Best Barns USA

Assembly Book

revised February 15, 2017

Regency Deluxe   8' x 12'

Manufactured by Reynolds Building Systems, Inc.

205 Arlington Drive, Greenville, PA   16125

IMPORTANT INFORMATION ABOUT YOUR SHED KIT

Thank you for your purchase. I want you to be completely satisfied with your building. The 2x4s we use in our kit are the best grade available, importing most from Europe. If you are dissatisfied with any lumber call and we will replace it.

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 email to help@barnkits.com.

The material that is included in our kit is listed on the back page. The optional floor package, if purchased, will be supplied by a local lumber supplier.

You will need to purchase the finish roof covering. Refer to the **Step 22** for information on this material. The siding and trim is primed. You will need to apply a finish coat using latex acrylic paint..

Some of the framing lumber was used in the shipping pallet. Unpack the material from the pallets, then unscrew the top 2x4s. The bit for the screws is packed in the hardware bag.. The 2x4s will be used for wall bracing.

Most buildings are installed on a wood floor and the siding was designed to extend over the wood flooring. If the foundation is a concrete floor cut the siding flush with the bottom of the wall plate to prevent the concrete from contacting the siding.

Stacking the boards, according to size, will make them easier to find when needed. **Do Not** discard any material until your building is complete.

Before building, obtain a building permit and check all pertinent building code regulations.

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 galv. nails, spaced 12" apart.

LAP Edge

Tongue Edge

← measure from here →
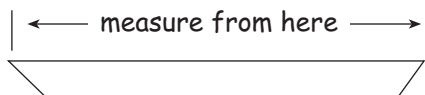
When measurements are given for a board length, it is from the longest side.
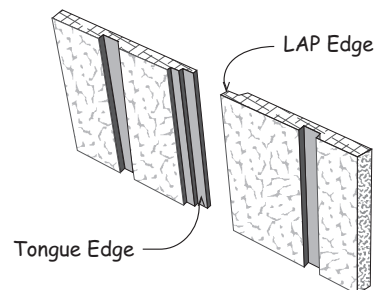
Tool List

- ❑ Hammer & Phillips Screwdriver
- ❑ Framing Square & Level
- ❑ Hand Saw
- ❑ Power Drill/Screwdriver
- ❑ Measuring Tape
- ❑ 2-6' Step Ladders

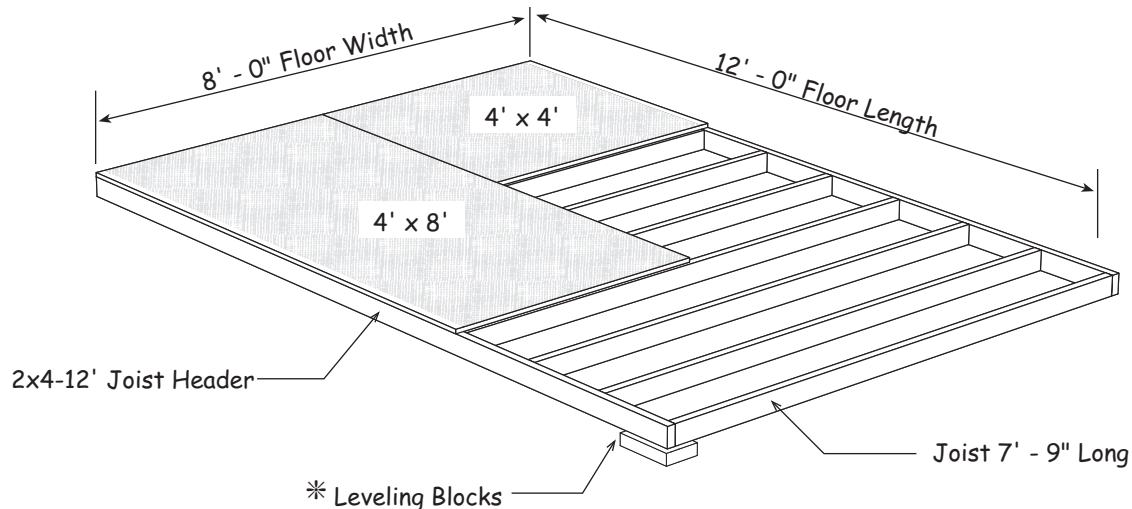**Always wear safety glasses when cutting or nailing!**

Construction Details for Optional Floor System

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. Treated lumber is not cut to exact length. Cut (2) two 2x4-12' boards to 12'-0".
   Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

Joist Header

|← 15-1/4" →| ← 16" → |← 16" →|
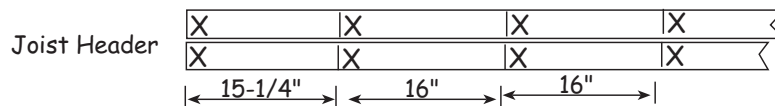
2. Cut 2x4-8' floor joists to a length of 7'-9". *Treated lumber may be thicker than 1-1/2". Take this into account when cutting the length of floor joists. Shorten joist measurements if necessary to obtain 8'-0" building width.*

3. Install the floor joists, *over the 'X' marks*, between the 12' long joist headers. Use 16d galv. deck nails.

8' - 0" Floor Width

12' - 0" Floor Length

4' x 4'

4' x 8'

2x4-12' Joist Header

Joist 7' - 9" Long

✳ Leveling Blocks

✳ *If necessary use bricks, patio stones or similar material to level or provide additional support to the floor. If your ground has low areas consider adding gravel and or 4x4 treated timbers to rest the floor on. If you use 4x4 timbers you will need (3) three pieces 12' long.*

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 (173").

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

Step 1   Assemble Roof 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 insure that all the trusses will be assembled the same.

1. Position a 104" long 2x4 and (2) two 63-1/2" long 2x4s on the floor.

2. Affix 2x4 blocks around the truss members to hold them in place.

1x4 Blocks

63-1/2" Long Truss Boards

104" Long 2x4 Board

Add 1x4 Blocks to Trap Trusses
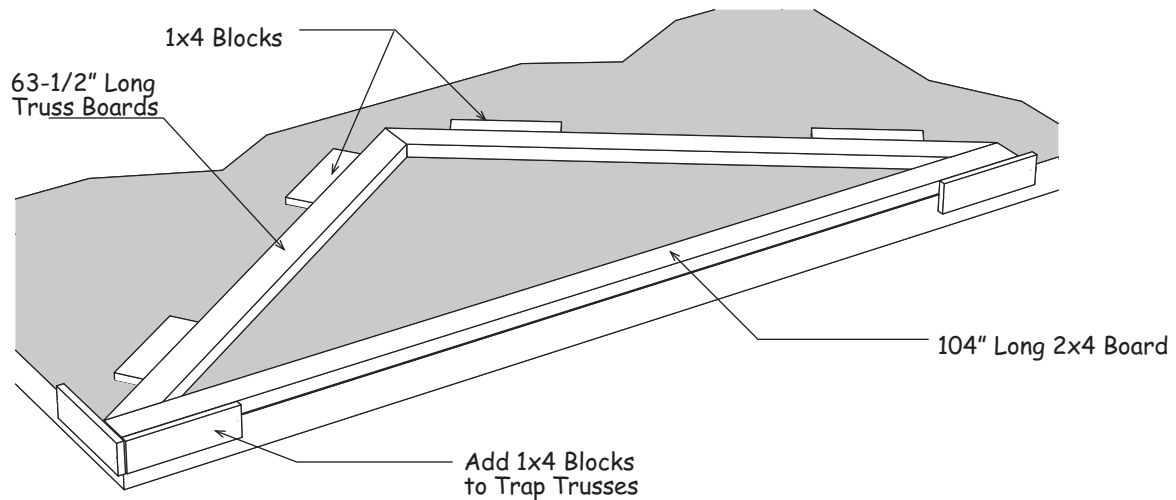
3. Secure the tops together with a wood gusset. Nail the gusset to the 2x4s with 6d common nails. Use 14 nails per gusset. Angle nail slightly so nails do not protrude through the 2x4 boards.

