step 23   Apply Siding to Roof Gables

1. Install a siding panel on the left end of the gable frame with the 'Cut Edge' flush with the side of the frame. The siding should extend 3/4" below the bottom plate. Use 8d galvanized box nails spaced 8" apart. Install the center panel and the right end siding panel.

2. Remove this gable panel, placing it on top of the dormer walls to allow room to assemble another set of gable frames. Repeat **Steps 22 & 23** to assemble and apply siding to a second set of gable frames.

Flush

Siding 1-1/2" From
End of Frame

Siding Should Extend
3/4" Below Plate
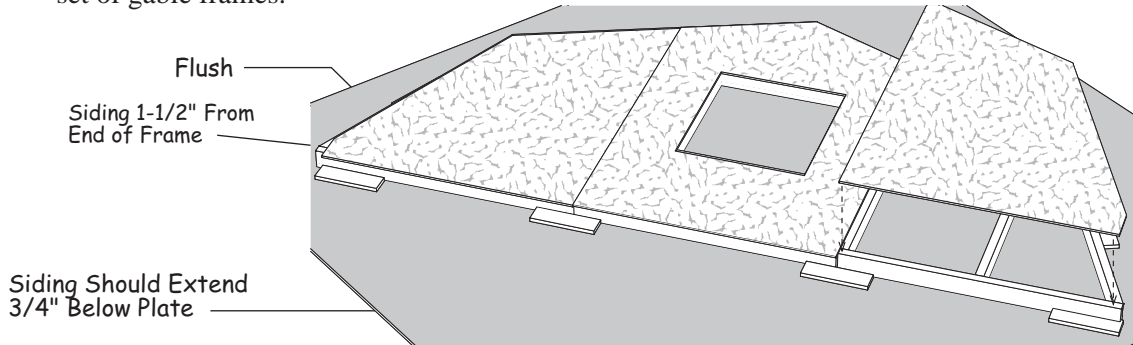
Step 24   Assemble Roof Trusses
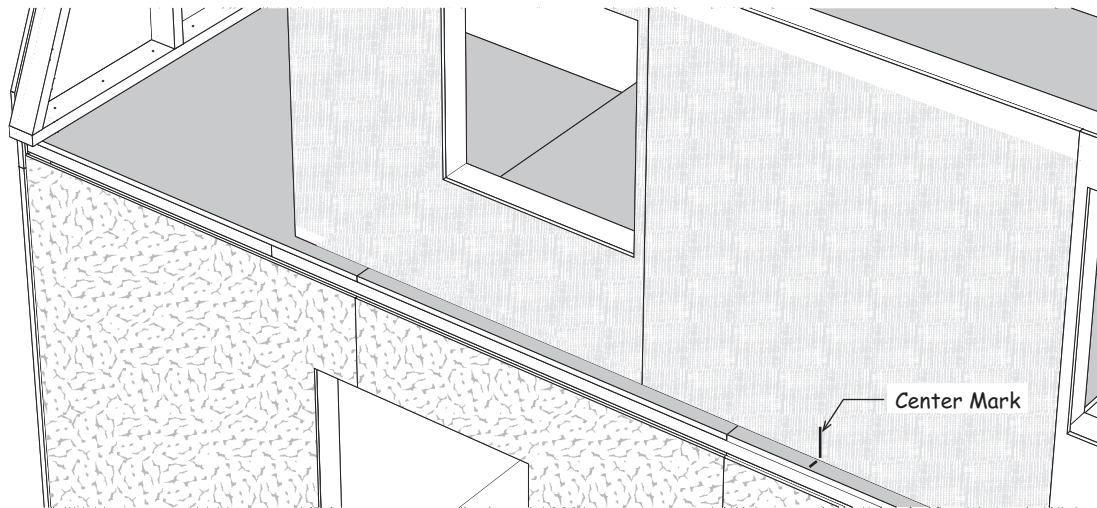
1. Place (2) two 58-1/2" long 2x6s and (2) two 50" long 2x6s against the 1x4 blocks. This will ensure the trusses will be aligned with the roof gables. You will need to reposition the 1x4 blocks to meet the bottom of the rafter leg.

2. Secure the top 2x6 rafters in place with a 47-1/4" long 2x4 and a 15-3/4"x48" wood gusset. Apply wood glue between the boards. Secure gussets with (2) two rows of 6d common nails spaced 6" apart.

3. Secure the knee of the truss with a 24" long 2x4 and a 10-1/2"x24" wood gussets. Use wood glue and secure gussets with (2) two rows of 6d common nails spaced 6" apart.

58-1/4" long 2x6
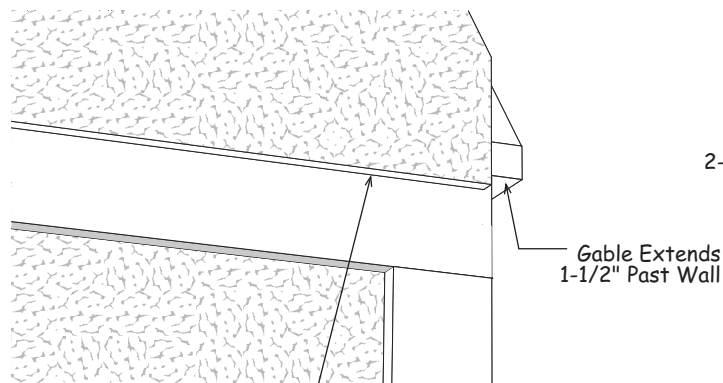
47-1/4" long 2x4

GLUE
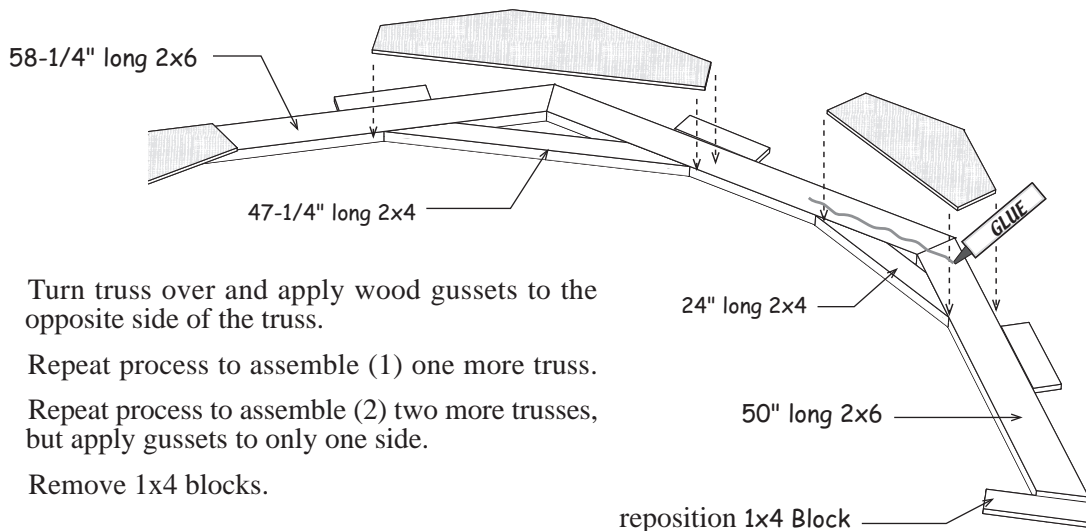
4. Turn truss over and apply wood gussets to the opposite side of the truss.

