

# **IMPORTANT INFORMATION ABOUT YOUR SHED KIT**

This manual will show the assembly for the Arlington building kit. See back page for the breakdown of this material. If you received duplicate books, use the one with the latest revision date. **The foundation is 12'-0'' x 23'-9''. Do Not make the foundation larger.** 

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 siding, roof sheathing, long framing material and optional floor *if ordered*, will be delivered by a local supplier. The breakdown of this material is listed on the back page. Check to see if you received the correct amount of material before the driver leaves and note any shortage.

The 12' material was shipped in (5) five cardboard packages. The shorter lumber is shipped on a small pallet. Stacking the boards, according to size, will make them easier to find when needed. **Do Not** discard any material, *no matter how small*, until your building is complete.

Paint the bottom edges of the siding around the perimeter of the building. Keep dirt, grass, mulch, snow and similar substances away from the lower part of the siding. The siding manufacturers generally recommend 8" or more of clear space.

Before you begin construction, study this assembly manual. Also, obtain a building permit and check all pertinent building code regulations.

Thank you for your purchase.

Bill & Linda Rinella, owners

LAP Edge

#### **Exterior Siding**

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.

# Tool List

- ge lv. Tongue Edge
- Hammer & Phillips Screwdriver
- Framing Square & Level
- Hand or Circular Saw

Power Drill/Screwdriver

Measuring Tape

ircular Saw 🔲 2-8' Step Ladders & Ladder Jacks

Always wear safety glasses when cutting or nailing!

#### Constructing Details for 12'x24' Deluxe Floor System

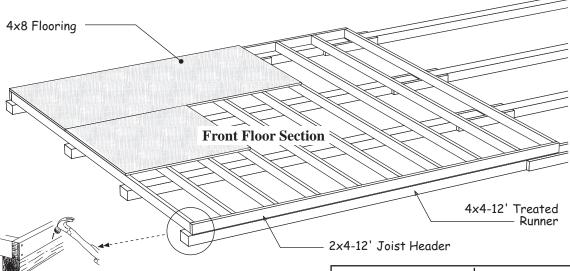
Deluxe floors include 4x4 runners, standard floors do not

**Foundation size is 12'-0'' x 23'-9''.** Check local building codes in your area, the construction may have to change. For a concrete slab, install sill sealer as a moisture barrier between the concrete and the wall plates. Foam sill sealer can be purchased at home centers in rolls 3-1/2" or wider.

- 1. Cut (20) twenty 2x4-12' treated boards to 11' 8-7/8". These will be the floor joists.
- 2. Place 4x4-12' treated timbers on the ground. Cut (2) two 2x4-8' boards into 2' long blocks to secure the 4x4s where they butt together.
- 3. Cut (2) two 2x4-12' to a length of 12' -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.

<u>₊15-1/4</u> ",	↓ <u>16"</u>	<b>↓ 16"</b>		
	X	X	X	x 〈
	X	Х	Х	x

- 4. Install the floor joists cut above between the 12' joist headers. Secure with 16d galv. deck nails.
- 5. Place floor sections over the 4x4s. Square floor assembly. Measure the floor diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the floor is square. To keep the 2x4 frame from moving, toenail frame to the 4x4 runners.



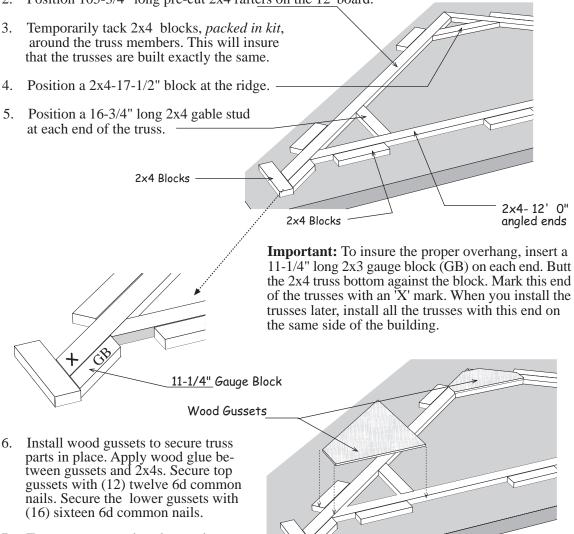
Assembly Instructions for Rear Floor Section

- 6. Cut (2) two 2x4-12' to a length of 11' -9". Layout for 16" joist spacing, *see above*.
- 7. Install floor joists between the joist headers. Square the floor section. Install this section, with the 16'' spacing, against the section assembled above.
- 8. Install 4x8 flooring over the 2x4s. Use 8d galv. spiral nails.

