

# **IMPORTANT INFORMATION ABOUT YOUR SHED KIT**

This manual will show the assembly for the Belmont 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 15'-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 (3) three 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

- Hammer & Phillips Screwdriver
- Framing Square & Level
- Hand or Circular Saw

Power Drill/Screwdriver

Tongue Edge

- Measuring Tape
- 2-8' Step Ladders & Ladder Jacks

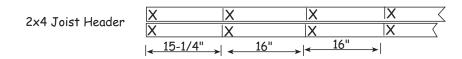
Always wear safety glasses when cutting or nailing!

### **Constructing Details for Deluxe Floor System**

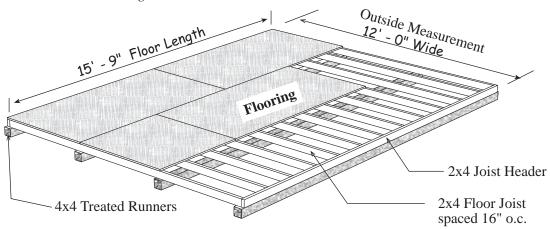
Deluxe floors include 4x4 runners, standard floors do not

Shown below is a typical wood floor. Depending on your area, the construction may have to be changed to meet local codes. When using a concrete slab for a floor, use the same overall foundation measurements. Install foam sill sealer as a moisture barrier between the concrete and the wall plates. Foam sill sealer is available in rolls, 3-1/2" or wider.

1. Cut (2) two 2x4 joist headers to 15' - 9". Layout for 16" on center joist spacing. 'X' marks where floor joist will be placed.

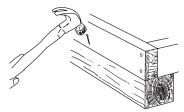


2. Cut 2x4-12' floor joist to 11'-9". Treated lumber may be thicker than 1-1/2". Take this into account when cutting the length of floor joists. Shorten joist measurements if necessary to obtain 12'-0" building width.



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

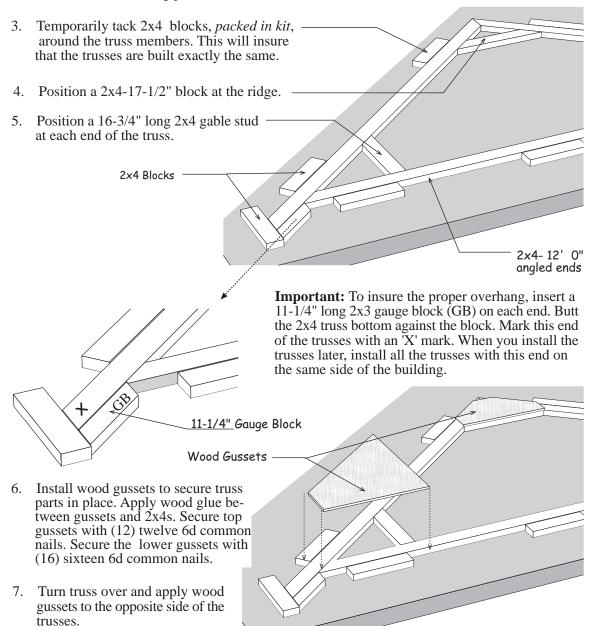
Material Description	12' x 16' shed		
2x4 Joist Headers	2 pcs. 16'		
2x4 Floor Joist	13 pcs. 12'		
4x4 Treated Runners	8 pcs. 8'		
Flooring 5/8" or 3/4"	6 pcs. 4x8		
Screw Floor Nails	2 lb. 8d		
Galv. Box Nails	2 lb. 16d		



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

### Step 1 Assemble Roof Trusses

- 1. Locate a 2x4 -12' board, with angle cuts on both ends, to be used for the truss bottom.
- 2. Position 105-3/4" long pre-cut 2x4 rafters on the 12' board.



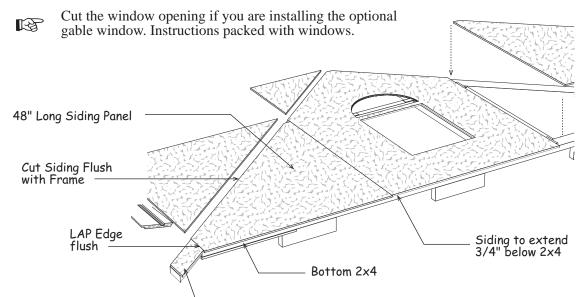
8. Repeat process to assemble (6) six more trusses. Do Not remove the 2x4 blocks around the perimeter of the truss until the gables are assembled in the next step.