4. Install 12"x12" wood gussets to the ends of the trusses, flush with the end of the bottom 2x4. Use 8 nails per gusset.

5. Turn this truss over and apply wood gussets to the opposite side.
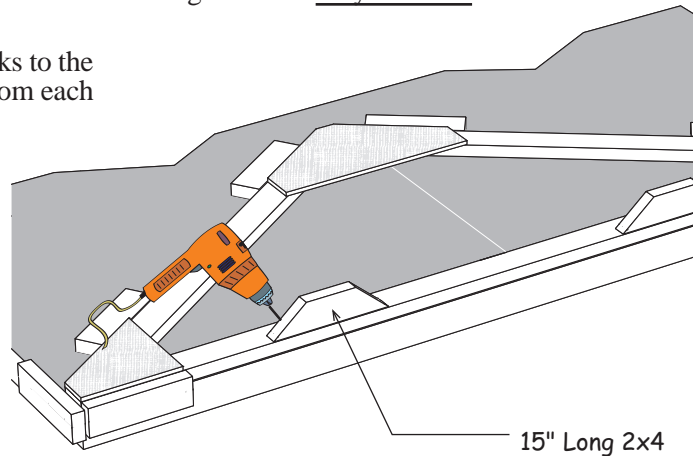
6. Assemble (4) four more trusses.

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

Wood Gusset
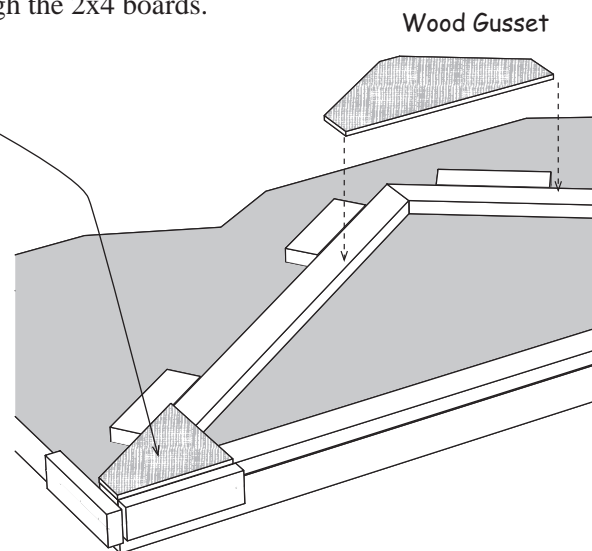
Step 2   Assemble Roof Gables

1. Repeat **Step 1** to assemble another truss. Install gussets on <u>only one side</u>.

2. Install (2) two 15" long 2x4 blocks to the bottom 2x4. Install blocks 24" from each end. Use 2-1/2" long screws.

3. Repeat steps to assemble another roof gable.

15" Long 2x4

Step 3   Assemble (2) Two Front Wall Frames

1. Cut (4) four 2x4-6' boards to a length of 48".

2. Position (2) two 48" long 2x4 boards together and indicate where the wall studs will be located by drawing lines and placing 'X' marks as shown .

48" Wall Plate

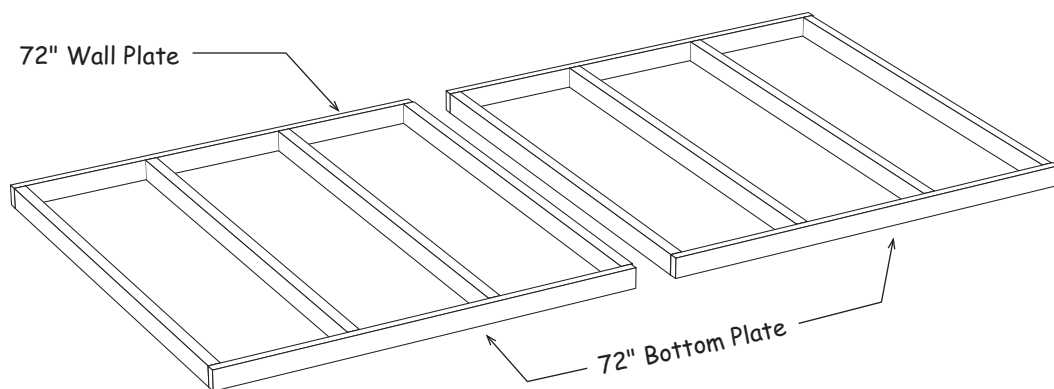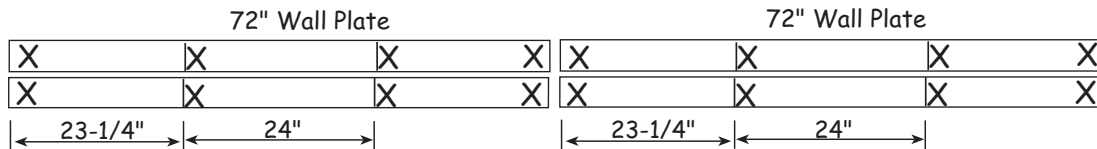| X		X		X	X
X		X		X	X

18"	20-1/2"
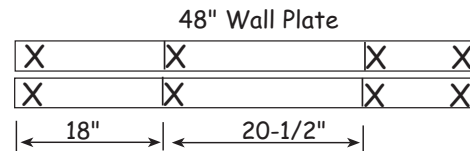
3. Install 72" long wall studs, between the wall plates, over the 'X' marks. Use (2) two 10d sinkers at each end of stud.

4. Repeat to assemble another wall frame.

5. Set these frames aside, the siding will be applied later.
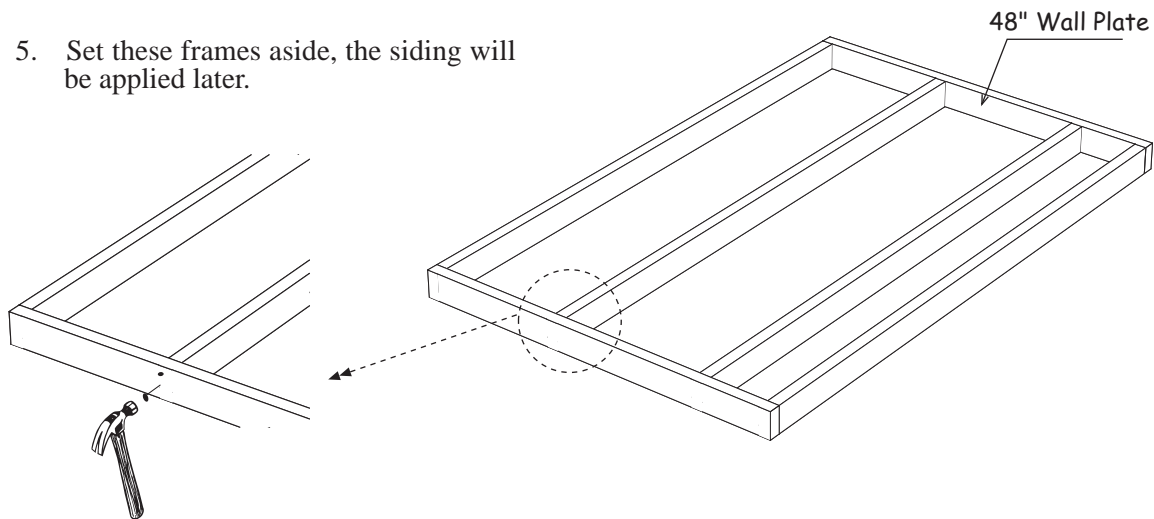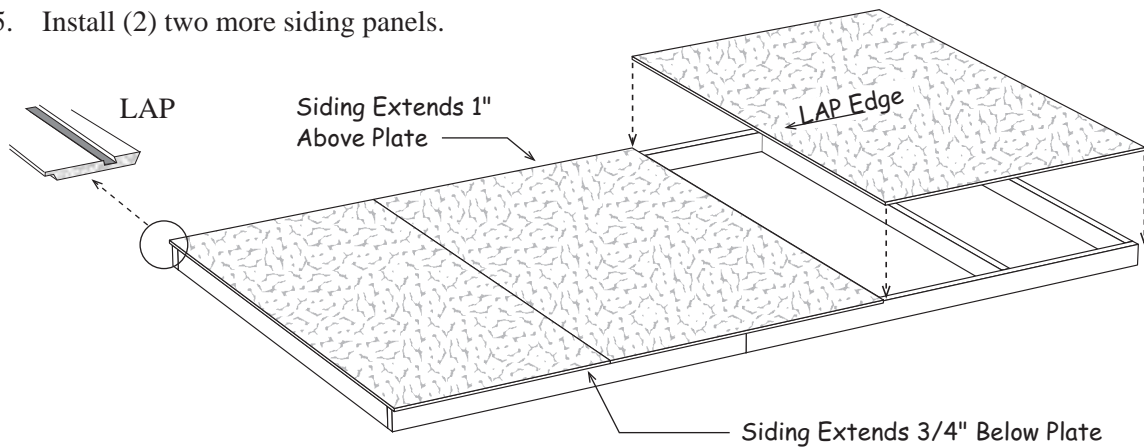
48" Wall Plate