Material Description	12' x 24'		
2x4 Blocks	2 pcs. 8'		
2x4 Joist Headers	4 pcs. 12'		
2x4 Floor Joist	20 pcs. 12'		
4x4 Treated Runners	8 pcs. 12'		
Flooring 5/8" or 3/4"	9 pcs. 4x8		
Screw Floor Nails	4 lb. 8d		
Galv. Box Nails	5 lb. 16d		

### Step 1 Assemble Roof Trusses

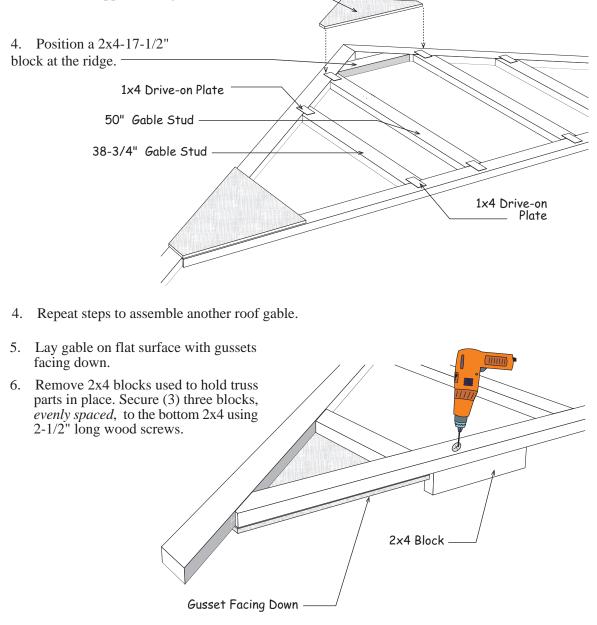
- 1. From our 12' long lumber carton, locate a 2x4-12' board that has angle cuts on both ends. Use this boards as a pattern and cut two (2) more boards from the 12' long 2x4s supplied from the home center material. Use these boards along with the ones in the carton for the bottom cords of the trusses.
- 2. Position 105-3/4" long pre-cut 2x4 rafters on the 12' board.



- 7. Turn truss over and apply wood gussets to the opposite side of the trusses.
- 8. Repeat process to assemble (10) ten more trusses. Do Not remove the 2x4 blocks around the perimeter of the truss until the gables are assembled in the next step.

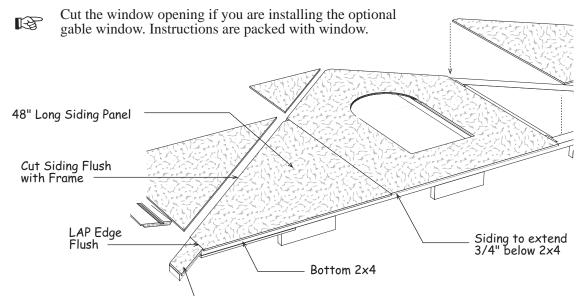
# Step 2 Assemble Roof Gables

- 1. Select another 12' long 2x4, *with angle cuts on both ends*. Install pre-cut rafters and bottom gussets as in previous step. Install the bottom gussets on one side only.
- 2. Install 38-3/4" and 50" long 2x4 gable studs. Secure gable studs with 1" x 4" metal drive-on plates.
- 3. Install the upper wood gusset, on one side. -



# Step 3 Install Siding on Gables

- 1. Cut a 4x8 siding panel in half creating (2) two 48" siding panels. Install one of the pieces with the 'LAP' edge flush with the end of the bottom 2x4 board and extending 3/4" below the bottom 2x4. Cut siding flush with the top of the gable frame. Secure with 6d galv. nails.
- 2. Cut a 4x8 siding panel to a length of 66-1/2". <u>Save the cutoff</u>. Install the siding in the center. Cut siding flush with the top of the gable frame.
- 3. Install the remaining 48" siding panel on the end of the gable.



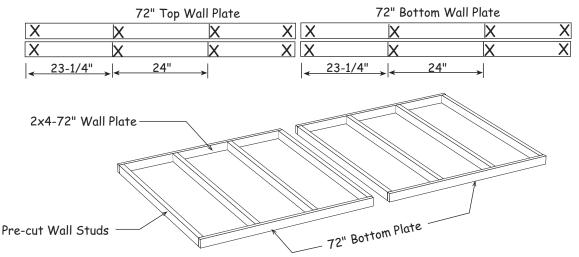
- 4. Cut siding and install on the ends of the gable. The siding should extend 1/2" below the 2x4 to receive the soffit when installed later.
- 5. Repeat to install siding on the rear gable.

#### Step 4 Install Gable Overhang

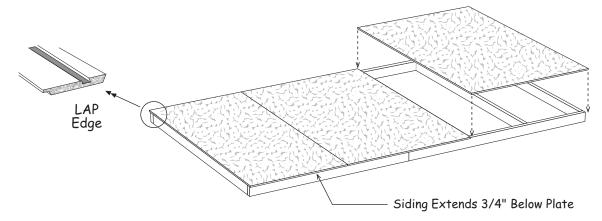
 Install (2) two 105-3/4" long 2x4 rafters on the front gable. Install 2x4s extending <u>1/2" above the top</u> of the gable frame to receive the roof sheathing when applied in a later step.
Repeat to install 2x4s on the rear gable.