## 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. -<u>2x2 Bo</u>ard If installing the optional gable window, install a 2x2 board (packed with window) between the 53" long gable studs. Cut to fit. 1x4 Drive-on Plate 33 50" Gable Stud -38-3/4" Gable Stud 1x4 Drive-on . Plate 4. Repeat steps to assemble another roof gable. 5. Lay gable on flat surface with gussets facing down. Remove 2x4 blocks used to hold truss 6. parts in place. Secure (3) three blocks, *evenly spaced*, to the bottom 2x4 using 2-1/2" long wood screws. 2x4 Block Gusset Facing Down

### 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.



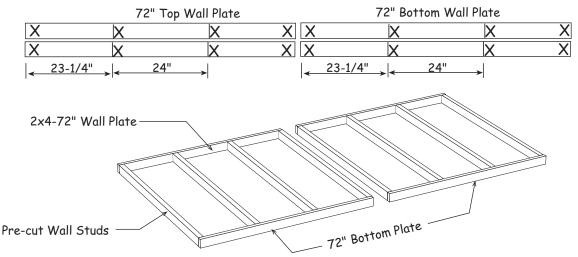
- 4. Cut siding and install on the ends of the gable. The siding should extend 1/2" below the 2x4 to receive the soffit when installed later.
- 5. Repeat to install siding on the rear gable.

### Step 4 Install Gable Overhang

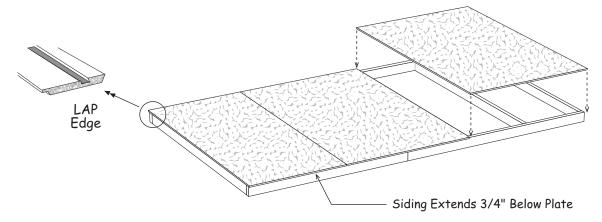
 Install (2) two 105-3/4" long 2x4 rafters on the front gable. Install 2x4s extending <u>1/2" above the top</u> of the gable frame to receive the roof sheathing when applied in a later step.
Repeat to install 2x4s on the rear gable.

### Step 5 Assemble 12' Back Wall

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.

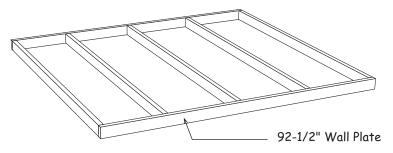


## Step 6 Assemble 92-1/2" Long Sidewalls

1. Cut (2) two 2x4-8' to a length of 92-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.

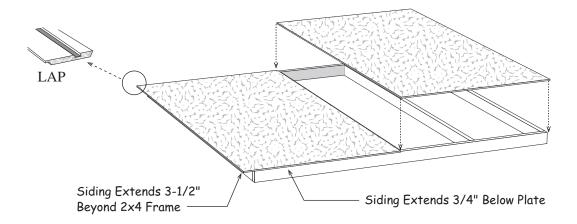
92-1/2"	Wall Plates	
X	X	$ X\rangle$
X	Х	<b>X</b> 3
<u>← 19-3/4" → ← 24"</u>	→ < 24"	

2. Install pre-cut wall studs between the top & bottom plates. Nail studs to wall plates with 10d sinkers, (2) two nails on each end.



3. Repeat to assemble another 92-1/2" long wall frame.

If you are installing the optional walk-in door see the instructions at the back of the book.



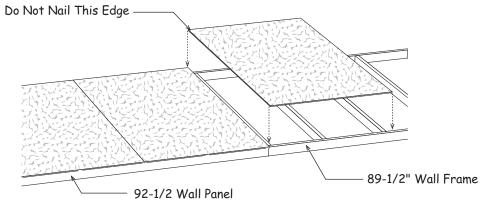
4. Repeat to apply siding to the other sidewall frame.