Step 4 Assemble Back Wall

1. Position 72" long 2x4 boards together and indicate where the wall studs will be located by drawing lines and placing 'X' marks as shown below.

72" Wall Plate   72" Wall Plate

X   X   X   X   X   X   X   X
X   X   X   X   X   X   X   X

|← 23-1/4" →|← 24" →| |← 23-1/4" →|← 24" →|

72" Wall Plate

72" Bottom Plate

2. Install 72" long wall studs, between the wall plates, over the 'X' marks. Use (2) two 10d sinkers at each end of stud.

3. Nail both wall frames together using 10d sinkers. Square wall frame (162-3/8").

4. Install the first siding panel with the 'LAP edge' flush with the end of the wall and extending 3/4" below the bottom plate.

5. Install (2) two more siding panels.

LAP

Siding Extends 1"
Above Plate

LAP Edge

Siding Extends 3/4" Below Plate

Step 5   Assemble End Wall

1. Position 89" long 2x4 boards together and indicate where the wall studs will be located.

89" Wall Plate

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

|← 19-3/4" →|← 24" →|← 24" →|
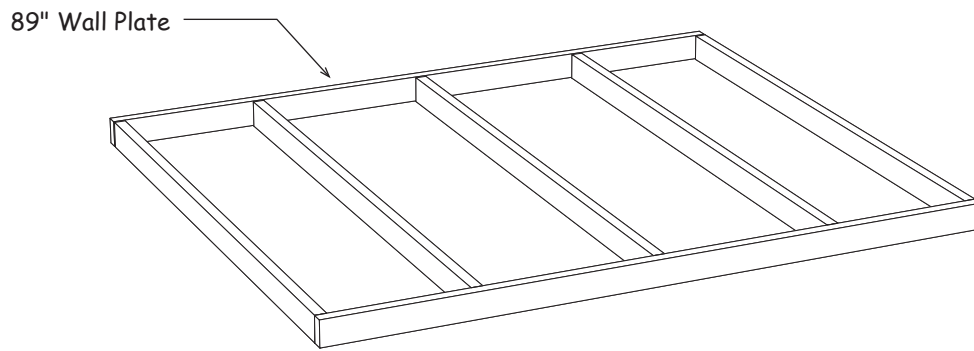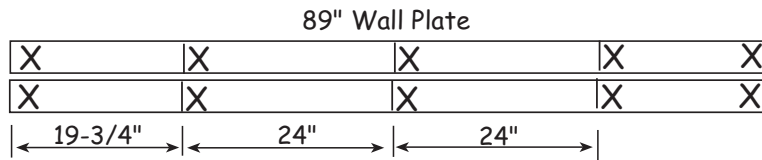
89" Wall Plate

2. Install 72" long wall studs, between the wall plates, over the 'X' marks.
3. Square wall frame (116-3/8").

4. Install a siding panel with the 'LAP' edge extending 3-1/2" past the 2x4 wall frame.
5. Install another siding panel, the siding will extend 3-1/2" beyond wall frame

LAP

Siding Extends 1"
Above Plate

Cut Edge
Extends 3-1/2"

Siding Extends 3/4" Below Plate
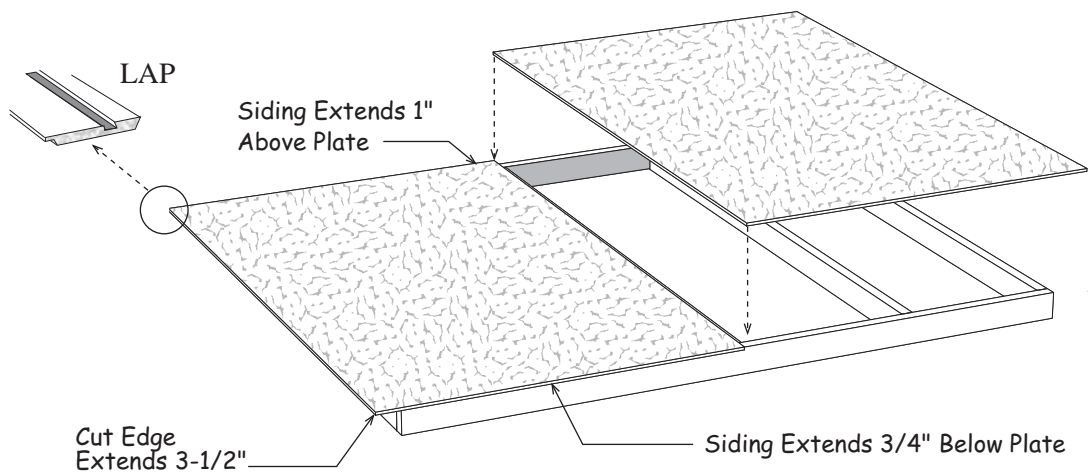
Step 6   Assemble End Wall with Door Opening

1. Install (2) two 72" long wall studs, between 18-3/4" long 2x4 plates.
2. Cut a 72" long 2x4 to 71-1/2" and install at the side of the frame.
3. Repeat to assemble another wall frame.

18-3/4" Long 2x4

71-1/2" Long 2x4
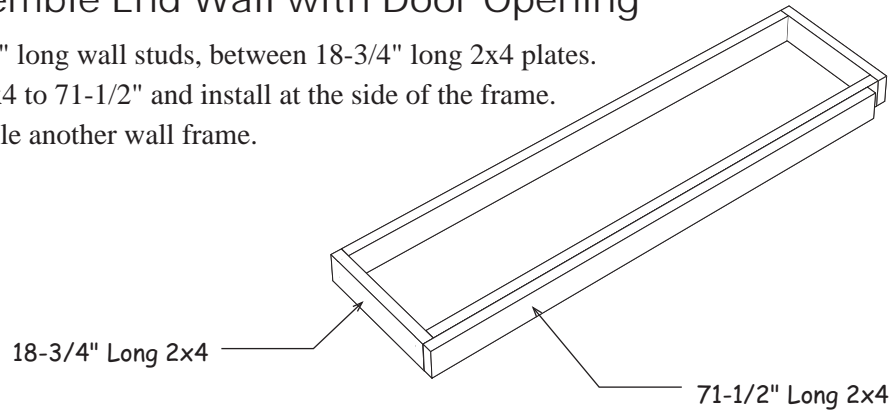
Step 7   Set Back Wall and End Walls

☞   When setting the end walls, you can place the door opening on the right end of the building, *as shown below,* or on the left end.

