

HOW TO BUILD A 12X8 SHED



With Illustrations, Drawings & Step By Step Details

Note: This is a sample plan from RyanShedPlans. [All other plans in our collection](#) goes in-depth with **more details**, more instructions, complete material lists and illustrated photos...

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OVERVIEW:

This 8 × 12-ft. shed features a simple gable roof, double doors, and side and rear windows for natural lighting. With full-height walls and doors, there's ample room for storing large items or creating a comfortable work space. An optional wood ramp helps in moving lawn mowers and other heavy equipment.

The shed's simple construction makes it especially adaptable for different uses. For example, you can easily frame in additional windows—to use the shed as a workshop or potting shed—or omit all of the windows and devote the space entirely to secure storage.

The finish materials for the basic shed also are true to its name: asphalt roof shingles, plywood siding, and simple trim details are appropriately practical for this classic outbuilding design. You can purchase prehung doors or build your own using the project plans.

MATERIALS & CUTTING LISTS:

Materials		
Description	Quantity/Size	Material
Foundation		
Drainage material	1.4 cu. yd.	Compactible gravel
Skids	3 @ 12'-0"	4 × 4 treated timbers
Floor Framing		
Rim joists	2 @ 12'-0"	2 × 6 pressure-treated
joists	10 @ 8'-0"	2 × 6 pressure-treated
Floor sheathing	3 sheets, 4 × 8'	3/4" tongue-&-groove ext.-grade plywood
Joist clip angles	20	3" × 3" × 3" × 16-gauge galvanized
Wall Framing		
Bottom plates	2 @ 12'-0", 1 @ 8'-0"	2 × 4
Top plates	4 @ 12'-0", 4 @ 8'-0"	2 × 4
Studs	40 @ 92 5/8"	2 × 4
Headers	2 @ 10'-0", 2 @ 6'-0"	2 × 6
Header spacers	1 @ 9'-0", 1 @ 6'-0"	1/2" plywood—5" wide
Gable Wall Framing		
Top plates	2 @ 8'-0"	2 × 4
Studs	2 @ 8'-0"	2 × 4
Roof Framing		
Rafters	22 @ 6'-0"	2 × 6
Metal anchors—rafters	10, with nails	Simpson H1
Rafter ties	3 @ 8'-0"	2 × 4
Ridge board	1 @ 14'-0"	2 × 8
Lookouts	1 @ 8'-0"	2 × 6

Subfascia	1 @ 8'-0", 2 @ 10'-0"	2 x 6
Soffit nailers	3 @ 8'-0"	2 x 2
Exterior Finishes		
Plywood siding	10 sheets @ 4 x 9'	5/8" texture 1-11 plywood siding, grooves 8" o.c.
Z-	2 pieces @ 8 ft.	Galvanized—18 gauge
Wall & corner	10 @ 10'-0"	1 x 4 S4S cedar
Fascia	8 @ 8'-0"	1 x 8 S4S cedar
Plywood soffits	2 sheets @ 4 x 8'	3/8" cedar or fir plywood
Soffit	4 @ 4 x 12"	Louwer with bug screen
Flashing (door/wi		Galvanized—18
Roofing		
Roof sheathing	6 sheets @ 4 x 8'	1/2" ext.-grade plywood
Asphalt shingles	150 sq. ft.	250# per square (min.)
15# building paper	150 sq. ft.	
Metal drip edge	2 @ 14'-0", 4 @ 6'-0"	Galvanized metal
Roof vents (optional)	2 units	
Door		
Frame	2 @ 8'-0", 1 @ 6'-0"	3/4 x 4 1/4" (actual) S4S cedar
Stops	2 @ 8'-0", 1 @ 6'-0"	1 x 2 S4S cedar
Panel material	12 @ 8'-0"	1 x 6 T&G V-joint S4S cedar
Z-brace	4 @ 6'-0"	1 x 6 S4S cedar
Construction adhesive	1 tube	
Exterior trim	2 @ 8'-0", 1 @ 6'-0"	1 x 4 S4S cedar