5. Repeat process to assemble (1) one more truss.

6. Repeat process to assemble (2) two more trusses, but apply gussets to only one side.

7. Remove 1x4 blocks.

24" long 2x4

50" long 2x6

reposition 1x4 Block

Step 25   Set Roof Gable and Dormer Wall

1.   Install a roof a gable over the end wall that has the large floor area. Set the gable with the siding extending over the trim on the lower wall, see *Detail 'A'* . Center the gable; the gable should extend 1-1/2" beyond the flooring on both sides of the building. Install a 2x4 wall brace to secure gable and nail through the bottom plate with 10d coated sinkers; use 3 nails per stud opening.

2.   Set the dormer wall on the floor with the center mark on the dormer wall alined with the mark on the center of the loft floor. The dormer wall should be 2-1/2" from the edge of the loft floor; see *Detail 'B'*.

3.   Nail the dormer wall to the floor using 10d sinkers, close to the back of the OSB so the nails go into the 2x6 joist header. Nail through the bottom plate into the 2x6 floor joist. Use 3 nails per stud opening.
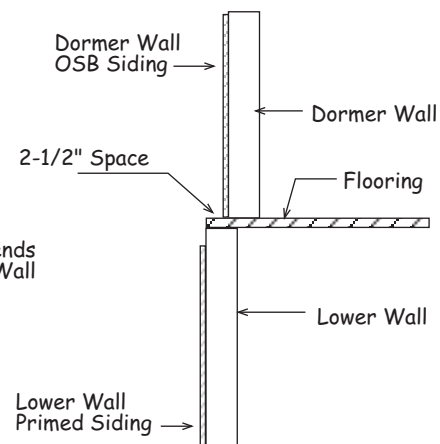

Center Mark

DETAIL 'A'

Gable Extends
1-1/2" Past Wall

Nail & Paint Bottom
Edge of Siding.

DETAIL 'B'

Dormer Wall
OSB Siding

Dormer Wall

2-1/2" Space

Flooring

Lower Wall

Lower Wall
Primed Siding
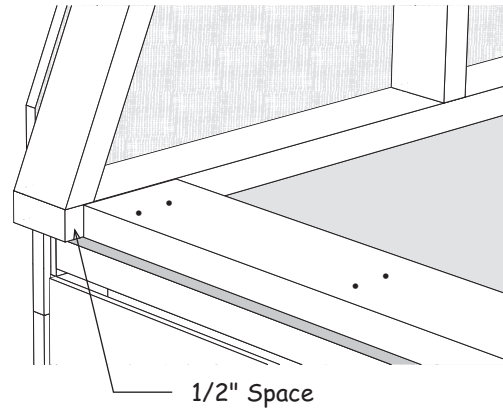
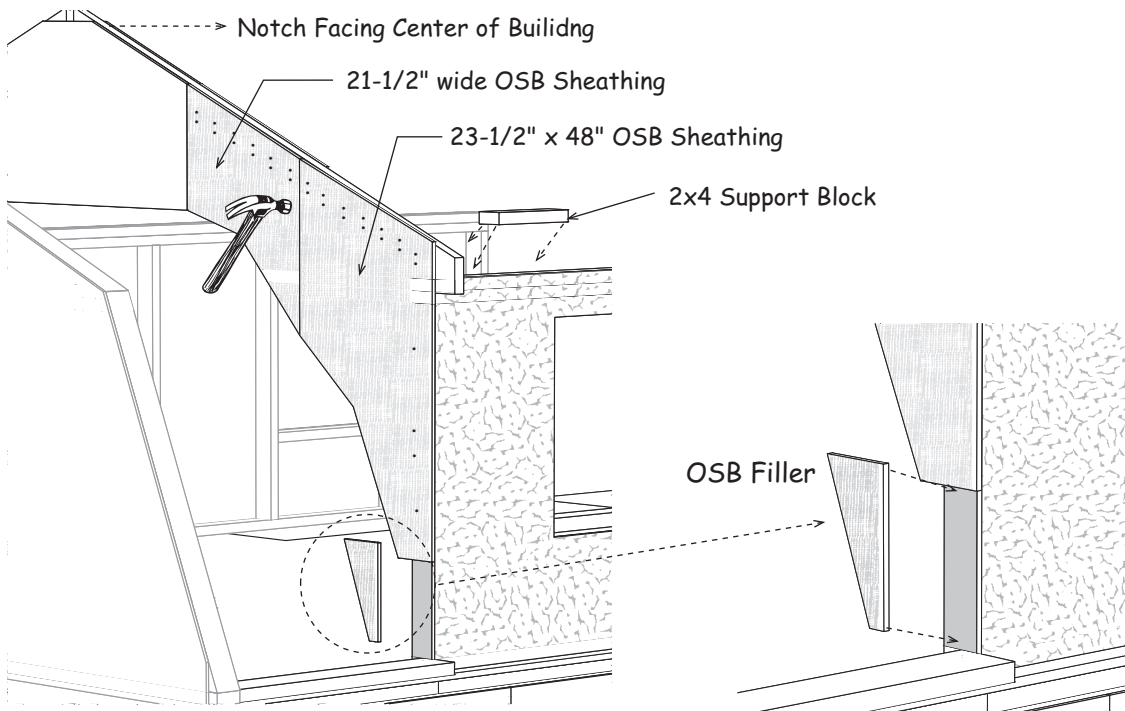4.   Repeat this step to set the second gable and dormer walls.

Step 26   Install 2x6 Truss Plates

1. Cut truss plates to length from 72" long 2x6
    boards, the truss plates will be approximately
    35-1/2" in length. Install one at each corner
    against the gable. Install the 2x6 plate 1/2"
    from the end of the gable plate. Nail each plate
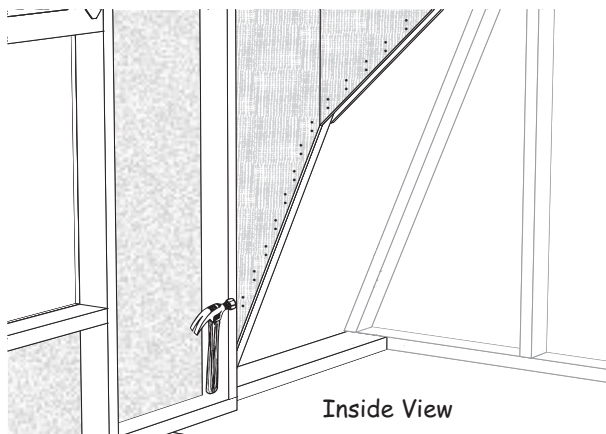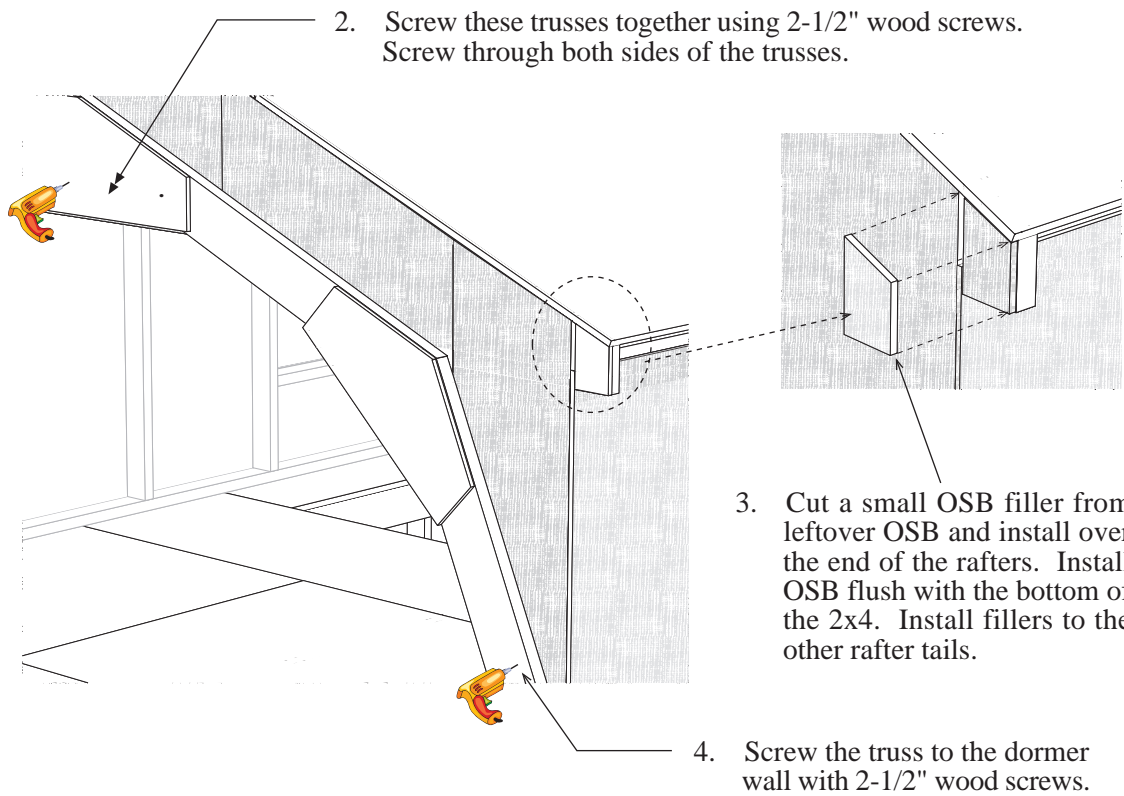   using 10d sinker nails.