1. Secure wall panels together at the corners. Use (4) four 10d sinkers per corner. Nail wall panels to the floor using 16d deck nails as was used on the floor. Nail through the bottom plate between the wall studs.

2. Disassemble the shipping pallet and remove the (4) four 2x4s from the pallet. The bit for the screws is in the hardware bag. Use (2) two to brace the walls to hold them straight. Save the other 2x4s and OSB boards, they will be used in a later step.

3. Install the 2x4 door header between the front wall panels. Use (2) two 2-1/2" deck screws on each end of the header.
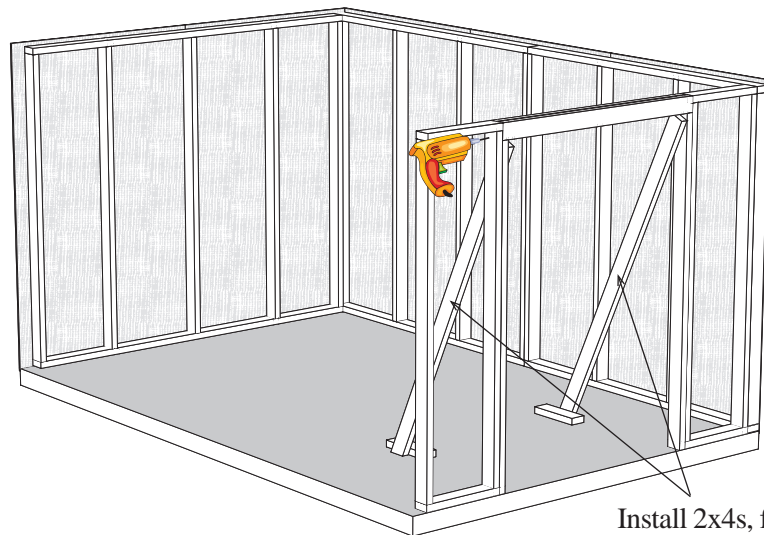
Install 2x4s, from the pallet, to hold the wall straight.

Step 8   Set Front Walls

1.   Select one of the 4' wall frames assembled in **Step 3** and butt the frame against the pre-built wall frame. Do Not fasten these wall together. The small stud space on the 4' frame should be against the pre-built frame.

2.   Install a 48" siding panel on the left frame with the 'LAP Edge' flush with the end of the frame and extending 3/4" below the bottom plate.

3.   Install the siding panel, *with the door opening*, on the pre-built frame. **Do Not** nail along the siding edge so the walls can be separated.


LAP

Remove

Small Stud Space
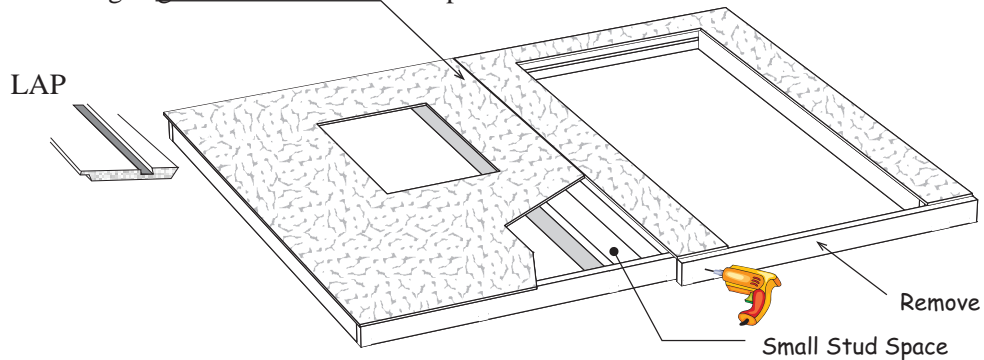
4.   Separate the walls. Remove and save the 2x4 board screwed to the bottom of the pre-built wall panel prior to installing. This 2x4 will be used as a tie plate in **Step 10**.

☞   If you purchased optional windows you can cut the opening now or later. The opening size is 18-3/8" x 27-1/4" high. Suggested height is 36" from bottom.

5.   Install the wall panels sided above. Nail wall together with 10d sinkers.

6.   Install the last 4' wall frame with the small stud space against the center wall panel.

7.   Use the remaining 2x4 from the shipping pallet to brace the front wall.

Small Stud Space
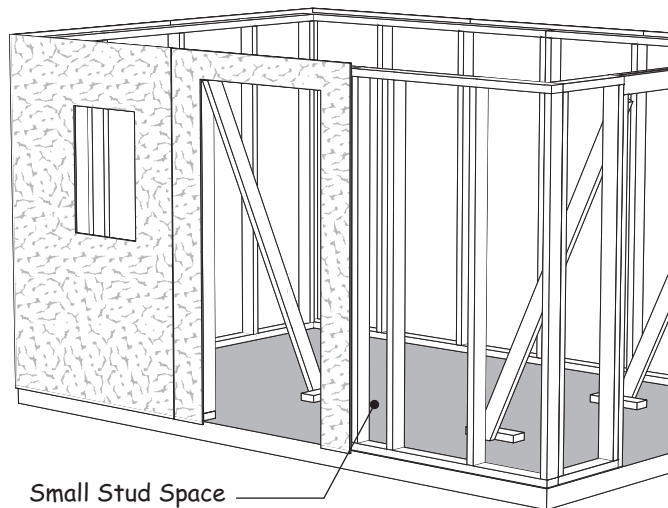
Step 9   Install Siding on End Wall Frames

1. Install a 24-3/4" siding panel with the 'Tongue Edge' on the left corner with the cut edge flush with the front wall siding. If necessary cut siding flush with the door opening.

2. Install a 6-3/4" x 48" siding panel next. The siding will extend 3/4" below the header.
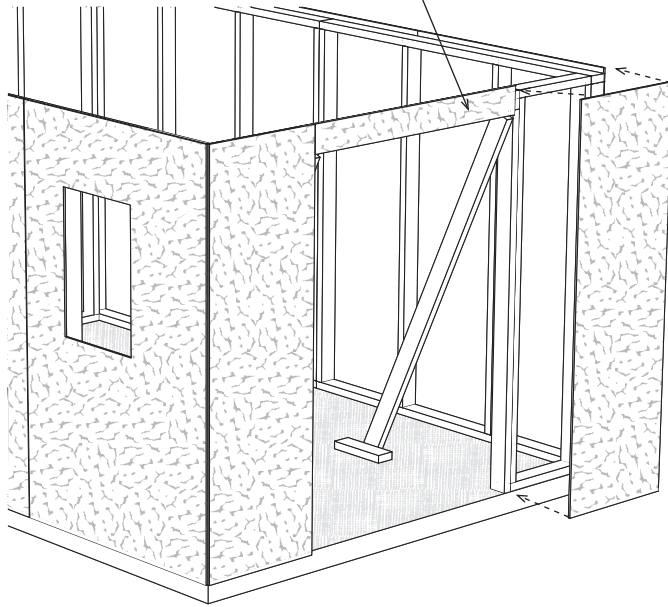
3. Install the last siding panel.

Step 10   Install Tie Plates

1. Install (2) two 48" long 2x4s over the top plate on both end walls. One of the 2x4s was removed from the single door frame. Use 10d sinkers.