### Step 7 Assemble 89-1/2" Long Sidewalls

1. Cut (2) two 2x4-8' to a length of 89-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.

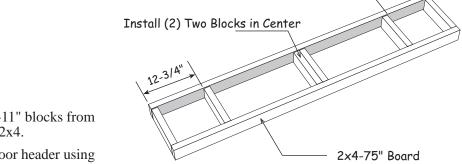
89-1/2"	Wall Plates	
X	X	$ \mathbf{x}\rangle$
X	X	<b>x</b> 5
	24	<b>"</b> →

- 2. Install pre-cut wall studs between the top & bottom plates.
- 3. Butt wall frame 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.
- 5. Cut the last siding panel to a width of 45". The last panel will extend 3-1/2" past the frame.
- 6. Repeat to assemble another sidewall frame. Separate walls and set aside.



### Step 8 Assemble Door Header

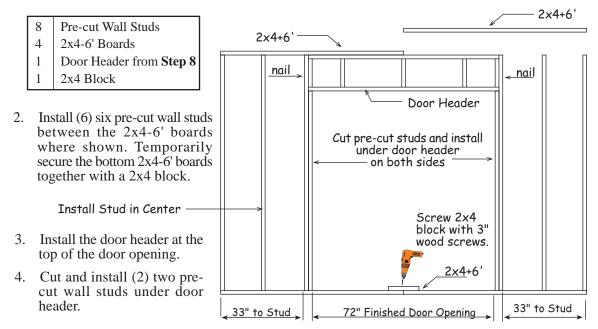
1. Cut (2) two 2x4-8' boards to a length of 75".



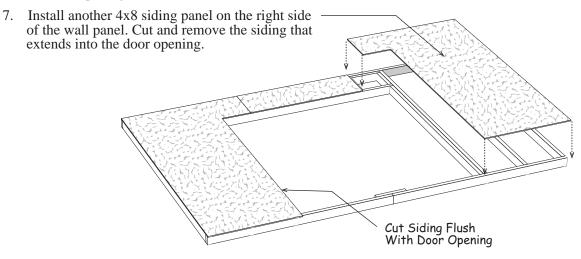
- 2. Cut (6) six 2x4-11" blocks from another 8' long 2x4.
- 3. Assemble the door header using 10d sinkers.

## Step 9 Assemble 12' Door Wall

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

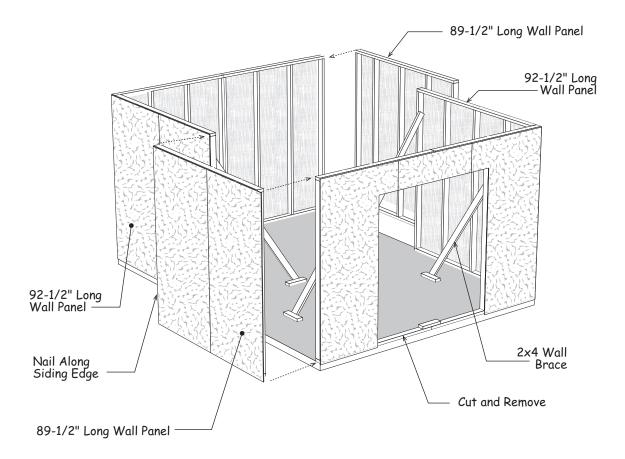


- 5. Install a 4x8 siding panel on the left side of the wall panel. Before you install the siding, cut and remove the siding that extends into the door opening.
- 6. Install a siding panel, leftover from **Step 3**, above the door opening.



### Step 10 Set Wall Panels

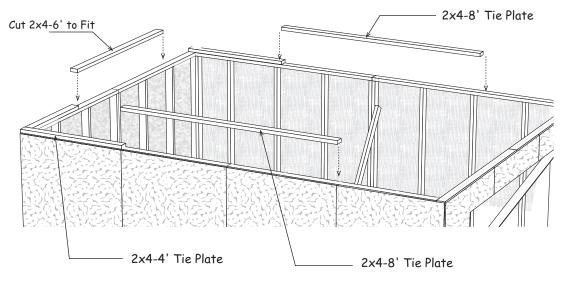
- 1. Set the back wall panel between the sidewalls. Secure wall panels together at the corners. Use (4) four 10d coated nails per corner. Nail wall panels to the floor. Nail through the bottom plate. Space 10d sinkers 24" apart.
- 2. Nail along the siding edge where the sidewall panels overlap.
- 3. Install the front wall frame between the sidewalls. Do not nail to floor in door opening.
- 4. Use pre-cut wall studs at each side of the door opening to hold the front wall straight.
- 5. Install a pre-cut wall stud to brace the side walls where the wall panels meet.