#### Step 5 Assemble 12' Back Wall (without door opening)

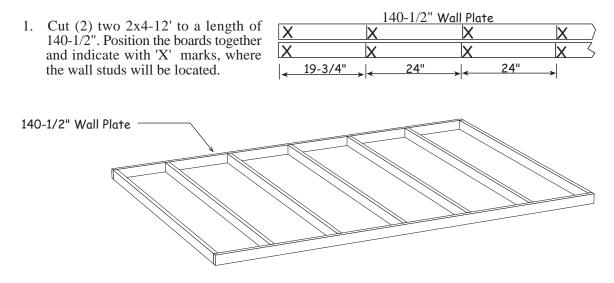
1. Position (4) four 2x4-72" boards together and indicate with 'X' marks, where the wall studs will be located.



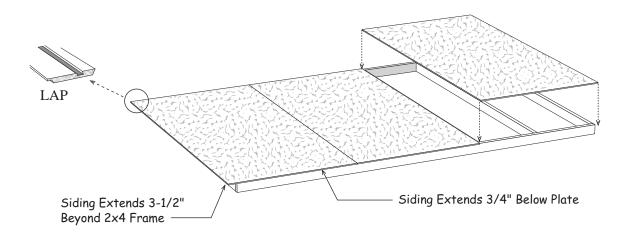
- 2. Install pre-cut wall studs between the top & bottom plates. Pre-cut wall studs will be 92-5/8" or 92-1/4" in length. Nail studs to wall plates with 10d sinkers, (2) two nails on each end.
- 3. Nail both wall frames together. Use 10d sinkers.
- 4. Square wall frame. Measure the wall diagonally (corner to corner). Then measure the opposite corners. These measurements will be the same if the wall is square.
- 5. Install the first siding panel with the 'LAP edge' flush with the end of the wall and extending 3/4" below the bottom plate. Tip: Use a 1x4 trim board as a gauge. Nail siding with 8d galv. nails, spaced 12" apart.
- 6. Install (2) two more siding panels. Cut the last panel flush with the end of the frame.



# Step 6 Assemble 140-1/2" Long sidewall



- 2. Install pre-cut wall studs between the top and bottom plates.
- 3. Square wall frame. Install the first siding panel with the 'LAP edge' extending 3-1/2" beyond the end of the wall and extending 3/4" below the bottom plate.
- 4. Install (2) two more siding panels.

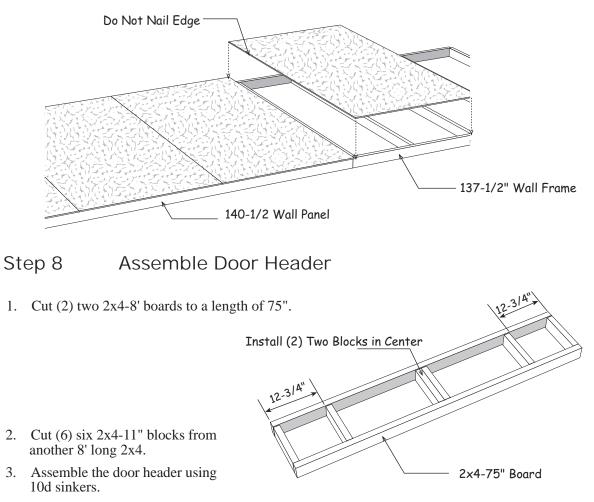


# Step 7 Assemble 137-1/2" Long Sidewall

1. Cut (2) two 2x4-12' to a length of 137-1/2". Position the boards together and indicate with 'X' marks, where the wall studs will be located.

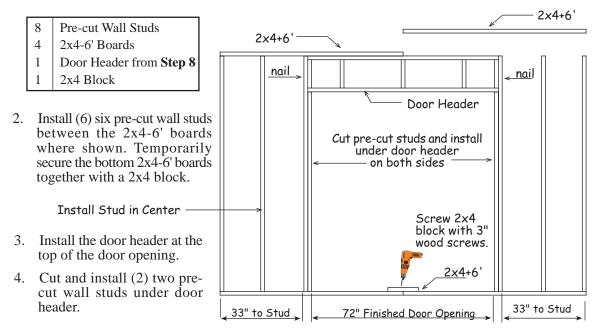
	137-1/	/2" Wall Plate	
Х	Х	X	X
Х	X	X	<b>x</b> 5
< 23-1/	4"→ ← 24	<u>₩</u> →  <del>&lt;</del> 24	

- 2. Install pre-cut wall studs between the top & bottom plates.
- 3. Butt wall farme to wall panel from previous step. **Do Not** nail these frames together so they can be separated later.
- 4. Install a siding panel but do not nail along the long edge that overlaps the other wall frame. You can nail this edge after the wall panels are installed. This will enable you to separate the wall panels making them easier to handle. Install another siding panel.
- 5. Cut the last siding panel to a width of 45". The last panel will extend 3-1/2" past the frame.

