WESTERN RED CEDAR - OUTDOOR LIVING

Gazebo

MATERIAL LIST

1. 6"x6" x 12" (for cupola roof peak)
2. 2"x6" x 8" ( fascia, inner rails)
3. 2"x6" x 10" (floor framing can be 2"x8" x 10" for heavy weight version)
4. 2"x6" x 12" or 6/4"x6" x 12" (decking)
5a. 2"x4" x 8' (roof rafters, posts, top plate, handrail caps, Transom Mounting Plate, cupola frame)
5b. 1"x4" x 8' (post trim)
6. 2"x2" x 8' (balkasters)
7. 5/4"x6" x 8' (transom)
8. 1"x4" x 8' (rail mounting plate)
9. 1"x10" x 12' (Barn Board or 3 Sheets 5/8" Exterior Plywood (roof sheathing))
10. 2"x6" x 12" (braces)
11. 2"x4" x 8' (brace mounting plates)
12. 2"x6" x 10' (ridge beam)
13. 3/4" (exterior plywood for laminated posts)
14. Quart waterproof adhesive

Fasteners:
16. Galvanized Hurricane Clips. (if applicable)
2b. 3/4" galvanized roofing nails
3b. 5/4" galvanized carriage bolts with nuts and washers
24. 3/8" x 3/8" galvanized carriage bolts with nuts and washers

*Consider using a 2x6" Joist with a cut-out, then nailing the screws into the 2x6" Joist and using a drill press and a rafter-cutting cutter.

**Consider pre-finishing Red Cedar prior to assembly.

*** Full size template with hardware/solid wood and instructions is available for purchase through www.GardenStructure.com

RECOMMENDED TOOLS

- Three 2"x4" x 12" to be used for temporary bracing
- 6 carpentry clamps
- Drill, 1/4" and 3/8" spade bit or screw bits
- Screw driver bits and magnetic tip and drill
- Circular saw and Bevel Mitre saw capable of cutting 2x6s
- Framing Square
- Pocket Hole Jig & #12 Pan Head Stainless Wood Screws
- 3/8" Countersink and Pilots bits and a tapered plug cutter
- Random orbital sander with 80 grit sandpaper,
- Jigsaw with heavy duty blades
- Small Drill Press (optional)
- Flash Cut Saw
- Table Saw
- Wheelbarrow, Shovel, Rake, Lever Auger
- Level (if you are doing southwest footing)

- Bolt Sander with 40 and 60 grit paper
- Random Orbital Sander with 60 and 80 grit paper
- Wrenches and Socket Set
- An accurate level

Item No. Description MATERIAL Qty.
1a. Deck Trim Joist 2"x6" 8
1b. Deck Joint Type A 2"x6" 2
2a. Deck Joint Type B 2"x6" 4
6a. Deck Rail 2"x6" 4
6b. Deck Rail (Short) 2"x6" 4
8a. Rail Rafter 2"x6" 16
9a. Roof Rafter 2"x6" 16
10a. Roof Rafter 2"x6" 16
11a. Roof Middle Rafter 2"x4" 8
12a. Post Vertical (Long) 2"x6" 12
13a. Post Vertical (Short) 2"x6" 4
14a. Post Vertical Corner Cap 2"x6" 8
15a. Inner Post Trim 1"x4" 8
16a. Top Plate 2"x6" 8
17a. Cupola Rafter 2"x6" 8
18a. Handrail Cap 2"x6" 16
20a. Balkasters 2"x2" 64
21a. Inner Rafter 2"x6" 8
22a. Transom Panel 5/4"x6" 8
23a. Red Mounting Plate 1"x3" 16
24a. De FLOATING 5/8" 8
25a. Pine Barn Board or 5/8" Exterior Plywood & Shingles
     See Description
26a. Pine Barn Board or 5/8" Exterior Plywood & Shingles
     See Description
27a. LHS Brace 2"x6" 8
28a. RHS Brace 2"x6" 8
29a. Brace Mounting Plate Type B 5/4"x3" 16
30a. Brace Mounting Plate Type A 5/4"x3" 16
31a. Cupola Peak 6"x6" 1
32a. Transom Lower Plate 2"x6" 8
33a. Octo-Ridge Beam 2"x6" 8
34a. 3/4x3/4" Plywood Filler 3/4"x3/4" 2
35a. 1/2" Galvanized Hex Nut Steel 24
36a. 1/2" Galvanized Flat Washer Steel 24
37a. 1/2"x6" Galvanized Carriage Bolt Steel 16
38a. Cupola Fittings 3"x6" 8
40a. 1/2"x6" Galvanized Carriage Bolt Steel 16
INSTRUCTIONS