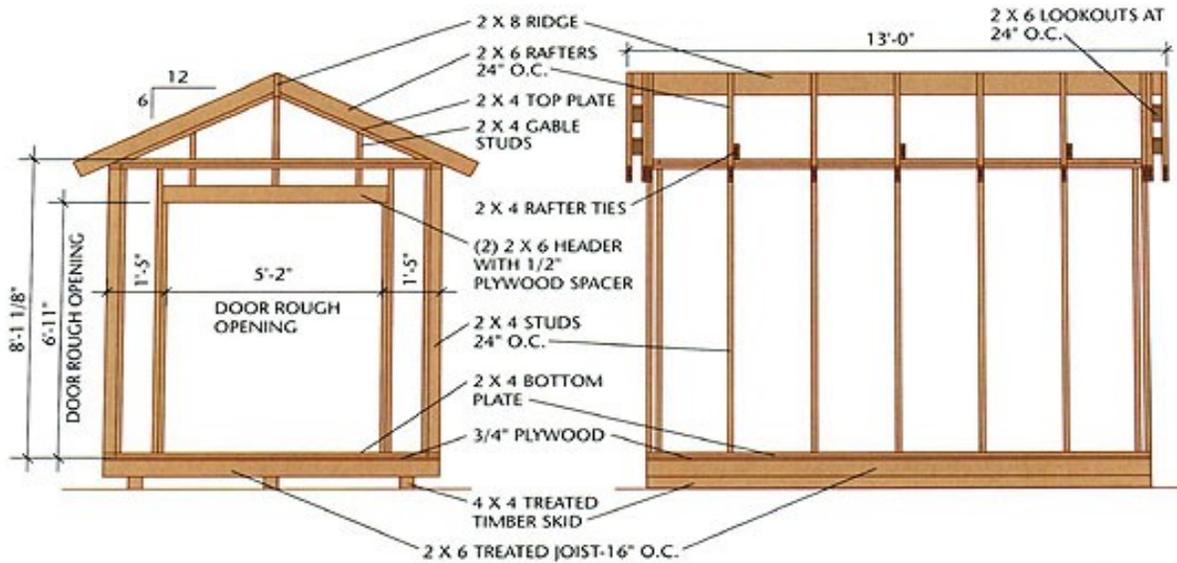
Interior trim (optional)	2 @ 8'-0", 1 @ 6'-0"	1 x 2 S4S cedar
Strap hinges	6, with screws	Exterior hinges
Windows		
Frames	5 @ 6'-0"	3/4 x 4 1/4" (actual) S4S cedar
Mullion	1 @ 3'-0"	2 x 4 S4S cedar
Stops	10 @ 6'-0"	1 x 2 S4S cedar
Glazing tape	30 linear ft.	Glazing tape
	3 pieces—field	1/4" clear, tempered
Window		
Exterior trim	5 @ 8'-0"	1 x 4 S4S cedar
Interior trim		
Ramp (Optional)		
Pads	2 @ 6'-0"	2 x 8 pressure-treated
Stringers	1 @ 8'-0"	2 x 8 pressure-treated
Decking	7 @ 6'-0"	2 x 4 pressure-treated
Fasteners		
16d common nails	16 lbs.	
10d common nails	1 lb.	
10d galvanized casing nails	1 lb.	
8d common nails	1/2 lb.	
8d box nails	3 lbs.	
8d galvanized box nails	1 1/2 lbs.	
8d galvanized finish nails	7 lbs.	
3d galvanized box nails	1/4 lb.	
7/8" galvanized roofing nails	2 lbs	

1 1/2" joist hanger nails	80 nails
1 1/4" wood screws	70 screws
3 1/2" deck screws	12 screws
3" deck screws	50 screws
2 1/2" deck	40 screws
1 1/4" deck	30 screws
Silicon e- latex	1 tube