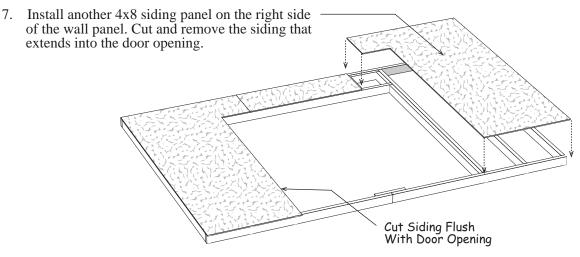


## Step 9 Assemble 12' Front Wall (with door opening)

1. Gather the material listed below to assemble the door wall.



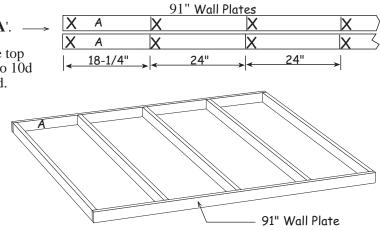
- 5. Install a 4x8 siding panel on the left side of the wall panel. Before you install the siding, cut and remove the siding that extends into the door opening.
- 6. Install a siding panel, leftover from **Step 3**, above the door opening.



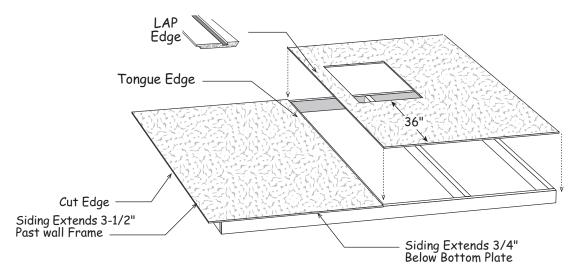
#### Step 10 Assemble Sidewall Ends

- 1. Cut (2) two 2x4-8' boards to a length of 91". Position the boards together and indicate with 'X' marks where the wall studs will be located.
- 2. Mark this end with the letter 'A'. —

3. Install wall studs between the top and bottom plates. Use (2) two 10d sinkers at each end of the stud.

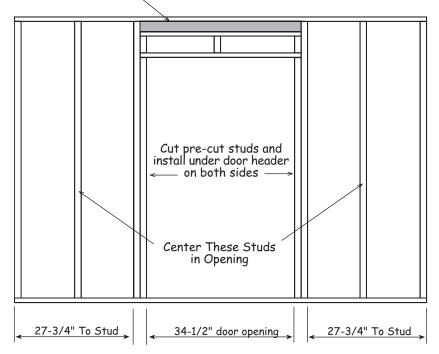


- 4. Measuring from the 'tongue edge', cut a siding panel to a width of 46-1/2". Install this panel with the cut edge extending 3-1/2" past the left end of the wall frame. The siding should extend 3/4" below the wall plate.
- 5. Install a full width siding panel.
- 6. Locate where you want the window and cut the opening. Instructions are packed with windows.
- 7. Build another 91" wall frame <u>Do Not</u> apply the siding on this wall frame. This will be sided later for the right sidewall end.



### Step 11 Assemble Center Frame

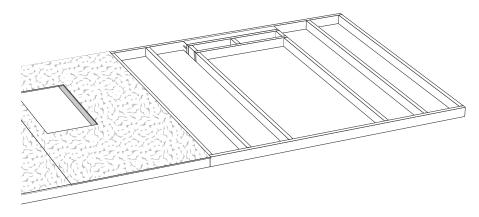
- 1. Install (6) six pre-cut wall studs between 8' long 2x4s. Use measurements below.
- 2. Install a pre-built <u>door header</u>, *packed in dormer carton*, between the center wall studs.



3. Cut (2) two pre-cut 2x4 studs and install under the door header.

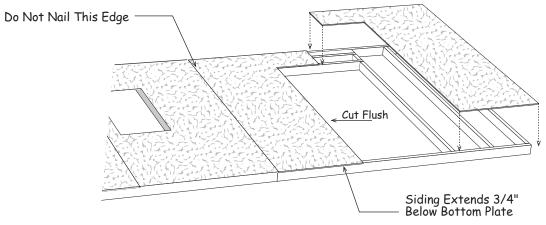
# Step 12 Fasten Left Sidewall and Center Frame

1. Select the wall frame, with siding, assembled in Step 10. Butt the wall frame against the 8' center wall frame. DO NOT nail these frames together so they can be separated later.