1/2" Space

Step 27   Install Dormer Truss

1. Working on the loft floor, set the dormer truss assembled in **Step 1** on the end of the dormer
    wall with the side that has the notch cut into the OSB sheathing facing towards the center
    of the building. Nail a 2x4 block to the top of each side of the dormer wall to help support
    the dormer truss; see **Step 31**. Screw the truss to the 2x4 blocks with 2-1/2" wood screws
    to hold the truss upright.

2. Install pre-cut OSB sheathing flush with the top of the truss as shown below. Nail sheathing
    to dormer truss with two rows of 6d common nails. Install small filler shown below.

Notch Facing Center of Builidng

21-1/2" wide OSB Sheathing

23-1/2" x 48" OSB Sheathing
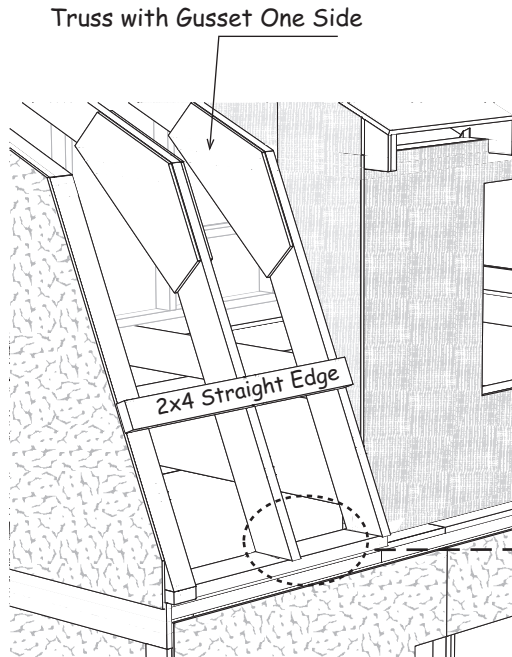
2x4 Support Block

OSB Filler
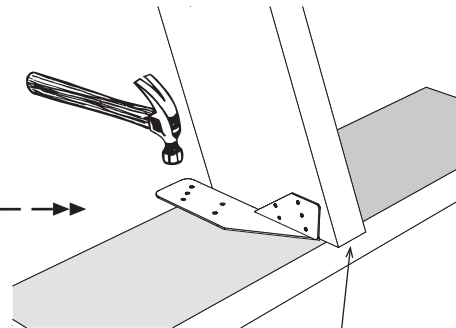
Step 28   Install Gambrel Truss

1. Select the truss that has a gusset applied to one side. Install this truss against the dormer wall with the gusset facing the roof gable. The bottom tip of the truss will extend past the truss plate. The truss should align with the gable end; refer to **Step 29**.

2. Screw these trusses together using 2-1/2" wood screws. Screw through both sides of the trusses.

3. Cut a small OSB filler from leftover OSB and install over the end of the rafters. Install OSB flush with the bottom of the 2x4. Install fillers to the other rafter tails.

4. Screw the truss to the dormer wall with 2-1/2" wood screws.

5. From inside the loft, nail the OSB sheathing to the truss with two rows of 6d common nails.

Inside View

Step 29   Install Common Trusses

Truss with Gusset One Side

2x4 Straight Edge

1. Select the truss that has gussets applied to both sides. Install the truss between the gable end and the truss just installed. Space the truss evenly in the opening.

2. Secure this truss using left and right metal brackets. Use 6d common nails to secure a bracket to the truss plate, and two 1-1/4" screws to secure the truss. Bend down the bracket where it extends past the 2x6 plate. Install another set bracket on the other side of the truss.

Truss Extends Beyond Plate

Step 30   Install Trusses over Loft Opening

Use scaffolding and a helper to install the dormer truss, gambrel truss and common truss. Repeat **Steps 27 - 29**.