DRAWINGS, ELEVATIONS & DETAILS

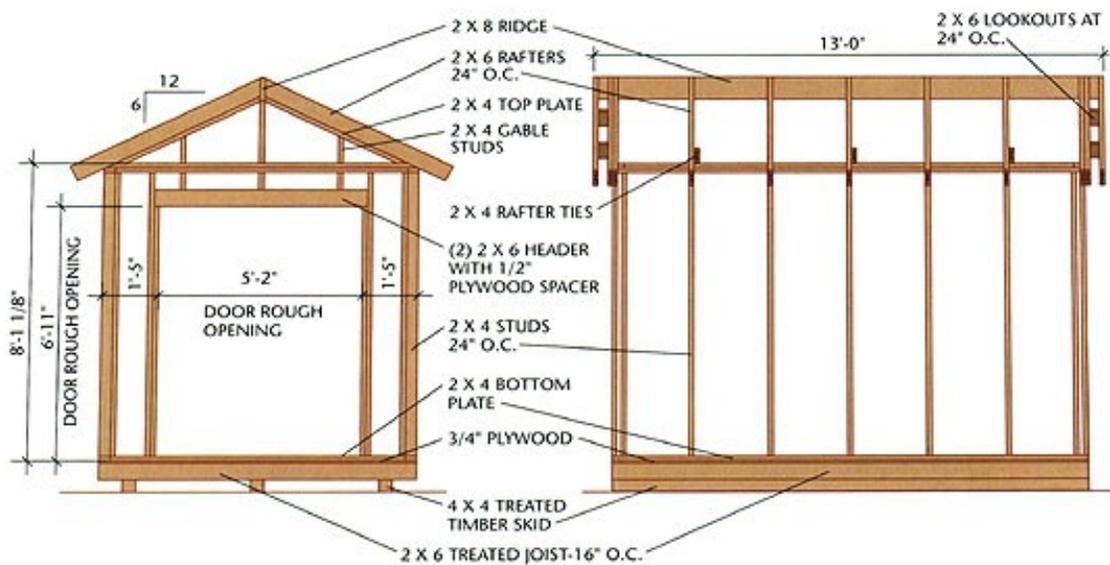
FRONT FRAMING ELEVATION

LEFT SIDE FRAMING ELEVATION

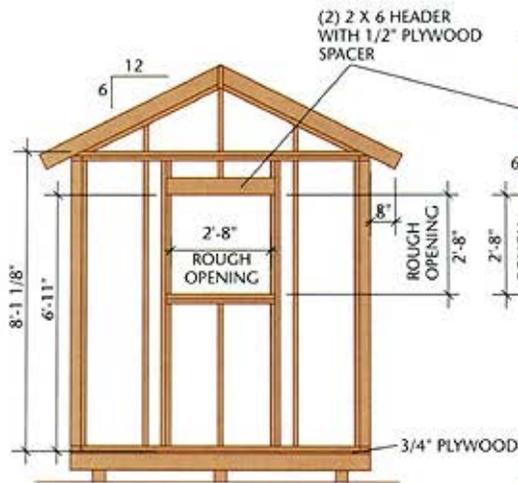


FRONT FRAMING ELEVATION

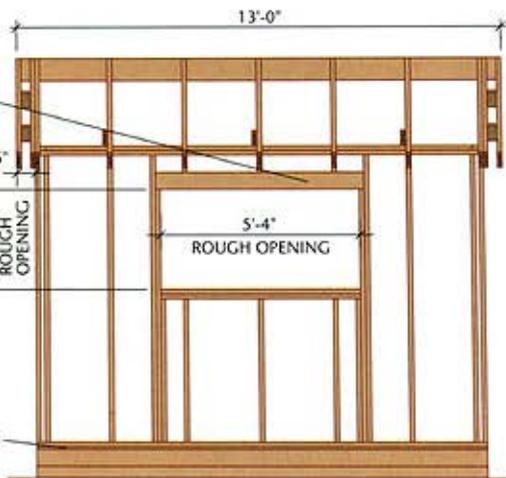
LEFT SIDE FRAMING ELEVATION



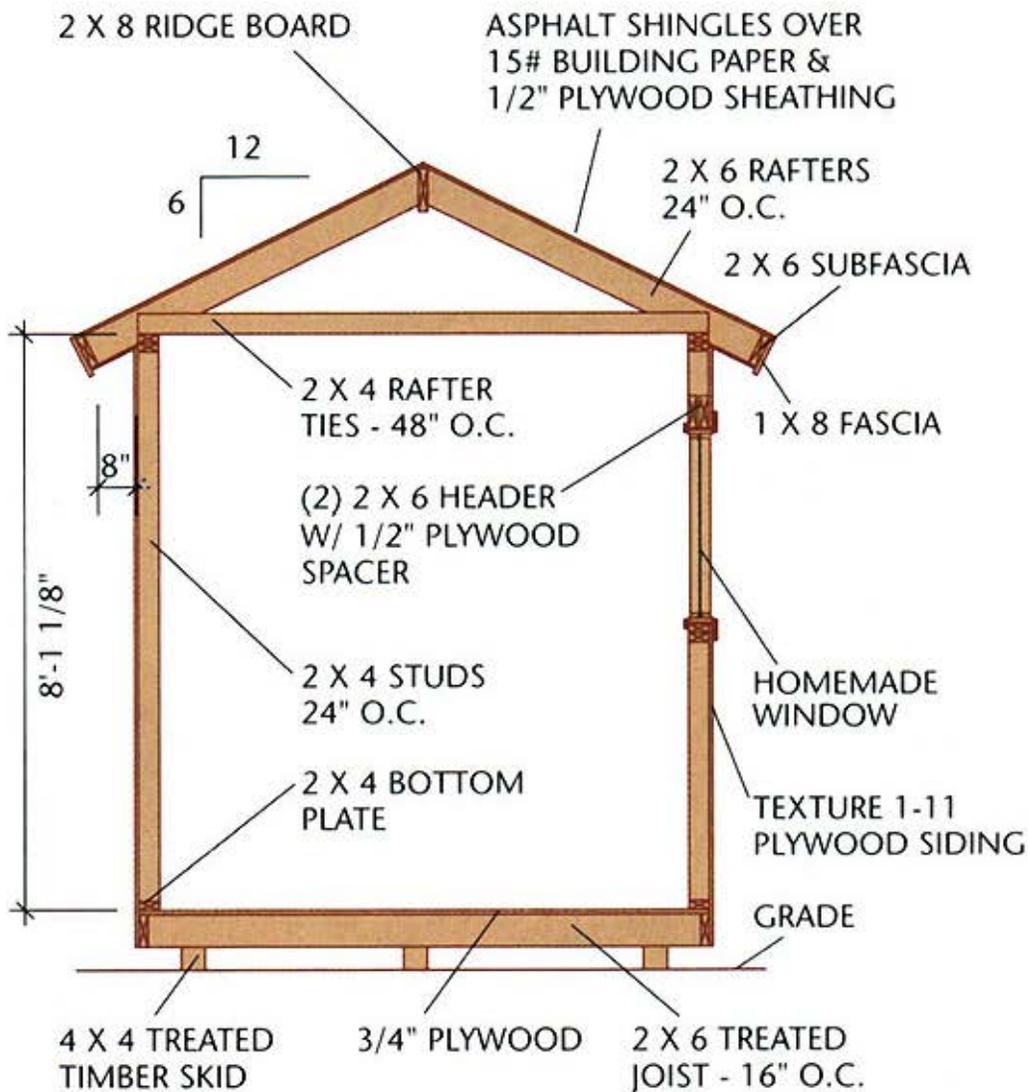
REAR FRAMING ELEVATION



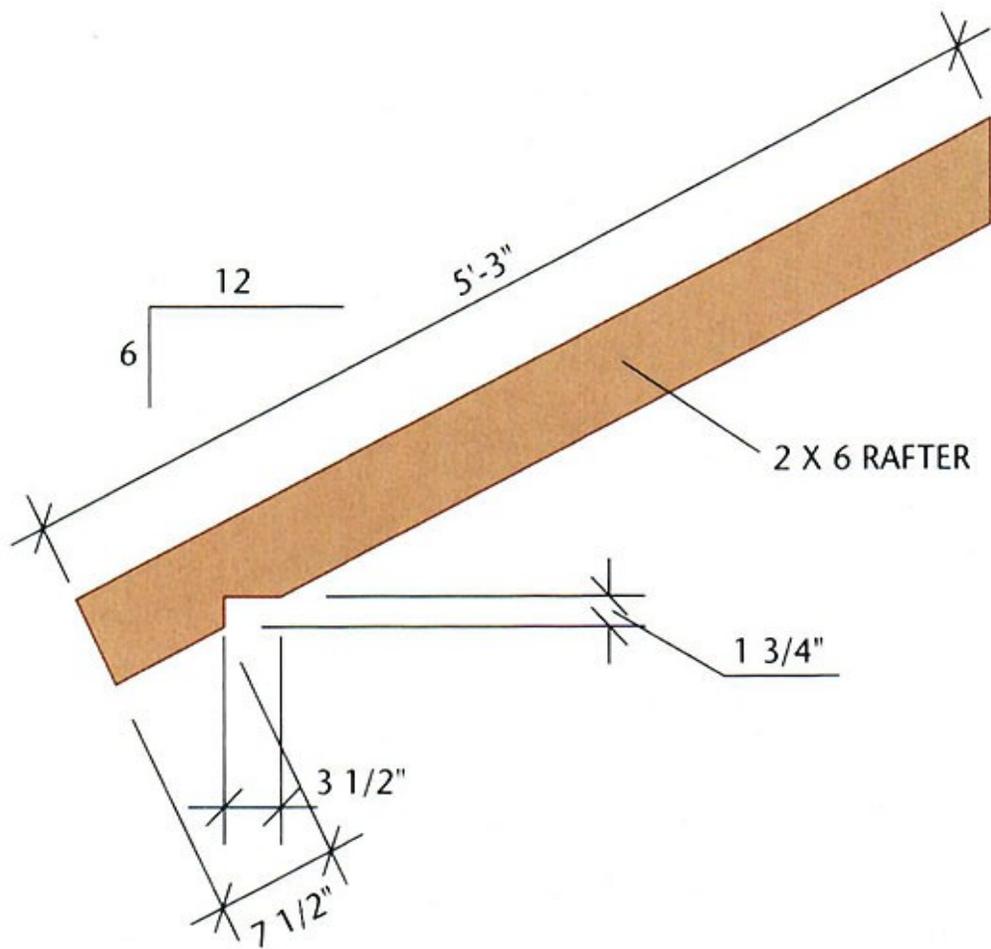
RIGHT SIDE FRAMING ELEVATION