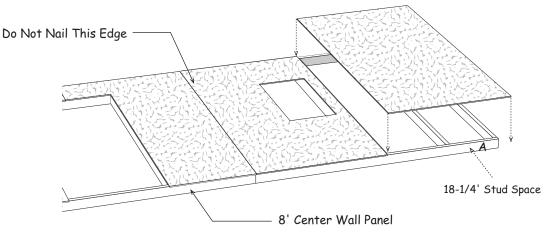
### Step 12 Fasten Left sidewall and Center Frame continued

- 2 Square the wall frame. Install a full width siding panel but do not nail along the long edge that overlaps the left wall panel. You can nail this edge after the wall panels are installed. This will enable you to separate the wall panels making them easier to handle. Cut the siding out of the door opening, flush with the side frame and top header.
- 3. Install another siding panel. Cut out the door opening.



### Step 13 Apply Siding to Right Sidewall

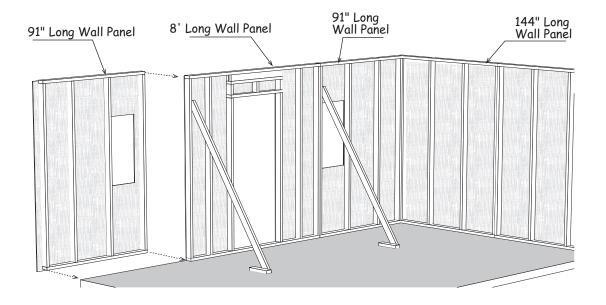
- 1. Select the wall frame assembled in **Step 10**. Butt the wall frame against the 8' center wall with the smaller 18-1/4" stud space placed on the end. DO NOT nail these frames together so they can be separated later.
- 2. Square the wall frame. Install a full width siding panel but do not nail along the long edge that overlaps the 8' wall panel. You can nail this edge after the wall panels are installed.
- 3. Cut a siding panel to a width of 46-1/2", <u>cutting off the 'tongue edge</u>'. Install the siding panel will extend 3-1/2" past the end of the wall frame.



### Step 14 Set Wall Panels

1. Set the back wall panel, *without the door opening*, between the 91" long sidewall panel. Secure wall panels together at the corners. Use (4) four 10d coated nails per corner. Nail wall panels to the floor. Nail through the bottom plate. Space 10d sinkers 24" apart.

- 2. Next install the 8' long center panel. Do not nail 2x4 in door opening. Nail along siding edge where panels overlap.
- 2. Next install 91" wall panel. Nail along siding edge where panels overlap.
- 3. Use pre-cut wall studs to hold the sidewall straight.

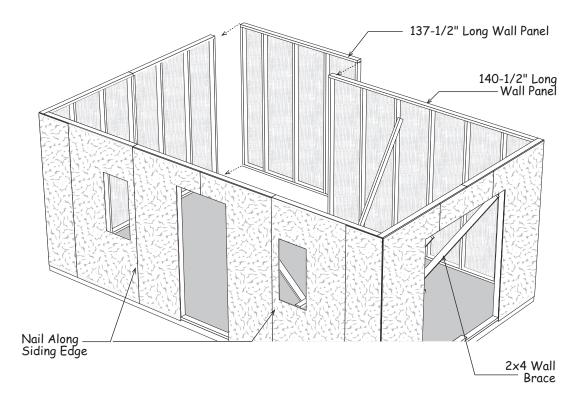


### Step 14 Set Wall Panels Continued

1. Set the front wall at end of sidewall. Do not nail 2x4 in door opening. Brace where necessary.

2. Next install 140-1/2" panel.

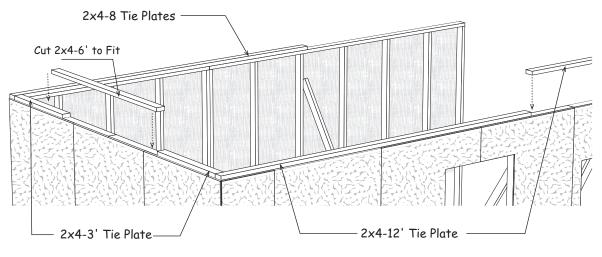
3. Next install 137-1/2" panel. Nail along the siding edge where the sidewall panels overlap.



4. Cut and remove the bottom 2x4 in both door openings.

#### Step 15 Install 2x4 Tie Plates

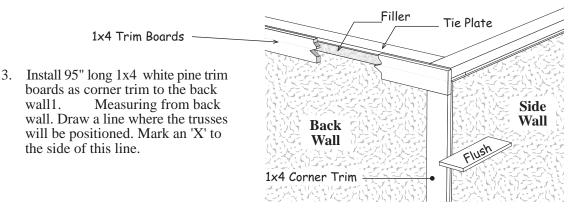
- 1. Install a 2x4-12' boards on the sidewall with door, flush with the back wall top plate as shown below. Cut an install another 2x4-12' boards flush with front wall top plate. Use 10d sinkers.
- 2. Install (3) three 2x4-8' boards across the top of the other sidewall. Cut the last 2x4 flush with the end of the end wall panel.
- 3. Cut a 6' long 2x4 in half and install 3' long 2x4s on the 12' back wall as shown below. Cut and install a 6' long 2x4 between the 3' long 2x4s. Repeat on the opposite front wall.