48" Tie Plates

104" Tie Plate

33" Tie Plates
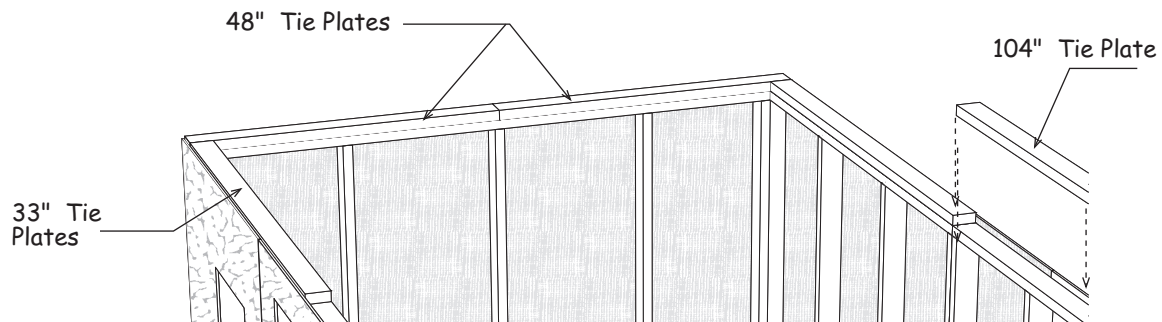
2. Cut a 72" long 2x4 into (2) two pieces 33" in length. Install these 2x4s at the front and back corners of the side walls.

3. Install a 104" long 2x4 against the 33" long 2x4 installed in previous step.

Step 11   Install Roof Gable

1. Install a gable frame on the left end wall. The face of the gable 2x4 should be flush with the 2x4s on the lower wall frame. Secure to end wall with 2-1/2" deck screws. The gable should extend 4" beyond the 2x4 tie plate on the front and back walls.

Inside of Building

4"

2x4 Tie Plate

Wall Stud

←4"→
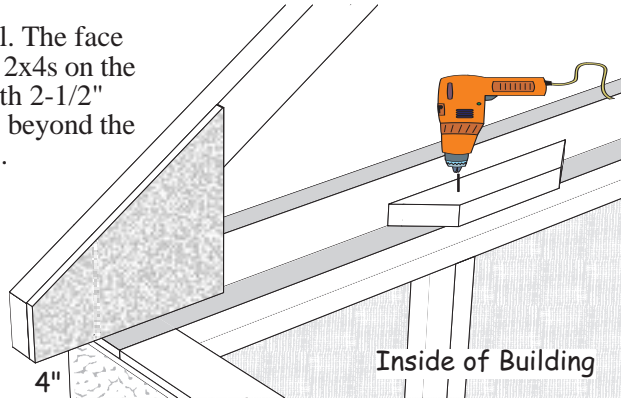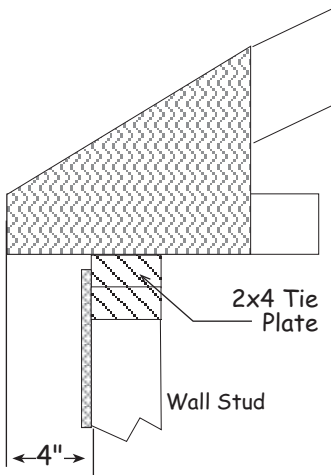
2. Install (2) two 48" pieces of 'Z' flashing across the top of the siding on the end wall siding. Secure in place using 6d galv. nails spaced 12" apart.
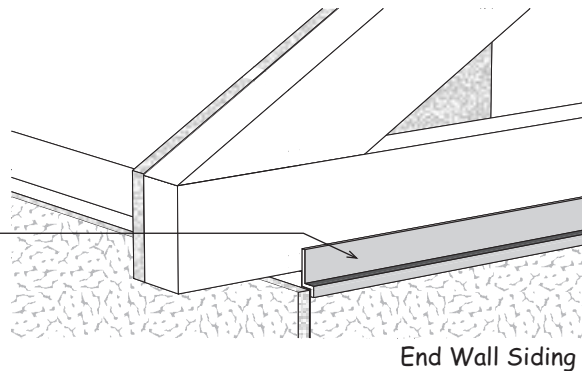
End Wall Siding

Step 12   Install Gable Siding

1. Install a small siding filler on the gable frame. Install a 24" siding panel with the 'Tongue Edge' at the left end of the gable. Use 6d galv. nails spaced 12" apart. The siding will extend above the gable frame to receive the roof sheathing.

2. Install one of the center siding panels..

3. Install another 24" panel.

4. Install 4" siding panels on the ends of the gable. The gable trim will hide where they butt the 24" wide siding so the fit is not important.

LEFT Gable

4" Siding Panel

4" Siidng Filler
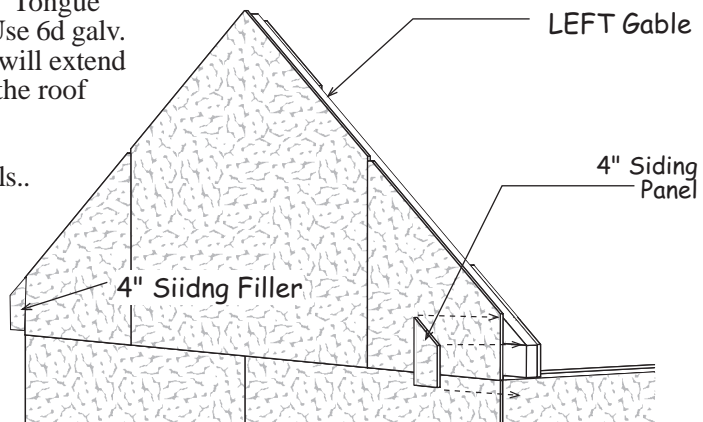
## Step 13   Layout Spacing for Roof Trusses

1. Measure from the face of the wood gusset when marking the location of the first truss. Draw a line and place an 'X' mark to locate where the trusses will be placed. Draw more lines and 'X' marks to space trusses 24" on center.

21-1/4"

24"

Left
Gable

Hangers Installed
Next Step
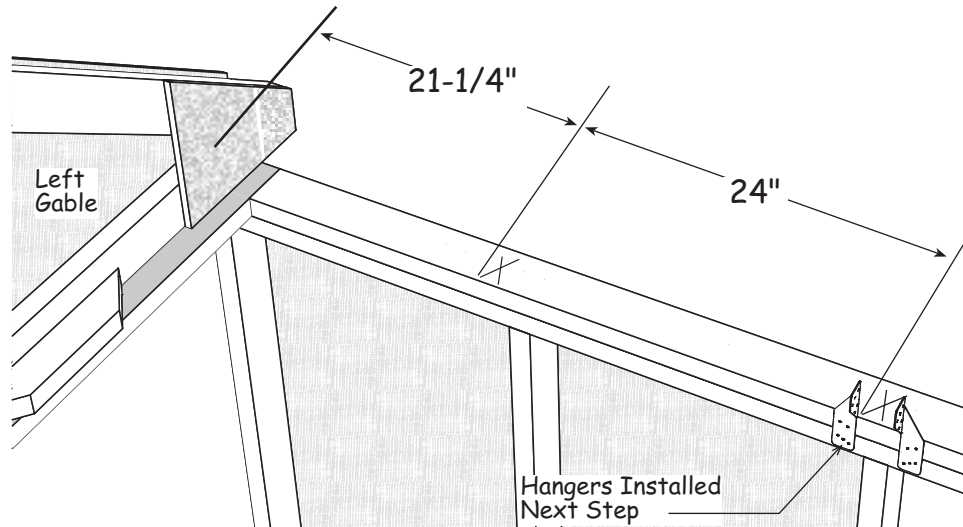
2. Locate the truss hangers, there are left and right hangers. Select the left hanger.

3. Using 6d common nails, install the left hangers to the 2x4 tie plate. The top hanger flange should line up with the line next to the 'X' mark. Installing the right hanger now will aid in keeping the trusses upright. Install the right hanger with a 2-3/8" space between the hangers.