**Use caution when working on the scaffolding.**
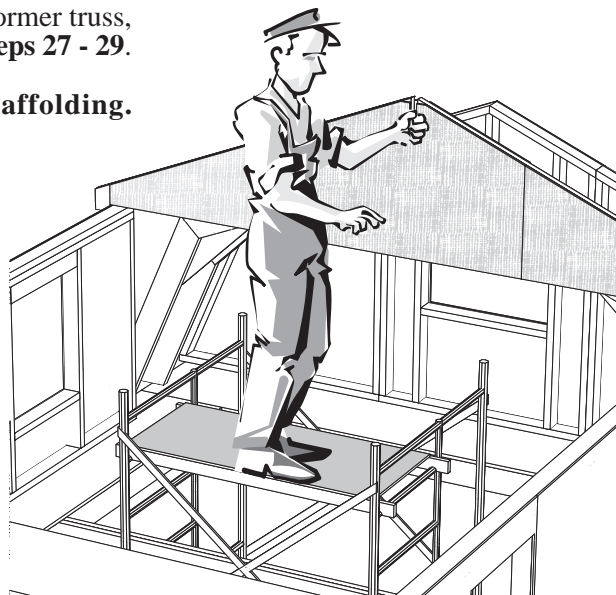
Step 31 Install 2x8 Ridge Beam

1. Cut a 2x8 board to a length of 140-1/2" and install as a ridge beam into the slots of the dormer trusses.

2. Secure the ends of the 2x8 with a metal joist hanger and 10d coated sinker nails.

3. Layout where the 2x6 rafters will be installed on the ridge beam; *see below.*
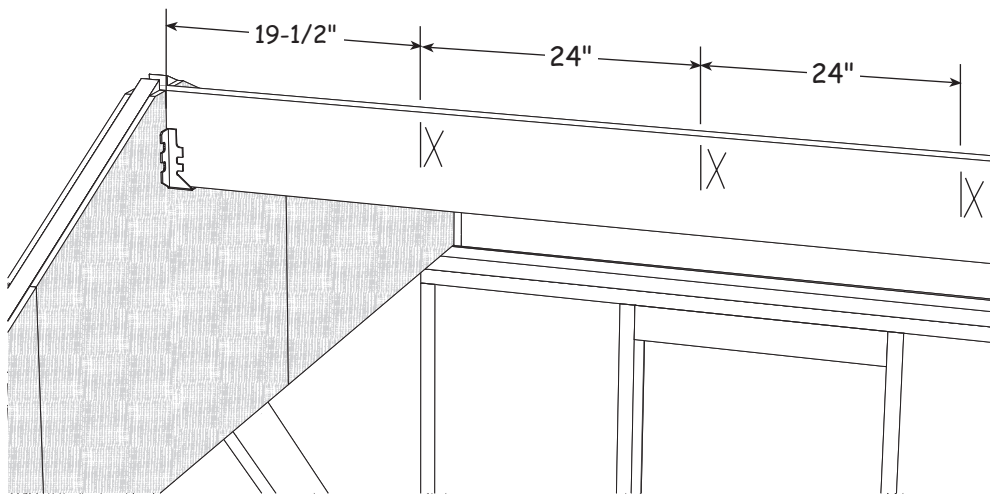
4. On both dormer walls, layout where the 2x6 rafters will be installed; *see below.* Install H1 hangers where the rafters will be placed over the 'X' marks. Use 6d common nails to nail the hangers to the truss plate. When the rafter is set (next step), use a 1-1/4" screw on each side of the hanger, and toenail the rafter to the truss plate using 10d coated sinker nails.
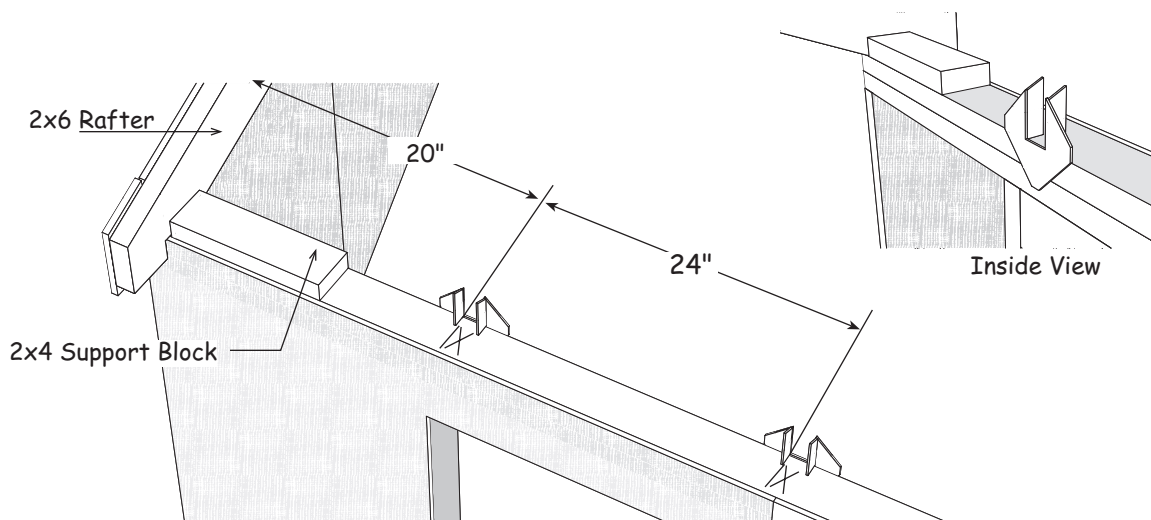
Step 32   Install 2x6 Rafters

Locate (10) ten 78-3/4" long 2x6 rafters. Working from the center, install (2) two rafters on the front side of the ridge and one back side. The rafters should align with the dormer trusses and will be approximately 3/4" above the ridge beam to allow for ventilation. Use a string to check the alignment. Secure the rafters to the ridge beam with H1 hangers using 1-1/4" screws. When possible screw through the ridge board into the rafter using 2-1/2" deck screws. Install the remaining rafters alternating one on the front of the ridge and then one on the back side. This will help keep the ridge board straight.

String
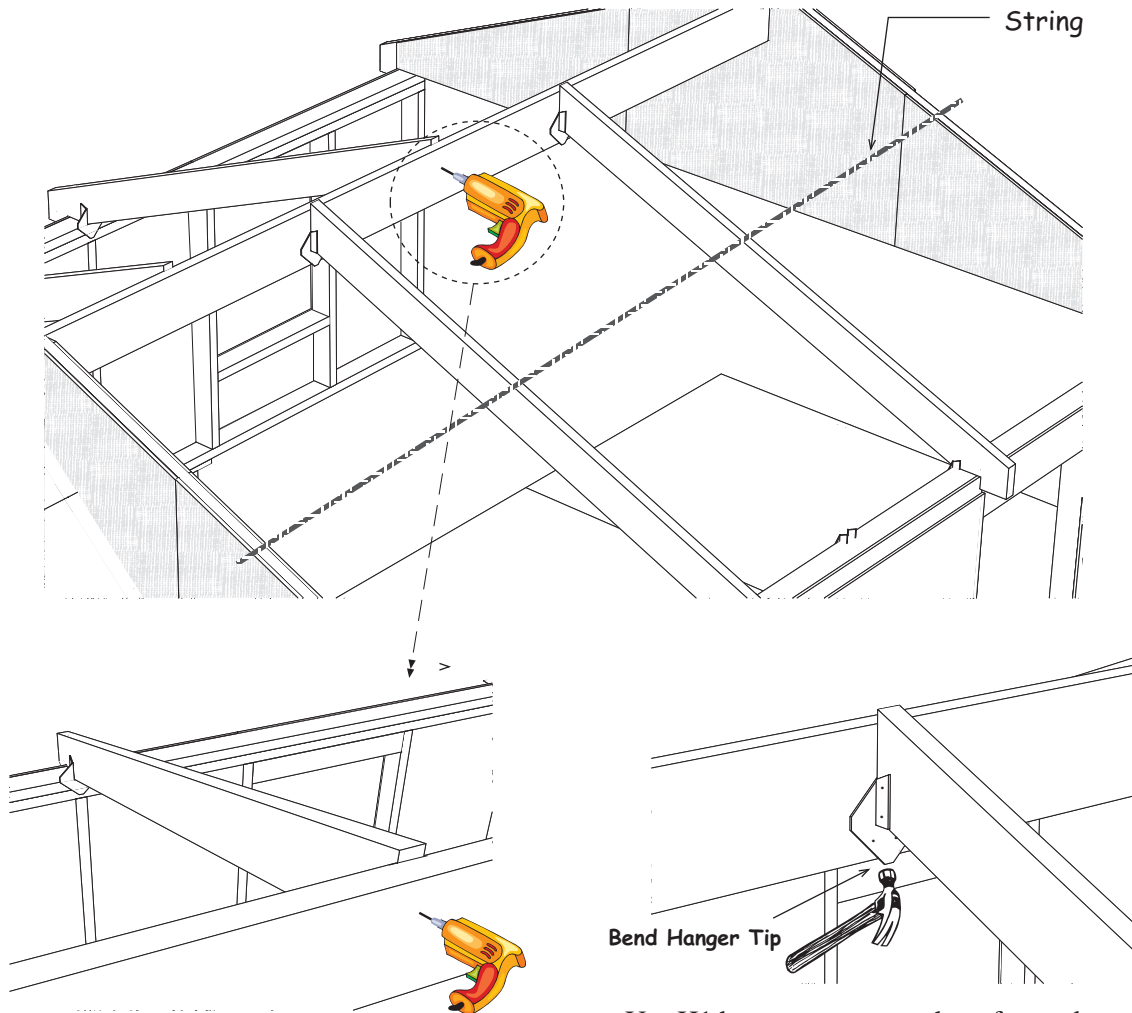
Bend Hanger Tip

Use H1 hangers to secure the rafter ends to the ridge using 1-1/4" screws. Using a hammer, bend the hanger tips that extends below the ridge.