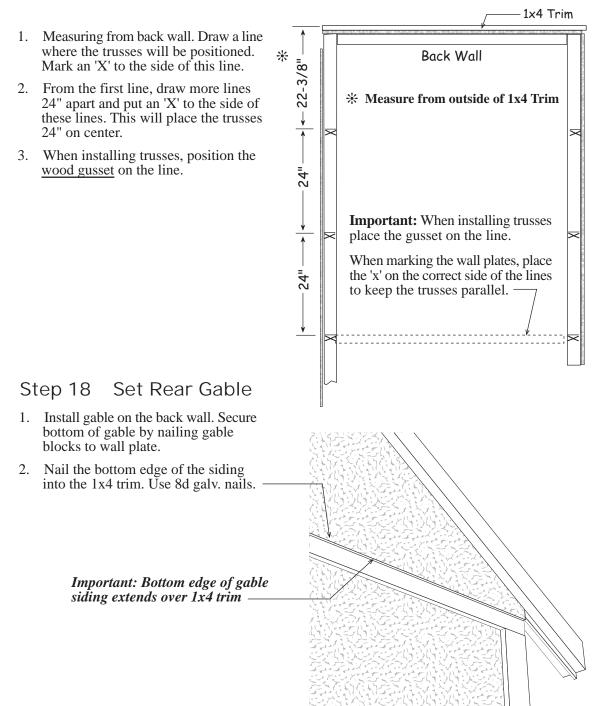
Step 16 Install Corner Trim

#### **IMPORTANT:** Lower Trim Must Be Installed Before Installing Roof Gables!

- 1. Tack 1-1/2" x 48" filler strips on top of the siding on the back wall.
- 2. Install (2) two 72-3/8" long 1x4 white pine trim boards flush with the siding on the sidewalls and flush with the top of the 2x4 tie plate. Use 8d galv. nails to install all trim.



### Step 17 Layout Roof Trusses

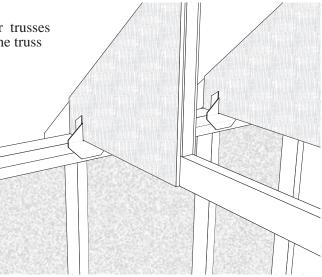


### Step 19 Set Trusses

- 1. Starting from back wall install (4) four trusses with the wood gusset on the line and the truss bottom over the 'X' marks.
- 2. Secure trusses with the metal hangers and 1-1/2" long hanger nails.

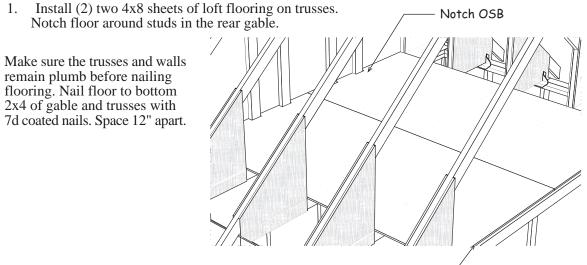
#### IMPORTANT

Secure the trusses to the sidewall that has the wall bracing first. Make sure the opposite sidewall is plumb before securing trusses. The building width should be 12'-0" measuring outside of 2x4 tie plate to outside of 2x4 tie plate.



### Step 20 Install Loft Flooring

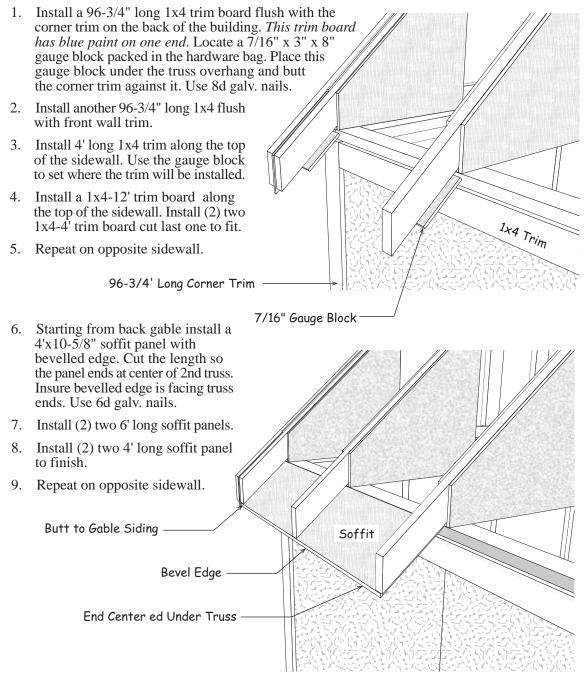
Before installing floor sheathing consider the location and size of access opening. Cut sheathing as appropriate.



- 2. If necessary, cut flooring to the center of the 2x4.
- 3. Install the remaining trusses and the front gable panel
- 4. Install 4x8 sheets of loft flooring on trusses at the front and center of the building.