Top Flange

Long Side Nailed
to Wall Plates
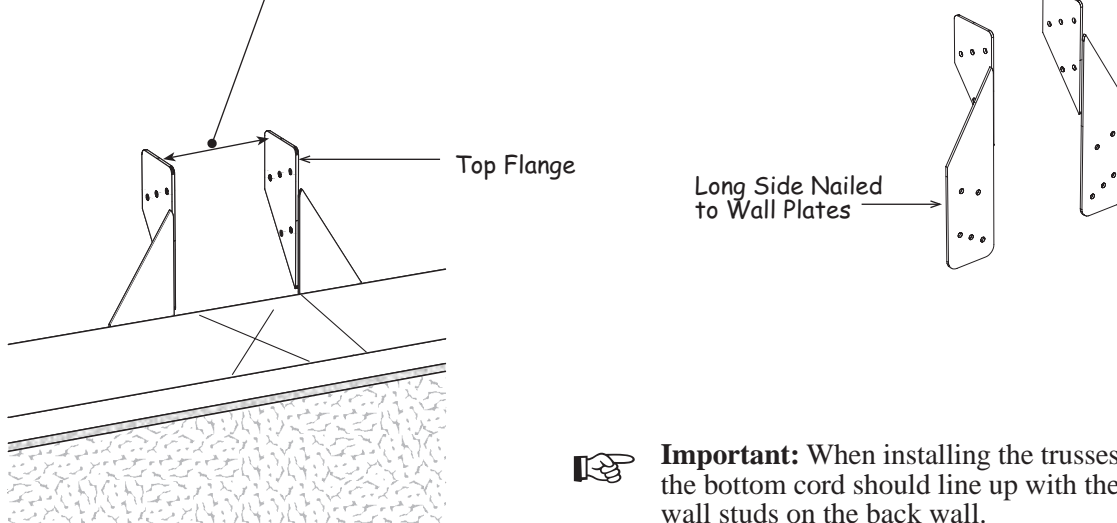
☞ **Important:** When installing the trusses the bottom cord should line up with the wall studs on the back wall.

Step 14   Install Trusses

1. Install truss hangers on the back and front wall.

2. Set the first truss between the hangers and secure with 6d common nails.

3. Set the rest of the trusses and install the roof gable and 'Z' flashing on the right end wall.

2x4 Tie Plate

Bottom Cord
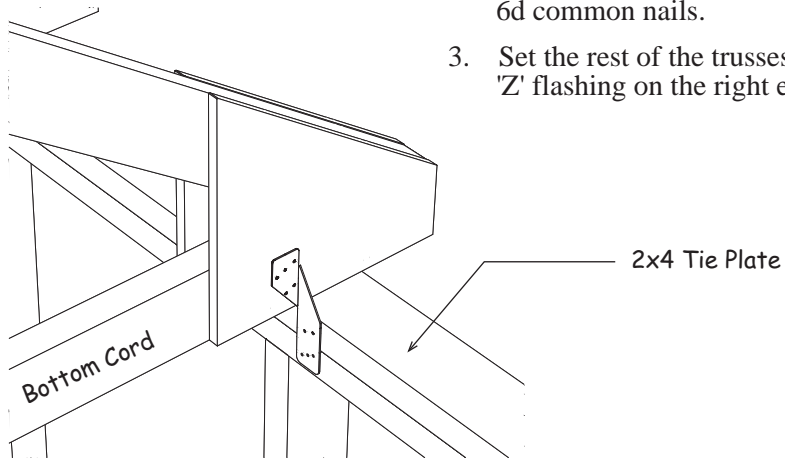
Step 15   Install Loft Floor

1. Install (2) two 15-1/2" x 48" and a 48"x48" OSB panels over the bottom 2x4 of the trusses and roof gable. Use 7d sinkers, spaced 16" apart.

4x4 Loft Floor

2. Repeat to install loft flooring at the opposite end.
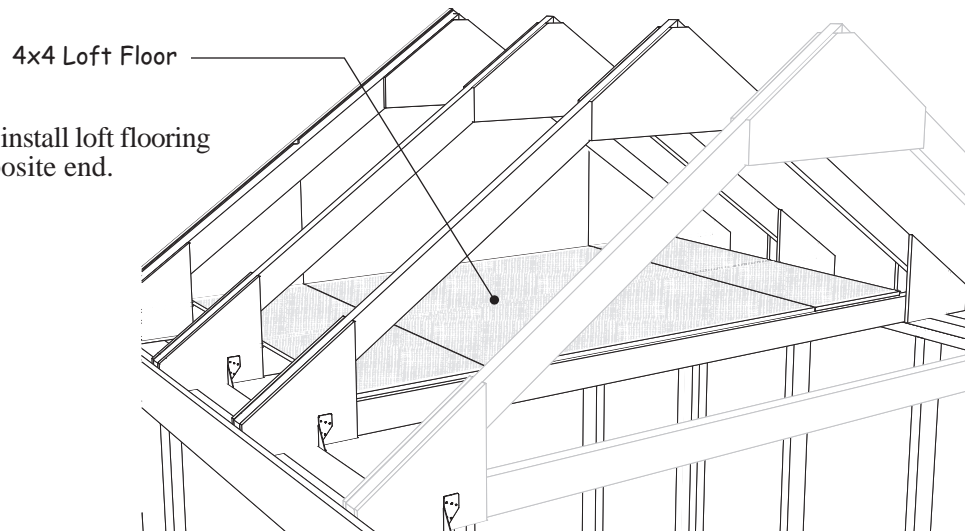
Step 16   Install Roof Sheathing

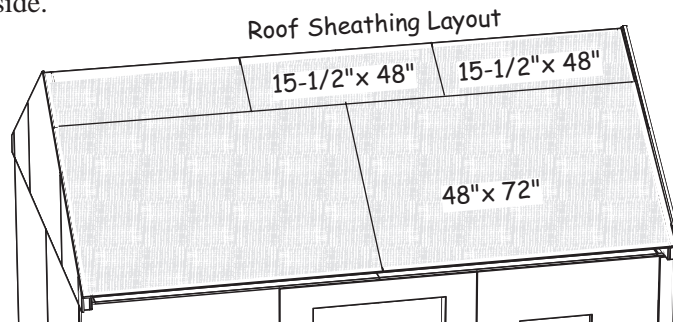1. The gable and trusses should be plumb before installing the roof sheathing . Install a 48" x 72" piece of roof sheathing on the lower left corner. The sheathing should start in center of the 3rd truss and 16-1/2" from the peak of the trusses. Use 7d sinkers, spaced 12" apart.

2. Install a 15-1/2" x 48" roof panel at the top. The top row of roof sheathing will be about 1" below the ridge to allow for optional ridge venting. See detail below.

16-1/2"

15-1/2" X 48"

48" X 72"
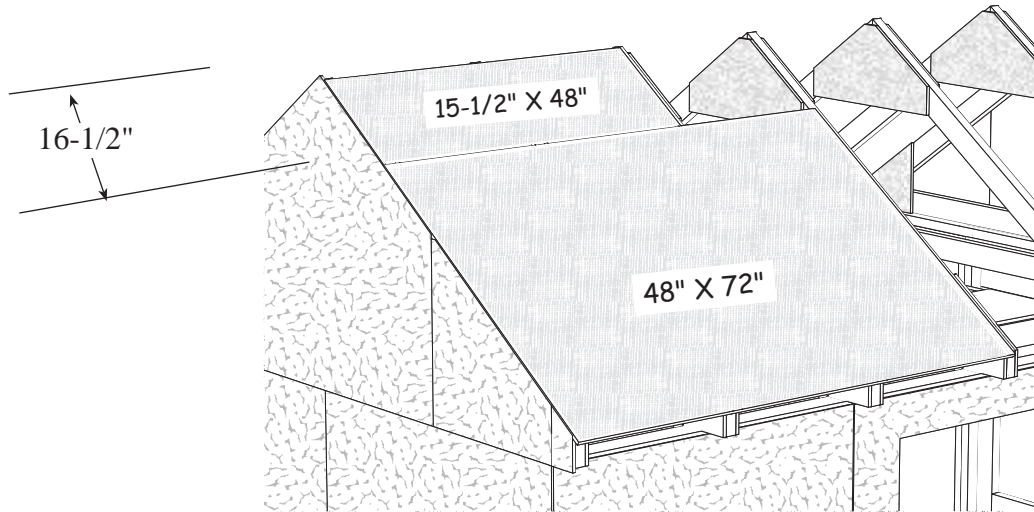
3. Install roof sheathing per the layout below.