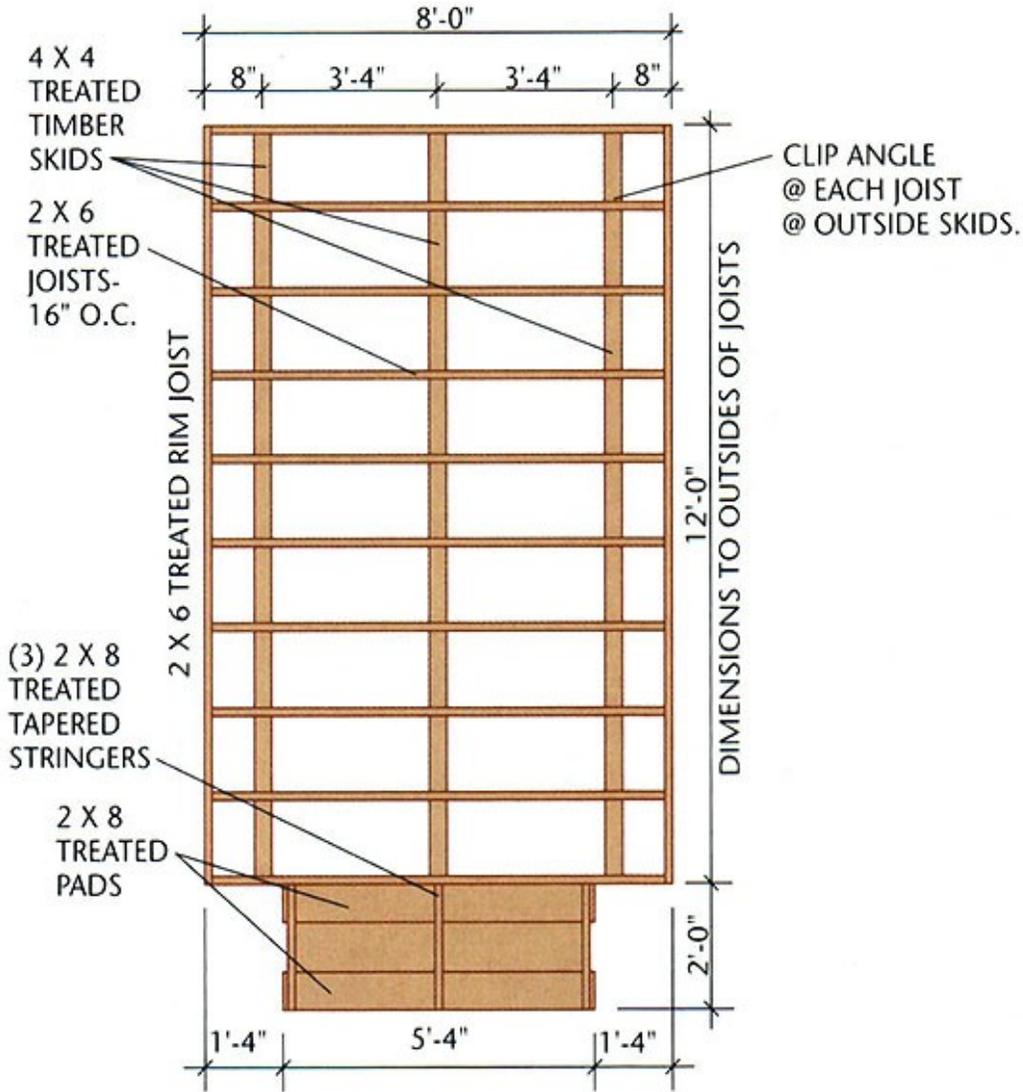
BUILDING SECTION



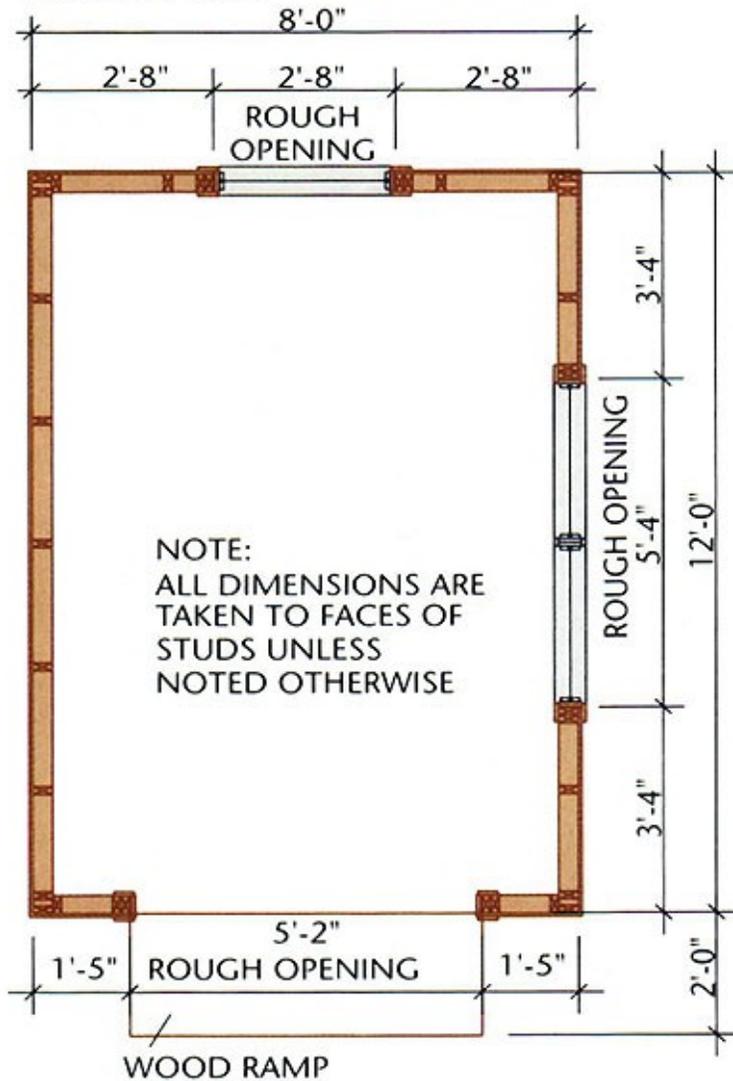
RAFTER TEMPLATE



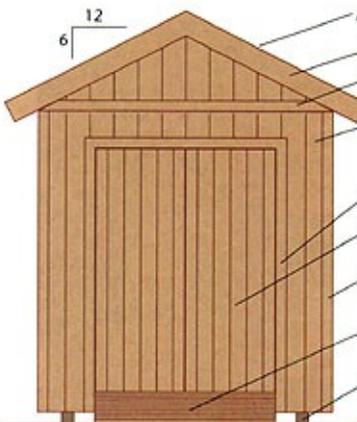
FLOOR FRAMING PLAN



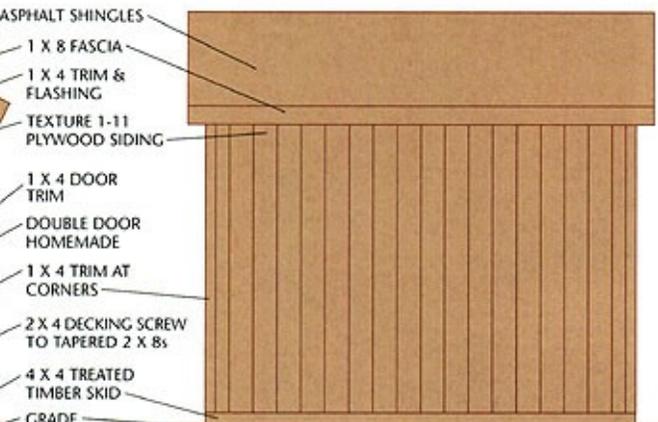
FLOOR PLAN



FRONT ELEVATION

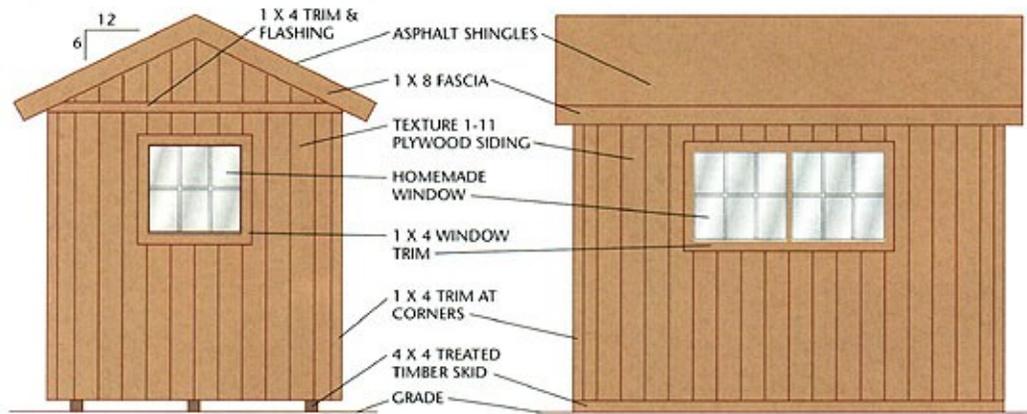


LEFT SIDE ELEVATION

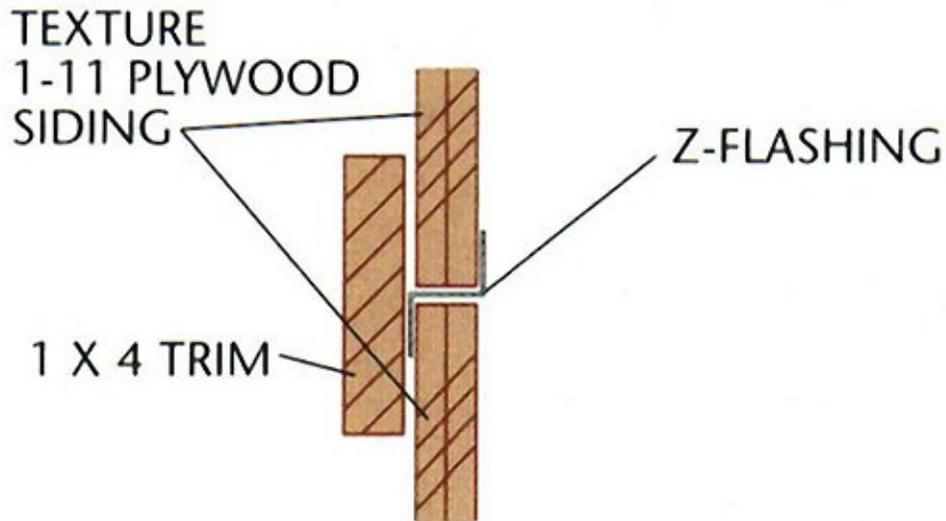


REAR ELEVATION

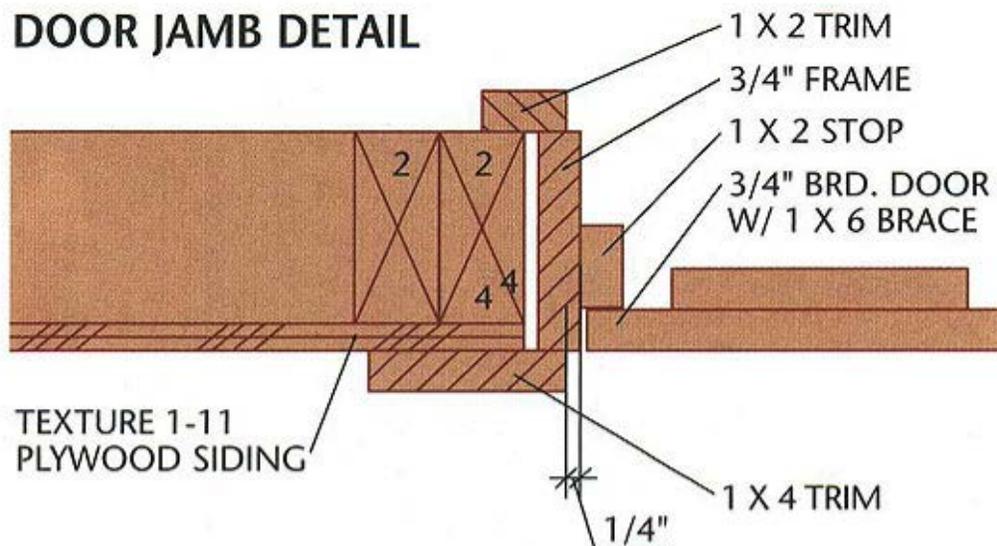