6. Cut and remove the bottom 2x4 in the door opening.

### Step 11 Install 2x4 Tie Plates

- 1. Cut a 2x4-8' board to 4' and install on the side wall, at the back corner of the building as shown below. Use 10d sinkers. Install a 2x4-8' in the center of the sidewall. Install another 4' long 2x4 at the front corner. Repeat to install 2x4s on the opposite side walls.
- 3. Cut a 6' long 2x4 in half and install 3' long 2x4s at the rear corners. Cut and install a 6' long 2x4 between the 3' long 2x4s.



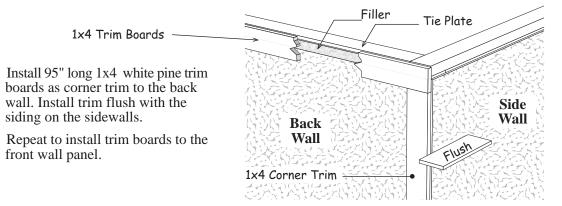
### Step 12 Install Corner Trim

3.

4.

### **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 13 Layout Roof Trusses

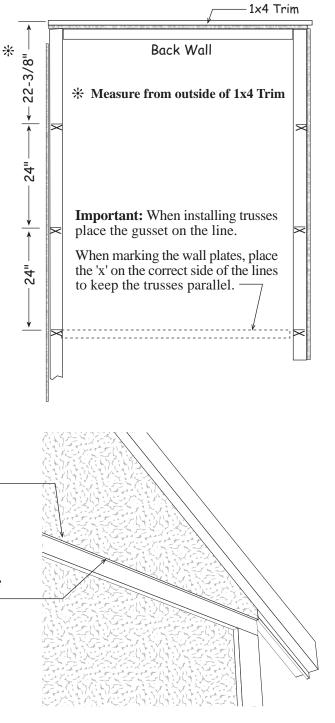
1. Measuring from back wall trim. Draw a line where the trusses will be positioned. Mark an 'X' to the side of this line.

- 2. From the first line, draw more lines 24" apart and put an 'X' to the side of these lines. This will place the trusses 24" on center.
- 3. When installing trusses, position the wood gusset on edge of the line.



- 1. Install gable on the back wall. Secure bottom of gable by nailing gable blocks to wall plate.
- 2. Nail the bottom edge of the siding into the 1x4 trim. Use 8d galv. nails.

Important: Bottom edge of gable siding extends over 1x4 trim —

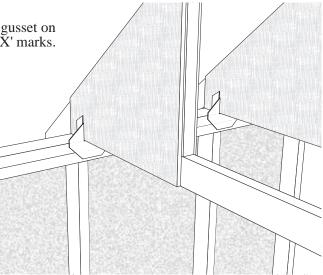


### Step 15 Set Trusses

- 1. 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 16 Install Loft Flooring

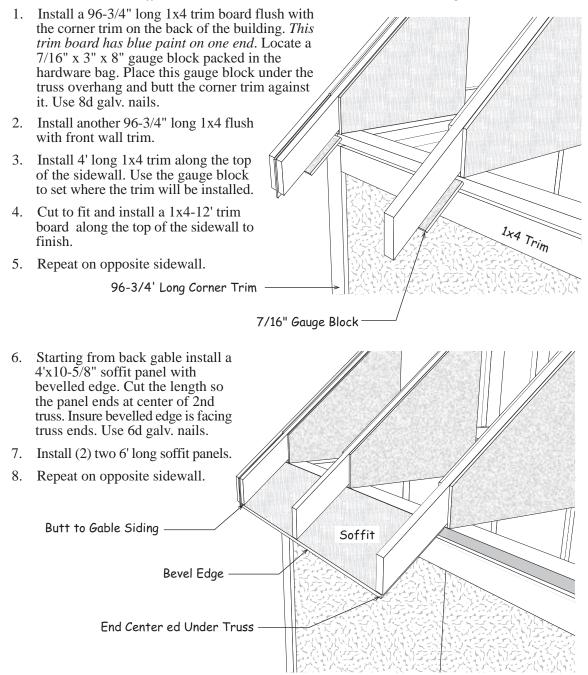
- Before installing floor sheathing consider the location and size of access opening. Cut sheathing as appropriate.
- 1. Install (2) two 4x8 sheets of loft flooring on trusses. Notch floor around studs in the back gable.