## Step 33   Install Roof Sheathing & Soffit Boxes

1. Install 5/8" plywood roof sheathing as shown below. Install the roof sheathing starting in the center of the rafters. Insert plyclips between rafters; see **Step 34** for detail. The roof sheathing will extend approximately 1-1/4" past the sheathing on the dormer ends. Use 7d coated sinker nails spaced 6" apart. Extend the sheathing 3/8" below the end of the rafter. **Tip:** Use a piece of primed siding as a gauge. The top row of roof sheathing will be about 1-1/2" below the ridge to allow for ventilation.

2. Repeat on back of building to install roof sheathing.
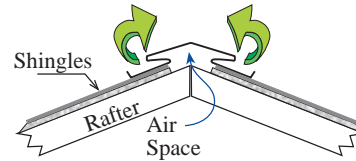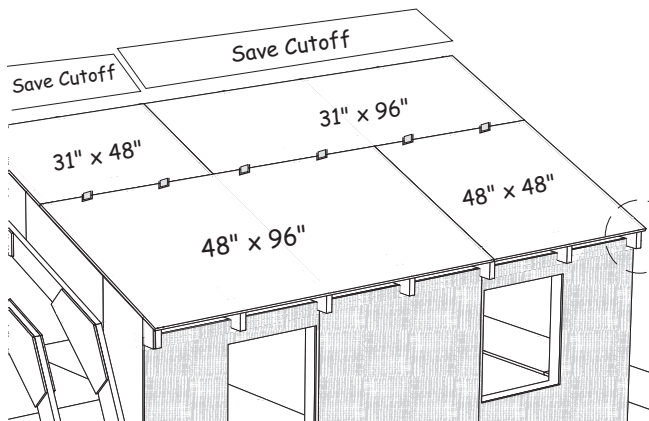
*Optional ridge vent provides ideal ventilation.*
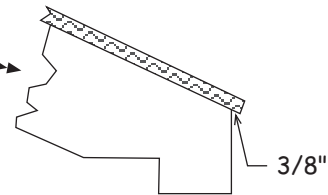
3. Use a soffit gauge block and a straight edge to set the location of the soffit box. Use the straight edge to align the top of the 2x4 block flush with the top of the 2x6 rafter. Draw a line across the siding to set the pre-built soffit boxes.

4. Install a 73" long pre-built soffit box on the front wall, flush with the siding on the roof gable (3/8" beyond the end wall corner trim. Screw the soffit box to the wall with 2-1/2" long screws anchoring into the wall studs behind.
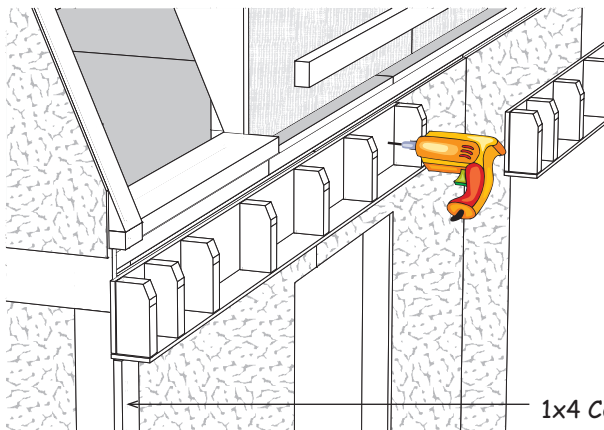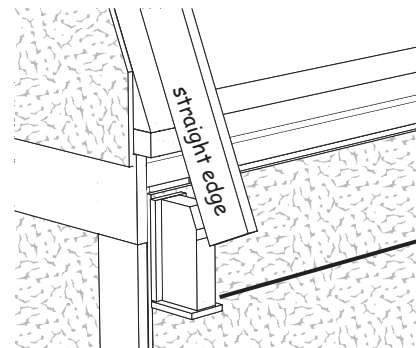
5. Install (2) two more 73" long soffit boxes. Screw soffit boxes together with a 2-1/2" screw.

6. Cut a 96" long 1x4 trim boards to length and install as corner trim on the lower wall using 8d galvanized box nails.

7. Repeat steps to install soffit boxes and trim on the back wall.

Step 34 Install Roof Sheathing - Lower Roof

1. Screw (2) two 2x3-6' long boards (cut boards to fit) to the dormer wall to support the roof sheathing installed later. Use 2-1/2" wood screws spaced to catch the wall studs behind. Aline the top corner of the 2x3 board with the top of the 2x6 truss.

2. Repeat to install 2x3s on the back dormer.

2x3-6' Board

Plyclip

8-1/2" × 38-3/4"

48" × 38-3/4"

9-1/2" × 38-3/4"

48" × 38-3/4"
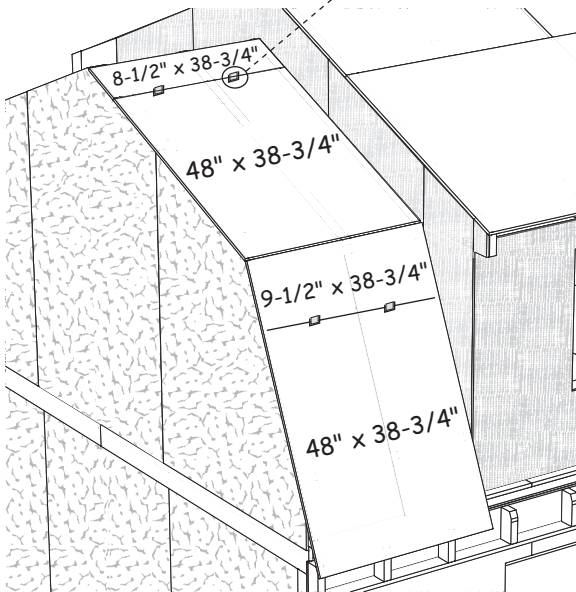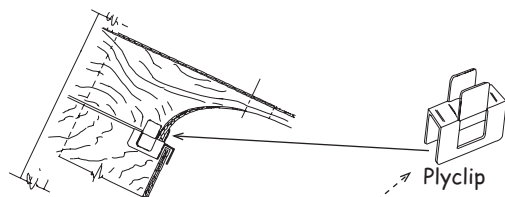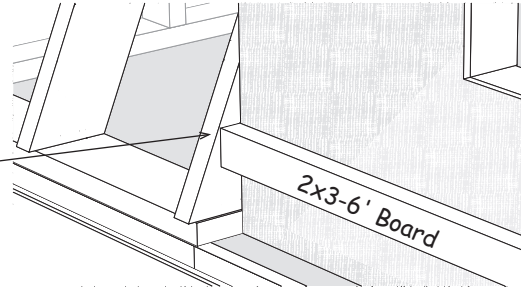
☞ **IMPORTANT: Use scaffolding and a helper to install this roof sheathing.**

48"

38-3/4"

38-3/4"

| 38-3/4" | 9-1/2" | 38-3/4" | 8-1/2" |
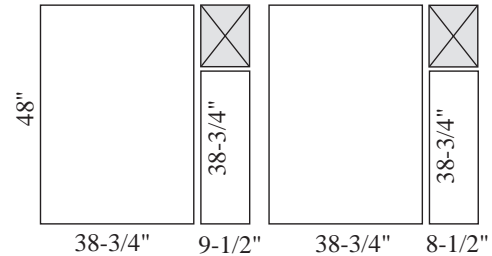
3. Cut a 5/8" plywood panel into the sizes shown above. Install the 8-3/4" panel 1" from the peak of the gambrel trusses. Install the 48" next, inserting plyclips between the smaller and large sheathing panels. Use 7d sinkers spaced 6" apart to install sheathing.