4. Install sheathing on the opposite side.

Building Tip; If you are installing metal roof panels, you may want to install metal panels on the front roof area before installing the roof sheathing on the back side. This will provide a working space to stand when installing the front metal panels.

Roof Sheathing Layout

15-1/2"x 48"   15-1/2"x 48"

48"x 72"

Optional ridge vent provides ideal ventilation.

Shingles

Truss

Air
Space
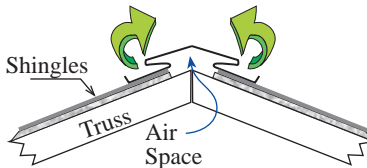
The upper row of roof sheathing will not reach the peak to allow for ventilation if ridge vent is installed.

Step 17   Install Soffit

Install 4" x 48" soffit panels under the truss
overhang on the front and back.
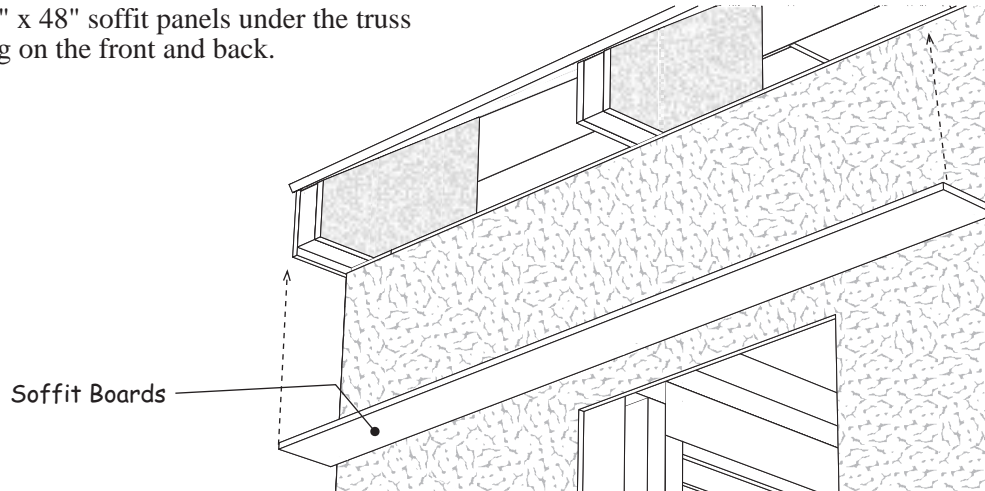
Soffit Boards

Step 18   Install 1x6 Gable & Fascia Trim

1.   Install 63-1/2" long 1x6 gable trim flush with the top of the roof sheathing.
     Use 8d galv. nails.

1x6 Gable Trim
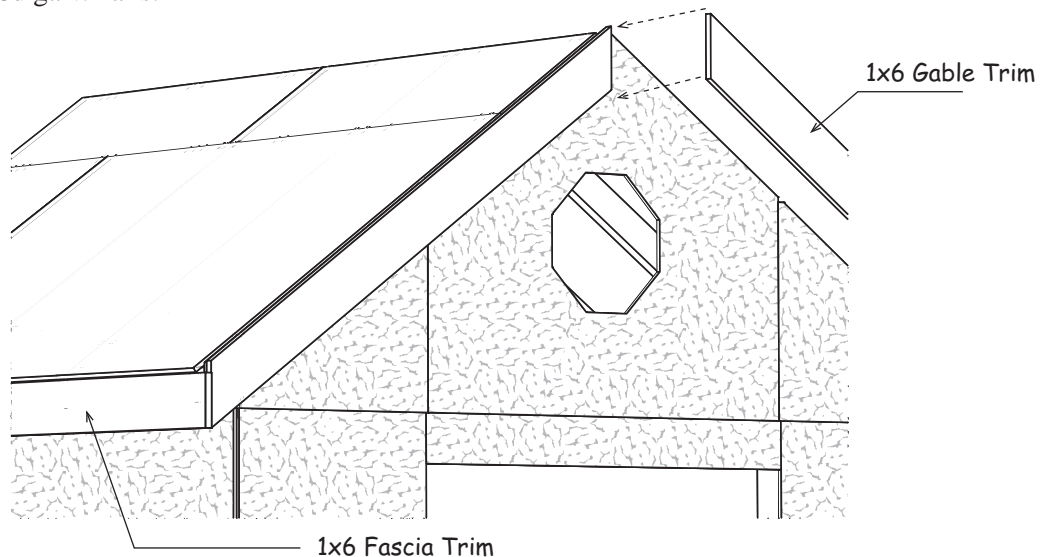
1x6 Fascia Trim

☞ *If you are installing metal roof panels install 1x6 fascia after roof panels are installed.*

2.   Install 1x6 fascia trim over the ends of the trusses. Cut a 7 4" long 1x6 trim board to
     fit flush with the 1x6 gable trim and the center of the middle truss. Use 8d galv nails.

3.   Install 14" octagon window in gable using white screws.

Step 19   Install Trim

60" Long 1x3 Door Trim

1. Install 76-3/4" long 1x3 trim boards
    on the corners of the front and back
   walls. Install trim boards flush with
    the face of the siding on the end walls.
    If necessary, notch trim boards to
    extend under the gable siding. Install
    all trim with 8d galv. nails spaced 12"
    apart.

72" Long 1x3
Trim Boards

2. Install 79" long 1x4 trim on the end
    wall flush with the face of the corner
    trim installed above.

3. Install 1x3-72" boards along each side
    of the door opening, flush with the bottom
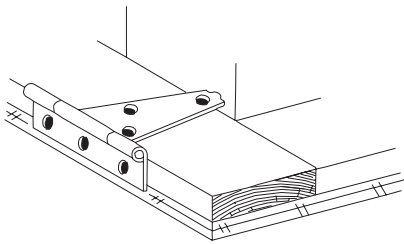   edge of the siding.
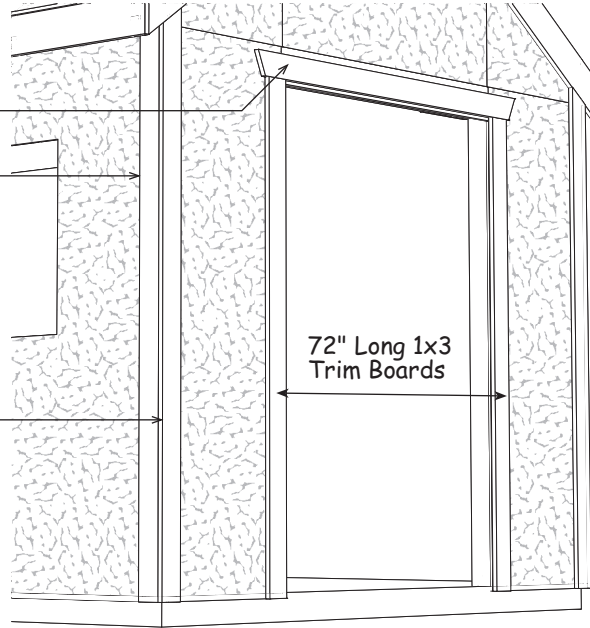
    Tack these boards with a couple nails; you may want to move the trim later when
    you install the doors. Use 8d galv. nails.