A. Shop for, gather and organize the materials.

B. Prefabricate the parts as required and stack like parts together. It is prudent to leave parts slightly long and trim to fit once measurements have been confirmed.

C. This gazebo is suitable to be placed on 9-inch-tube footings, on a slab, or even set up on concrete blocks, though it is always better to put the blocks on patio stones so that they stay more level.

D. If choosing permanent 6x6 tube footings use a strap type anchor or a carpenter bracket so that you may bolt through the post to make a wind resistant connection. Consider using an adjustable type of post mount. Layout and dig the minimum 6' deep x 10' wide holes using a lever auger or power auger—or better still, hire someone that specializes in digging post holes. Carefully locate the supports using the dimensions provided in the footing layout.

E. Frame the floor structure as illustrated from 2x6 or 2x8 materials. Use care to leave a 3/4" slot between the 2 main beams to accommodate the hardwood spline that connects the posts to the deck. Use blocks of plywood spaced about every 16" apart to maintain the space.

F. Assemble the post verticals with plywood spacers as illustrated and put in place against the rim joist. The posts should be assembled using a 3/4" strip of exterior plywood and laminating the posts to use waterproof glue. Secure the joint with a carpenter clamp. As the first row of decking is installed, (overhanging the frame by 3") you will need to notch around the posts—however you don’t need to worry too much about a perfect cut. There will be a 5/8” trim covering the joint towards the interior of the gazebo. The posts are secured in location just prior to installing the decking that will cover the connections. Install the galvanized carriage bolts, nuts and washers as you work your way around the deck.

G. Decking is typically laid on slightly long and then trimmed with a straight edge and a circular saw. Each section is laid carefully to maintain a 3/16" space and tight joints. The decking is left slightly long and then trimmed off. The final section will obviously have to be fit carefully.

H. Cut the posts off level to one another as they are fastened together. Now is the time to install the exterior and interior caulking. If installing the interior caulking you may want to leave a few pieces off to make easy installation of bolts connecting the rafters. The octo-ridge beam is the top plate for each piece shaped section of roof. Full 1" barn board will enable the roofing to be installed without nails protruding into the interior of the gazebo.

I. If you will be installing a tongue and groove interior roofing system you can use plywood instead. Shingles can also be installed before installing the roof panels, however it will take more helpers to lift the panels into place and they tend to be more difficult to work with the more weight you add on the ground.

J. Pour the first section of the floor and fasten a 2x6x12 to support the first section while you lift the second section. Bolt the second section to the first—using clamps to hold the sections temporarily. Do not fasten to the top plate until after all the sections are bolted together and the whole assembly is centered upon the top plate. In areas where hurricanes or high wind events are possible you should also use hurricane clips to connect the roof to the top plates.

K. The cupola can be assembled on the ground and set in place. Fasten the cupola from the inside using screws. You may even want to install the roofing and corner caps as well before mounting the cupola.

L. Secure each post for level and brace temporarily—then add the knee braces and the interior post trim and exterior caps.

M. Assemble the handle sections and fasten with the same reveal space between face of exterior face of post and rail mounting brackets.

N. Skirting is different in every site condition. Block, footing and slab installations will require different skirting to be applied. Normally the overhanging roughly 1.5" and the skirting butts up to the decking.

O. Choose a roofing material and install. Pay attention to corner caps. As a precaution, please don’t expect cedar shingles to be a DIY project is a complex roof to apply properly. Consider using ice and water shields barrier over the entire roof if you are not confident in your roofing ability.

P. Give your gazebo a coat of stain, and then fill any voids or holes with exterior putty. Give it a second coat after puttying.