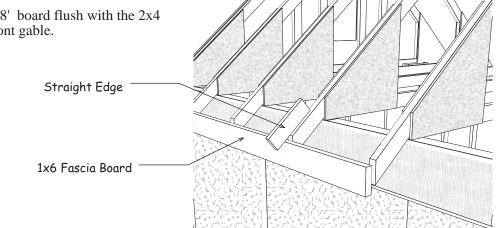
### Step 21 Install Sidewall Trim & Soffit

It is easier to install the soffit if the corner and sidewall trim are installed first. This enables the soffit to rest on the trim where it meets the building. See lower detail.



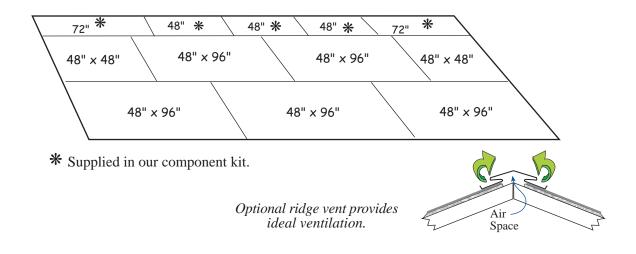
#### Step 22 Install 1x6 Fascia on Sidewalls

- 1. Install a 121-1/2" long 1x6 trim board at the rear of the building, flush with the face of the 2x4. Install the 1x6 board so the face of the board is aligned with the top of the trusses. Use a straight edge as shown below. Use 8d galv. nails.
- 2. Install a 1x6-8' board.
- 3. Cut 1x6-8' board flush with the 2x4 on the front gable.



#### Install Sheathing over Sidewall (without door) Step 23

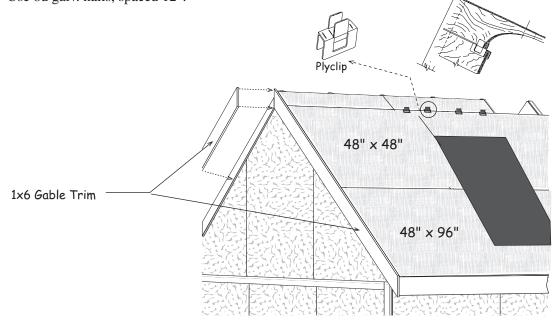
- 1. Install 4x8 roof sheathing starting at the lower left back corner. The bottom edge of the sheathing should extend past the end of the trusses and rest on the 1x6 fascia. Make sure the trusses and gables are plumb and the roof sheathing meets the center of the trusses.
- Install roof sheathing per layout below. The top row of sheathing is supplied in our component 2. kit. There will be a gap at the top to allow ventilation if ridge vent is applied. Insert (2) two ply-clips into the roof sheathing between each truss at the top row, see drawing on next page. Secure sheathing with 7d sinkers nails. Space nails 12" apart.



# Step 24 Install Roof Sheathing on Dormer side

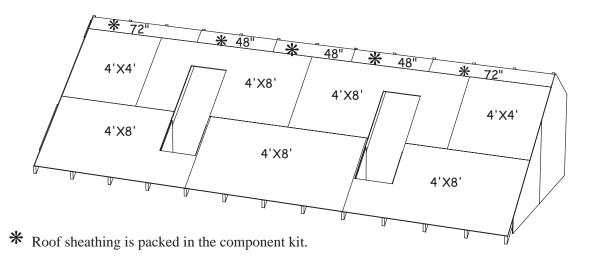
1. Install 4x8 roof sheathing per layout below

2. Install 1x6 trim on the end gables, flush with the top of the 2x4s. Use 8d galv. nails, spaced 12".

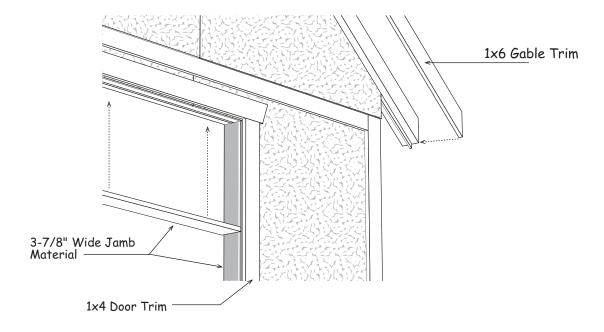


End Wall

You can cut the dormer openings as you install the roof sheathing. See **Step 2** in the Dormer Assembly Book, *packed in the dormer kit*, for the opening sizes.



#### Step 25 Install Front Gable Trim and Door Trim



1. Install 1x6 trim boards over the 2x4 boards, flush with the top of the 2x4s.

#### **Complete the steps below if you are installing wood pocket doors.**

- 1. Install 3-7/8" x 72" white pine wide jamb material on the top of the door opening.
- 2. Install 3-7/8" x 79-1/4" white pine wide jamb material on the sides of the door opening.
- 3. Install 80-3/4" long 1x4 trim boards on each side of the door opening.
- 4. Install an 82" long 1x4 trim board, *this board has angle cuts on both ends*, across the top of the door opening.