4. Install the 9-1/2" and 48" panel as described above.

5. Cut (3) three more sheathing panels and install at the other corners.

Cut to Fit

2x3 Nailer

5. Use sheathing cutoffs from **Step 33** to fit and install under the front and back dormer walls. Nail the top of the sheathing into the 2x3 nailer using 7d coated sinker nails spaced 8" apart. Nail into each soffit block as well.
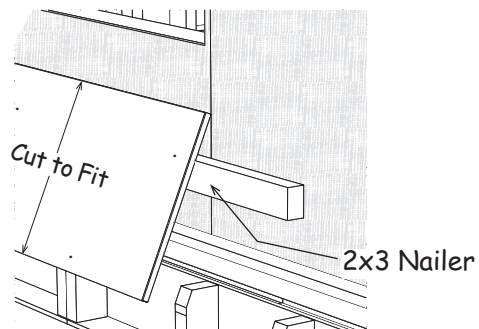
Step 35   Install 1x6 Fascia Boards on Lower Soffit

1. Install a 73" long 1x6 fascia board over the front soffit box. Install 1x6 against the bottom of the roof sheathing, flush with the siding on the roof gables. Use 8d galvanized box nails spaced to catch the 2x4 blocks behind.

2. Install (2) two more 1x6-73" fascia boards.

3. Repeat to install fascia on the back soffit boxes.

1x6 - 73" Fascia
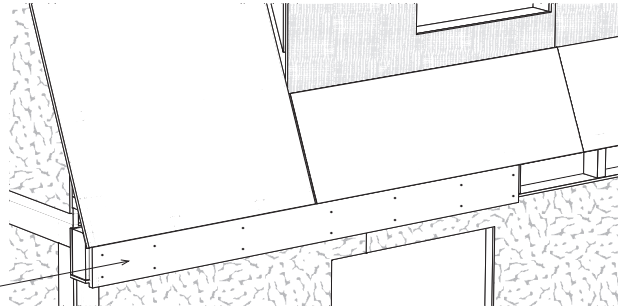
Install Roof Covering and Dormer Flashing - Owner Supplied

☞ *If you purchased our optional pre-cut metal roof package, follow the instructions included with that kit for the rest of the construction process. If you purchased a different metal roof system, follow the manufacture's installation instructions and special assembly instructions as noted in the following steps.*

IMPORTANT: Flashing must be installed before applying the dormer siding. Apply flashing *prior to* installing shingles, or *after* metal roof panels are installed.

1. Install roof paper over the roof sheathing. Fold the roof covering so it also cover the sheathing on the dormer front and sides.

2. Install (2) two 78" long pieces of metal flashing over the dormer. Extend the flashing 2" beyond the front sheathing. Cut the flashing to extend around the dormer. Tack in place across the top using 6d common nails.

3. Install flashing on the back dormer.
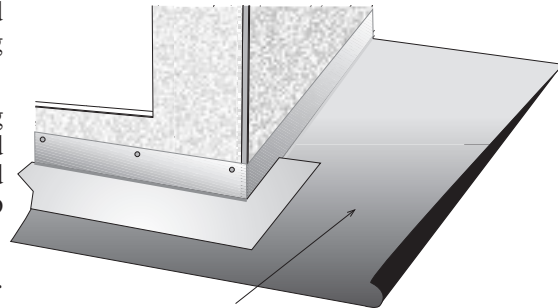
Roof Paper or Ice Guard

Step 36   Install Dormer Siding

1. Cut (2) two 72" long 1x4 boards to length and install across the bottom of the dormer rafters (see **Step 38** for larger detail). Use 8d galv. box nails.

2. Install (3) three 33-3/4" high siding panels on the front and back dormer walls using 8d galvanized box nails spaced 8" apart. **Important**: Paint the bottom edge of the siding.

NOTE: If you are installing a metal roof, trim 1" off the bottom edge of the siding panels to allow more space between the top of the roof panels and bottom of the siding.
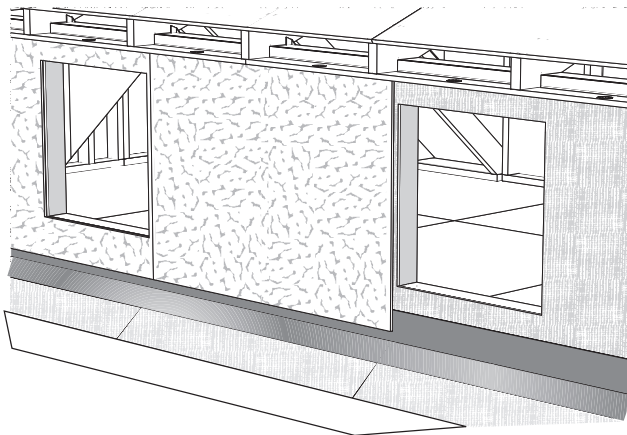
Install Finish Roof Covering - Owner Supplied

Install shingles according to the instructions on the wrapper. This roof design is more complex than a straight roof and requires flashing to be installed. You may want to consider hiring a professional roofer who has the necessary equipment to install the finish roof covering.

Step Flashing
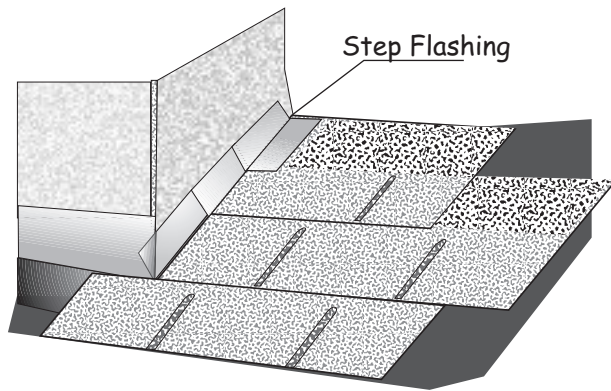
1. Install metal roof edging on the perimeter of the roof area. If you are not installing shingles at this time, you can purchase felt paper to protect the roof sheathing. Install the felt paper before you install the metal roof edge.

2. Interlace step flashing along the side of the dormer walls as you install shingles.

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

Step 37   Install Primed Siding on Dormer Sidewall

If you are installing a metal roof, trim 1" from the bottom edge of these siding panels to allow more clearance for the roof panels.

1. Install a 27"x38" long primed siding panel under the roof sheathing on the side of the dormer. Install the siding flush with the siding on the front of the dormer. Use 8d galvanized box nails.

2. Install a 9" wide x 48-3/4" long primed siding panel on the dormer side using 8d galvanized box nails.

3. Install the same siding pieces on the back side of the building and on the opposite end of the dormer.

Important: Paint the edges of these siding pieces before installing.