Make sure the trusses and walls remain plumb before nailing flooring. Nail floor to bottom 2x4 of gable and trusses with 7d coated nails. Space 12" apart.

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

### Step 17 Install Sidewall Trim & Soffit

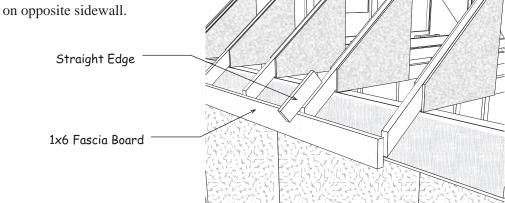
It is easier to install the soffit if the corner and sidewall trim are installed first. This enables the soffit to rest on the trim where it meets the building. See lower detail.



|

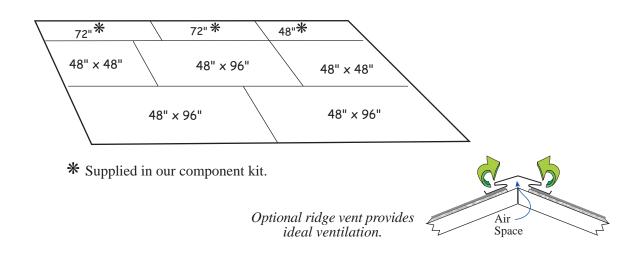
#### Step 18 Install 1x6 Fascia on Sidewalls

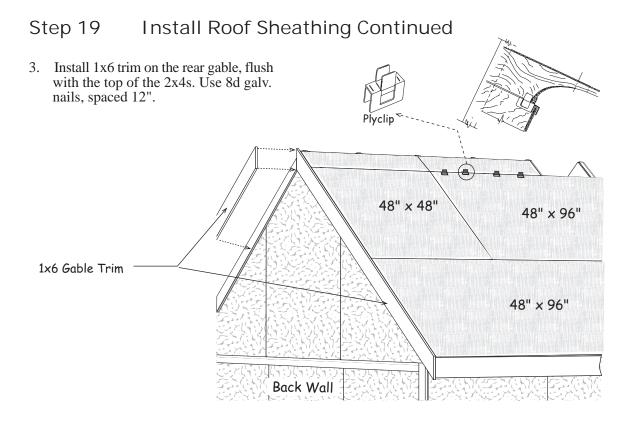
- 1. Starting from back gable install a 121-1/2" long 1x6 trim board flush with the face 2x4 overhang. Install the 1x6 board so the face of the board is aligned with the top of the trusses. Use a straight edge as shown below. Use 8d galv. nails.
- 2. Cut to fit a 1x6-8' board flush with the 2x4 overhang on the front gable.
- 3. Repeat on opposite sidewall.



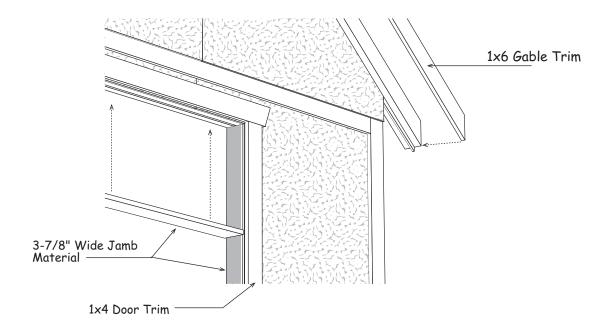
#### Step 19 Install Roof Sheathing

- 1. Install 4x8 roof sheathing starting at the lower back corners. 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.
- 2. Install roof sheathing per layout below. The top row of sheathing is supplied in our component 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 20 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.