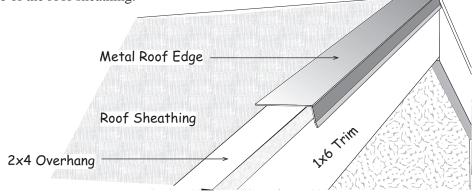
#### Step 26 Install Roof Dormers and Pocket Doors

- 1. Install the roof dormers. Refer to the instruction manual packed with the dormer kit.
- 2. Install the pocket door per the instruction manual packed with the door kit.

**Note:** The instructions shows the door track being fastened to a door header. For this model you will be installing the tract to the 2x4 studs in the door header.

# Install Roofing - Not Supplied in Kit

1. Install metal roof edging along the end walls and the front edge of the roof sheathing.



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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.

	Material Packaged In Dormer Component Kit				
4	2x6	Bottom Plates	55-3/4"	2	1 lb. box 8d Galv. Box
2	2x4	Ridge Boards	56-1/2"	2	1 lb. box 6d Galv. Box
2	2x4	Bottom Plates	33-1/2"	64	1/2" White Screws for Windows
4	2x3	Sidewall Overhang	45-1/4"	40	2-1/2" Wood Screws
4	2x3	Gable Overhang	22-3/4"	4	3-1/2" Wood Screws
4	1x4	Sidewall Fascia	45-1/4"	1	2" Bit for Wood Screws
4	1x4	Gable Trim	23-3/4"	64	5"x7" Step Flashing
4	1x3	Side Corner Trim	37"	2	7"x41" Front Dormer Flashing
4	1x3	Front Corner Trim	34-1/4"	2	ea. 18" x 23" Windows
4	7/16'	'Roof Sheathing	20-1/2"x 58-3/4"	2	ea. 18" Sunburst Windows
4	3/8"	Sidewall Siding	4" x 47" angled	4	ea. Pre-built Angle Sidewall Panels
2	3/8"	Front Siding	33-1/2" x 49"	2	ea. Pre-built Frontwall Panels
1	ea.	Pre-built Header	37-1/2"		

Qty.	Material Packaged In Component Kit		Qty.	Material Packaged In Component Kit		0	
11	Truss Bottom	2x4	144"	24	7/16"	24" x 11" '	Truss Gussets
30	Truss Rafters	2x4	105-3/4"	48	7/16"	24" x 24"	Truss Gussets
12	Wall Plates	2x4	72"	4	7/16"	9-3/4" x 72	2" Sheathing
4	Gable Studs	2x4	50"	6	7/16"	9-3/4" x 4	8" Sheathing
4	Gable Studs	2x4	38-3/4"	6	3/8"	Soffit Boa	rds 4' x 10-5/8"
26	Gable & Truss Studs	2x4	16-3/4"	4	3/8"	Soffit Boa	rds 6' x 10-5/8"
13	Truss Blocks	2x4	17-1/2"				
4	White Pine Trim	1x4	72-3/8"	7	lbs.	10d	Sinkers
6	White Pine Wall Trim	1x4	48"	7	lbs.	8d	Galv. Nails
2	White Pine Wall Trim	1x4	144"	5	lbs.	7d	Sinkers
4	White Pine Corner Trim	1x4	95"	2	lbs.	6d	Galv. Nails
4	White Pine Corner Trim	1x4	96-3/4"	7	lbs.	6d	Common
4	White Pine Gable Trim	1x6	107	1-1/2	lbs.	1-1/2"	Hanger Nails
2	White Pine Fascia	1x6	121-1/2"	24	2-1/2 Wood Screws		
4	White Pine Fascia	1x6	96"	22	H11z Truss Hangers		
2	Truss Gauge Blocks	2x3	10-5/8"	50	Plyclips for Roof Sheathing		
10	Truss Jig Blocks	2x4	10"	22	1x4	Drive-on M	Metal Plates
2	Soffit Gauge Blocks	7/16'	' 3" x 8"	5	16 oz.	Bottles We	ood Glue
6	48" Long Filler Boards	3/8"	x 1-1/4"	2	18" x 36	" Windows	w/ shutters
1	32" Entry Door w/lockse	t - Thi	s door will b	e shipped	by local su	pplier	

Qty.	Material Supplied by Local Supplier			
54 pcs.	2x4-Pre-cut Wall St	uds		
12 pcs.	2x4-8' Wall & Tie Plates			
8 pcs.	2x4-12' Wall & Tie	Plates		
21 pcs.	Exterior Siding	4x8		
12 pcs.	OSB Sheathing	4x8		
6 pcs.	OSB Loft Floor	4x8		

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#### **Optional Roof Covering**

15 bdl.	Roof Shingles
10 pcs.	Roof 'drip' Edge-10'