9"x48-3/4" Primed Siding

27"x38" Primed Siding
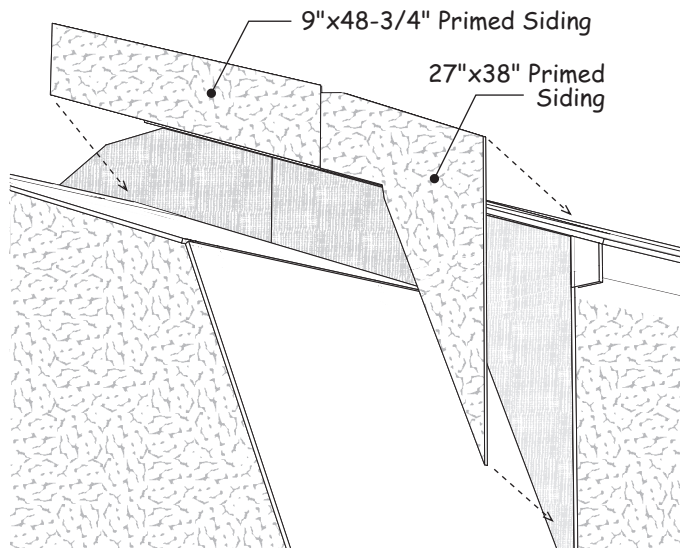
Step 38   Install Dormer Soffit & Corner Trim

1. Install 33-3/4" long 1x3 corner trim flush with the siding on the dormer sides. Use 8d galvanized box nails.

2. Repeat to install 1x3 trim on the other corners.
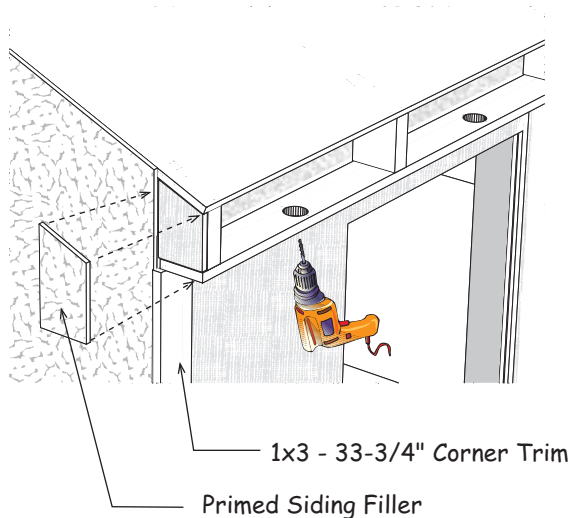
3. Cut small fillers from leftover siding to cover the end of the rafters and the 1x4 soffit boards. Install with 8d galvanized box nails. The gable trim applied later will cover most of the filler.

☞ *If you intend to insulate the roof, drill 2" holes between the dormer trusses and install the round soffit vents provided in the kit. You also need to drill (2) two 2" holes in the soffit area located below the gambrel trusses and install round soffit vents. Drill (2) two holes at each corner of the building. A hole saw drill bit can be purchased at any hardware store.*

1x3 - 33-3/4" Corner Trim

Primed Siding Filler

## Step 39   Install Upper 2x4 Gable Overhang

1. Install a 79-1/2" long 2x4 on the side of the dormer under the roof sheathing. Use 10d coated sinker nails.

2x4 Gable Overhang
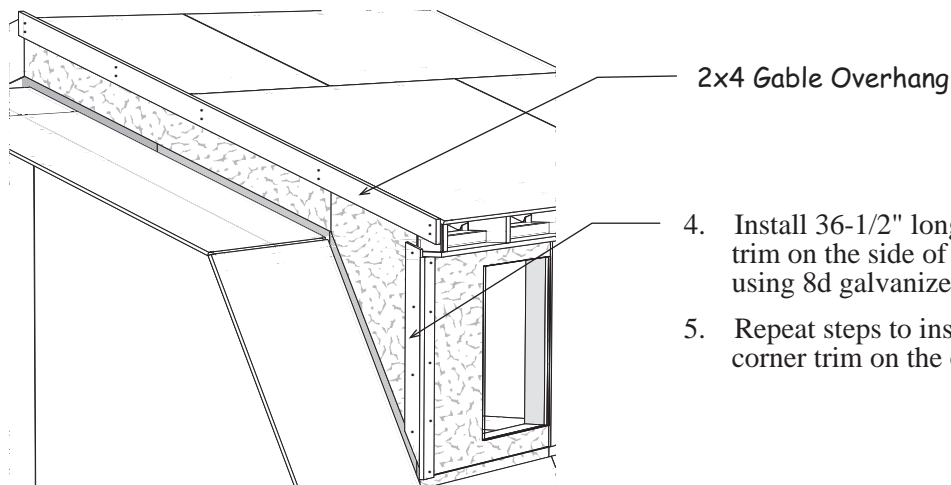
4. Install 36-1/2" long 1x3 corner trim on the side of the dormer using 8d galvanized box nails.

5. Repeat steps to install 2x4 and corner trim on the other corners.

## Step 40   Install Upper Gable Trim & Fascia Trim

1. Install 80-1/2" long 1x6 dormer rafter trim flush with the top of the roof sheathing and end of the rafters using 8d galvanized box nails spaced 16" apart. Trim to fit, if needed.
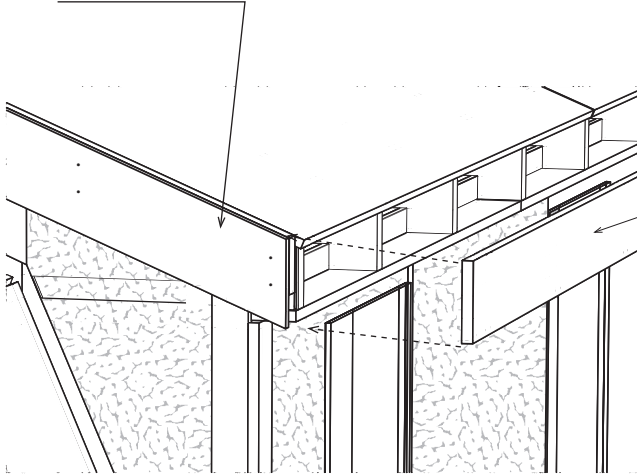
2. Install (2) two 73" long fascia boards across the rafters using 8d galvanized box nails. Trim to fit as needed.

3. Repeat to install gable trim and fascia on the opposite corner and the back of the building.

Step 41   Install Lower Gable Trim

1. Install (2) two 59" long 1x6 gable trim boards at the top of the roof gables, flush with the roof sheathing using 8d galvanized box nails.

59" long 1x6 Gable Trim
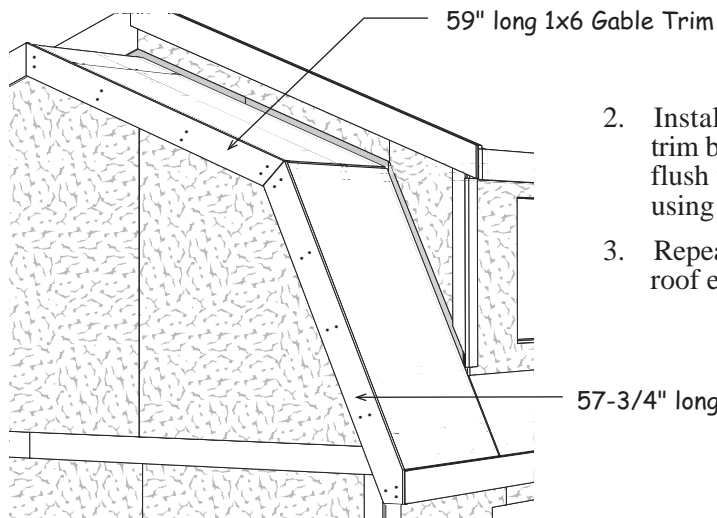
2. Install (2) two 57-3/4" long 1x6 gable trim boards at the side of the roof gables, flush with the roof sheathing and fascia, using 8d galvanized box nails.