RIGHT SIDE ELEVATION



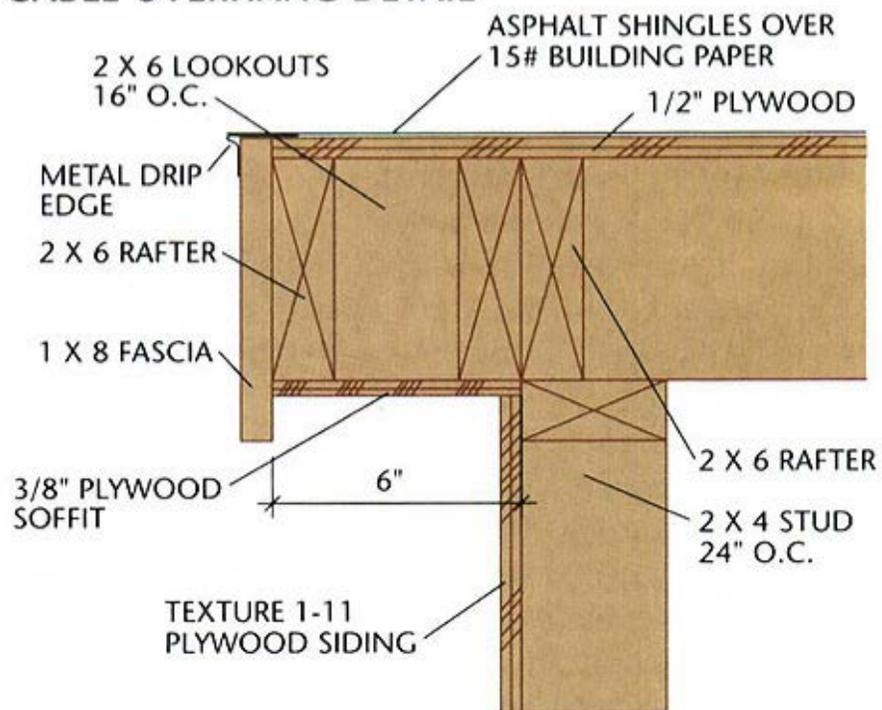
HORIZONTAL TRIM DETAIL



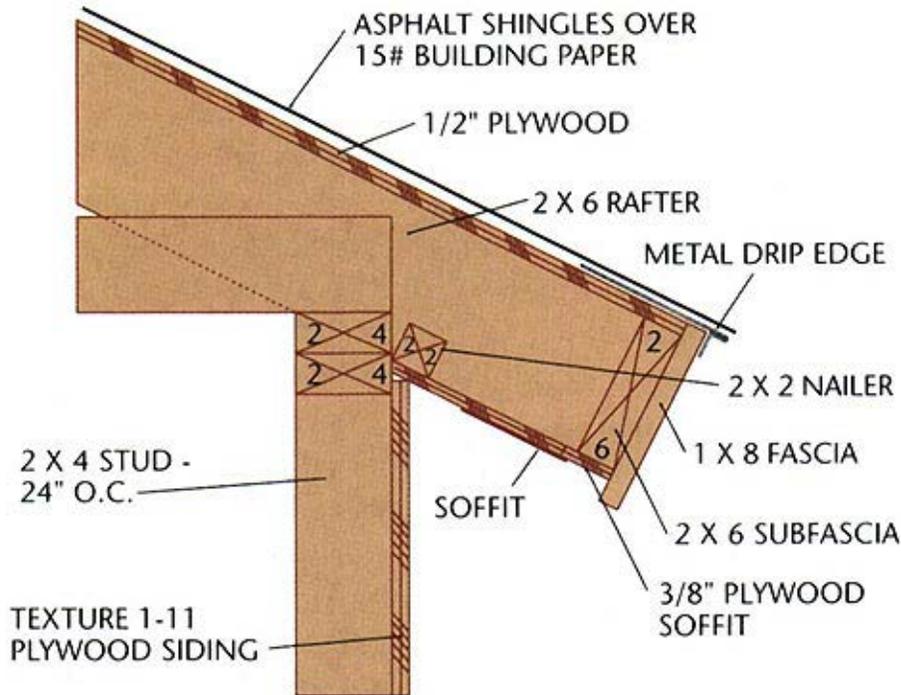
DOOR JAMB DETAIL



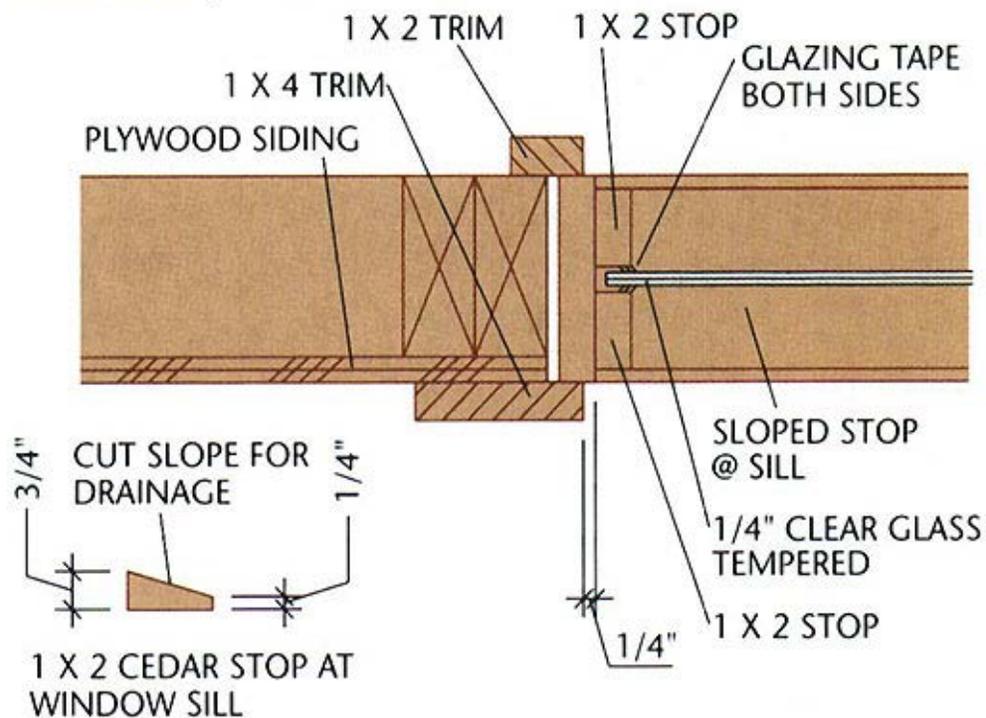
GABLE OVERHANG DETAIL



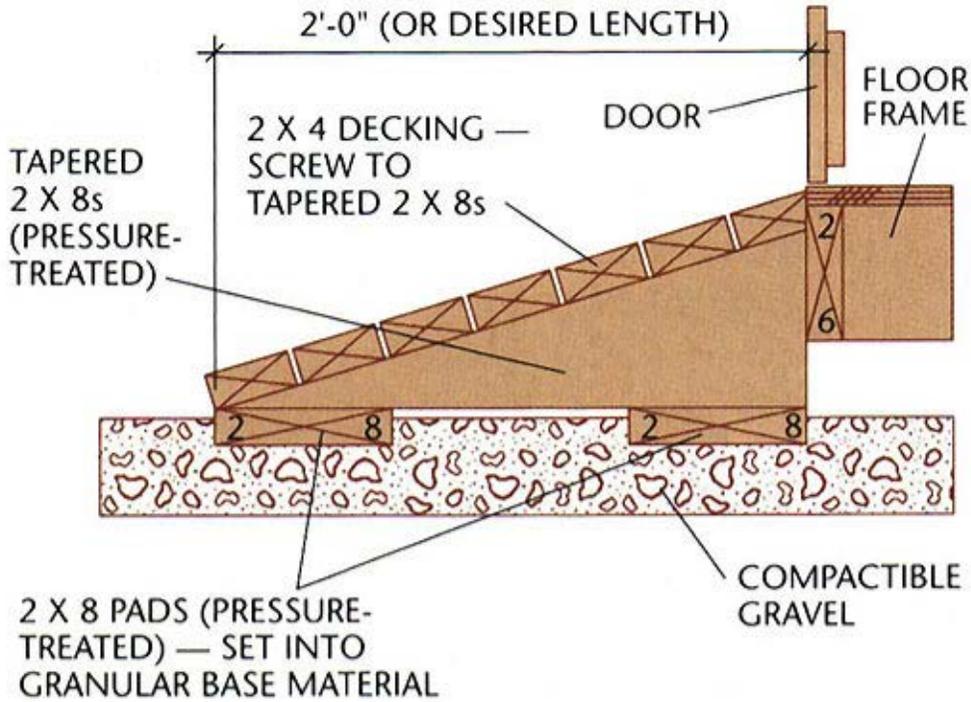
EAVE DETAIL



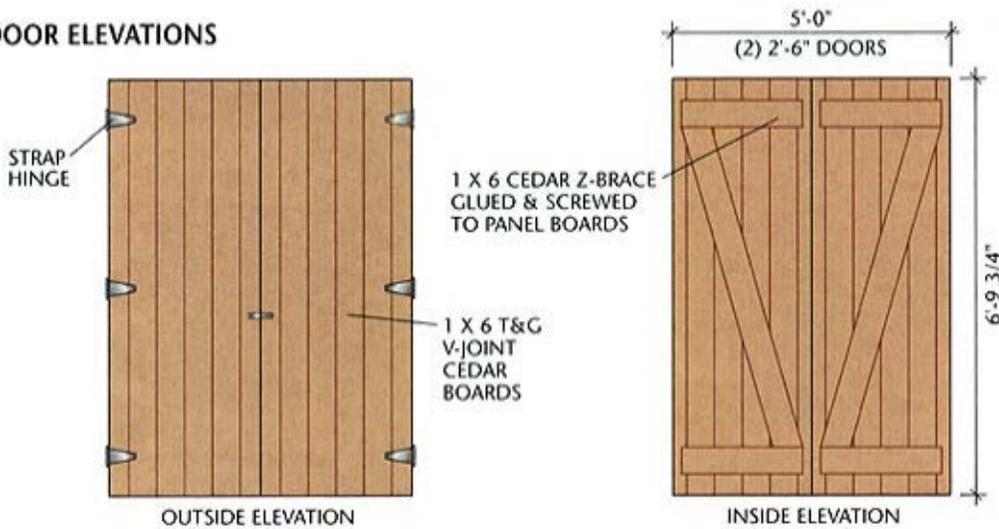
WINDOW JAMB DETAIL



RAMP DETAIL (OPTIONAL)



DOOR ELEVATIONS



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STEP BY STEP INSTRUCTIONS

BUILDING THE BASIC SHED

STEP A: BUILD THE FOUNDATION & FLOOR FRAME

1. Excavate the building site and add a 4" layer of compactible gravel. If desired, add an extension to the base for the optional wood ramp. Tamp the gravel thoroughly, making sure it is flat and level.
2. Cut three 4 × 4 treated timber skids at 144". Arrange and level the skids on the gravel bed, following the FLOOR FRAMING PLAN.
3. Cut two 2 × 6 rim joists at 144" and ten joists at 93". Mark the joist layout onto the rim joists, following the plan. Assemble frame with 16d galv. common nails; be sure to check each joist for crowning and install it with the crowned edge up.
4. Set the floor frame on top of the skids and measure the diagonals to make sure it's square. Install metal clip angles at each joist along the two outer skids, using 1 1/2" joist hanger nails and 16d galv. common nails, and toenail each joist to the center skid with 16d galv. nails.
5. Install the tongue-and-groove floor sheathing, starting with a full sheet at one corner of the frame. Use 8d galv. nails driven every 6" along the edges and every 12" in the field.

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