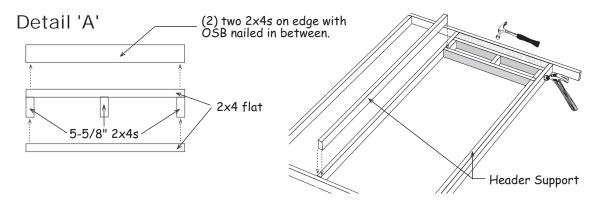
### Step 21 Install Pocket Doors

Refer to 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.

# Supplement Details

This assumes a 92-5/8" long stud length. Adjust accordingly if stud length differs

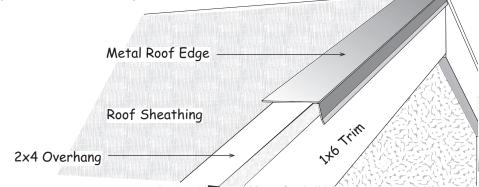
- 1. If you purchased a 32"x80" entry door, locate where you want the opening to be and build a 37-1/2" door header. You'll need to cut (4) four 37-1/2" long 2x4s, (3) three 5-5/8" long 2x4s and a 3-1/2"x37-1/2" piece of OSB. If you have a different size door adjust accordingly.
- 2. Assemble header as shown in Detail 'A'. First assemble (2) two 37-1/2" 2x4s and OSB. Next assemble (1) one 37-1/2" 2x4 and (3) three 5-5/8" 2x4s. Nail this assembly to bottom of previous assembled pieces. Last nail the remaining 2x4 to the 5-5/8" boards. Use 10d sinkers for all.



- 3. Secure the header by nailing through the top plate and wall studs with 10d sinkers.
- 4. Cut (2) two header supports from pre-cut wall studs and install under 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.



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.

Qty.	Material Packaged In Component Kit		Qty.	Material Packaged In Component Kit			
11	Truss Bottom	2x4	144"	16	7/16"	24" x 11"	Truss Gussets
22	Truss Rafters	2x4	105-3/4"	32	7/16"	24" x 24"	Truss Gussets
12	Wall Plates	2x4	72"	4	7/16"	9-3/4" x 72" Sheathing	
4	Gable Studs	2x4	50"	2	7/16"	9-3/4" x 48" Sheathing	
4	Gable Studs	2x4	38-3/4"	2	3/8"	Soffit Bo	ards 4' x 10-5/8"
18	Gable Studs	2x4	16-3/4"	4	3/8"	Soffit Bo	ards 6' x 10-5/8"
9	Truss Blocks	2x4	17-1/2"	6	3/8"	Filler Boards 4' x 1-1/4"	
4	White Pine Trim	1x4	72-3/8"	2	7/16"	Soffit Gauge Blocks 3"x8"	
2	White Pine Wall Trim	1x4	48"	5	lbs.	10d	Sinkers
2	White Pine Wall Trim	1x4	144"	5	lbs.	8d	Galv. Nails
4	White Pine Corner Trim	1x4	95"	3	lbs.	7d	Sinkers
4	White Pine Corner Trim	1x4	96-3/4"	2	lbs.	6d	Galv. Nails
4	White Pine Gable Trim	1x6	107	5	lbs.	6d	Common
2	White Pine Fascia	1x6	121-1/2"	1	lbs.	1-1/2"	Hanger Nails
2	White Pine Fascia	1x6	96"	24	2-1/2	Wood Sci	rews
2	Truss Gauge Blocks	2x3	10-5/8"	14	H11z	Truss Ha	ngers
10	Truss Jig Blocks	2x4	10"	34	Plyclips for Roof Sheathing		
3	16 oz. Bottles Wood C	Blue		22	1x4 Drive-on Metal Plates		

Qty.	Material Supp by Local Supp	
44 pcs.	2x4-Pre-cut Wall S	tuds
15 pcs.	2x4-8' Wall & Tie I	Plates
17 pcs.	Exterior Siding	4x8
8 pcs.	OSB Sheathing	4x8
4 pcs.	OSB Loft Floor	4x8

### **Optional Roof Covering**

12 bdl.	Roof Shingles
8 pcs.	Roof 'drip' Edge-10'