3. Repeat to install gable trim on the other roof ends.

57-3/4" long 1x6 Gable Trim

Step 42   Install Windows

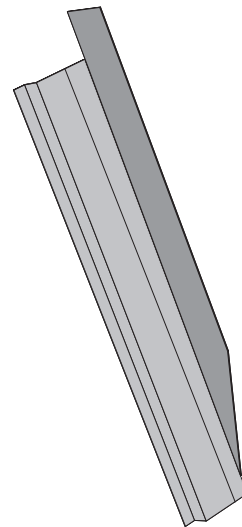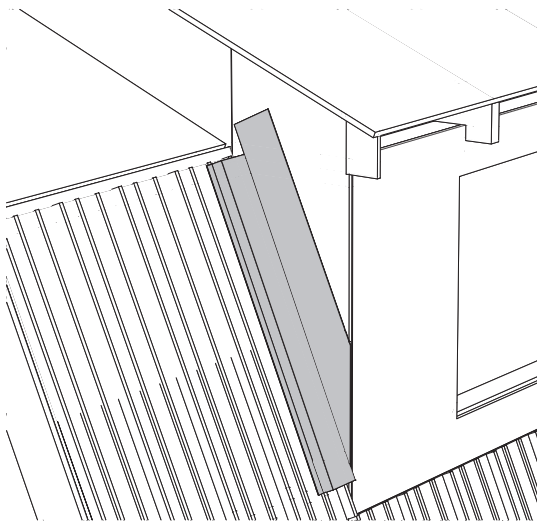*General Instructions for Installing Upper Windows*

1. Apply window caulking around the window opening before installing the windows.

2. Insert window in opening. Have someone hold window in place from the inside or the outside.

3. DO NOT use a hammer to nail through the flange.

4. Insert a 1x3 trim board along each side of the window, flush with the top and bottom window frame.   Secure trim boards using (4) four trim screws.

5. Install the bottom and top trim boards.

6. Apply caulking along the top of the 1x3 trim board.

☞ *See instructions from the window manufacture for applying trim around lower window.*
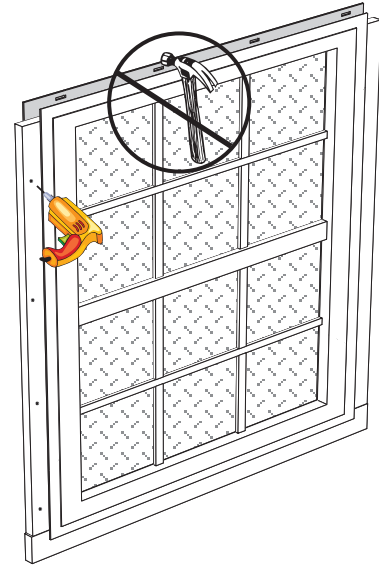
Optional Pre-cut Metal Roof Kit

A pre-cut metal roof kit offers pre-cut metal roof panels and all necessary flashing and trim accessories. This kit will elimate costly waste as all the roof panels are cut to exact length. The metal flashing around the dormer is pre-cut to fit properly. Metal roof edging, gable trim and ridge cap is also pre-cut and supplied.   Necessary screws and insect-guard for the ridge is included along with a detailed instruction manual. Protective covering (felt paper or underlayment) over the roof sheathing should be installed prior to the roof panels. You will need to purchase 500 sq. ft.

✓	Cardboard Wrap		
2	2x4	95-3/4"	
8	1x4	96"	

✓	44" x 72" Pallet		
2	2x6	72"	
8	2x6	58-1/2"	
8	2x6	50"	
2	2x4	72"	
8	2x4	47-1/2"	
14	2x4	43-1/2"	
8	2x4	25-1/2"	
4	2x3	72"	
12	1x3	29-3/4"	
12	1x3	27-1/4"	
6	24" x 27" Windows		

| ✓	49" x 84" Main Pallet		
2	lbs.	16d Galvanized Nails	
5	lbs.	16d Coated Sinkers	
8	lbs.	10d Coated Sinkers	
10	lbs.	8d Galvanized Box	
6	lbs.	7d Coated Sinkers	
7	lbs.	6d Common Nails	
100	ea.	1-5/8" Trim Screws	
115	ea.	1-1/4" Drywall Screws	
120	ea.	2-1/2" Deck Screws	
30	ea.	5/8" Plyclips	
22	ea.	2x6 Joist Hangers	
20	ea.	2" Round Soffit Vents	
20	ea.	H-1 Hangers	
8	ea.	6-1/2" L/R Hangers	

✓	49" x 84" Main Pallet		
14	2x6	78-3/4"	
4	2x4	79-1/2"	
2	2x4	49"	
4	2x4	31-3/4" angled	
4	1x6	80-1/2"	
10	1x6	73"	
4	1x6	59" angled	
4	1x6	57-3/4" angled	
8	1x4	72"	
4	1x3	33-3/4"	
4	1x3	36-1/2" angled	
8	27-3/4" OSB Fillers		
1	Soffit Gauge Block		
2	2" Screw bits for drill		

✓	49" x 84" Main Pallet		
4	Pre-built Gable Frames	49" x 60"	
2	Pre-built Gable Frames	49" x 22"	
6	Pre-built Soffit Boxes	6" x 73"	
2	Pre-built Truss Saddles	6-1/2" x 9"	
4	LP Siding for Gables	48" x 60"	
2	LP Siding for Gables	48" x 72"	
1	OSB Siding for Dormer	48" x 48"	
1	OSB Siding for Dormer	48" x 84"	
4	OSB Siding for Dormer	46-1/4" x 48"	
4	LP Siding for Dormer	46-1/4" x 33-3/4"	
2	LP Siding for Dormer	48" x 33-3/4"	
2	LP Siding	9" x 53-3/4"	
6	LP Siding Fillers	2-1/2" x 48"	
1	5/8" Plywood Flooring	24" x 48"	
1	OSB Header Filler	3-1/2" x 84"	
1	OSB Header Filler	5-1/2" x 84"	

Odd-Shaped Components

22" 4 pcs. OSB
6 pcs. OSB 48"
38" 4 pcs. OSB
4 pcs. OSB 24"
4 pcs. OSB 48"
4 pcs. Siding 39"
filler
4 - 2x4 47-1/4"
8 - 2x4 24"
12 pcs. OSB 24"

Finish Roof Covering by Owner

12	bdl.	Roof Shingles (and nails)
14	pcs.	10' Metal Roof Edge
90	pcs.	5x7 Step Flashing
24	l.f.	Dormer Flashing
1	roll	#15 Felt Paper
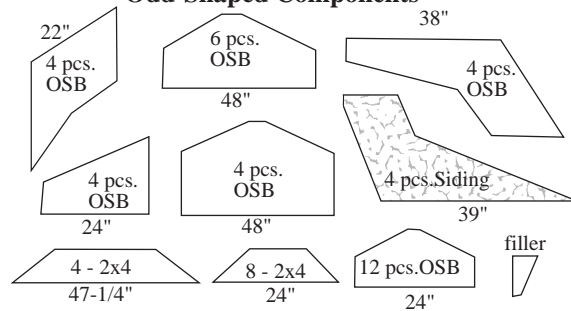
✓	Material Supplied By Local Home Center	
55	Pre-cut Wall Studs	
3	Wall Plates - Treated	2x4 - 8'
2	Wall Plates - Treated	2x4 - 10'
2	Wall Plates - Treated	2x4 - 12'
3	Wall Plates	2x4 - 8'
2	Wall Plates	2x4 - 10'
13	Wall & Tie Plates	2x4 - 12'
1	Ridge Beam	2x8 - 12'
4	Floor Joist / Door Header	2x6 - 8'
2	Floor Joist for Loft	2x6 - 10'
12	Floor Joist for Loft	2x6 - 12'
15	LP Exterior Siding	3/8" - 4' x 8'
15	Plywood Sheathing	5/8" - 4' x 8'
2	Tubes of Window Caulking	
2	Tubes of Wood Glue	