4. Install 60" long 1x3 trim, *with angled ends*, resting on the door trim installed above.
    The siding over the door opening will extend 3/4" below the trim to serve as a door
    stop when the door are installed.

5. Install the remaining trim around the door opening on the front wall.

Step 20   Install Door Hardware

1. Locate the door marked (Single) on the back door frame. Lay this door on a level surface
    with the trim facing up. Depending on which way you want the door to swing, install (3)
    three 4" hinges on the left or right side of the door. To position the hinge properly, hold the
    rectangular plate against the frame. Use 1-3/4" black screws.
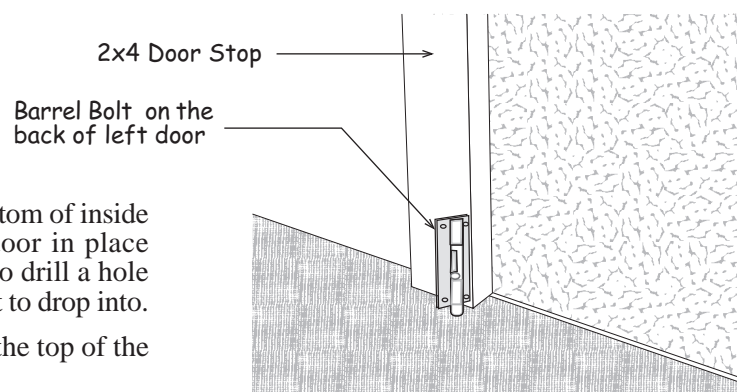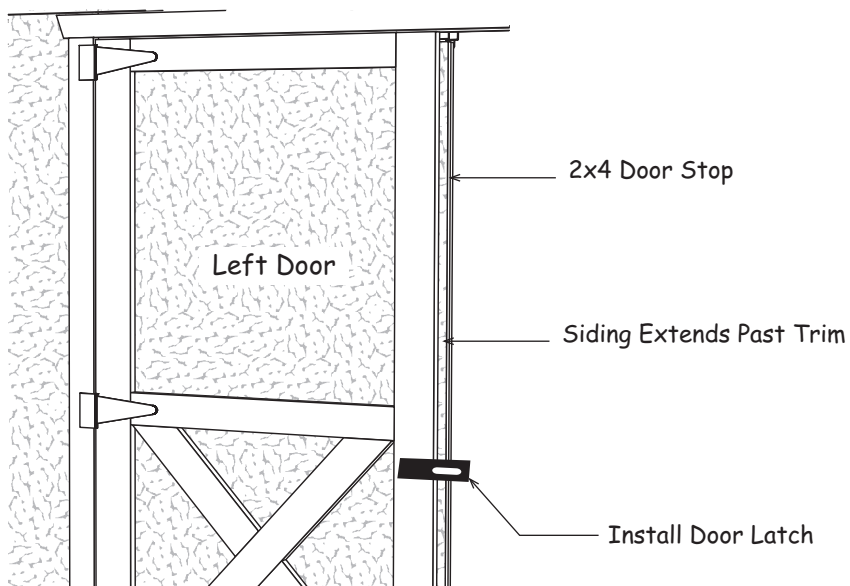
2. Lay the left door with the trim facing up. The
    siding on the left door extends past the door trim.
    See detail below.

3. Install 4" hinges to the left side of the door frame.

4. Install hinges to the right side of the other door.

Step 21　Install Doors

1. 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. Use OSB shim to support bottom of doors.

   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.

2. Install hinges to trim with 2" black screws.

2x4 Door Stop

Left Door

Siding Extends Past Trim

Install Door Latch

2x4 Door Stop

Barrel Bolt on the
back of left door

3. Install a barrel bolt on the bottom of inside of left door to secure this door in place when closed. You will need to drill a hole in the floor for the round shaft to drop into.

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

5. Install 28" door using the remaining door hinges and latch.

Step 22   Install Roofing — Not Supplied in Kit

☞   If you purchased our optional pre-cut metal roof package follow
the instructions included with the kit.

1. Install metal roof edging <u>perimeter of
the roof area</u>. 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.

1x6 Gable Trim

Felt
Paper

1x6 Fascia
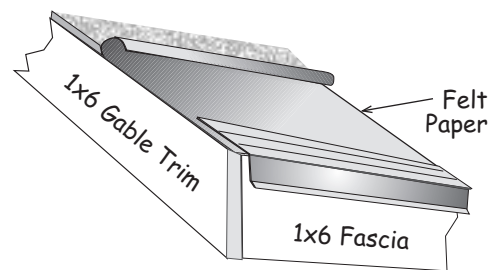
2. Install shingles according to the instructions on the wrapper. If you need more
detailed instructions on installing shingles, there are good publications at book stores
or newsstands.

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

*Optional ridge vent provides
ideal ventilation.*

Shingles

Truss   Air
Space
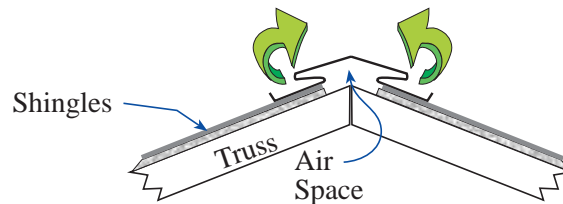
You will need to purchase.

☐ 5   Bundle roof shingles with nails.

☐ 5   Pieces roof 'drip' edge.

Regency 8' x 12' Shed Kit

☞ *Packing List For Material Shipped in Cardboard Wrap*

2	2 x 4	89"	Wall Plates
9	2 x 4	104"	Bottom Cord - Trusses & Tie Plates

September 7, 2016

☞ *Packing List For Material Shipped on Pallet*

	2x4 Framing & Trim				
36	2 x 4	72"	4	1 x 4	79"
14	2 x 4	63-1/2"	4	1 x 3	76-3/4"
3	2 x 4	48"	4	1 x 3	72"
4	2 x 4	18-3/4"	1	1 x 3	60"
4	2 x 4	16"	1	1 x 3	35-1/2"
4	1 x 6	74"	4	1 x 6	63-1/2"
4	2 x 4 - 80" Attached to Shipping Pallet				
8	1 x 4 - 10" to 12" Blocks used for truss jig				

	Pre-Built Components	
1	Pre-built Wall Panel 48" x 75"	
1	Barn Door	28" x 72"
2	Barn Doors	24" x 72"
1	Door Header	3-1/2" x 51-1/2"

	7/16" OSB Sheathing		
4	48" x 72"		
2	48" x 48"	10	15-1/2" x 48"

	Hardware			
2	Door Latch	3	lb. 10d Sinkers
9	4" Hinges w/screws	3	lb. 8d Galv.
2	6" Barren Bolt	3	lb. 7d Sinkers
20	Truss Hangers	3	lb. 6d Common
25	2-1/2" Deck Screws	1	lb. 6d Galv.
1	14" Octagon Wd.	2	Bits for screws

	Miscellaneous Material	
12	Wood Gussets for Trusses	11-3/4" x 23-3/4"
24	Wood Gussets for Trusses	11-3/4" x 11-3/4"
6	LP Primed Soffit Panels	3-7/8" x 48"

	LP Primed Siding			
8	48" x 76-3/4"	*1 Panel with door cutout*		
2	24" x 76-3/4"		1	6-3/4" x 48"
2	Gable Siidng - Center		48" x 41"	
4	Gable Siidng - L & R Sides		24" x 23-1/2"	
4	Gable Siidng - End Fillers		4" x 7-1/4"	